

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:09  
**First Dose M/F:** NA / NA  
**Lab:** SRI

|                             |              |
|-----------------------------|--------------|
| <b>C Number:</b>            | C91008       |
| <b>Lock Date:</b>           | Not Entered. |
| <b>Cage Range:</b>          | All          |
| <b>Date Range:</b>          | All          |
| <b>Reasons For Removal:</b> | All          |
| <b>Removal Date Range:</b>  | All          |
| <b>Treatment Groups:</b>    | All          |
| <b>Study Gender:</b>        | Both         |
| <b>PWG Approval Date</b>    | 06/07/1990   |

**Experiment Number:** 05089-02  
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**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
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**First Dose M/F:** NA / NA  
**Lab:** SRI

|                     |                              |                                 |                         |
|---------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 1 | <b>TRT#:</b> 1               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 733 |
|                     | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A86041148 |

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                          |                         |                           |
|-------------------------|--------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla | Bone                     | Bone Marrow             | Epididymis                |
| Esophagus               | Gallbladder              | Heart                   | Intestine Large - Cecum   |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Lymph Node - Mandibular | Nose                     | Pancreas                | Parathyroid Gland         |
| Prostate                | Salivary Glands          | Seminal Vesicle         | Skin                      |
| Spleen                  | Stomach - Forestomach    | Testes                  | Thymus                    |
| Thyroid Gland           | Trachea                  | Urinary Bladder         |                           |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                      |                       |                                |                      |
|----------------------|-----------------------|--------------------------------|----------------------|
| Adrenal Gland        | Cortex                | Hyperplasia                    | Focal, Minimal       |
| Brain                | Thalamus              | Mineralization                 | Minimal              |
| Intestine Small      | Duodenum              | Metaplasia                     | Squamous, Minimal    |
| Islets, Pancreatic   |                       | Hyperplasia                    | Moderate             |
| Kidney               |                       | Casts Protein                  | Minimal              |
|                      |                       | Cyst                           |                      |
|                      |                       | Mineralization                 | Moderate             |
|                      | Renal Tubule          | Regeneration                   | Mild                 |
| Liver                |                       | Hepatocellular Adenoma         | Multiple, Three      |
|                      |                       | Hyperplasia                    | Focal, Moderate      |
| Note: HEPATOCLR ADEN | TGLs = 2-22,3-23,4-24 |                                |                      |
| Lung                 |                       | Alveolar/Bronchiolar Adenoma   |                      |
|                      |                       | Alveolar/Bronchiolar Carcinoma |                      |
|                      |                       | Infiltration Cellular          | Histiocyte, Moderate |
| Note: ALV BRON CARC  | TGLs = 1-21           |                                |                      |
| Lymph Node           | Mesenteric            | Hemorrhage                     | Moderate             |
| Note: HEMORRHAGE     | TGLs = 5-5            |                                |                      |
| Pituitary Gland      | Pars Distalis         | Cyst                           |                      |
| Stomach              | Glandular             | Cyst                           |                      |

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:09  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 1

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A86041148

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:09  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 2                      **TRT#:** 1                      **SEX:** Male                      **DAY ON TEST:** 733  
**DOSE:** VEHICLE CONTROL                      **DISP:** Terminal Sacrifice                      **HISTO:** A87042257

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    | Nose                    |
| Pancreas                  | Parathyroid Gland        | Pituitary Gland            | Prostate                |
| Skin                      | Spleen                   | Stomach - Forestomach      | Stomach - Glandular     |
| Testes                    | Thymus                   | Thyroid Gland              | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|   |                 |                                   |                   |
|---|-----------------|-----------------------------------|-------------------|
| Adrenal Gland                                 | Cortex          | Accessory Adrenal Cortical Nodule |                   |
|   | Cortex          | Basophilic Focus                  |                   |
|   | Capsule, Cortex | Hyperplasia                       | Mild              |
| Brain   | Thalamus        | Mineralization                    | Moderate          |
| Coagulating Gland                             |                 | Dilatation                        | Moderate          |
| Note: DILATATION      TGLs = 3-7              |                 |                                   |                   |
| Islets, Pancreatic                            |                 | Hyperplasia                       | Moderate          |
| Kidney  |                 | Cyst                              |                   |
|   |                 | Mineralization                    | Moderate          |
|   | Renal Tubule    | Regeneration                      | Moderate          |
| Liver   |                 | Basophilic Focus                  |                   |
|   |                 | Hepatocellular Adenoma            | Multiple, Three   |
| Note: BASOPHILIC FOCUS ON SLIDE 22            |                 |                                   |                   |
| Note: HEPATOCLR ADEN      TGLs = 4-21,5-22    |                 |                                   |                   |
| Note: TWO HEPATOCELLULAR ADENOMAS ON SLIDE 22 |                 |                                   |                   |
| Lymph Node                                    | Mesenteric      | Hemorrhage                        | Mild              |
| Salivary Glands                               |                 | Hyperplasia                       | Lymphoid, Minimal |
| Seminal Vesicle                               |                 | Dilatation                        | Moderate          |
| Note: DILATATION      TGLs = 1-7              |                 |                                   |                   |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:09  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                     |                              |                                 |                         |
|---------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 2 | <b>TRT#:</b> 1               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 733 |
|                     | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042257 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|       |  |           |          |
|-------|--|-----------|----------|
| Tooth |  | Dysplasia | Moderate |
|-------|--|-----------|----------|

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|                        |   |  |  |
|------------------------|---|--|--|
| PRIMARY CAUSE OF DEATH | - |  |  |
|------------------------|---|--|--|

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:09  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 3                      **TRT#:** 1                      **SEX:** Male                      **DAY ON TEST:** 541  
**DOSE:** VEHICLE CONTROL                      **DISP:** Natural Death                      **HISTO:** A87042258

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    |
| Lymph Node - Mesenteric | Nose                      | Pancreas                 | Parathyroid Gland          |
| Pituitary Gland         | Prostate                  | Salivary Glands          | Skin                       |
| Stomach - Forestomach   | Stomach - Glandular       | Testes                   | Thyroid Gland              |
| Trachea                 | Urinary Bladder           |                          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|  |             |                              |                              |
|--|-------------|------------------------------|------------------------------|
| Brain                                      | Thalamus    | Mineralization               | Moderate                     |
| Kidney                                     |             | Mineralization               | Mild                         |
| Liver                                      |             | Hepatocellular Carcinoma     |                              |
| Note: HEPATOCLR CARC    TGLs = 2-21        |             |                              |                              |
| Lung                                       |             | Alveolar/Bronchiolar Adenoma |                              |
|  |             | Congestion                   | Mild                         |
|  |             | Fibrosarcoma                 | Metastatic (Skeletal Muscle) |
|  |             | Hepatocellular Carcinoma     | Metastatic (Liver)           |
|  |             | Infiltration Cellular        | Histiocyte, Mild             |
| Note: HEPATOCLR CARC    TGLs = 5-2-1       |             |                              |                              |
| Note: FIBROSARC            TGLs = 6-2-1    |             |                              |                              |
| Note: CONGESTION        TGLs = 4-2-1,4-2   |             |                              |                              |
| Lymph Node                                 | Mediastinal | Hepatocellular Carcinoma     | Metastatic (Liver)           |
| Note: HEPATOCLR CARC    TGLs = 7-2-1       |             |                              |                              |
| Mesentery                                  |             | Fibrosarcoma                 | Metastatic (Skeletal Muscle) |
|  |             | Mineralization               | Moderate                     |
| Note: FIBROSARCOMA IS ON SLIDE 7           |             |                              |                              |
| Note: MINERALIZATION IS ADJACENT TO LIVER. |             |                              |                              |
| Seminal Vesicle                            |             | Dilatation                   | Moderate                     |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
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**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:09  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                     |                              |                            |                         |
|---------------------|------------------------------|----------------------------|-------------------------|
| <b>ANIMAL ID:</b> 3 | <b>TRT#:</b> 1               | <b>SEX:</b> Male           | <b>DAY ON TEST:</b> 541 |
|                     | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Natural Death | <b>HISTO:</b> A87042258 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                 |             |                                  |      |
|-----------------|-------------|----------------------------------|------|
| Skeletal Muscle |             | Fibrosarcoma                     |      |
| Note: FIBROSARC | TGLs = 3-22 |                                  |      |
| Spleen          |             | Hematopoietic Cell Proliferation | Mild |
| Thymus          |             | Depletion Cellular               | Mild |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:09  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 4                      **TRT#:** 1                      **SEX:** Male                      **DAY ON TEST:** 733  
**DOSE:** VEHICLE CONTROL                      **DISP:** Terminal Sacrifice                      **HISTO:** A87042259

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                          |                           |                         |
|-------------------------|--------------------------|---------------------------|-------------------------|
| Adrenal Gland - Medulla | Bone                     | Bone Marrow               | Epididymis              |
| Esophagus               | Gallbladder              | Heart                     | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Jejunum | Lymph Node - Mandibular |
| Parathyroid Gland       | Pituitary Gland          | Salivary Glands           | Skin                    |
| Stomach - Forestomach   | Stomach - Glandular      | Testes                    | Thymus                  |
| Trachea                 | Urinary Bladder          |                           |                         |

**MISSING**

|                         |               |
|-------------------------|---------------|
| Lymph Node - Mesenteric | Mammary Gland |
|-------------------------|---------------|

**OBSERVATIONS**

|                                       |              |                          |                   |
|---------------------------------------|--------------|--------------------------|-------------------|
| Adrenal Gland                         | Cortex       | Hyperplasia              | Focal, Moderate   |
| Brain                                 | Thalamus     | Mineralization           | Mild              |
| Coagulating Gland                     |              | Dilatation               | Moderate          |
| Note: DILATATION      TGLs = 4-7-1    |              |                          |                   |
| Intestine Small                       | Duodenum     | Hyperplasia              | Lymphoid, Mild    |
|                                       | Ileum        | Hyperplasia              | Lymphoid, Mild    |
| Islets, Pancreatic                    |              | Hyperplasia              | Moderate          |
| Kidney                                |              | Casts Protein            | Minimal           |
|                                       |              | Mineralization           | Moderate          |
|                                       | Renal Tubule | Regeneration             | Moderate          |
| Liver                                 |              | Basophilic Focus         |                   |
|                                       |              | Clear Cell Focus         |                   |
|                                       |              | Hepatocellular Adenoma   | Multiple, Two     |
|                                       |              | Hepatocellular Carcinoma |                   |
| Note: CLEAR CELL FOCUS IS ON SLIDE 22 |              |                          |                   |
| Note: HEPATOCLR ADEN      TGLs = 3-22 |              |                          |                   |
| Note: HEPATOCLR CARC      TGLs = 2-21 |              |                          |                   |
| Lung                                  |              | Hyperplasia              | Lymphoid, Minimal |
|                                       |              | Metaplasia               | Osseous, Minimal  |
| Nose                                  |              | Exudate                  |                   |
| Pancreas                              |              | Atrophy                  | Mild              |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                     |                              |                                 |                         |
|---------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 4 | <b>TRT#:</b> 1               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 733 |
|                     | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042259 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                  |              |              |                 |
|------------------|--------------|--------------|-----------------|
| Prostate         |              | Cyst         |                 |
| Seminal Vesicle  |              | Dilatation   | Marked          |
| Note: DILATATION | TGLs = 1-7-1 |              |                 |
| Spleen           | Red Pulp     | Hyperplasia  | Mild            |
| Thyroid Gland    |              | Degeneration | Cystic, Minimal |
| Tooth            |              | Dysplasia    | Moderate        |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                     |                              |                                 |                         |
|---------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 5 | <b>TRT#:</b> 1               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 733 |
|                     | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042260 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Nose                     | Pancreas                   | Parathyroid Gland       |
| Pituitary Gland           | Prostate                 | Salivary Glands            | Seminal Vesicle         |
| Skin                      | Spleen                   | Stomach - Forestomach      | Stomach - Glandular     |
| Testes                    | Thymus                   | Trachea                    | Urinary Bladder         |

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

|                                 |              |                  |                 |
|---------------------------------|--------------|------------------|-----------------|
| Adrenal Gland                   | Cortex       | Hyperplasia      | Focal, Mild     |
|                                 | Cortex       | Hypertrophy      | Focal, Moderate |
| Note: [ HYPERTROPHY ] TGLs = 10 |              |                  |                 |
| Brain                           | Thalamus     | Mineralization   | Moderate        |
| Kidney                          |              | Cyst             |                 |
|                                 |              | Mineralization   | Moderate        |
|                                 | Renal Tubule | Regeneration     | Moderate        |
| Note: CYST TGLs = 1-21          |              |                  |                 |
| Liver                           |              | Clear Cell Focus |                 |
| Thyroid Gland                   |              | Degeneration     | Cystic, Mild    |
| Tooth                           |              | Dysplasia        | Mild            |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                     |                              |                                 |                         |
|---------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 6 | <b>TRT#:</b> 1               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 733 |
|                     | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042261 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Nose                     | Pancreas                   | Parathyroid Gland       |
| Pituitary Gland           | Prostate                 | Seminal Vesicle            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Testes                     | Thymus                  |
| Thyroid Gland             | Trachea                  | Urinary Bladder            |                         |

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

|                      |                  |                  |                 |
|----------------------|------------------|------------------|-----------------|
| Adrenal Gland        | Capsule, Cortex  | Hyperplasia      | Mild            |
|                      | Cortex           | Hyperplasia      | Focal, Minimal  |
| Brain                | Thalamus         | Mineralization   | Minimal         |
| Kidney               |                  | Mineralization   | Mild            |
|                      | Renal Tubule     | Regeneration     | Moderate        |
| Liver                |                  | Clear Cell Focus |                 |
|                      |                  | Hyperplasia      | Focal, Moderate |
| Note: HYPERPLASIA    | TGLs = 1-21      |                  |                 |
| Note: CLEAR CL FOCUS | TGLs = 2-22,3-23 |                  |                 |
| Salivary Glands      |                  | Hyperplasia      | Lymphoid, Mild  |
| Stomach              | Glandular        | Cyst             |                 |

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

|                     |                              |                                 |                         |
|---------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 7 | <b>TRT#:</b> 1               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 558 |
|                     | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87042262 |

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    |
| Lymph Node - Mesenteric | Nose                      | Pancreas                 | Parathyroid Gland          |
| Prostate                | Skin                      | Stomach - Forestomach    | Stomach - Glandular        |
| Testes                  | Trachea                   | Urinary Bladder          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                      |                  |                              |                    |
|----------------------|------------------|------------------------------|--------------------|
| Brain                | Thalamus         | Mineralization               | Minimal            |
| Kidney               |                  | Casts Protein                | Minimal            |
|                      |                  | Cyst                         |                    |
|                      |                  | Mineralization               | Mild               |
|                      | Renal Tubule     | Regeneration                 | Mild               |
| Liver                |                  | Hepatocellular Adenoma       | Multiple, Two      |
|                      |                  | Hepatocellular Carcinoma     | Multiple, Two      |
|                      | Kupffer Cell     | Hyperplasia                  | Mild               |
| Note: HEPATOCLR CARC | TGLs = 3-21,6-24 |                              |                    |
| Note: HEPATOCLR ADEN | TGLs = 4-22,5-23 |                              |                    |
| Lung                 |                  | Alveolar/Bronchiolar Adenoma |                    |
|                      |                  | Hepatocellular Carcinoma     | Metastatic (Liver) |
|                      |                  | Infiltration Cellular        | Histiocyte, Mild   |
| Note: ALV BRON ADEN  | TGLs = 7-2-1     |                              |                    |
| Pituitary Gland      | Pars Distalis    | Cyst                         |                    |
| Salivary Glands      |                  | Hyperplasia                  | Lymphoid, Mild     |
| Seminal Vesicle      |                  | Fibrosis                     | Moderate           |
|                      |                  | Inflammation                 | Chronic, Mild      |
| Note: FIBROSIS       | TGLs = 1-7       |                              |                    |
| Note: INFLAMMATION   | TGLs = 1-7       |                              |                    |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                     |                              |                                 |                         |
|---------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 7 | <b>TRT#:</b> 1               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 558 |
|                     | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87042262 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|   |                                  |                 |
|---|----------------------------------|-----------------|
| Spleen<br>Note: HEMA CELL PROL TGLs = 2-6 | Hematopoietic Cell Proliferation | Moderate        |
| Thymus                                    | Depletion Cellular               | Moderate        |
| Thyroid Gland                             | Degeneration                     | Cystic, Minimal |

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PRIMARY CAUSE OF DEATH

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-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                     |                              |                                 |                         |
|---------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 8 | <b>TRT#:</b> 1               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 736 |
|                     | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042263 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Bone                      | Bone Marrow              | Brain                      | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    | Nose                    |
| Pancreas                  | Parathyroid Gland        | Pituitary Gland            | Prostate                |
| Seminal Vesicle           | Skin                     | Spleen                     | Stomach - Forestomach   |
| Stomach - Glandular       | Testes                   | Thymus                     | Thyroid Gland           |
| Trachea                   | Urinary Bladder          |                            |                         |

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**MISSING**

|                         |               |
|-------------------------|---------------|
| Lymph Node - Mesenteric | Mammary Gland |
|-------------------------|---------------|

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**OBSERVATIONS**

|                    |                 |                           |                   |
|--------------------|-----------------|---------------------------|-------------------|
| Adrenal Gland      | Capsule, Cortex | Hyperplasia               | Mild              |
|                    | Cortex          | Hyperplasia               | Focal, Mild       |
|                    | Medulla         | Hyperplasia               | Mild              |
| Islets, Pancreatic |                 | Hyperplasia               | Minimal           |
| Kidney             | Renal Tubule    | Atrophy                   | Minimal           |
|                    |                 | Mineralization            | Moderate          |
|                    | Renal Tubule    | Regeneration              | Moderate          |
| Liver              | Hepatocyte      | Vacuolization Cytoplasmic | Mild              |
| Salivary Glands    |                 | Hyperplasia               | Lymphoid, Minimal |

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

|                     |                              |                                 |                         |
|---------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 9 | <b>TRT#:</b> 1               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 625 |
|                     | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87042264 |

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Liver                    | Nose                       | Pancreas                |
| Parathyroid Gland         | Pituitary Gland          | Prostate                   | Salivary Glands         |
| Skin                      | Stomach - Forestomach    | Stomach - Glandular        | Testes                  |
| Trachea                   | Urinary Bladder          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                  |                 |                              |                       |
|----------------------------------|-----------------|------------------------------|-----------------------|
| Adrenal Gland                    | Cortex          | Clear Cell Focus             |                       |
|                                  | Capsule, Cortex | Hyperplasia                  | Mild                  |
|                                  | Cortex          | Hyperplasia                  | Diffuse, Mild         |
|                                  | Cortex          | Mineralization               | Moderate              |
| Note: MINERALIZATION TGLs = 3-21 |                 |                              |                       |
| Note: HYPERPLASIA TGLs = 3-21    |                 |                              |                       |
| Brain                            | Thalamus        | Mineralization               | Moderate              |
| Islets, Pancreatic               |                 | Hyperplasia                  | Marked                |
| Kidney                           |                 | Casts Protein                | Minimal               |
|                                  |                 | Mineralization               | Moderate              |
|                                  | Renal Tubule    | Regeneration                 | Mild                  |
| Lung                             |                 | Alveolar/Bronchiolar Adenoma |                       |
| Note: ALV BRON ADEN TGLs = 5-2-1 |                 |                              |                       |
| Lymph Node                       | Mesenteric      | Hemorrhage                   | Mild                  |
|                                  | Mandibular      | Hyperplasia                  | Lymphoid, Mild        |
|                                  | Mandibular      | Hyperplasia                  | Plasma Cell, Moderate |
|                                  | Mesenteric      | Hyperplasia                  | Lymphoid, Mild        |
| Note: HYPERPLASIA TGLs = 7-8     |                 |                              |                       |
| Note: HYPERPLASIA TGLs = 7-8     |                 |                              |                       |
| Seminal Vesicle                  |                 | Dilatation                   | Marked                |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                     |                              |                                 |                         |
|---------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 9 | <b>TRT#:</b> 1               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 625 |
|                     | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87042264 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                  |            |          |                    |                 |
|------------------|------------|----------|--------------------|-----------------|
| Note: DILATATION | TGLs = 1-7 |          |                    |                 |
| Spleen           |            | Red Pulp | Atrophy            | Mild            |
| Note: ATROPHY    | TGLs = 2-6 |          |                    |                 |
| Thymus           |            |          | Depletion Cellular | Moderate        |
| Thyroid Gland    |            |          | Degeneration       | Cystic, Minimal |
| Tooth            |            |          | Dysplasia          | Marked          |
| Note: DYSPLASIA  | TGLs = 4-9 |          |                    |                 |

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|                               |   |
|-------------------------------|---|
| <b>PRIMARY CAUSE OF DEATH</b> | - |
|-------------------------------|---|

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 10

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87042265

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Nose                    |
| Pancreas                  | Parathyroid Gland        | Pituitary Gland            | Prostate                |
| Salivary Glands           | Skin                     | Spleen                     | Stomach - Forestomach   |
| Stomach - Glandular       | Testes                   | Thyroid Gland              | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|  |              |                        |                  |
|--|--------------|------------------------|------------------|
| Bone Marrow                                  |              | Angiectasis            | Mild             |
| Brain  | Thalamus     | Mineralization         | Minimal          |
| Islets, Pancreatic                           |              | Hyperplasia            | Marked           |
| Note: HYPERPLASIA PRESENT ON SLIDES 4 & 7    |              |                        |                  |
| Kidney                                       | Renal Tubule | Atrophy                | Mild             |
|  |              | Cyst                   |                  |
|  |              | Metaplasia             | Osseous, Minimal |
|  |              | Mineralization         | Moderate         |
|  | Renal Tubule | Regeneration           | Mild             |
| Liver  |              | Hepatocellular Adenoma | Multiple, Three  |
|  |              | Hyperplasia            | Focal, Mild      |
| Note: HEPATOCLR ADEN TGLs = 2-21             |              |                        |                  |
| Note: TWO HEPATOCELLULAR ADENOMAS ON SLIDE 6 |              |                        |                  |
| Note: FOCAL HYPERPLASIA ON SLIDE 21          |              |                        |                  |
| Lung   |              | Hemorrhage             | Minimal          |
| Seminal Vesicle                              |              | Dilatation             | Marked           |
| Note: DILATATION TGLs = 1-7                  |              |                        |                  |
| Thymus                                       |              | Cyst                   |                  |
|  |              | Depletion Cellular     | Mild             |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 10

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87042265

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Tooth

Dysplasia

Marked

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 11

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87042266

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Brain                   |
| Epididymis                | Esophagus                | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    | Nose                    |
| Pancreas                  | Parathyroid Gland        | Pituitary Gland            | Prostate                |
| Skin                      | Spleen                   | Stomach - Forestomach      | Stomach - Glandular     |
| Testes                    | Thyroid Gland            | Trachea                    | Urinary Bladder         |

**MISSING**

|             |               |
|-------------|---------------|
| Gallbladder | Mammary Gland |
|-------------|---------------|

**OBSERVATIONS**

|  |              |                                  |                   |
|--|--------------|----------------------------------|-------------------|
| Adrenal Gland                                | Cortex       | Hyperplasia                      | Focal, Mild       |
| Coagulating Gland                            |              | Dilatation                       | Moderate          |
| Note: DILATATION TGLs = 4-7                  |              |                                  |                   |
| Islets, Pancreatic                           |              | Hyperplasia                      | Mild              |
| Kidney                                       |              | Cyst                             |                   |
|  |              | Mineralization                   | Moderate          |
|  | Renal Tubule | Regeneration                     | Moderate          |
| Liver  |              | Hepatocellular Adenoma           | Multiple, Two     |
| Note: HEPATOCELLULAR ADENOMA ALSO ON SLIDE 6 |              |                                  |                   |
| Note: HEPATOCLR ADEN TGLs = 3-21             |              |                                  |                   |
| Lymph Node                                   | Mesenteric   | Hematopoietic Cell Proliferation | Minimal           |
|  | Mesenteric   | Hemorrhage                       | Minimal           |
| Salivary Glands                              |              | Hyperplasia                      | Lymphoid, Minimal |
| Seminal Vesicle                              |              | Dilatation                       | Moderate          |
| Note: DILATATION TGLs = 1-7                  |              |                                  |                   |
| Thymus                                       |              | Cyst                             |                   |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 12

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87042267

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Epididymis                |
| Esophagus                | Gallbladder                | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lymph Node - Mandibular    | Nose                    | Pancreas                  |
| Parathyroid Gland        | Pituitary Gland            | Prostate                | Skin                      |
| Spleen                   | Stomach - Forestomach      | Stomach - Glandular     | Testes                    |
| Thyroid Gland            | Trachea                    | Urinary Bladder         |                           |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                     |                       |                                   |                   |
|-------------------------------------|-----------------------|-----------------------------------|-------------------|
| Adrenal Gland                       | Cortex                | Accessory Adrenal Cortical Nodule |                   |
| Brain                               | Thalamus              | Mineralization                    | Minimal           |
| Harderian Gland                     |                       | Adenoma                           |                   |
| Note: ADENOMA                       | TGLs = 7-26           |                                   |                   |
| Heart                               | Myocardium            | Inflammation                      | Chronic, Minimal  |
| Kidney                              |                       | Cyst                              |                   |
|                                     |                       | Hyperplasia                       | Lymphoid, Minimal |
|                                     |                       | Mineralization                    | Mild              |
|                                     | Renal Tubule          | Regeneration                      | Mild              |
| Liver                               |                       | Clear Cell Focus                  |                   |
|                                     |                       | Hepatocellular Adenoma            | Multiple, Three   |
|                                     |                       | Hepatocellular Carcinoma          | Multiple, Two     |
|                                     |                       | Hyperplasia                       | Focal, Mild       |
| Note: HEPATOCLR CARC                | TGLs = 3-23,4-24      |                                   |                   |
| Note: HEPATOCLR ADEN                | TGLs = 2-22,3-23,8-27 |                                   |                   |
| Note: FOCAL HYPERPLASIA ON SLIDE 27 |                       |                                   |                   |
| Lung                                |                       | Hyperplasia                       | Lymphoid, Minimal |
| Lymph Node                          | Mesenteric            | Hematopoietic Cell Proliferation  | Mild              |
|                                     | Mesenteric            | Hemorrhage                        | Mild              |
| Note: HEMORRHAGE                    | TGLs = 6-5            |                                   |                   |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                      |                              |                                 |                         |
|----------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 12 | <b>TRT#:</b> 1               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 736 |
|                      | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042267 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                      |             |     |             |
|----------------------|-------------|-----|-------------|
| Note: HEMA CELL PROL | TGLs = 6-5  |     |             |
| Mesentery            |             | Fat | Necrosis    |
| Note: NECROSIS       | TGLs = 1-21 |     |             |
| Salivary Glands      |             |     | Hyperplasia |
| Seminal Vesicle      |             |     | Dilatation  |
| Thymus               |             |     | Cyst        |
| Tooth                |             |     | Dysplasia   |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 13

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 691

**DOSE:** VEHICLE CONTROL

**DISP:** Moribund Sacrifice

**HISTO:** A87042268

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Medulla    | Bone                    | Epididymis                | Esophagus                |
| Gallbladder                | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Lymph Node - Mandibular  |
| Lymph Node - Mesenteric    | Pancreas                | Parathyroid Gland         | Pituitary Gland          |
| Prostate                   | Salivary Glands         | Seminal Vesicle           | Skin                     |
| Stomach - Glandular        | Testes                  | Trachea                   | Urinary Bladder          |

**MISSING**

|               |        |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

**OBSERVATIONS**

|  |              |                        |                      |
|--|--------------|------------------------|----------------------|
| Adrenal Gland  | Cortex       | Hepatoblastoma         | Metastatic (Liver)   |
| Bone Marrow  |              | Hypercellularity       | Moderate             |
| Brain  | Thalamus     | Mineralization         | Mild                 |
| Heart  | Epicardium   | Inflammation           | Chronic, Minimal     |
| Islets, Pancreatic   |              | Hyperplasia            | Minimal              |
| Kidney   |              | Casts Protein          | Mild                 |
|  |              | Cyst                   |                      |
|  |              | Hepatoblastoma         | Metastatic (Liver)   |
| Note: HEPATOBLASTOMA TGLs = 6-5-1,6-23                             |              |                        |                      |
| Note: CYST TGLs = 5-23   |              |                        |                      |
| Liver  |              | Hepatoblastoma         |                      |
|  |              | Hepatocellular Adenoma | Multiple, Two        |
|  | Kupffer Cell | Hyperplasia            | Mild                 |
| Note: HEPATOBLASTOMA HAS SOME FEATURES OF HEPATOCELLULAR CARCINOMA |              |                        |                      |
| Note: HEPATOCLR ADEN TGLs = 8-25                                   |              |                        |                      |
| Note: HEPATOBLASTOMA TGLs = 7-24                                   |              |                        |                      |
| Lung   |              | Hepatoblastoma         | Metastatic (Liver)   |
|  |              | Infiltration Cellular  | Histiocyte, Moderate |
| Note: HEPATOBLASTOMA TGLs = 10-2,11-2,12-2,13-2,14-2               |              |                        |                      |
| Lymph Node   | Mediastinal  | Hepatoblastoma         | Metastatic (Liver)   |
| Note: HEPATOBLASTOMA TGLs = 15-2-1                                 |              |                        |                      |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                      |                              |                                 |                         |
|----------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 13 | <b>TRT#:</b> 1               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 691 |
|                      | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87042268 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|   |                                  |  |                              |
|---|----------------------------------|--|------------------------------|
| Mesentery<br>Note: HEPATOBLASTOMA TGLs = 2-21                                       |                                  | Hepatoblastoma                                     | Metastatic (Liver)           |
| Nose  |                                  | Exudate  |                              |
| Skeletal Muscle<br>Note: HEPATOBLASTOMA TGLs = 9-26                                 |                                  | Hepatoblastoma                                     | Metastatic (Liver)           |
| Spleen<br>Note: HEPATOBLASTOMA TGLs = 4-22<br>Note: HEMA CELL PROL TGLs = 3-6       |                                  | Hematopoietic Cell Proliferation<br>Hepatoblastoma | Marked<br>Metastatic (Liver) |
| Stomach<br>Note: PAPILLOMA SQUA TGLs = 17-4-1<br>Note: HEPATOBLASTOMA TGLs = 16-4-1 | Forestomach<br>Forestomach       | Hepatoblastoma<br>Squamous Cell Papilloma          | Metastatic (Liver)           |
| Thyroid Gland   | Follicular Cel<br>Follicular Cel | Adenoma<br>Degeneration<br>Hyperplasia             | Cystic, Mild<br>Mild         |

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**PRIMARY CAUSE OF DEATH** -

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Animal Note: SOME METASTATIC SITES OF HEPATOBLASTOMA RESEMBLE A SARCOMA

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 14      **TRT#:** 1      **SEX:** Male      **DAY ON TEST:** 736  
**DOSE:** VEHICLE CONTROL      **DISP:** Terminal Sacrifice      **HISTO:** A87042269

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                          |                            |                           |
|-------------------------|--------------------------|----------------------------|---------------------------|
| Adrenal Gland - Medulla | Bone                     | Bone Marrow                | Epididymis                |
| Esophagus               | Gallbladder              | Heart                      | Intestine Large - Cecum   |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Jejunum |
| Lung                    | Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Nose                      |
| Pancreas                | Parathyroid Gland        | Pituitary Gland            | Prostate                  |
| Salivary Glands         | Skin                     | Spleen                     | Stomach - Forestomach     |
| Stomach - Glandular     | Testes                   | Thyroid Gland              | Trachea                   |

**MISSING**

|                         |               |        |
|-------------------------|---------------|--------|
| Intestine Small - Ileum | Mammary Gland | Thymus |
|-------------------------|---------------|--------|

**OBSERVATIONS**

|  |                 |                        |                   |
|--|-----------------|------------------------|-------------------|
| Adrenal Gland                              | Capsule, Cortex | Adenoma                |                   |
| Brain                                      | Thalamus        | Mineralization         | Mild              |
| Coagulating Gland                          |                 | Dilatation             | Moderate          |
| Note: DILATATION      TGLs = 2-7-1         |                 |                        |                   |
| Islets, Pancreatic                         |                 | Hyperplasia            | Moderate          |
| Kidney                                     | Renal Tubule    | Atrophy                | Mild              |
|  |                 | Hydronephrosis         | Mild              |
|  |                 | Hyperplasia            | Lymphoid, Minimal |
|  |                 | Mineralization         | Moderate          |
|  | Renal Tubule    | Regeneration           | Moderate          |
| Liver                                      |                 | Hepatocellular Adenoma | Multiple, Two     |
|  |                 | Hyperplasia            | Focal, Moderate   |
| Note: FOCAL HYPERPLASIA ALSO ON SLIDE 6    |                 |                        |                   |
| Note: HEPATOCLR ADEN      TGLs = 3-21,4-22 |                 |                        |                   |
| Note: HYPERPLASIA      TGLs = 5-23         |                 |                        |                   |
| Seminal Vesicle                            |                 | Dilatation             | Marked            |
| Note: DILATATION      TGLs = 1-7-1         |                 |                        |                   |
| Urinary Bladder                            |                 | Hyperplasia            | Lymphoid, Minimal |

**PRIMARY CAUSE OF DEATH**      -

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 15

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A86041151

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      | Lymph Node - Mandibular |
| Pancreas                  | Parathyroid Gland        | Pituitary Gland            | Prostate                |
| Seminal Vesicle           | Skin                     | Spleen                     | Stomach - Forestomach   |
| Stomach - Glandular       | Testes                   | Thymus                     | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                      |                 |                                |                      |
|----------------------|-----------------|--------------------------------|----------------------|
| Adrenal Gland        | Capsule, Cortex | Adenoma                        |                      |
|                      | Cortex          | Hyperplasia                    | Focal, Minimal       |
| Brain                | Thalamus        | Mineralization                 | Mild                 |
| Kidney               |                 | Cyst                           |                      |
|                      |                 | Mineralization                 | Moderate             |
|                      | Renal Tubule    | Regeneration                   | Mild                 |
| Lung                 |                 | Alveolar/Bronchiolar Carcinoma |                      |
|                      | Mediastinum     | Hemangioma                     |                      |
|                      |                 | Infiltration Cellular          | Histiocyte, Moderate |
| Note: INFILTRAT CELL | TGLs = 2-2,2-21 |                                |                      |
| Note: ALV BRON CARC  | TGLs = 1-21     |                                |                      |
| Lymph Node           | Mesenteric      | Hemorrhage                     | Minimal              |
| Nose                 |                 | Exudate                        |                      |
| Salivary Glands      |                 | Atrophy                        | Minimal              |
|                      |                 | Hyperplasia                    | Lymphoid, Mild       |
| Thyroid Gland        | Follicular Cel  | Hyperplasia                    | Moderate             |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 16      **TRT#:** 1      **SEX:** Male      **DAY ON TEST:** 736  
**DOSE:** VEHICLE CONTROL      **DISP:** Terminal Sacrifice      **HISTO:** A87042270

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    | Nose                    |
| Parathyroid Gland         | Pituitary Gland          | Prostate                   | Seminal Vesicle         |
| Skin                      | Spleen                   | Stomach - Forestomach      | Testes                  |
| Thyroid Gland             | Trachea                  | Urinary Bladder            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                     |              |                        |                   |
|-------------------------------------|--------------|------------------------|-------------------|
| Adrenal Gland                       | Cortex       | Hyperplasia            | Focal, Mild       |
| Brain                               | Thalamus     | Mineralization         | Moderate          |
| Islets, Pancreatic                  |              | Hyperplasia            | Moderate          |
| Kidney                              |              | Cyst                   |                   |
|                                     |              | Mineralization         | Moderate          |
|                                     | Renal Tubule | Regeneration           | Moderate          |
| Liver                               |              | Clear Cell Focus       |                   |
|                                     |              | Eosinophilic Focus     |                   |
|                                     |              | Hepatocellular Adenoma |                   |
| Note: CLEAR CL FOCUS    TGLs = 2-22 |              |                        |                   |
| Note: HEPATOCLR ADEN    TGLs = 1-21 |              |                        |                   |
| Lymph Node                          | Mesenteric   | Hemorrhage             | Mild              |
| Pancreas                            |              | Atrophy                | Moderate          |
|                                     |              | Focal Cellular Change  |                   |
| Preputial Gland                     |              | Ectasia                | Moderate          |
| Note: ECTASIA      TGLs = 3-8       |              |                        |                   |
| Salivary Glands                     |              | Hyperplasia            | Lymphoid, Minimal |
| Stomach                             | Glandular    | Cyst                   |                   |
|                                     | Glandular    | Mineralization         | Mild              |
| Thymus                              |              | Cyst                   |                   |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 16

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87042270

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 17

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A86041150

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Salivary Glands          | Seminal Vesicle            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Stomach - Glandular        | Testes                  |
| Thymus                    | Trachea                  | Urinary Bladder            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                       |              |                              |                   |
|---------------------------------------|--------------|------------------------------|-------------------|
| Adrenal Gland                         | Cortex       | Hyperplasia                  | Focal, Minimal    |
| Brain                                 | Thalamus     | Mineralization               | Mild              |
| Kidney                                |              | Cyst                         |                   |
|                                       |              | Hyperplasia                  | Lymphoid, Minimal |
|                                       |              | Mineralization               | Moderate          |
|                                       | Renal Tubule | Regeneration                 | Mild              |
| Liver                                 |              | Clear Cell Focus             |                   |
|                                       |              | Hepatocellular Adenoma       | Multiple, Two     |
|                                       |              | Hyperplasia                  | Focal, Mild       |
| Note: [ HEPATOCLR ADEN ] TGLs = 22,23 |              |                              |                   |
| Lung                                  |              | Alveolar/Bronchiolar Adenoma |                   |
| Note: ALV BRON ADEN TGLs = 4-24       |              |                              |                   |
| Mesentery                             | Fat          | Necrosis                     | Marked            |
| Note: NECROSIS TGLs = 1-21            |              |                              |                   |
| Thyroid Gland                         |              | Degeneration                 | Cystic, Mild      |
| Tooth                                 |              | Dysplasia                    | Mild              |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 18

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87042271

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Bone                      | Bone Marrow              | Brain                      | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Nose                    |
| Pancreas                  | Parathyroid Gland        | Prostate                   | Salivary Glands         |
| Seminal Vesicle           | Skin                     | Spleen                     | Stomach - Forestomach   |
| Testes                    | Thymus                   | Thyroid Gland              | Trachea                 |

**MISSING**

|                         |               |
|-------------------------|---------------|
| Lymph Node - Mesenteric | Mammary Gland |
|-------------------------|---------------|

**OBSERVATIONS**

|  |               |                              |                   |
|--|---------------|------------------------------|-------------------|
| Adrenal Gland                                | Cortex        | Hyperplasia                  | Focal, Minimal    |
|  | Medulla       | Hyperplasia                  | Mild              |
| Kidney                                       |               | Cyst                         |                   |
|  |               | Hyperplasia                  | Lymphoid, Mild    |
|  |               | Mineralization               | Moderate          |
|  | Renal Tubule  | Regeneration                 | Mild              |
| Liver  |               | Hepatocellular Adenoma       | Multiple, Two     |
| Note: HEPATOCELLULAR ADENOMA ALSO ON SLIDE 6 |               |                              |                   |
| Note: HEPATOCLR ADEN TGLs = 1-21             |               |                              |                   |
| Lung   |               | Alveolar/Bronchiolar Adenoma |                   |
| Note: ALV BRON ADEN TGLs = 2-2-1             |               |                              |                   |
| Pituitary Gland                              | Pars Distalis | Hyperplasia                  | Minimal           |
| Stomach                                      | Glandular     | Cyst                         |                   |
| Urinary Bladder                              |               | Hyperplasia                  | Lymphoid, Minimal |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 19

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 727

**DOSE:** VEHICLE CONTROL

**DISP:** Moribund Sacrifice

**HISTO:** A87042272

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Nose                       | Parathyroid Gland       |
| Pituitary Gland           | Prostate                 | Salivary Glands            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Stomach - Glandular        | Testes                  |
| Thymus                    | Trachea                  | Urinary Bladder            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                       |              |                                |                    |
|---------------------------------------|--------------|--------------------------------|--------------------|
| Adrenal Gland                         | Cortex       | Hyperplasia                    | Focal, Mild        |
| Brain                                 | Thalamus     | Mineralization                 | Minimal            |
| Coagulating Gland                     |              | Dilatation                     | Marked             |
| Note: DILATATION TGLs = 3-7           |              |                                |                    |
| Islets, Pancreatic                    |              | Hyperplasia                    | Mild               |
| Kidney                                |              | Mineralization                 | Moderate           |
|                                       | Renal Tubule | Regeneration                   | Mild               |
| Liver                                 |              | Hepatocellular Adenoma         | Multiple, Two      |
| Note: HEPATOCLR ADEN TGLs = 4-21,5-22 |              | Hyperplasia                    | Focal, Moderate    |
| Lung                                  |              | Alveolar/Bronchiolar Carcinoma |                    |
| Note: ALV BRON CARC TGLs = 7-2        |              | Infiltration Cellular          | Histiocyte, Marked |
| Lymph Node                            | Mesenteric   | Hemorrhage                     | Mild               |
| Note: HEMORRHAGE TGLs = 6-5           |              |                                |                    |
| Pancreas                              |              | Atrophy                        | Mild               |
| Seminal Vesicle                       |              | Dilatation                     | Marked             |
| Note: DILATATION TGLs = 2-7           |              |                                |                    |
| Thyroid Gland                         |              | Degeneration                   | Cystic, Minimal    |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 19

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 727

**DOSE:** VEHICLE CONTROL

**DISP:** Moribund Sacrifice

**HISTO:** A87042272

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                      |                              |                            |                         |
|----------------------|------------------------------|----------------------------|-------------------------|
| <b>ANIMAL ID:</b> 20 | <b>TRT#:</b> 1               | <b>SEX:</b> Male           | <b>DAY ON TEST:</b> 551 |
|                      | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Natural Death | <b>HISTO:</b> A87042273 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    |
| Nose                    | Pancreas                  | Pituitary Gland          | Prostate                   |
| Salivary Glands         | Seminal Vesicle           | Skin                     | Stomach - Forestomach      |
| Stomach - Glandular     | Testes                    | Thymus                   | Thyroid Gland              |
| Trachea                 | Urinary Bladder           |                          |                            |

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**MISSING**

|               |                   |
|---------------|-------------------|
| Mammary Gland | Parathyroid Gland |
|---------------|-------------------|

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**AUTO PRECLUDES DIAG.**

Lymph Node - Mesenteric

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**OBSERVATIONS**

|                                  |          |                                  |                      |
|----------------------------------|----------|----------------------------------|----------------------|
| Brain                            | Thalamus | Mineralization                   | Mild                 |
| Kidney                           |          | Mineralization                   | Mild                 |
| Liver                            |          | Hepatocellular Carcinoma         |                      |
| Note: HEPATOCLR CARC TGLs = 1-21 |          |                                  |                      |
| Lung                             |          | Alveolar/Bronchiolar Adenoma     |                      |
|                                  |          | Hepatocellular Carcinoma         | Metastatic (Liver)   |
| Note: ALV BRON ADEN TGLs = 2-2-1 |          | Infiltration Cellular            | Histiocyte, Moderate |
| Spleen                           |          | Hematopoietic Cell Proliferation | Mild                 |

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                      |                              |                                 |                         |
|----------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 21 | <b>TRT#:</b> 1               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 735 |
|                      | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042274 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Skin                     | Spleen                     | Stomach - Forestomach   |
| Stomach - Glandular       | Testes                   | Thymus                     | Thyroid Gland           |
| Trachea                   | Urinary Bladder          |                            |                         |

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

|                      |                  |                           |                   |
|----------------------|------------------|---------------------------|-------------------|
| Adrenal Gland        | Capsule, Cortex  | Hyperplasia               | Moderate          |
| Brain                | Thalamus         | Mineralization            | Moderate          |
| Islets, Pancreatic   |                  | Hyperplasia               | Mild              |
| Kidney               |                  | Cyst                      |                   |
|                      |                  | Mineralization            | Moderate          |
|                      | Renal Tubule     | Regeneration              | Moderate          |
| Liver                |                  | Clear Cell Focus          |                   |
|                      | Hepatocyte       | Vacuolization Cytoplasmic | Mild              |
| Note: CLEAR CL FOCUS | TGLs = 2-21,3-22 |                           |                   |
| Salivary Glands      |                  | Hyperplasia               | Lymphoid, Minimal |
| Seminal Vesicle      |                  | Dilatation                | Moderate          |
| Note: DILATATION     | TGLs = 1-7       |                           |                   |
| Tooth                |                  | Dysplasia                 | Moderate          |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 22

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87042275

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                          |                            |                           |
|-------------------------|--------------------------|----------------------------|---------------------------|
| Adrenal Gland - Medulla | Bone                     | Bone Marrow                | Epididymis                |
| Esophagus               | Gallbladder              | Heart                      | Intestine Large - Cecum   |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Jejunum |
| Lung                    | Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Parathyroid Gland         |
| Pituitary Gland         | Prostate                 | Seminal Vesicle            | Skin                      |
| Stomach - Forestomach   | Stomach - Glandular      | Testes                     | Trachea                   |
| Urinary Bladder         |                          |                            |                           |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|  |              |                                  |                   |
|--|--------------|----------------------------------|-------------------|
| Adrenal Gland  | Cortex       | Hyperplasia                      | Focal, Minimal    |
| Brain  | Thalamus     | Mineralization                   | Mild              |
| Intestine Small  | Ileum        | Carcinoma                        |                   |
| Note: CARCINOMA TGLs = 2-21                                |              |                                  |                   |
| Islets, Pancreatic   |              | Hyperplasia                      | Minimal           |
| Kidney   |              | Cyst                             |                   |
|  |              | Hyperplasia                      | Lymphoid, Minimal |
|  |              | Mineralization                   | Moderate          |
|  | Renal Tubule | Regeneration                     | Mild              |
| Liver  |              | Hepatocellular Adenoma           |                   |
| Note: HEPATOCLR ADEN TGLs = 3-22                           |              |                                  |                   |
| Nose   |              | Exudate                          |                   |
|  | Glands       | Hyperplasia                      | Cystic, Mild      |
| Pancreas   |              | Atrophy                          | Moderate          |
|  |              | Cytoplasmic Alteration           | Moderate          |
|  |              | Inflammation                     | Chronic, Moderate |
| Note: CYTOPLASMIC ALTERATION IS ZYMOGEN GRANULE DEPLETION. |              |                                  |                   |
| Salivary Glands  |              | Hyperplasia                      | Lymphoid, Minimal |
| Spleen   |              | Hematopoietic Cell Proliferation | Moderate          |
| Note: HEMA CELL PROL TGLs = 1-6                            |              |                                  |                   |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                      |                              |                                 |                         |
|----------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 22 | <b>TRT#:</b> 1               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 735 |
|                      | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042275 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                               |  |              |              |
|-------------------------------|--|--------------|--------------|
| Thymus                        |  | Hemangioma   |              |
| Note: [ HEMANGIOMA ] TGLs = 2 |  |              |              |
| Thyroid Gland                 |  | Degeneration | Cystic, Mild |
| Tooth                         |  | Dysplasia    | Mild         |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 23

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 559

**DOSE:** VEHICLE CONTROL

**DISP:** Moribund Sacrifice

**HISTO:** A87042276

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Liver                    | Lymph Node - Mandibular    |
| Lymph Node - Mesenteric | Parathyroid Gland         | Pituitary Gland          | Prostate                   |
| Salivary Glands         | Seminal Vesicle           | Skin                     | Spleen                     |
| Stomach - Forestomach   | Stomach - Glandular       | Testes                   | Trachea                    |
| Urinary Bladder         |                           |                          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                 |              |                                |                       |
|---------------------------------|--------------|--------------------------------|-----------------------|
| Brain                           | Thalamus     | Mineralization                 | Mild                  |
| Islets, Pancreatic              |              | Hyperplasia                    | Mild                  |
| Kidney                          |              | Mineralization                 | Moderate              |
|                                 | Renal Tubule | Regeneration                   | Mild                  |
| Lung                            |              | Alveolar/Bronchiolar Carcinoma |                       |
|                                 |              | Infiltration Cellular          | Histiocyte, Marked    |
| Note: INFILTRAT CELL TGLs = 1-2 |              |                                |                       |
| Note: ALV BRON CARC TGLs = 2-2  |              |                                |                       |
| Lymph Node                      | Bronchial    | Hyperplasia                    | Lymphoid, Mild        |
|                                 | Mediastinal  | Hyperplasia                    | Plasma Cell, Moderate |
| Note: HYPERPLASIA TGLs = 3-21   |              |                                |                       |
| Note: HYPERPLASIA TGLs = 4-2    |              |                                |                       |
| Nose                            |              | Exudate                        |                       |
| Pancreas                        |              | Atrophy                        | Minimal               |
|                                 |              | Focal Cellular Change          |                       |
| Thymus                          |              | Depletion Cellular             | Moderate              |
| Thyroid Gland                   |              | Degeneration                   | Cystic, Mild          |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                      |                              |                                 |                         |
|----------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 24 | <b>TRT#:</b> 1               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 736 |
|                      | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042277 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex     | Adrenal Gland - Medulla | Bone                      | Bone Marrow              |
| Brain                      | Epididymis              | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Lymph Node - Mandibular    | Lymph Node - Mesenteric | Nose                      | Pancreas                 |
| Parathyroid Gland          | Pituitary Gland         | Prostate                  | Salivary Glands          |
| Seminal Vesicle            | Skin                    | Spleen                    | Stomach - Forestomach    |
| Testes                     | Thymus                  | Thyroid Gland             | Trachea                  |
| Urinary Bladder            |                         |                           |                          |

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

|                                  |                |                        |                |
|----------------------------------|----------------|------------------------|----------------|
| Kidney                           | Renal Tubule   | Atrophy                | Mild           |
|                                  |                | Mineralization         | Moderate       |
|                                  | Renal Tubule   | Regeneration           | Moderate       |
| Liver                            |                | Hepatocellular Adenoma |                |
| Note: HEPATOCLR ADEN TGLs = 1-21 |                |                        |                |
| Lung                             | Alveolar Epith | Hyperplasia            | Moderate       |
|                                  |                | Hyperplasia            | Lymphoid, Mild |
| Note: HYPERPLASIA TGLs = 2-2     |                |                        |                |
| Stomach                          | Glandular      | Cyst                   |                |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 25

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A86041149

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Nose                    |
| Pancreas                  | Parathyroid Gland        | Pituitary Gland            | Prostate                |
| Salivary Glands           | Seminal Vesicle          | Skin                       | Stomach - Forestomach   |
| Testes                    | Thymus                   | Thyroid Gland              | Trachea                 |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|  |                  |                                   |                      |
|--|------------------|-----------------------------------|----------------------|
| Adrenal Gland                                | Cortex           | Accessory Adrenal Cortical Nodule |                      |
|  | Capsule, Cortex  | Hyperplasia                       | Mild                 |
|  | Cortex           | Hyperplasia                       | Focal, Mild          |
| Brain  | Thalamus         | Mineralization                    | Minimal              |
| Islets, Pancreatic                           |                  | Hyperplasia                       | Moderate             |
| Kidney                                       |                  | Mineralization                    | Moderate             |
|  | Renal Tubule     | Regeneration                      | Mild                 |
| Liver  |                  | Clear Cell Focus                  |                      |
|  |                  | Hepatocellular Adenoma            | Four, Multiple       |
|  |                  | Hepatocellular Carcinoma          |                      |
|  |                  | Inflammation                      | Chronic, Minimal     |
| Note: CLEAR CL FOCUS                         | TGLs = 6-25      |                                   |                      |
| Note: HEPATOCLR CARC                         | TGLs = 4-23      |                                   |                      |
| Note: HEPATOCLR ADEN                         | TGLs = 3-22,5-24 |                                   |                      |
| Note: TWO HEPATOCELLULAR ADENOMAS ON SLIDE 6 |                  |                                   |                      |
| Lung   |                  | Alveolar/Bronchiolar Adenoma      |                      |
|  |                  | Alveolar/Bronchiolar Carcinoma    |                      |
|  |                  | Infiltration Cellular             | Histiocyte, Moderate |
| Note: ALV BRON CARC                          | TGLs = 2-21      |                                   |                      |
| Spleen                                       | Lymph Follic     | Hyperplasia                       | Moderate             |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                      |                              |                                 |                         |
|----------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 25 | <b>TRT#:</b> 1               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 736 |
|                      | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A86041149 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                   |            |           |             |                   |
|-------------------|------------|-----------|-------------|-------------------|
| Note: HYPERPLASIA | TGLs = 1-6 |           |             |                   |
| Stomach           |            | Glandular | Cyst        |                   |
| Tooth             |            |           | Dysplasia   | Moderate          |
| Urinary Bladder   |            |           | Hyperplasia | Lymphoid, Minimal |

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|                               |   |
|-------------------------------|---|
| <b>PRIMARY CAUSE OF DEATH</b> | - |
|-------------------------------|---|

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 26

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 98

**DOSE:** VEHICLE 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033816

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Heart  
Intestine Small - Duodenum  
Kidney  
Lymph Node - Mesenteric  
Pituitary Gland  
Skin  
Testes  
Urinary Bladder

Adrenal Gland - Medulla  
Epididymis  
Intestine Large - Cecum  
Intestine Small - Ileum  
Liver  
Nose  
Prostate  
Spleen  
Thymus

Bone  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lung  
Pancreas  
Salivary Glands  
Stomach - Forestomach  
Thyroid Gland

Bone Marrow  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mandibular  
Parathyroid Gland  
Seminal Vesicle  
Stomach - Glandular  
Trachea

**MISSING**

Mammary Gland

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 27

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 97

**DOSE:** VEHICLE 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033817

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Heart  
Intestine Small - Duodenum  
Kidney  
Lymph Node - Mesenteric  
Prostate  
Spleen  
Thymus

Adrenal Gland - Medulla  
Epididymis  
Intestine Large - Cecum  
Intestine Small - Ileum  
Liver  
Nose  
Salivary Glands  
Stomach - Forestomach  
Thyroid Gland

Bone  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lung  
Pancreas  
Seminal Vesicle  
Stomach - Glandular  
Trachea

Bone Marrow  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mandibular  
Parathyroid Gland  
Skin  
Testes  
Urinary Bladder

**MISSING**

Mammary Gland

Pituitary Gland

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 28

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 99

**DOSE:** VEHICLE 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033818

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Heart  
Intestine Small - Duodenum  
Kidney  
Lymph Node - Mesenteric  
Pituitary Gland  
Skin  
Testes  
Urinary Bladder

Adrenal Gland - Medulla  
Epididymis  
Intestine Large - Cecum  
Intestine Small - Ileum  
Liver  
Nose  
Prostate  
Spleen  
Thymus

Bone  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lung  
Pancreas  
Salivary Glands  
Stomach - Forestomach  
Thyroid Gland

Bone Marrow  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mandibular  
Parathyroid Gland  
Seminal Vesicle  
Stomach - Glandular  
Trachea

**MISSING**

Mammary Gland

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                      |                             |                                  |                         |
|----------------------|-----------------------------|----------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 29 | <b>TRT#:</b> 2              | <b>SEX:</b> Male                 | <b>DAY ON TEST:</b> 99  |
|                      | <b>DOSE:</b> VEHICLE 3 SSAC | <b>DISP:</b> Scheduled Sacrifice | <b>HISTO:</b> A85033819 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                           |                         |                            |                         |
|---------------------------|-------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla | Bone                       | Bone Marrow             |
| Brain                     | Epididymis              | Esophagus                  | Gallbladder             |
| Heart                     | Intestine Large - Cecum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic      | Kidney                     | Lung                    |
| Lymph Node - Mandibular   | Lymph Node - Mesenteric | Nose                       | Pancreas                |
| Parathyroid Gland         | Pituitary Gland         | Prostate                   | Salivary Glands         |
| Seminal Vesicle           | Skin                    | Spleen                     | Stomach - Forestomach   |
| Stomach - Glandular       | Testes                  | Thymus                     | Thyroid Gland           |
| Trachea                   | Urinary Bladder         |                            |                         |

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**MISSING**

|                         |                          |               |
|-------------------------|--------------------------|---------------|
| Intestine Large - Colon | Intestine Large - Rectum | Mammary Gland |
|-------------------------|--------------------------|---------------|

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**OBSERVATIONS**

|       |              |                |
|-------|--------------|----------------|
| Liver | Inflammation | Acute, Minimal |
|-------|--------------|----------------|

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 30

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 97

**DOSE:** VEHICLE 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033820

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Epididymis                | Esophagus                | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Kidney                     |
| Liver                   | Lung                      | Lymph Node - Mandibular  | Lymph Node - Mesenteric    |
| Nose                    | Pancreas                  | Pituitary Gland          | Prostate                   |
| Salivary Glands         | Seminal Vesicle           | Skin                     | Spleen                     |
| Stomach - Forestomach   | Stomach - Glandular       | Testes                   | Thymus                     |
| Thyroid Gland           | Trachea                   | Urinary Bladder          |                            |

**MISSING**

|             |               |
|-------------|---------------|
| Gallbladder | Mammary Gland |
|-------------|---------------|

**OBSERVATIONS**

|                   |      |
|-------------------|------|
| Parathyroid Gland | Cyst |
|-------------------|------|

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 31

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 457

**DOSE:** VEHICLE CONTROL

**DISP:** Scheduled Sacrifice

**HISTO:** A86037663

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lymph Node - Mandibular  | Lymph Node - Mesenteric    |
| Nose                    | Pancreas                  | Parathyroid Gland        | Pituitary Gland            |
| Prostate                | Salivary Glands           | Seminal Vesicle          | Skin                       |
| Spleen                  | Stomach - Forestomach     | Testes                   | Thyroid Gland              |
| Trachea                 | Urinary Bladder           |                          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                  |              |                                |                   |
|----------------------------------|--------------|--------------------------------|-------------------|
| Brain                            | Thalamus     | Mineralization                 | Minimal           |
| Islets, Pancreatic               |              | Hyperplasia                    | Moderate          |
| Kidney                           | Renal Tubule | Dilatation                     | Minimal           |
|                                  |              | Inflammation                   | Chronic, Minimal  |
|                                  |              | Metaplasia                     | Osseous, Minimal  |
|                                  |              | Mineralization                 | Mild              |
| Liver                            | Renal Tubule | Regeneration                   | Mild              |
|                                  | Hepatocyte   | Cytomegaly                     | Mild              |
|                                  |              | Hepatocellular Adenoma         |                   |
|                                  | Hepatocyte   | Karyomegaly                    | Mild              |
|                                  | Hepatocyte   | Vacuolization Cytoplasmic      | Moderate          |
| Note: HEPATOCLR ADEN TGLs = 3-22 |              |                                |                   |
| Lung                             |              | Alveolar/Bronchiolar Carcinoma |                   |
| Note: ALV BRON CARC TGLs = 2-2   |              |                                |                   |
| Stomach                          | Glandular    | Cyst                           |                   |
|                                  | Glandular    | Metaplasia                     | Squamous, Minimal |
| Thymus                           |              | Cyst                           |                   |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 32

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 455

**DOSE:** VEHICLE CONTROL

**DISP:** Scheduled Sacrifice

**HISTO:** A86037664

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Epididymis                | Esophagus                | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Nose                       | Pancreas                |
| Parathyroid Gland         | Pituitary Gland          | Prostate                   | Salivary Glands         |
| Seminal Vesicle           | Skin                     | Spleen                     | Stomach - Forestomach   |
| Stomach - Glandular       | Testes                   | Thymus                     | Thyroid Gland           |
| Trachea                   |                          |                            |                         |

**MISSING**

Mammary Gland

**INSUFFICIENT TISSUE**

Gallbladder

**OBSERVATIONS**

|   |              |                              |                         |
|---|--------------|------------------------------|-------------------------|
| Brain   | Thalamus     | Mineralization               | Moderate                |
| Islets, Pancreatic  |              | Hyperplasia                  | Moderate                |
| Kidney  |              | Casts Protein                | Minimal                 |
|   | Renal Tubule | Dilatation                   | Minimal                 |
|   |              | Inflammation                 | Chronic, Minimal        |
|   |              | Mineralization               | Mild                    |
| Liver   | Renal Tubule | Regeneration                 | Mild                    |
|   | Hepatocyte   | Cytomegaly                   | Mild                    |
|   |              | Inflammation                 | Chronic Active, Minimal |
|   | Hepatocyte   | Vacuolization Cytoplasmic    | Mild                    |
| Note: CELLS WITH CYTOMEGALY ARE WITH CYTOPLASMIC VACUOLIZATION. |              |                              |                         |
| Lung  |              | Alveolar/Bronchiolar Adenoma | Multiple, Two           |
| Note: ALV BRON ADEN TGLs = 1-2                                  |              |                              |                         |
| Lymph Node  | Mesenteric   | Hemorrhage                   | Minimal                 |
| Urinary Bladder   |              | Inflammation                 | Chronic, Minimal        |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                      |                              |                                  |                         |
|----------------------|------------------------------|----------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 33 | <b>TRT#:</b> 1               | <b>SEX:</b> Male                 | <b>DAY ON TEST:</b> 457 |
|                      | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Scheduled Sacrifice | <b>HISTO:</b> A86037665 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lymph Node - Mandibular  | Lymph Node - Mesenteric    |
| Nose                    | Pancreas                  | Parathyroid Gland        | Pituitary Gland            |
| Prostate                | Seminal Vesicle           | Skin                     | Stomach - Forestomach      |
| Stomach - Glandular     | Testes                    | Thyroid Gland            | Trachea                    |
| Urinary Bladder         |                           |                          |                            |

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**MISSING**

Mammary Gland

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**INSUFFICIENT TISSUE**

Thymus

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**OBSERVATIONS**

|                                  |              |                                  |                   |
|----------------------------------|--------------|----------------------------------|-------------------|
| Brain                            | Thalamus     | Mineralization                   | Mild              |
| Islets, Pancreatic               |              | Hyperplasia                      | Moderate          |
| Kidney                           |              | Casts Protein                    | Minimal           |
|                                  |              | Mineralization                   | Minimal           |
|                                  | Renal Tubule | Regeneration                     | Moderate          |
|                                  |              | Hepatocellular Carcinoma         |                   |
| Liver                            |              |                                  |                   |
| Note: HEPATOCLR CARC TGLs = 3-21 |              |                                  |                   |
| Lung                             | Artery       | Mineralization                   | Moderate          |
| Salivary Glands                  |              | Hyperplasia                      | Lymphoid, Minimal |
| Spleen                           |              | Hematopoietic Cell Proliferation | Mild              |
| Note: HEMA CELL PROL TGLs = 1-6  |              |                                  |                   |

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                      |                              |                                  |                         |
|----------------------|------------------------------|----------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 34 | <b>TRT#:</b> 1               | <b>SEX:</b> Male                 | <b>DAY ON TEST:</b> 455 |
|                      | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Scheduled Sacrifice | <b>HISTO:</b> A86037666 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lymph Node - Mandibular  | Lymph Node - Mesenteric    |
| Nose                    | Pancreas                  | Parathyroid Gland        | Pituitary Gland            |
| Prostate                | Salivary Glands           | Seminal Vesicle          | Skin                       |
| Spleen                  | Stomach - Forestomach     | Testes                   | Thymus                     |
| Thyroid Gland           | Trachea                   | Urinary Bladder          |                            |

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

|   |                |                                  |          |
|---|----------------|----------------------------------|----------|
| Brain   | Thalamus       | Mineralization                   | Mild     |
| Islets, Pancreatic  |                | Hyperplasia                      | Mild     |
| Kidney  | Renal Tubule   | Dilatation                       | Minimal  |
|   |                | Mineralization                   | Moderate |
|   | Renal Tubule   | Regeneration                     | Moderate |
| Liver   | Hepatocyte     | Cytomegaly                       | Mild     |
|   |                | Hematopoietic Cell Proliferation | Minimal  |
|   | Hepatocyte     | Vacuolization Cytoplasmic        | Mild     |
| Note: THE CYTOMEGALY INVOLVES THE VACUOLATED HEPATOCYTES. |                |                                  |          |
| Lung  | Alveolar Epith | Hyperplasia                      | Moderate |
| Stomach   | Glandular      | Cyst                             |          |

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 35

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** VEHICLE CONTROL

**DISP:** Scheduled Sacrifice

**HISTO:** A86037667

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex     | Adrenal Gland - Medulla | Bone                      | Bone Marrow              |
| Brain                      | Epididymis              | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Lung                     |
| Lymph Node - Mandibular    | Lymph Node - Mesenteric | Nose                      | Pancreas                 |
| Pituitary Gland            | Prostate                | Salivary Glands           | Seminal Vesicle          |
| Skin                       | Spleen                  | Testes                    | Thymus                   |
| Thyroid Gland              | Trachea                 | Urinary Bladder           |                          |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                   |              |                           |                  |
|-----------------------------------|--------------|---------------------------|------------------|
| Islets, Pancreatic                |              | Hyperplasia               | Moderate         |
| Kidney                            |              | Casts Protein             | Minimal          |
|                                   |              | Hydronephrosis            | Mild             |
|                                   |              | Mineralization            | Moderate         |
|                                   | Renal Tubule | Regeneration              | Mild             |
| Liver                             | Hepatocyte   | Cytomegaly                | Moderate         |
|                                   |              | Hepatocellular Carcinoma  |                  |
|                                   |              | Inflammation              | Chronic, Minimal |
|                                   | Hepatocyte   | Karyomegaly               | Mild             |
|                                   | Lobules      | Necrosis                  | Mild             |
|                                   | Hepatocyte   | Vacuolization Cytoplasmic | Moderate         |
| Note: HEPATOCLR CARC TGLs = 2-22  |              |                           |                  |
| Mesentery                         | Fat          | Necrosis                  | Marked           |
| Note: NECROSIS TGLs = 1-21        |              |                           |                  |
| Parathyroid Gland                 |              | Cyst                      |                  |
| Stomach                           | Glandular    | Cyst                      |                  |
|                                   | Forestomach  | Squamous Cell Papilloma   |                  |
| Note: PAPILLOMA SQUA TGLs = 3-4-1 |              |                           |                  |

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 35

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** VEHICLE CONTROL

**DISP:** Scheduled Sacrifice

**HISTO:** A86037667

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                      |                               |                                 |                         |
|----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 36 | <b>TRT#:</b> 5                | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 737 |
|                      | <b>DOSE:</b> 0.0200% CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042354 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      | Lung                    |
| Lymph Node - Mandibular   | Lymph Node - Mesenteric  | Nose                       | Pancreas                |
| Pituitary Gland           | Prostate                 | Salivary Glands            | Seminal Vesicle         |
| Skin                      | Spleen                   | Stomach - Forestomach      | Stomach - Glandular     |
| Trachea                   | Urinary Bladder          |                            |                         |

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**MISSING**

|               |                   |
|---------------|-------------------|
| Mammary Gland | Parathyroid Gland |
|---------------|-------------------|

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**OBSERVATIONS**

|               |                |                |                   |
|---------------|----------------|----------------|-------------------|
| Adrenal Gland | Cortex         | Hyperplasia    | Focal, Minimal    |
| Brain         | Thalamus       | Mineralization | Mild              |
| Kidney        |                | Hyperplasia    | Lymphoid, Minimal |
|               |                | Mineralization | Mild              |
|               | Renal Tubule   | Regeneration   | Mild              |
| Testes        | Seminif Tub    | Atrophy        | Mild              |
| Thymus        |                | Cyst           |                   |
| Thyroid Gland | Follicular Cel | Hyperplasia    | Minimal           |

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                      |                               |                                 |                         |
|----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 37 | <b>TRT#:</b> 5                | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 426 |
|                      | <b>DOSE:</b> 0.0200% CHLORAMI | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A86037729 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    |
| Lymph Node - Mesenteric | Nose                      | Pancreas                 | Parathyroid Gland          |
| Pituitary Gland         | Prostate                  | Seminal Vesicle          | Skin                       |
| Spleen                  | Stomach - Forestomach     | Stomach - Glandular      | Testes                     |
| Thyroid Gland           | Trachea                   | Urinary Bladder          |                            |

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

|  |              |                           |                |
|--|--------------|---------------------------|----------------|
| Brain  | Thalamus     | Mineralization            | Mild           |
| Islets, Pancreatic   |              | Hyperplasia               | Moderate       |
| Kidney   | Renal Tubule | Dilatation                | Minimal        |
|  | Renal Tubule | Regeneration              | Mild           |
| Liver  |              | Infarct                   | Moderate       |
|  | Lobules      | Necrosis                  | Moderate       |
|  | Hepatocyte   | Vacuolization Cytoplasmic | Moderate       |
| Note: [ INFARCT ] TGLs = 6,21                                |              |                           |                |
| Note: THE VACUOLIZATION IS MAINLY IN THE CENTRILOBULAR AREA. |              |                           |                |
| Salivary Glands  |              | Hyperplasia               | Lymphoid, Mild |
| Thymus   |              | Depletion Cellular        | Mild           |

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 38

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 726

**DOSE:** 0.0200% CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042355

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Nose                    |
| Pancreas                  | Prostate                 | Salivary Glands            | Seminal Vesicle         |
| Skin                      | Spleen                   | Stomach - Forestomach      | Testes                  |
| Trachea                   | Urinary Bladder          |                            |                         |

**MISSING**

|               |                   |
|---------------|-------------------|
| Mammary Gland | Parathyroid Gland |
|---------------|-------------------|

**INSUFFICIENT TISSUE**

Pituitary Gland

**OBSERVATIONS**

|                                 |                 |                                |                    |
|---------------------------------|-----------------|--------------------------------|--------------------|
| Adrenal Gland                   | Capsule, Cortex | Hyperplasia                    | Mild               |
| Brain                           | Thalamus        | Mineralization                 | Minimal            |
| Islets, Pancreatic              |                 | Hyperplasia                    | Moderate           |
| Kidney                          |                 | Mineralization                 | Moderate           |
|                                 | Renal Tubule    | Regeneration                   | Mild               |
| Liver                           |                 | Basophilic Focus               |                    |
|                                 |                 | Hyperplasia                    | Focal, Mild        |
| Note: HYPERPLASIA TGLs = 4-6    |                 |                                |                    |
| Lung                            |                 | Alveolar/Bronchiolar Carcinoma |                    |
|                                 |                 | Hyperplasia                    | Lymphoid, Mild     |
|                                 |                 | Infiltration Cellular          | Histiocyte, Marked |
| Note: INFILTRAT CELL TGLs = 3-2 |                 |                                |                    |
| Note: ALV BRON CARC TGLs = 2-2  |                 |                                |                    |
| Lymph Node                      | Mediastinal     | Hyperplasia                    | Lymphoid, Mild     |
|                                 | Mediastinal     | Hyperplasia                    | Plasma Cell, Mild  |
| Mesentery                       | Fat             | Necrosis                       | Moderate           |
| Note: NECROSIS TGLs = 1-21      |                 |                                |                    |
| Stomach                         | Glandular       | Cyst                           |                    |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                      |                               |                                 |                         |
|----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 38 | <b>TRT#:</b> 5                | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 726 |
|                      | <b>DOSE:</b> 0.0200% CHLORAMI | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87042355 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|               |                |                    |         |
|---------------|----------------|--------------------|---------|
| Thymus        |                | Depletion Cellular | Mild    |
| Thyroid Gland | Follicular Cel | Hyperplasia        | Minimal |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                      |                               |                                 |                         |
|----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 39 | <b>TRT#:</b> 5                | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 736 |
|                      | <b>DOSE:</b> 0.0200% CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042356 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                            |                         |                         |                          |
|----------------------------|-------------------------|-------------------------|--------------------------|
| Adrenal Gland - Medulla    | Bone                    | Bone Marrow             | Epididymis               |
| Esophagus                  | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Islets, Pancreatic      | Lung                     |
| Lymph Node - Mandibular    | Nose                    | Pancreas                | Parathyroid Gland        |
| Pituitary Gland            | Prostate                | Salivary Glands         | Seminal Vesicle          |
| Skin                       | Spleen                  | Stomach - Forestomach   | Stomach - Glandular      |
| Testes                     | Thymus                  | Thyroid Gland           | Trachea                  |
| Urinary Bladder            |                         |                         |                          |

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

|                                       |              |                          |                  |
|---------------------------------------|--------------|--------------------------|------------------|
| Adrenal Gland                         | Cortex       | Hyperplasia              | Focal, Minimal   |
| Brain                                 | Thalamus     | Mineralization           | Mild             |
| Gallbladder                           |              | Cyst                     |                  |
| Heart                                 | Myocardium   | Inflammation             | Chronic, Minimal |
| Intestine Small                       | Jejunum      | Lymphoma Malignant Mixed |                  |
| Note: LYMPH MAL MIXD TGLs = 4-23      |              |                          |                  |
| Kidney                                |              | Casts Protein            | Minimal          |
|                                       |              | Cyst                     |                  |
|                                       |              | Mineralization           | Moderate         |
|                                       | Renal Tubule | Regeneration             | Mild             |
| Liver                                 |              | Clear Cell Focus         |                  |
|                                       |              | Mixed Cell Focus         |                  |
| Note: CLEAR CL FOCUS TGLs = 1-21,2-22 |              |                          |                  |
| Lymph Node                            | Mesenteric   | Lymphoma Malignant Mixed |                  |
| Note: LYMPH MAL MIXD TGLs = 3-5       |              |                          |                  |

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                      |                               |                                 |                         |
|----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 40 | <b>TRT#:</b> 5                | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 736 |
|                      | <b>DOSE:</b> 0.0200% CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042357 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Liver                    | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Nose                     | Pancreas                   | Parathyroid Gland       |
| Pituitary Gland           | Seminal Vesicle          | Skin                       | Spleen                  |
| Stomach - Forestomach     | Stomach - Glandular      | Testes                     | Thymus                  |
| Trachea                   | Urinary Bladder          |                            |                         |

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

|                    |              |                |                      |
|--------------------|--------------|----------------|----------------------|
| Adrenal Gland      | Cortex       | Hyperplasia    | Focal, Minimal       |
| Brain              | Thalamus     | Mineralization | Moderate             |
| Harderian Gland    |              | Adenoma        |                      |
| Islets, Pancreatic |              | Hyperplasia    | Minimal              |
| Kidney             |              | Mineralization | Mild                 |
|                    | Renal Tubule | Regeneration   | Mild                 |
| Preputial Gland    |              | Ectasia        | Marked               |
|                    |              | Inflammation   | Chronic, Mild        |
| Note: ECTASIA      | TGLs = 1-8   |                |                      |
| Prostate           |              | Inflammation   | Suppurative, Minimal |
| Salivary Glands    |              | Hyperplasia    | Lymphoid, Minimal    |
| Thyroid Gland      |              | Degeneration   | Cystic, Minimal      |

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 41

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 625

**DOSE:** 0.0200% CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042358

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Brain                      |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mesenteric    |
| Nose                    | Pancreas                  | Parathyroid Gland        | Pituitary Gland            |
| Prostate                | Salivary Glands           | Seminal Vesicle          | Stomach - Glandular        |
| Testes                  | Thyroid Gland             | Trachea                  | Urinary Bladder            |

**MISSING**

|                         |               |
|-------------------------|---------------|
| Lymph Node - Mandibular | Mammary Gland |
|-------------------------|---------------|

**OBSERVATIONS**

|                                  |                     |                                  |          |
|----------------------------------|---------------------|----------------------------------|----------|
| Bone Marrow                      |                     | Hypercellularity                 | Marked   |
| Kidney                           |                     | Mineralization                   | Moderate |
|                                  | Renal Tubule        | Regeneration                     | Minimal  |
| Liver                            |                     | Hematopoietic Cell Proliferation | Marked   |
|                                  |                     | Hepatocellular Adenoma           |          |
| Note: HEPATOCLR ADEN TGLs = 4-22 |                     |                                  |          |
| Lung                             |                     | Alveolar/Bronchiolar Adenoma     |          |
| Skin                             | Subcut Tiss         | Fibrosarcoma                     |          |
| Note: FIBROSARC TGLs = 1-21      |                     |                                  |          |
| Spleen                           |                     | Hematopoietic Cell Proliferation | Marked   |
| Note: HEMA CELL PROL TGLs = 2-6  |                     |                                  |          |
| Stomach                          | Forestomach, Mucosa | Hyperplasia                      | Mild     |
| Thymus                           |                     | Depletion Cellular               | Mild     |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                      |                               |                                 |                         |
|----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 42 | <b>TRT#:</b> 5                | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 735 |
|                      | <b>DOSE:</b> 0.0200% CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042359 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      |
| Lung                    | Lymph Node - Mesenteric   | Nose                     | Pancreas                   |
| Parathyroid Gland       | Pituitary Gland           | Prostate                 | Seminal Vesicle            |
| Skin                    | Spleen                    | Stomach - Forestomach    | Stomach - Glandular        |
| Testes                  | Thymus                    | Trachea                  | Urinary Bladder            |

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**MISSING**

|                         |               |
|-------------------------|---------------|
| Lymph Node - Mandibular | Mammary Gland |
|-------------------------|---------------|

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**OBSERVATIONS**

|                 |              |                |                 |
|-----------------|--------------|----------------|-----------------|
| Brain           | Thalamus     | Mineralization | Minimal         |
| Kidney          |              | Mineralization | Moderate        |
|                 | Renal Tubule | Regeneration   | Mild            |
| Salivary Glands |              | Hyperplasia    | Lymphoid, Mild  |
| Thyroid Gland   |              | Degeneration   | Cystic, Minimal |

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                      |                               |                                 |                         |
|----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 43 | <b>TRT#:</b> 5                | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 735 |
|                      | <b>DOSE:</b> 0.0200% CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042360 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Nose                     | Pancreas                   | Parathyroid Gland       |
| Pituitary Gland           | Prostate                 | Salivary Glands            | Seminal Vesicle         |
| Skin                      | Spleen                   | Stomach - Forestomach      | Testes                  |
| Thymus                    | Thyroid Gland            | Trachea                    |                         |

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

|  |              |                          |                   |
|--|--------------|--------------------------|-------------------|
| Adrenal Gland  | Cortex       | Hyperplasia              | Focal, Mild       |
| Brain  | Thalamus     | Mineralization           | Mild              |
| Kidney   | Renal Tubule | Casts Protein            | Minimal           |
|  | Renal Tubule | Dilatation               | Mild              |
|  | Renal Tubule | Mineralization           | Mild              |
|  | Renal Tubule | Regeneration             | Mild              |
| Note: TUBULAR DILATATION IS NEAR JUNCTION OF CORTEX & MEDULLA. |              |                          |                   |
| Liver  |              | Hepatocellular Carcinoma |                   |
| Note: HEPATOCLR CARC TGLs = 1-21                               |              |                          |                   |
| Stomach  | Glandular    | Cyst                     |                   |
|  | Glandular    | Mineralization           | Minimal           |
| Urinary Bladder  |              | Hyperplasia              | Lymphoid, Minimal |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                      |                               |                                 |                         |
|----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 44 | <b>TRT#:</b> 5                | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 735 |
|                      | <b>DOSE:</b> 0.0200% CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042361 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Nose                     | Pancreas                   | Pituitary Gland         |
| Prostate                  | Salivary Glands          | Seminal Vesicle            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Stomach - Glandular        | Testes                  |
| Thymus                    | Trachea                  | Urinary Bladder            |                         |

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**MISSING**

|               |                   |               |
|---------------|-------------------|---------------|
| Mammary Gland | Parathyroid Gland | Thyroid Gland |
|---------------|-------------------|---------------|

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**OBSERVATIONS**

|               |              |                |                |
|---------------|--------------|----------------|----------------|
| Adrenal Gland | Cortex       | Hyperplasia    | Focal, Minimal |
| Brain         | Thalamus     | Mineralization | Moderate       |
| Kidney        | Renal Tubule | Dilatation     | Mild           |
|               |              | Mineralization | Moderate       |
|               | Renal Tubule | Regeneration   | Mild           |
| Lung          |              | Hyperplasia    | Lymphoid, Mild |

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                      |                               |                                 |                         |
|----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 45 | <b>TRT#:</b> 5                | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 735 |
|                      | <b>DOSE:</b> 0.0200% CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042362 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       |
| Lymph Node - Mandibular | Lymph Node - Mesenteric   | Nose                     | Pancreas                   |
| Parathyroid Gland       | Pituitary Gland           | Prostate                 | Salivary Glands            |
| Seminal Vesicle         | Skin                      | Stomach - Forestomach    | Stomach - Glandular        |
| Thymus                  | Thyroid Gland             | Trachea                  | Urinary Bladder            |

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

|                                  |              |                                  |         |
|----------------------------------|--------------|----------------------------------|---------|
| Brain                            | Thalamus     | Mineralization                   | Minimal |
| Kidney                           | Renal Tubule | Atrophy                          | Minimal |
|                                  |              | Mineralization                   | Mild    |
|                                  | Renal Tubule | Regeneration                     | Mild    |
| Liver                            |              | Hepatocellular Carcinoma         |         |
| Note: HEPATOCLR CARC TGLs = 1-21 |              |                                  |         |
| Spleen                           |              | Hematopoietic Cell Proliferation | Mild    |
| Testes                           | Seminif Tub  | Atrophy                          | Minimal |

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**PRIMARY CAUSE OF DEATH**

-

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Animal Note: GALLBLADDER IS ON SLIDE 21

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                      |                               |                                 |                         |
|----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 46 | <b>TRT#:</b> 5                | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 726 |
|                      | <b>DOSE:</b> 0.0200% CHLORAMI | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87042363 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|               |                |              |                 |
|---------------|----------------|--------------|-----------------|
| Thyroid Gland | Follicle       | Cyst         |                 |
|               | Follicular Cel | Degeneration | Cystic, Minimal |
|               |                | Hyperplasia  | Mild            |

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|                               |   |
|-------------------------------|---|
| <b>PRIMARY CAUSE OF DEATH</b> | - |
|-------------------------------|---|

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 47

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042364

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      |
| Lung                    | Lymph Node - Mandibular   | Lymph Node - Mesenteric  | Nose                       |
| Pancreas                | Parathyroid Gland         | Pituitary Gland          | Prostate                   |
| Spleen                  | Stomach - Forestomach     | Stomach - Glandular      | Testes                     |
| Thymus                  | Trachea                   | Urinary Bladder          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                  |              |                |                   |
|------------------|--------------|----------------|-------------------|
| Brain            | Thalamus     | Mineralization | Mild              |
| Kidney           |              | Casts Protein  | Minimal           |
|                  |              | Hyperplasia    | Lymphoid, Minimal |
|                  |              | Mineralization | Moderate          |
|                  | Renal Tubule | Regeneration   | Mild              |
| Salivary Glands  |              | Hyperplasia    | Lymphoid, Minimal |
| Seminal Vesicle  |              | Dilatation     | Moderate          |
| Note: DILATATION | TGLs = 2-7   |                |                   |
| Skin             |              | Acanthosis     | Minimal           |
| Note: ACANTHOSIS | TGLs = 1-21  |                |                   |
| Thyroid Gland    |              | Degeneration   | Cystic, Minimal   |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 48

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042365

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      | Lung                    |
| Lymph Node - Mandibular   | Nose                     | Pancreas                   | Parathyroid Gland       |
| Pituitary Gland           | Prostate                 | Salivary Glands            | Seminal Vesicle         |
| Skin                      | Spleen                   | Stomach - Forestomach      | Stomach - Glandular     |
| Testes                    | Thymus                   | Thyroid Gland              | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|               |                 |                |         |
|---------------|-----------------|----------------|---------|
| Adrenal Gland | Capsule, Cortex | Hyperplasia    | Mild    |
| Brain         | Thalamus        | Mineralization | Minimal |
| Kidney        | Renal Tubule    | Cyst           |         |
|               |                 | Dilatation     | Mild    |
|               |                 | Mineralization | Mild    |
|               | Renal Tubule    | Regeneration   | Mild    |
| Lymph Node    | Mesenteric      | Hemorrhage     | Mild    |
| Mesentery     | Fat             | Necrosis       | Mild    |

Note: NECROSIS TGLs = 1-21

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

|                      |                               |                                 |                         |
|----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 49 | <b>TRT#:</b> 5                | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 735 |
|                      | <b>DOSE:</b> 0.0200% CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042366 |

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       |
| Lymph Node - Mandibular | Nose                      | Parathyroid Gland        | Pituitary Gland            |
| Prostate                | Salivary Glands           | Seminal Vesicle          | Skin                       |
| Stomach - Forestomach   | Testes                    | Thymus                   | Thyroid Gland              |
| Trachea                 | Urinary Bladder           |                          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                      |              |                                  |          |
|----------------------|--------------|----------------------------------|----------|
| Brain                | Thalamus     | Mineralization                   | Moderate |
| Kidney               |              | Casts Protein                    | Minimal  |
|                      |              | Cyst                             |          |
|                      |              | Mineralization                   | Minimal  |
| Liver                | Renal Tubule | Regeneration                     | Mild     |
|                      |              | Basophilic Focus                 |          |
|                      |              | Hepatocellular Carcinoma         |          |
|                      | Lobules      | Necrosis                         | Mild     |
| Note: HEPATOCLR CARC | TGLs = 2-21  |                                  |          |
| Note: BASOPH FOCUS   | TGLs = 3-22  |                                  |          |
| Lymph Node           | Mesenteric   | Hemorrhage                       | Minimal  |
| Pancreas             |              | Cytoplasmic Alteration           | Mild     |
| Spleen               |              | Hematopoietic Cell Proliferation | Minimal  |
| Stomach              | Glandular    | Cyst                             |          |
|                      | Glandular    | Mineralization                   | Minimal  |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                      |                               |                                 |                         |
|----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 50 | <b>TRT#:</b> 5                | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 735 |
|                      | <b>DOSE:</b> 0.0200% CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042367 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Epididymis                | Esophagus                | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    | Nose                    |
| Pancreas                  | Parathyroid Gland        | Pituitary Gland            | Prostate                |
| Skin                      | Spleen                   | Stomach - Forestomach      | Stomach - Glandular     |
| Testes                    | Thymus                   | Thyroid Gland              | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

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**MISSING**

Mammary Gland

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**INSUFFICIENT TISSUE**

Gallbladder

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**OBSERVATIONS**

|                                  |              |                           |                   |
|----------------------------------|--------------|---------------------------|-------------------|
| Brain                            | Thalamus     | Mineralization            | Mild              |
| Islets, Pancreatic               |              | Hyperplasia               | Minimal           |
| Kidney                           | Renal Tubule | Atrophy                   | Minimal           |
|                                  |              | Mineralization            | Moderate          |
|                                  | Renal Tubule | Regeneration              | Mild              |
| Liver                            |              | Hepatocellular Adenoma    |                   |
|                                  | Hepatocyte   | Vacuolization Cytoplasmic | Mild              |
| Note: HEPATOCLR ADEN TGLs = 2-21 |              |                           |                   |
| Lymph Node                       | Mesenteric   | Hemorrhage                | Mild              |
| Salivary Glands                  |              | Hyperplasia               | Lymphoid, Minimal |
| Seminal Vesicle                  |              | Dilatation                | Moderate          |
| Note: DILATATION TGLs = 1-7      |              |                           |                   |

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                      |                               |                                 |                         |
|----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 51 | <b>TRT#:</b> 5                | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 735 |
|                      | <b>DOSE:</b> 0.0200% CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042368 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Medulla | Bone                      | Bone Marrow              | Epididymis                 |
| Esophagus               | Gallbladder               | Harderian Gland          | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      |
| Lung                    | Lymph Node - Mandibular   | Lymph Node - Mesenteric  | Nose                       |
| Pancreas                | Parathyroid Gland         | Pituitary Gland          | Prostate                   |
| Salivary Glands         | Seminal Vesicle           | Skin                     | Spleen                     |
| Stomach - Forestomach   | Stomach - Glandular       | Testes                   | Thymus                     |
| Trachea                 | Urinary Bladder           |                          |                            |

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

|               |                |                  |                 |
|---------------|----------------|------------------|-----------------|
| Adrenal Gland | Cortex         | Basophilic Focus |                 |
| Brain         | Thalamus       | Mineralization   | Mild            |
| Kidney        |                | Mineralization   | Minimal         |
|               | Renal Tubule   | Regeneration     | Minimal         |
| Thyroid Gland | Follicular Cel | Adenoma          |                 |
|               |                | Degeneration     | Cystic, Minimal |

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Note: ADENOMA TGLs = 1-3

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 52

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042369

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Nose                    |
| Pancreas                  | Parathyroid Gland        | Pituitary Gland            | Prostate                |
| Salivary Glands           | Seminal Vesicle          | Skin                       | Spleen                  |
| Stomach - Forestomach     | Stomach - Glandular      | Testes                     | Thymus                  |
| Trachea                   | Urinary Bladder          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                  |              |                                |                  |
|----------------------------------|--------------|--------------------------------|------------------|
| Brain                            | Thalamus     | Mineralization                 | Minimal          |
| Epididymis                       |              | Granuloma Sperm                | Mild             |
|                                  |              | Inflammation                   | Chronic, Mild    |
| Islets, Pancreatic               |              | Hyperplasia                    | Mild             |
| Kidney                           | Renal Tubule | Atrophy                        | Moderate         |
|                                  | Renal Tubule | Dilatation                     | Mild             |
|                                  | Renal Tubule | Mineralization                 | Moderate         |
|                                  |              | Regeneration                   | Moderate         |
| Note: REGENERATION TGLs = 3-5    |              |                                |                  |
| Note: ATROPHY TGLs = 3-5         |              |                                |                  |
| Liver                            |              | Hepatocellular Adenoma         |                  |
| Note: HEPATOCLR ADEN TGLs = 5-22 |              |                                |                  |
| Lung                             |              | Alveolar/Bronchiolar Carcinoma |                  |
|                                  |              | Infiltration Cellular          | Histiocyte, Mild |
| Note: ALV BRON CARC TGLs = 4-2   |              |                                |                  |
| Mesentery                        | Fat          | Necrosis                       | Moderate         |
| Note: NECROSIS TGLs = 1-21       |              |                                |                  |
| Thyroid Gland                    |              | Degeneration                   | Cystic, Minimal  |

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 52

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042369

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: BRONCHIOLAR CARCINOMA

Animal Note: STRUCTURE IN MEDIASTINUM RESEMBLING METASTATIC ALVEOLAR

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 53

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042370

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       |
| Lymph Node - Mandibular | Nose                      | Pancreas                 | Parathyroid Gland          |
| Pituitary Gland         | Prostate                  | Salivary Glands          | Skin                       |
| Spleen                  | Stomach - Forestomach     | Stomach - Glandular      | Testes                     |
| Thyroid Gland           | Trachea                   | Urinary Bladder          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|  |              |                          |                |
|--|--------------|--------------------------|----------------|
| Brain  | Thalamus     | Mineralization           | Mild           |
| Kidney                                       | Renal Tubule | Dilatation               | Minimal        |
|  |              | Hyperplasia              | Lymphoid, Mild |
|  |              | Mineralization           | Moderate       |
|  | Renal Tubule | Regeneration             | Minimal        |
| Liver  |              | Hepatocellular Adenoma   | Multiple, Two  |
|  |              | Hepatocellular Carcinoma |                |
|  | Kupffer Cell | Hyperplasia              | Moderate       |
|  | Kupffer Cell | Pigmentation             | Moderate       |
| Note: HEPATOCLR ADEN TGLs = 3-21             |              |                          |                |
| Note: HEPATOCLR CARC TGLs = 3-21             |              |                          |                |
| Note: HEPATOCELLULAR ADENOMA ALSO ON SLIDE 6 |              |                          |                |
| Lymph Node                                   | Mesenteric   | Hemorrhage               | Minimal        |
| Preputial Gland                              |              | Ectasia                  | Moderate       |
| Note: ECTASIA TGLs = 1-8                     |              |                          |                |
| Seminal Vesicle                              |              | Dilatation               | Moderate       |
| Note: DILATATION TGLs = 2-7                  |              |                          |                |
| Thymus                                       |              | Cyst                     |                |

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 53

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042370

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                      |                               |                                 |                         |
|----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 54 | <b>TRT#:</b> 5                | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 734 |
|                      | <b>DOSE:</b> 0.0200% CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042371 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Liver                    | Lymph Node - Mandibular    |
| Lymph Node - Mesenteric | Nose                      | Pancreas                 | Parathyroid Gland          |
| Pituitary Gland         | Prostate                  | Salivary Glands          | Seminal Vesicle            |
| Skin                    | Spleen                    | Stomach - Forestomach    | Stomach - Glandular        |
| Testes                  | Thymus                    | Trachea                  |                            |

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

|                                |                |                |                   |
|--------------------------------|----------------|----------------|-------------------|
| Brain                          | Thalamus       | Mineralization | Minimal           |
| Islets, Pancreatic             |                | Hyperplasia    | Minimal           |
| Kidney                         |                | Hyperplasia    | Lymphoid, Mild    |
|                                |                | Mineralization | Mild              |
|                                | Renal Tubule   | Regeneration   | Mild              |
| Lung                           | Alveolar Epith | Hyperplasia    | Moderate          |
| Note: [ HYPERPLASIA ] TGLs = 2 |                |                |                   |
| Thyroid Gland                  |                | Degeneration   | Cystic, Minimal   |
| Urinary Bladder                |                | Hyperplasia    | Lymphoid, Minimal |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                      |                               |                                 |                         |
|----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 55 | <b>TRT#:</b> 5                | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 734 |
|                      | <b>DOSE:</b> 0.0200% CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042372 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Epididymis                | Esophagus                | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       |
| Lymph Node - Mandibular | Lymph Node - Mesenteric   | Nose                     | Pancreas                   |
| Parathyroid Gland       | Pituitary Gland           | Prostate                 | Salivary Glands            |
| Seminal Vesicle         | Skin                      | Spleen                   | Stomach - Forestomach      |
| Stomach - Glandular     | Testes                    | Thymus                   | Thyroid Gland              |
| Trachea                 | Urinary Bladder           |                          |                            |

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

|                                  |              |                          |          |
|----------------------------------|--------------|--------------------------|----------|
| Gallbladder                      |              | Dilatation               | Moderate |
| Kidney                           |              | Casts Protein            | Minimal  |
|                                  |              | Cyst                     |          |
|                                  |              | Mineralization           | Mild     |
|                                  | Renal Tubule | Regeneration             | Mild     |
| Liver                            |              | Hepatocellular Carcinoma |          |
|                                  |              | Mixed Cell Focus         |          |
| Note: HEPATOCLR CARC TGLs = 2-21 |              |                          |          |
| Note: MIXED CL FOCUS TGLs = 3-22 |              |                          |          |
| Preputial Gland                  |              | Ectasia                  | Moderate |
| Note: ECTASIA TGLs = 1-8         |              |                          |          |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 56      **TRT#:** 5      **SEX:** Male      **DAY ON TEST:** 443  
**DOSE:** 0.0200% CHLORAMI      **DISP:** Natural Death      **HISTO:** A86037730

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                         |                          |                         |
|-------------------------|-------------------------|--------------------------|-------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla | Bone                     | Bone Marrow             |
| Epididymis              | Esophagus               | Gallbladder              | Heart                   |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Ileum |
| Islets, Pancreatic      | Lung                    | Lymph Node - Mandibular  | Lymph Node - Mesenteric |
| Pancreas                | Parathyroid Gland       | Pituitary Gland          | Prostate                |
| Salivary Glands         | Seminal Vesicle         | Skin                     | Spleen                  |
| Stomach - Forestomach   | Stomach - Glandular     | Testes                   | Thyroid Gland           |
| Trachea                 | Urinary Bladder         |                          |                         |

**MISSING**

Mammary Gland

**AUTO PRECLUDES DIAG.**

Intestine Small - Duodenum      Intestine Small - Jejunum

**OBSERVATIONS**

|                                    |               |                          |         |
|------------------------------------|---------------|--------------------------|---------|
| Brain                              | Thalamus      | Mineralization           | Minimal |
| Kidney                             |               | Casts Protein            | Minimal |
|                                    | Renal Tubule  | Dilatation               | Minimal |
|                                    | Renal Tubule  | Necrosis                 | Minimal |
|                                    | Renal Tubule  | Regeneration             | Mild    |
| Liver                              |               | Hepatocellular Adenoma   |         |
|                                    |               | Hepatocellular Carcinoma |         |
|                                    | Centrilobular | Necrosis                 | Marked  |
| Note: [ HEPATOCLR ADEN ] TGLs = 22 |               |                          |         |
| Note: NECROSIS TGLs = 2-6          |               |                          |         |
| Note: [ HEPATOCLR CARC ] TGLs = 21 |               |                          |         |
| Nose                               |               | Exudate                  |         |
| Thymus                             |               | Depletion Cellular       | Mild    |

PRIMARY CAUSE OF DEATH      -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 57

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 727

**DOSE:** 0.0200% CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042373

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Epididymis                |
| Esophagus                | Gallbladder                | Heart                   | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular | Pancreas                  |
| Parathyroid Gland        | Pituitary Gland            | Prostate                | Salivary Glands           |
| Seminal Vesicle          | Skin                       | Stomach - Forestomach   | Stomach - Glandular       |
| Testes                   | Thyroid Gland              | Trachea                 | Urinary Bladder           |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                  |              |                                  |                    |
|----------------------------------|--------------|----------------------------------|--------------------|
| Adrenal Gland                    | Cortex       | Clear Cell Focus                 |                    |
| Brain                            | Thalamus     | Mineralization                   | Mild               |
| Intestine Large                  | Cecum        | Hyperplasia                      | Lymphoid, Moderate |
| Kidney                           | Renal Tubule | Cyst                             |                    |
|                                  |              | Dilatation                       | Mild               |
|                                  |              | Mineralization                   | Moderate           |
| Liver                            | Renal Tubule | Regeneration                     | Mild               |
|                                  | Kupffer Cell | Hyperplasia                      | Mild               |
|                                  |              | Inflammation                     | Chronic, Mild      |
| Lymph Node                       | Mesenteric   | Lymphoma Malignant Mixed         |                    |
| Note: LYMPH MAL MIXD TGLs = 1-21 |              |                                  |                    |
| Nose                             | Glands       | Exudate                          |                    |
|                                  |              | Hyperplasia                      | Cystic, Mild       |
| Spleen                           |              | Hematopoietic Cell Proliferation | Minimal            |
| Thymus                           |              | Cyst                             |                    |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                      |                               |                                 |                         |
|----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 58 | <b>TRT#:</b> 5                | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 734 |
|                      | <b>DOSE:</b> 0.0200% CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042374 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Bone                     | Bone Marrow                | Epididymis              | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Liver                      | Lung                    | Lymph Node - Mandibular   |
| Lymph Node - Mesenteric  | Nose                       | Pancreas                | Parathyroid Gland         |
| Prostate                 | Seminal Vesicle            | Skin                    | Spleen                    |
| Stomach - Forestomach    | Stomach - Glandular        | Testes                  | Thymus                    |
| Trachea                  |                            |                         |                           |

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

|                 |                |                         |                   |
|-----------------|----------------|-------------------------|-------------------|
| Adrenal Gland   | Cortex         | Basophilic Focus        |                   |
|                 | Medulla        | Pheochromocytoma Benign |                   |
| Brain           | Thalamus       | Mineralization          | Minimal           |
| Kidney          | Renal Tubule   | Atrophy                 | Minimal           |
|                 |                | Casts Protein           | Minimal           |
|                 |                | Cyst                    |                   |
|                 |                | Mineralization          | Moderate          |
|                 | Renal Tubule   | Regeneration            | Mild              |
| Pituitary Gland | Pars Distalis  | Cyst                    |                   |
| Salivary Glands |                | Hyperplasia             | Lymphoid, Minimal |
| Thyroid Gland   | Follicular Cel | Adenoma                 |                   |
| Urinary Bladder |                | Hyperplasia             | Lymphoid, Mild    |

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 59      **TRT#:** 5      **SEX:** Male      **DAY ON TEST:** 666  
**DOSE:** 0.0200% CHLORAMI      **DISP:** Natural Death      **HISTO:** A87042375

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                         |                          |
|----------------------------|-------------------------|-------------------------|--------------------------|
| Adrenal Gland - Cortex     | Adrenal Gland - Medulla | Bone                    | Bone Marrow              |
| Brain                      | Epididymis              | Esophagus               | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Lymph Node - Mandibular | Lymph Node - Mesenteric | Nose                     |
| Pancreas                   | Parathyroid Gland       | Pituitary Gland         | Prostate                 |
| Salivary Glands            | Skin                    | Spleen                  | Stomach - Forestomach    |
| Stomach - Glandular        | Testes                  | Thymus                  | Trachea                  |
| Urinary Bladder            |                         |                         |                          |

**MISSING**

Mammary Gland

**AUTO PRECLUDES DIAG.**

Intestine Small - Ileum      Intestine Small - Jejunum

**OBSERVATIONS**

|  |              |                              |                  |
|--|--------------|------------------------------|------------------|
| Islets, Pancreatic                         |              | Hyperplasia                  | Moderate         |
| Kidney                                     |              | Mineralization               | Mild             |
|  | Renal Tubule | Regeneration                 | Minimal          |
| Liver                                      |              | Hepatocellular Adenoma       | Multiple, Three  |
|  |              | Mixed Cell Focus             |                  |
| Note: MIXED CL FOCUS    TGLs = 2-21        |              |                              |                  |
| Note: [ HEPATOCLR ADEN ]    TGLs = 6,21,22 |              |                              |                  |
| Lung                                       |              | Alveolar/Bronchiolar Adenoma |                  |
|  |              | Infiltration Cellular        | Histiocyte, Mild |
| [ Infiltration Cellular TGLS = 4-2 ]       |              |                              |                  |
| Seminal Vesicle                            |              | Dilatation                   | Moderate         |
| Note: DILATATION    TGLs = 1-7             |              |                              |                  |
| Thyroid Gland                              |              | Degeneration                 | Cystic, Minimal  |

**PRIMARY CAUSE OF DEATH**      -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 60

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042376

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                         |                          |                            |
|-------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus               | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Islets, Pancreatic      | Lymph Node - Mandibular  | Nose                       |
| Pancreas                | Parathyroid Gland       | Pituitary Gland          | Prostate                   |
| Salivary Glands         | Seminal Vesicle         | Skin                     | Stomach - Forestomach      |
| Stomach - Glandular     | Testes                  | Thymus                   | Thyroid Gland              |
| Trachea                 | Urinary Bladder         |                          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                  |              |                                  |                      |
|----------------------------------|--------------|----------------------------------|----------------------|
| Brain                            | Thalamus     | Mineralization                   | Minimal              |
| Intestine Small                  | Jejunum      | Carcinoma                        |                      |
| Note: CARCINOMA TGLs = 4-23      |              |                                  |                      |
| Kidney                           | Renal Tubule | Adenoma                          |                      |
|                                  | Renal Tubule | Atrophy                          | Moderate             |
|                                  |              | Cyst                             |                      |
|                                  | Renal Tubule | Dilatation                       | Mild                 |
|                                  |              | Mineralization                   | Moderate             |
| Note: ATROPHY TGLs = 1-21        | Renal Tubule | Regeneration                     | Mild                 |
| Note: ADENOMA TGLs = 2-22        |              |                                  |                      |
| Liver                            |              | Hepatocellular Adenoma           |                      |
| Note: HEPATOCLR ADEN TGLs = 5-24 |              |                                  |                      |
| Lung                             |              | Alveolar/Bronchiolar Carcinoma   |                      |
|                                  |              | Infiltration Cellular            | Histiocyte, Moderate |
| Note: ALV BRON CARC TGLs = 6-2   |              |                                  |                      |
| Lymph Node                       | Mesenteric   | Hematopoietic Cell Proliferation | Mild                 |
| Note: HEMA CELL PROL TGLs = 3-5  |              |                                  |                      |
| Spleen                           |              | Hematopoietic Cell Proliferation | Mild                 |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 60

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042376

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 61

**TRT#:** 6

**SEX:** Male

**DAY ON TEST:** 97

**DOSE:** 0.0200% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033821

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Heart  
Intestine Small - Duodenum  
Kidney  
Lymph Node - Mesenteric  
Pituitary Gland  
Skin  
Testes  
Urinary Bladder

Adrenal Gland - Medulla  
Epididymis  
Intestine Large - Cecum  
Intestine Small - Ileum  
Liver  
Nose  
Prostate  
Spleen  
Thymus

Bone  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lung  
Pancreas  
Salivary Glands  
Stomach - Forestomach  
Thyroid Gland

Bone Marrow  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mandibular  
Parathyroid Gland  
Seminal Vesicle  
Stomach - Glandular  
Trachea

**MISSING**

Mammary Gland

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 62

**TRT#:** 6

**SEX:** Male

**DAY ON TEST:** 99

**DOSE:** 0.0200% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033822

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Heart  
Intestine Small - Duodenum  
Kidney  
Lymph Node - Mesenteric  
Pituitary Gland  
Skin  
Testes  
Urinary Bladder

Adrenal Gland - Medulla  
Epididymis  
Intestine Large - Cecum  
Intestine Small - Ileum  
Liver  
Nose  
Prostate  
Spleen  
Thymus

Bone  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lung  
Pancreas  
Salivary Glands  
Stomach - Forestomach  
Thyroid Gland

Bone Marrow  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mandibular  
Parathyroid Gland  
Seminal Vesicle  
Stomach - Glandular  
Trachea

**MISSING**

Mammary Gland

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 63

**TRT#:** 6

**SEX:** Male

**DAY ON TEST:** 99

**DOSE:** 0.0200% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033823

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Heart  
Intestine Small - Duodenum  
Kidney  
Lymph Node - Mesenteric  
Pituitary Gland  
Spleen  
Thymus

Adrenal Gland - Medulla  
Epididymis  
Intestine Large - Cecum  
Intestine Small - Ileum  
Liver  
Nose  
Prostate  
Stomach - Forestomach  
Thyroid Gland

Bone  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lung  
Pancreas  
Salivary Glands  
Stomach - Glandular  
Trachea

Bone Marrow  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mandibular  
Parathyroid Gland  
Skin  
Testes  
Urinary Bladder

**MISSING**

Mammary Gland

**OBSERVATIONS**

Seminal Vesicle

Inflammation

Chronic, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 64

**TRT#:** 6

**SEX:** Male

**DAY ON TEST:** 97

**DOSE:** 0.0200% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033824

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Heart  
Intestine Small - Duodenum  
Kidney  
Lymph Node - Mesenteric  
Pituitary Gland  
Skin  
Testes  
Urinary Bladder

Adrenal Gland - Medulla  
Epididymis  
Intestine Large - Cecum  
Intestine Small - Ileum  
Liver  
Nose  
Prostate  
Spleen  
Thymus

Bone  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lung  
Pancreas  
Salivary Glands  
Stomach - Forestomach  
Thyroid Gland

Bone Marrow  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mandibular  
Parathyroid Gland  
Seminal Vesicle  
Stomach - Glandular  
Trachea

**MISSING**

Mammary Gland

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 65

**TRT#:** 6

**SEX:** Male

**DAY ON TEST:** 98

**DOSE:** 0.0200% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033825

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex     | Adrenal Gland - Medulla | Bone                      | Bone Marrow              |
| Brain                      | Epididymis              | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Liver                      | Lung                    | Lymph Node - Mesenteric   | Nose                     |
| Pancreas                   | Parathyroid Gland       | Pituitary Gland           | Prostate                 |
| Salivary Glands            | Seminal Vesicle         | Skin                      | Spleen                   |
| Stomach - Forestomach      | Stomach - Glandular     | Testes                    | Thymus                   |
| Trachea                    | Urinary Bladder         |                           |                          |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                  |              |                |         |
|------------------|--------------|----------------|---------|
| Kidney           | Renal Tubule | Regeneration   | Minimal |
| Lymph Node       | Mandibular   | Hemorrhage     | Mild    |
| Note: HEMORRHAGE | TGLs = 1-5   |                |         |
| Thyroid Gland    | Follicle     | Cyst           |         |
|                  |              | Ectopic Thymus |         |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                      |                               |                                  |                         |
|----------------------|-------------------------------|----------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 66 | <b>TRT#:</b> 5                | <b>SEX:</b> Male                 | <b>DAY ON TEST:</b> 456 |
|                      | <b>DOSE:</b> 0.0200% CHLORAMI | <b>DISP:</b> Scheduled Sacrifice | <b>HISTO:</b> A86037732 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       |
| Lymph Node - Mandibular | Lymph Node - Mesenteric   | Nose                     | Parathyroid Gland          |
| Pituitary Gland         | Prostate                  | Seminal Vesicle          | Skin                       |
| Spleen                  | Stomach - Forestomach     | Stomach - Glandular      | Testes                     |
| Thymus                  | Thyroid Gland             | Trachea                  | Urinary Bladder            |

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

|  |              |                           |                   |
|--|--------------|---------------------------|-------------------|
| Brain  | Thalamus     | Mineralization            | Minimal           |
| Kidney   | Renal Tubule | Dilatation                | Minimal           |
|  |              | Mineralization            | Moderate          |
|  | Renal Tubule | Regeneration              | Minimal           |
| Liver  | Hepatocyte   | Cytomegaly                | Mild              |
|  | Hepatocyte   | Vacuolization Cytoplasmic | Mild              |
| Note: ENLARGED HEPATOCYTES ARE WITH CYTOPLASMIC VACUOLIZATION.     |              |                           |                   |
| Pancreas   | Acinar Cell  | Dysplasia                 | Focal, Mild       |
|  |              | Inflammation              | Chronic, Minimal  |
| Note: DYSPLASIA CONSISTS OF KARYOMEGALY & LOSS OF NORMAL STAINING. |              |                           |                   |
| Salivary Glands  |              | Hyperplasia               | Lymphoid, Minimal |

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 67

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 455

**DOSE:** 0.0200% CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** A86037733

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    |
| Lymph Node - Mesenteric | Nose                      | Pancreas                 | Pituitary Gland            |
| Prostate                | Seminal Vesicle           | Skin                     | Spleen                     |
| Stomach - Forestomach   | Stomach - Glandular       | Testes                   | Thymus                     |
| Thyroid Gland           | Trachea                   |                          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|  |              |                           |                    |
|--|--------------|---------------------------|--------------------|
| Brain  | Thalamus     | Mineralization            | Minimal            |
| Islets, Pancreatic   |              | Hyperplasia               | Mild               |
| Kidney   | Renal Tubule | Dilatation                | Mild               |
|  |              | Inflammation              | Chronic, Minimal   |
|  |              | Mineralization            | Mild               |
|  | Renal Tubule | Regeneration              | Mild               |
| Liver  | Hepatocyte   | Cytomegaly                | Mild               |
|  | Hepatocyte   | Vacuolization Cytoplasmic | Mild               |
| Note: ENLARGED HEPATOCYTES ARE WITH CYTOPLASMIC VACUOLIZATION. |              |                           |                    |
| Mesentery  | Fat          | Necrosis                  | Mild               |
| Note: NECROSIS TGLs = 1-21                                     |              |                           |                    |
| Parathyroid Gland  |              | Cyst                      |                    |
| Salivary Glands  |              | Hyperplasia               | Lymphoid, Moderate |
| Urinary Bladder  |              | Inflammation              | Chronic, Minimal   |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                      |                               |                            |                         |
|----------------------|-------------------------------|----------------------------|-------------------------|
| <b>ANIMAL ID:</b> 68 | <b>TRT#:</b> 5                | <b>SEX:</b> Male           | <b>DAY ON TEST:</b> 353 |
|                      | <b>DOSE:</b> 0.0200% CHLORAMI | <b>DISP:</b> Natural Death | <b>HISTO:</b> A86037731 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                        |                         |                         |                          |
|------------------------|-------------------------|-------------------------|--------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone                    | Bone Marrow              |
| Brain                  | Epididymis              | Esophagus               | Gallbladder              |
| Heart                  | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Islets, Pancreatic     | Lymph Node - Mandibular | Lymph Node - Mesenteric | Nose                     |
| Pancreas               | Parathyroid Gland       | Pituitary Gland         | Prostate                 |
| Salivary Glands        | Seminal Vesicle         | Skin                    | Stomach - Forestomach    |
| Stomach - Glandular    | Testes                  | Thymus                  | Thyroid Gland            |
| Trachea                | Urinary Bladder         |                         |                          |

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**MISSING**

|                            |                         |               |
|----------------------------|-------------------------|---------------|
| Intestine Small - Duodenum | Intestine Small - Ileum | Mammary Gland |
|----------------------------|-------------------------|---------------|

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**AUTO PRECLUDES DIAG.**

Intestine Small - Jejunum

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**OBSERVATIONS**

|   |              |                        |               |
|---|--------------|------------------------|---------------|
| Kidney                                  | Renal Tubule | Dilatation             | Minimal       |
| Liver                                   |              | Hepatocellular Adenoma |               |
| Note: [ HEPATOCLR ADEN ] TGLs = 21      |              |                        |               |
| Lung                                    |              | Congestion             | Moderate      |
|   |              | Inflammation           | Chronic, Mild |
| Note: THE INFLAMMATION IS PERIVASCULAR. |              |                        |               |
| Spleen                                  |              | Congestion             | Moderate      |

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 69

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0.0200% CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** A86037734

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       |
| Lymph Node - Mandibular | Lymph Node - Mesenteric   | Nose                     | Pancreas                   |
| Pituitary Gland         | Prostate                  | Salivary Glands          | Seminal Vesicle            |
| Skin                    | Spleen                    | Stomach - Forestomach    | Stomach - Glandular        |
| Testes                  | Thyroid Gland             | Trachea                  | Urinary Bladder            |

**MISSING**

|               |        |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

**OBSERVATIONS**

|                                  |              |                           |                         |
|----------------------------------|--------------|---------------------------|-------------------------|
| Brain                            | Thalamus     | Mineralization            | Mild                    |
| Kidney                           | Renal Tubule | Dilatation                | Mild                    |
|                                  |              | Inflammation              | Chronic, Minimal        |
|                                  |              | Mineralization            | Mild                    |
| Liver                            | Renal Tubule | Regeneration              | Mild                    |
|                                  | Hepatocyte   | Cytomegaly                | Moderate                |
|                                  |              | Hepatocellular Adenoma    |                         |
|                                  |              | Inflammation              | Chronic Active, Minimal |
|                                  | Hepatocyte   | Vacuolization Cytoplasmic | Moderate                |
| Note: HEPATOCLR ADEN TGLs = 1-21 |              |                           |                         |
| Parathyroid Gland                |              | Cyst                      |                         |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 70

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 455

**DOSE:** 0.0200% CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** A86037735

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Epididymis                | Esophagus                | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mesenteric  | Nose                       | Pancreas                |
| Parathyroid Gland         | Pituitary Gland          | Prostate                   | Salivary Glands         |
| Seminal Vesicle           | Skin                     | Spleen                     | Stomach - Forestomach   |
| Testes                    | Thymus                   | Thyroid Gland              | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**MISSING**

|             |                         |               |
|-------------|-------------------------|---------------|
| Gallbladder | Lymph Node - Mandibular | Mammary Gland |
|-------------|-------------------------|---------------|

**OBSERVATIONS**

|  |              |                              |                  |
|--|--------------|------------------------------|------------------|
| Brain  | Thalamus     | Mineralization               | Mild             |
| Islets, Pancreatic   |              | Hyperplasia                  | Mild             |
| Kidney   | Renal Tubule | Dilatation                   | Mild             |
|  |              | Inflammation                 | Chronic, Minimal |
|  |              | Mineralization               | Moderate         |
|  | Renal Tubule | Regeneration                 | Mild             |
| Note: MOST OF THE DILATED TUBULES ARE NEAR CORTICOMEDULLARY JCT. |              |                              |                  |
| Liver  | Hepatocyte   | Cytomegaly                   | Mild             |
|  | Hepatocyte   | Vacuolization Cytoplasmic    | Mild             |
| Lung   |              | Alveolar/Bronchiolar Adenoma |                  |
|  |              | Infiltration Cellular        | Histiocyte, Mild |
| Note: ALV BRON ADEN TGLs = 1-2                                   |              |                              |                  |
| Stomach  | Glandular    | Cyst                         |                  |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                      |                               |                                 |                         |
|----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 71 | <b>TRT#:</b> 9                | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 737 |
|                      | <b>DOSE:</b> 0.0100% CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042450 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      | Lung                    |
| Lymph Node - Mandibular   | Lymph Node - Mesenteric  | Nose                       | Pancreas                |
| Parathyroid Gland         | Pituitary Gland          | Prostate                   | Salivary Glands         |
| Seminal Vesicle           | Skin                     | Spleen                     | Stomach - Forestomach   |
| Stomach - Glandular       | Testes                   | Thymus                     | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

|                          |              |                         |                 |
|--------------------------|--------------|-------------------------|-----------------|
| Adrenal Gland            | Medulla      | Pheochromocytoma Benign |                 |
| Brain                    | Thalamus     | Mineralization          | Mild            |
| Kidney                   |              | Cyst                    |                 |
|                          |              | Mineralization          | Mild            |
|                          | Renal Tubule | Regeneration            | Mild            |
|                          |              | Ectasia                 | Moderate        |
| Preputial Gland          |              |                         |                 |
| Note: ECTASIA TGLs = 1-8 |              |                         |                 |
| Thyroid Gland            |              | Degeneration            | Cystic, Minimal |

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 72

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042451

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Salivary Glands          | Seminal Vesicle            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Stomach - Glandular        | Testes                  |
| Thymus                    | Thyroid Gland            | Trachea                    | Urinary Bladder         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|   |                 |                           |                  |
|---|-----------------|---------------------------|------------------|
| Adrenal Gland                               | Capsule, Cortex | Adenoma                   |                  |
|   | Cortex          | Hyperplasia               | Focal, Minimal   |
| Brain                                       | Thalamus        | Mineralization            | Minimal          |
| Islets, Pancreatic                          |                 | Hyperplasia               | Mild             |
| Kidney                                      | Renal Tubule    | Dilatation                | Minimal          |
|   |                 | Mineralization            | Mild             |
|   | Renal Tubule    | Regeneration              | Mild             |
| Liver                                       |                 | Clear Cell Focus          |                  |
|   |                 | Hepatocellular Adenoma    | Multiple, Three  |
|   |                 | Inflammation              | Chronic, Minimal |
|   | Hepatocyte      | Vacuolization Cytoplasmic | Mild             |
| Note: CLEAR CL FOCUS TGLs = 4-23            |                 |                           |                  |
| Note: [ HEPATOCLR ADEN ] TGLs = 21,22,23,24 |                 |                           |                  |
| Preputial Gland                             |                 | Ectasia                   | Moderate         |
| Note: ECTASIA TGLs = 1-8                    |                 |                           |                  |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 73

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042452

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Salivary Glands          | Skin                       | Spleen                  |
| Stomach - Forestomach     | Stomach - Glandular      | Testes                     | Thyroid Gland           |
| Trachea                   | Urinary Bladder          |                            |                         |

**MISSING**

|               |        |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

**OBSERVATIONS**

|                                  |              |                  |                |
|----------------------------------|--------------|------------------|----------------|
| Adrenal Gland                    | Cortex       | Hyperplasia      | Focal, Minimal |
| Brain                            | Thalamus     | Mineralization   | Minimal        |
| Islets, Pancreatic               |              | Hyperplasia      | Minimal        |
| Kidney                           |              | Cyst             |                |
|                                  | Renal Tubule | Dilatation       | Minimal        |
|                                  |              | Mineralization   | Moderate       |
|                                  | Renal Tubule | Regeneration     | Moderate       |
| Liver                            |              | Clear Cell Focus |                |
| Note: CLEAR CL FOCUS TGLs = 1-21 |              |                  |                |
| Seminal Vesicle                  |              | Dilatation       | Moderate       |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 74

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 677

**DOSE:** 0.0100% CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042453

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Brain                   | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Lymph Node - Mandibular  | Nose                       | Parathyroid Gland       | Pituitary Gland           |
| Prostate                 | Salivary Glands            | Seminal Vesicle         | Skin                      |
| Stomach - Forestomach    | Stomach - Glandular        | Thyroid Gland           | Trachea                   |
| Urinary Bladder          |                            |                         |                           |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                  |              |                                  |                    |
|----------------------------------|--------------|----------------------------------|--------------------|
| Adrenal Gland                    | Cortex       | Hyperplasia                      | Focal, Minimal     |
| Bone Marrow                      |              | Hypercellularity                 | Moderate           |
| Epididymis                       |              | Atypia Cellular                  |                    |
|                                  |              | Inflammation                     | Chronic, Minimal   |
| Islets, Pancreatic               |              | Adenoma                          |                    |
| Kidney                           |              | Casts Protein                    | Minimal            |
|                                  |              | Cyst                             |                    |
| Liver                            |              | Hepatocellular Carcinoma         |                    |
|                                  | Kupffer Cell | Pigmentation                     | Moderate           |
| Note: HEPATOCLR CARC TGLs = 1-21 |              |                                  |                    |
| Lung                             |              | Hepatocellular Carcinoma         | Metastatic (Liver) |
| Note: HEPATOCLR CARC TGLs = 2-2  |              |                                  |                    |
| Lymph Node                       | Mesenteric   | Hemorrhage                       | Mild               |
| Pancreas                         |              | Cytoplasmic Alteration           | Moderate           |
| Spleen                           | Lymph Follic | Atrophy                          | Mild               |
|                                  |              | Hematopoietic Cell Proliferation | Minimal            |
| Testes                           | Seminif Tub  | Atrophy                          | Mild               |
| Thymus                           |              | Depletion Cellular               | Moderate           |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 74

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 677

**DOSE:** 0.0100% CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042453

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: GLAND-NOT CODED

Animal Note: FORIEGN MATERIAL WITHIN BLOOD VESSEL ADJACENT TO ADRENAL

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

|                      |                               |                                 |                         |
|----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 75 | <b>TRT#:</b> 9                | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 698 |
|                      | <b>DOSE:</b> 0.0100% CHLORAMI | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87042454 |

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    |
| Nose                    | Pancreas                  | Parathyroid Gland        | Pituitary Gland            |
| Prostate                | Salivary Glands           | Skin                     | Spleen                     |
| Stomach - Forestomach   | Thymus                    | Thyroid Gland            | Trachea                    |
| Urinary Bladder         |                           |                          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|  |              |                        |         |
|--|--------------|------------------------|---------|
| Brain                                    | Thalamus     | Mineralization         | Mild    |
| Gallbladder                              |              |                        |         |
| Note: GALLBLADDER IS ON SLIDE 21         |              |                        |         |
| Islets, Pancreatic                       |              | Hyperplasia            | Marked  |
| Kidney                                   |              | Mineralization         | Mild    |
|  | Renal Tubule | Regeneration           | Minimal |
| Liver                                    |              | Basophilic Focus       | Marked  |
|  |              | Clear Cell Focus       |         |
|  |              | Hemangiosarcoma        |         |
|  |              | Hepatocellular Adenoma |         |
| Note: CLEAR CELL FOCUS ON SLIDE 21       |              |                        |         |
| Note: [ HEPATOCLR ADEN ] TGLs = 23       |              |                        |         |
| Note: HEMANGIOSARC TGLs = 5-21,6-22,7-22 |              |                        |         |
| Note: [ BASOPH FOCUS ] TGLs = 21         |              |                        |         |
| Lymph Node                               | Mesenteric   | Hemorrhage             | Minimal |
| Note: HEMORRHAGE TGLs = 4-5              |              |                        |         |
| Seminal Vesicle                          |              | Dilatation             | Mild    |
| Note: DILATATION TGLs = 3-7              |              |                        |         |
| Stomach                                  | Glandular    | Cyst                   |         |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                      |                               |                                 |                         |
|----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 75 | <b>TRT#:</b> 9                | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 698 |
|                      | <b>DOSE:</b> 0.0100% CHLORAMI | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87042454 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                               |                |           |          |
|-------------------------------|----------------|-----------|----------|
| Testes                        | Interstit Cell | Adenoma   |          |
| Note: ADENOMA      TGLs = 1-7 |                |           |          |
| Tooth                         |                | Dysplasia | Moderate |

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PRIMARY CAUSE OF DEATH      -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 76

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 699

**DOSE:** 0.0100% CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042455

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    |
| Lymph Node - Mesenteric | Nose                      | Pituitary Gland          | Prostate                   |
| Salivary Glands         | Seminal Vesicle           | Skin                     | Stomach - Forestomach      |
| Testes                  | Thymus                    | Thyroid Gland            | Trachea                    |
| Urinary Bladder         |                           |                          |                            |

**MISSING**

|               |                   |
|---------------|-------------------|
| Mammary Gland | Parathyroid Gland |
|---------------|-------------------|

**OBSERVATIONS**

|                                  |              |                                  |          |
|----------------------------------|--------------|----------------------------------|----------|
| Brain                            | Thalamus     | Mineralization                   | Minimal  |
| Islets, Pancreatic               |              | Hyperplasia                      | Mild     |
| Kidney                           | Renal Tubule | Atrophy                          | Mild     |
|                                  |              | Casts Protein                    | Minimal  |
|                                  | Renal Tubule | Regeneration                     | Minimal  |
| Liver                            |              | Hepatocellular Carcinoma         |          |
| Note: HEPATOCLR CARC TGLs = 1-21 |              |                                  |          |
| Pancreas                         |              | Cytoplasmic Alteration           | Moderate |
| Spleen                           |              | Hematopoietic Cell Proliferation | Minimal  |
| Stomach                          | Glandular    | Cyst                             |          |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 77

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 727

**DOSE:** 0.0100% CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042456

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Nose                     | Pancreas                   | Parathyroid Gland       |
| Pituitary Gland           | Prostate                 | Salivary Glands            | Stomach - Forestomach   |
| Stomach - Glandular       | Testes                   | Thymus                     | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|  |                 |                                  |               |
|--|-----------------|----------------------------------|---------------|
| Adrenal Gland                                  | Capsule, Cortex | Adenoma                          |               |
| Brain  | Thalamus        | Mineralization                   | Minimal       |
| Kidney   |                 | Cyst                             |               |
|  |                 | Mineralization                   | Minimal       |
|  | Renal Tubule    | Regeneration                     | Minimal       |
| Liver  |                 | Hemangiosarcoma                  |               |
|  | Kupffer Cell    | Hyperplasia                      | Moderate      |
|  | Centrilobular   | Necrosis                         | Minimal       |
|  | Lobules         | Necrosis                         | Minimal       |
| Note: MASSIVE NECROSIS OF NEOPLASM ON SLIDE 22 |                 |                                  |               |
| Note: HEMANGIOSARC TGLs = 3-21,4-22            |                 |                                  |               |
| Preputial Gland                                |                 | Ectasia                          | Mild          |
|  |                 | Inflammation                     | Chronic, Mild |
|  |                 | Dilatation                       | Moderate      |
| Seminal Vesicle                                |                 |                                  |               |
| Note: DILATATION TGLs = 2-7                    |                 |                                  |               |
| Skin   |                 | Neoplasm Nos                     |               |
| Note: [ NEOPLASM NOS ] TGLs = 23               |                 |                                  |               |
| Spleen   |                 | Hematopoietic Cell Proliferation | Mild          |
| Thyroid Gland                                  |                 | Degeneration                     | Cystic, Mild  |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 77

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 727

**DOSE:** 0.0100% CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042456

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Follicular Cel

Hyperplasia

Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

|                      |                               |                            |                         |
|----------------------|-------------------------------|----------------------------|-------------------------|
| <b>ANIMAL ID:</b> 78 | <b>TRT#:</b> 9                | <b>SEX:</b> Male           | <b>DAY ON TEST:</b> 618 |
|                      | <b>DOSE:</b> 0.0100% CHLORAMI | <b>DISP:</b> Natural Death | <b>HISTO:</b> A87042457 |

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                         |                          |                         |
|---------------------------|-------------------------|--------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla | Bone                     | Bone Marrow             |
| Epididymis                | Esophagus               | Gallbladder              | Heart                   |
| Intestine Large - Cecum   | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic      | Lymph Node - Mandibular  | Lymph Node - Mesenteric |
| Nose                      | Pancreas                | Parathyroid Gland        | Pituitary Gland         |
| Prostate                  | Salivary Glands         | Seminal Vesicle          | Skin                    |
| Stomach - Forestomach     | Stomach - Glandular     | Testes                   | Thymus                  |
| Trachea                   | Urinary Bladder         |                          |                         |

**MISSING**

|                            |               |
|----------------------------|---------------|
| Intestine Small - Duodenum | Mammary Gland |
|----------------------------|---------------|

**OBSERVATIONS**

|                                   |                  |                                  |                  |
|-----------------------------------|------------------|----------------------------------|------------------|
| Brain                             | Thalamus         | Mineralization                   | Mild             |
| Kidney                            |                  | Mineralization                   | Minimal          |
|                                   | Renal Tubule     | Regeneration                     | Minimal          |
| Liver                             |                  | Basophilic Focus                 |                  |
|                                   |                  | Hemangiosarcoma                  |                  |
|                                   | Kupffer Cell     | Hyperplasia                      | Mild             |
|                                   | Lobules          | Necrosis                         | Minimal          |
|                                   | Kupffer Cell     | Pigmentation                     | Minimal          |
| Note: BASOPH FOCUS                | TGLs = 4-22      |                                  |                  |
| Note: HEMANGIOSARC                | TGLs = 3-21,5-23 |                                  |                  |
| Lung                              |                  | Embolus                          | Minimal          |
| Note: EMBOLI RESEMBLE HEPATOCYTES |                  |                                  |                  |
| Spleen                            | Red Pulp         | Atrophy                          | Moderate         |
|                                   |                  | Hemangiosarcoma                  |                  |
|                                   |                  | Hematopoietic Cell Proliferation | Moderate         |
| Note: HEMA CELL PROL              | TGLs = 2-6       |                                  |                  |
| Note: [ HEMANGIOSARC ]            | TGLs = 6         |                                  |                  |
| Thyroid Gland                     |                  | Degeneration                     | Cystic, Moderate |

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 78

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 618

**DOSE:** 0.0100% CHLORAMI

**DISP:** Natural Death

**HISTO:** A87042457

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 79

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042458

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Nose                       | Pancreas                |
| Parathyroid Gland         | Pituitary Gland          | Prostate                   | Salivary Glands         |
| Seminal Vesicle           | Skin                     | Stomach - Forestomach      | Stomach - Glandular     |
| Testes                    | Thymus                   | Trachea                    | Urinary Bladder         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                    |              |                                  |                  |
|------------------------------------|--------------|----------------------------------|------------------|
| Adrenal Gland                      | Cortex       | Clear Cell Focus                 |                  |
|                                    | Cortex       | Hyperplasia                      | Focal, Mild      |
| Brain                              | Thalamus     | Mineralization                   | Minimal          |
| Gallbladder                        |              |                                  |                  |
| Note: ESOPHAGUS PRESENT ON SLIDE 2 |              |                                  |                  |
| Islets, Pancreatic                 |              | Hyperplasia                      | Minimal          |
| Kidney                             | Renal Tubule | Hyperplasia                      | Focal, Mild      |
|                                    |              | Mineralization                   | Mild             |
|                                    | Renal Tubule | Regeneration                     | Mild             |
| Note: [ HYPERPLASIA ] TGLs = 5     |              |                                  |                  |
| Liver                              |              | Hepatocellular Carcinoma         |                  |
| Note: HEPATOCLR CARC TGLs = 3-21   |              |                                  |                  |
| Lung                               |              | Alveolar/Bronchiolar Adenoma     |                  |
| Lymph Node                         | Mesenteric   | Lymphoma Malignant Mixed         |                  |
| Spleen                             |              | Hematopoietic Cell Proliferation | Minimal          |
|                                    | Lymph Follic | Hyperplasia                      | Moderate         |
| Note: HYPERPLASIA TGLs = 2-6       |              |                                  |                  |
| Note: HEMA CELL PROL TGLs = 2-6    |              |                                  |                  |
| Thyroid Gland                      |              | Degeneration                     | Cystic, Moderate |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 79

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042458

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 80

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 581

**DOSE:** 0.0100% CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042459

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                            |                         |                         |
|-------------------------|----------------------------|-------------------------|-------------------------|
| Adrenal Gland - Medulla | Bone                       | Bone Marrow             | Epididymis              |
| Esophagus               | Gallbladder                | Heart                   | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Small - Duodenum | Intestine Small - Ileum | Islets, Pancreatic      |
| Lung                    | Lymph Node - Mandibular    | Lymph Node - Mesenteric | Nose                    |
| Pancreas                | Parathyroid Gland          | Pituitary Gland         | Prostate                |
| Salivary Glands         | Seminal Vesicle            | Skin                    | Stomach - Forestomach   |
| Stomach - Glandular     | Testes                     | Thymus                  | Trachea                 |

**MISSING**

|                          |               |
|--------------------------|---------------|
| Intestine Large - Rectum | Mammary Gland |
|--------------------------|---------------|

**OBSERVATIONS**

|                 |                 |                                  |                |
|-----------------|-----------------|----------------------------------|----------------|
| Adrenal Gland   | Capsule, Cortex | Hyperplasia                      | Mild           |
|                 | Cortex          | Hyperplasia                      | Focal, Minimal |
| Brain           | Thalamus        | Mineralization                   | Minimal        |
| Intestine Small | Jejunum         | Carcinoma                        |                |
| Note: CARCINOMA | TGLs = 1-21     |                                  |                |
| Kidney          |                 | Cyst                             |                |
|                 |                 | Mineralization                   | Moderate       |
|                 | Renal Tubule    | Regeneration                     | Moderate       |
| Liver           |                 | Basophilic Focus                 |                |
| Spleen          |                 | Hematopoietic Cell Proliferation | Mild           |
| Thyroid Gland   |                 | Degeneration                     | Cystic, Mild   |
| Urinary Bladder |                 | Dilatation                       | Moderate       |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 81

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 677

**DOSE:** 0.0100% CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042460

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                          |                            |                           |
|-------------------------|--------------------------|----------------------------|---------------------------|
| Adrenal Gland - Medulla | Bone                     | Bone Marrow                | Epididymis                |
| Esophagus               | Gallbladder              | Heart                      | Intestine Large - Cecum   |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Jejunum |
| Lymph Node - Mandibular | Lymph Node - Mesenteric  | Pancreas                   | Parathyroid Gland         |
| Pituitary Gland         | Prostate                 | Salivary Glands            | Seminal Vesicle           |
| Skin                    | Spleen                   | Stomach - Forestomach      | Stomach - Glandular       |
| Testes                  | Trachea                  |                            |                           |

**MISSING**

|                         |               |
|-------------------------|---------------|
| Intestine Small - Ileum | Mammary Gland |
|-------------------------|---------------|

**OBSERVATIONS**

|                                   |              |                                |                    |
|-----------------------------------|--------------|--------------------------------|--------------------|
| Adrenal Gland                     | Cortex       | Hyperplasia                    | Focal, Minimal     |
| Brain                             | Thalamus     | Mineralization                 | Mild               |
| Islets, Pancreatic                |              | Hyperplasia                    | Mild               |
| Kidney                            |              | Cyst                           |                    |
|                                   |              | Mineralization                 | Mild               |
|                                   | Renal Tubule | Regeneration                   | Mild               |
| Liver                             |              | Eosinophilic Focus             |                    |
|                                   |              | Hepatocellular Adenoma         |                    |
| Note: HEPATOCLR ADEN TGLs = 1-2-1 |              |                                |                    |
| Lung                              |              | Alveolar/Bronchiolar Carcinoma |                    |
|                                   |              | Hyperplasia                    | Lymphoid, Mild     |
|                                   |              | Infiltration Cellular          | Histiocyte, Marked |
| Note: ALV BRON CARC TGLs = 2-2-1  |              |                                |                    |
| Nose                              |              | Exudate                        |                    |
|                                   |              | Foreign Body                   | Minimal            |
| Thymus                            |              | Depletion Cellular             | Mild               |
| Thyroid Gland                     |              | Degeneration                   | Cystic, Minimal    |
| Urinary Bladder                   |              | Hyperplasia                    | Lymphoid, Minimal  |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                      |                               |                                 |                         |
|----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 82 | <b>TRT#:</b> 9                | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 727 |
|                      | <b>DOSE:</b> 0.0100% CHLORAMI | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87042461 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      | Lung                    |
| Lymph Node - Mandibular   | Nose                     | Pancreas                   | Parathyroid Gland       |
| Pituitary Gland           | Prostate                 | Spleen                     | Stomach - Forestomach   |
| Stomach - Glandular       | Testes                   | Thymus                     | Thyroid Gland           |
| Trachea                   | Urinary Bladder          |                            |                         |

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

|                                  |              |                           |                |
|----------------------------------|--------------|---------------------------|----------------|
| Adrenal Gland                    | Cortex       | Hyperplasia               | Focal, Mild    |
| Brain                            | Thalamus     | Mineralization            | Moderate       |
| Coagulating Gland                |              | Dilatation                | Marked         |
| Note: DILATATION TGLs = 3-7      |              |                           |                |
| Kidney                           | Renal Tubule | Cyst                      | Minimal        |
|                                  |              | Dilatation                | Moderate       |
|                                  |              | Mineralization            | Moderate       |
|                                  | Renal Tubule | Regeneration              | Minimal        |
| Lymph Node                       | Mesenteric   | Hemorrhage                | Lymphoid, Mild |
| Salivary Glands                  |              | Hyperplasia               | Marked         |
| Seminal Vesicle                  |              | Dilatation                |                |
| Note: DILATATION TGLs = 2-7      |              |                           |                |
| Skin                             |              | Cyst Epithelial Inclusion |                |
| Note: CYST EPITH INC TGLs = 1-21 |              |                           |                |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 83

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042462

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Salivary Glands          | Seminal Vesicle            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Stomach - Glandular        | Testes                  |
| Thymus                    | Thyroid Gland            | Trachea                    | Urinary Bladder         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|               |              |                |                |
|---------------|--------------|----------------|----------------|
| Adrenal Gland | Cortex       | Hyperplasia    | Focal, Minimal |
| Brain         | Thalamus     | Mineralization | Minimal        |
| Kidney        |              | Casts Protein  | Minimal        |
|               |              | Mineralization | Mild           |
|               | Renal Tubule | Regeneration   | Mild           |
| Liver         | Lobules      | Necrosis       | Minimal        |
| Lymph Node    | Mesenteric   | Hemorrhage     | Minimal        |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                      |                               |                                 |                         |
|----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 84 | <b>TRT#:</b> 9                | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 735 |
|                      | <b>DOSE:</b> 0.0100% CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042463 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Epididymis                |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   |
| Nose                     | Pancreas                   | Prostate                | Salivary Glands           |
| Seminal Vesicle          | Skin                       | Spleen                  | Stomach - Forestomach     |
| Stomach - Glandular      | Testes                     | Thymus                  | Trachea                   |
| Urinary Bladder          |                            |                         |                           |

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**MISSING**

|           |               |                   |               |
|-----------|---------------|-------------------|---------------|
| Esophagus | Mammary Gland | Parathyroid Gland | Thyroid Gland |
|-----------|---------------|-------------------|---------------|

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**OBSERVATIONS**

|                 |               |                           |             |
|-----------------|---------------|---------------------------|-------------|
| Adrenal Gland   | Cortex        | Hyperplasia               | Focal, Mild |
| Brain           | Thalamus      | Mineralization            | Mild        |
| Kidney          | Renal Tubule  | Cyst                      |             |
|                 |               | Dilatation                | Minimal     |
|                 |               | Mineralization            | Moderate    |
|                 | Renal Tubule  | Regeneration              | Moderate    |
| Liver           | Hepatocyte    | Vacuolization Cytoplasmic | Mild        |
| Pituitary Gland | Pars Distalis | Cyst                      |             |
| Trachea         |               |                           |             |

Note: PRESENT ON SLIDE 2

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                      |                               |                                 |                         |
|----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 85 | <b>TRT#:</b> 9                | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 735 |
|                      | <b>DOSE:</b> 0.0100% CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042464 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Nose                    |
| Pancreas                  | Parathyroid Gland        | Prostate                   | Seminal Vesicle         |
| Skin                      | Spleen                   | Stomach - Forestomach      | Testes                  |
| Thymus                    | Thyroid Gland            | Trachea                    |                         |

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

|                                  |               |                        |                   |
|----------------------------------|---------------|------------------------|-------------------|
| Adrenal Gland                    | Cortex        | Hyperplasia            | Focal, Moderate   |
| Brain                            | Thalamus      | Mineralization         | Mild              |
| Islets, Pancreatic               |               | Hyperplasia            | Moderate          |
| Kidney                           |               | Cyst                   |                   |
|                                  |               | Mineralization         | Mild              |
|                                  | Renal Tubule  | Regeneration           | Mild              |
| Liver                            |               | Hepatocellular Adenoma |                   |
| Note: HEPATOCLR ADEN TGLs = 1-21 |               |                        |                   |
| Lung                             |               | Hemorrhage             | Mild              |
| Pituitary Gland                  | Pars Distalis | Cyst                   |                   |
| Salivary Glands                  |               | Hyperplasia            | Lymphoid, Minimal |
| Stomach                          | Glandular     | Cyst                   |                   |
|                                  | Glandular     | Mineralization         | Minimal           |
| Urinary Bladder                  |               | Hyperplasia            | Lymphoid, Minimal |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 86

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042465

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Nose                     | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Salivary Glands          | Seminal Vesicle            | Spleen                  |
| Stomach - Forestomach     | Stomach - Glandular      | Testes                     | Thymus                  |
| Thyroid Gland             | Trachea                  | Urinary Bladder            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|   |              |                  |                  |
|---|--------------|------------------|------------------|
| Adrenal Gland   | Cortex       | Hyperplasia      | Focal, Moderate  |
| Brain   | Thalamus     | Mineralization   | Minimal          |
| Kidney  |              | Cyst             |                  |
|   |              | Mineralization   | Mild             |
|   | Renal Tubule | Regeneration     | Mild             |
| Liver   |              | Clear Cell Focus |                  |
|   |              | Hyperplasia      | Focal, Moderate  |
|   |              | Inflammation     | Chronic, Minimal |
| Note: CLEAR CL FOCUS TGLs = 6-23<br>Note: HYPERPLASIA TGLs = 6-23 |              |                  |                  |
| Pancreas  |              | Atrophy          | Moderate         |
| Preputial Gland   |              | Ectasia          | Moderate         |
| Note: ECTASIA TGLs = 5-7  |              |                  |                  |
| Skin  |              | Inflammation     | Chronic, Minimal |
| Note: INFLAMMATION TGLs = 1-21                                    |              |                  |                  |

**PRIMARY CAUSE OF DEATH** -

Animal Note: PANCREAS AND ISLETS ON SLIDE 5

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 87

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 681

**DOSE:** 0.0100% CHLORAMI

**DISP:** Natural Death

**HISTO:** A87042466

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Nose                       | Pancreas                |
| Parathyroid Gland         | Pituitary Gland          | Prostate                   | Salivary Glands         |
| Seminal Vesicle           | Skin                     | Stomach - Glandular        | Testes                  |
| Thyroid Gland             | Trachea                  | Urinary Bladder            |                         |

**MISSING**

|               |        |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

**OBSERVATIONS**

|                                       |              |                                   |                    |
|---------------------------------------|--------------|-----------------------------------|--------------------|
| Adrenal Gland                         | Cortex       | Accessory Adrenal Cortical Nodule |                    |
| Brain                                 | Thalamus     | Mineralization                    | Mild               |
| Esophagus                             |              |                                   |                    |
| Note: ESOPHAGUS IS ON SLIDE 2         |              |                                   |                    |
| Islets, Pancreatic                    |              | Hyperplasia                       | Mild               |
| Note: HYPERPLASIA IS ON SLIDE 5       |              |                                   |                    |
| Kidney                                |              | Cyst                              |                    |
|                                       |              | Hyperplasia                       | Lymphoid, Minimal  |
|                                       |              | Mineralization                    | Minimal            |
|                                       | Renal Tubule | Regeneration                      | Minimal            |
| Liver                                 |              | Hepatocellular Carcinoma          | Multiple, Two      |
| Note: HEPATOCLR CARC TGLs = 5-21,6-22 |              |                                   |                    |
| Lung                                  |              | Hepatocellular Carcinoma          | Metastatic (Liver) |
| Note: HEPATOCLR CARC TGLs = 7-2       |              |                                   |                    |
| Lymph Node                            | Mesenteric   | Hemorrhage                        | Mild               |
| Preputial Gland                       |              | Ectasia                           | Moderate           |
|                                       |              | Inflammation                      | Chronic, Mild      |
| Note: INFLAMMATION TGLs = 3-8         |              |                                   |                    |
| Note: ECTASIA TGLs = 1-8,2-8          |              |                                   |                    |
| Spleen                                |              | Hematopoietic Cell Proliferation  | Mild               |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                      |                               |                            |                         |
|----------------------|-------------------------------|----------------------------|-------------------------|
| <b>ANIMAL ID:</b> 87 | <b>TRT#:</b> 9                | <b>SEX:</b> Male           | <b>DAY ON TEST:</b> 681 |
|                      | <b>DOSE:</b> 0.0100% CHLORAMI | <b>DISP:</b> Natural Death | <b>HISTO:</b> A87042466 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|         |                     |              |                   |
|---------|---------------------|--------------|-------------------|
| Stomach | Forestomach, Mucosa | Hyperplasia  | Moderate          |
|         | Forestomach         | Inflammation | Suppurative, Mild |

Note: HYPERPLASIA TGLs = 8-4-1

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 88

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042467

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Nose                    |
| Pancreas                  | Parathyroid Gland        | Prostate                   | Salivary Glands         |
| Seminal Vesicle           | Skin                     | Stomach - Forestomach      | Stomach - Glandular     |
| Testes                    | Thyroid Gland            | Trachea                    | Urinary Bladder         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                    |               |                                  |                   |
|------------------------------------|---------------|----------------------------------|-------------------|
| Adrenal Gland                      | Cortex        | Hyperplasia                      | Focal, Mild       |
| Brain                              | Thalamus      | Mineralization                   | Moderate          |
| Islets, Pancreatic                 |               | Hyperplasia                      | Moderate          |
| Kidney                             |               | Casts Protein                    | Minimal           |
|                                    | Renal Tubule  | Dilatation                       | Mild              |
|                                    | Renal Tubule  | Hyperplasia                      | Focal, Mild       |
|                                    |               | Hyperplasia                      | Lymphoid, Minimal |
|                                    |               | Mineralization                   | Minimal           |
|                                    | Renal Tubule  | Regeneration                     | Minimal           |
| Note: [ HYPERPLASIA ] TGLs = 5     |               |                                  |                   |
| Liver                              |               | Clear Cell Focus                 |                   |
|                                    |               | Hepatocellular Adenoma           |                   |
|                                    |               | Hepatocellular Carcinoma         |                   |
|                                    |               | Vacuolization Cytoplasmic        | Mild              |
| Note: HEPATOCLR CARC TGLs = 1-21   | Hepatocyte    |                                  |                   |
| Lung                               |               | Alveolar/Bronchiolar Adenoma     |                   |
| Note: [ ALV BRON ADEN ] TGLs = 2.1 |               |                                  |                   |
| Pituitary Gland                    | Pars Distalis | Hyperplasia                      | Minimal           |
| Spleen                             |               | Hematopoietic Cell Proliferation | Minimal           |
| Thymus                             |               | Cyst                             |                   |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 88

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042467

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                      |                               |                                 |                         |
|----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 89 | <b>TRT#:</b> 9                | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 736 |
|                      | <b>DOSE:</b> 0.0100% CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042468 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       |
| Lymph Node - Mandibular | Nose                      | Pancreas                 | Parathyroid Gland          |
| Pituitary Gland         | Prostate                  | Salivary Glands          | Skin                       |
| Spleen                  | Stomach - Forestomach     | Stomach - Glandular      | Testes                     |
| Thymus                  | Trachea                   | Urinary Bladder          |                            |

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

|                                  |              |                          |              |
|----------------------------------|--------------|--------------------------|--------------|
| Brain                            | Thalamus     | Mineralization           | Mild         |
| Kidney                           |              | Cyst                     |              |
|                                  |              | Mineralization           | Minimal      |
|                                  | Renal Tubule | Regeneration             | Minimal      |
| Liver                            |              | Hepatocellular Carcinoma |              |
| Note: HEPATOCLR CARC TGLs = 1-21 |              |                          |              |
| Lymph Node                       | Mesenteric   | Hemorrhage               | Moderate     |
| Seminal Vesicle                  |              | Dilatation               | Mild         |
| Thyroid Gland                    | Follicle     | Cyst                     |              |
|                                  |              | Degeneration             | Cystic, Mild |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                      |                               |                                 |                         |
|----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 90 | <b>TRT#:</b> 9                | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 736 |
|                      | <b>DOSE:</b> 0.0100% CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042469 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      | Lung                    |
| Lymph Node - Mandibular   | Lymph Node - Mesenteric  | Nose                       | Pancreas                |
| Parathyroid Gland         | Pituitary Gland          | Prostate                   | Salivary Glands         |
| Skin                      | Spleen                   | Stomach - Forestomach      | Stomach - Glandular     |
| Testes                    | Thymus                   | Trachea                    | Urinary Bladder         |

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

|                             |                 |                |                 |
|-----------------------------|-----------------|----------------|-----------------|
| Adrenal Gland               | Capsule, Cortex | Hyperplasia    | Mild            |
|                             | Cortex          | Hyperplasia    | Focal, Mild     |
| Brain                       | Thalamus        | Mineralization | Mild            |
| Coagulating Gland           |                 | Dilatation     | Marked          |
| Note: DILATATION TGLs = 2-7 |                 |                |                 |
| Kidney                      |                 | Cyst           |                 |
|                             |                 | Mineralization | Moderate        |
|                             | Renal Tubule    | Regeneration   | Moderate        |
| Seminal Vesicle             |                 | Dilatation     | Mild            |
| Note: DILATATION TGLs = 1-7 |                 |                |                 |
| Thyroid Gland               |                 | Degeneration   | Cystic, Minimal |

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 91

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042470

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Nose                    |
| Parathyroid Gland         | Pituitary Gland          | Prostate                   | Seminal Vesicle         |
| Skin                      | Spleen                   | Stomach - Forestomach      | Stomach - Glandular     |
| Testes                    | Thymus                   | Trachea                    |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|  |                 |                              |                   |
|--|-----------------|------------------------------|-------------------|
| Adrenal Gland  | Capsule, Cortex | Adenoma                      |                   |
|  | Cortex          | Hyperplasia                  | Focal, Minimal    |
| Brain  | Thalamus        | Mineralization               | Moderate          |
| Islets, Pancreatic   |                 | Hyperplasia                  | Minimal           |
| Kidney   | Renal Tubule    | Dilatation                   | Minimal           |
|  |                 | Mineralization               | Mild              |
|  | Renal Tubule    | Regeneration                 | Mild              |
| Liver  |                 | Clear Cell Focus             |                   |
|  |                 | Hepatocellular Adenoma       |                   |
| Note: CLEAR CELL FOCUS ON SLIDE 21<br>Note: HEPATOCLR ADEN TGLs = 1-21 |                 |                              |                   |
| Lung   |                 | Alveolar/Bronchiolar Adenoma |                   |
| Pancreas   |                 | Hyperplasia                  | Lymphoid, Mild    |
| Salivary Glands  |                 | Hyperplasia                  | Lymphoid, Mild    |
| Thyroid Gland  |                 | Degeneration                 | Cystic, Mild      |
| Urinary Bladder  |                 | Hyperplasia                  | Lymphoid, Minimal |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

|                      |                               |                                 |                         |
|----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 92 | <b>TRT#:</b> 9                | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 736 |
|                      | <b>DOSE:</b> 0.0100% CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042471 |

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lymph Node - Mandibular  | Nose                       |
| Pancreas                | Parathyroid Gland         | Salivary Glands          | Skin                       |
| Spleen                  | Stomach - Forestomach     | Stomach - Glandular      | Testes                     |
| Trachea                 | Urinary Bladder           |                          |                            |

**MISSING**

|               |                 |
|---------------|-----------------|
| Mammary Gland | Pituitary Gland |
|---------------|-----------------|

**OBSERVATIONS**

|                    |              |                              |                 |
|--------------------|--------------|------------------------------|-----------------|
| Brain              | Thalamus     | Mineralization               | Mild            |
| Coagulating Gland  |              | Dilatation                   | Marked          |
| Note: DILATATION   | TGLs = 2-7   |                              |                 |
| Islets, Pancreatic |              | Hyperplasia                  | Mild            |
| Kidney             | Renal Tubule | Atrophy                      | Moderate        |
|                    | Renal Tubule | Dilatation                   | Minimal         |
|                    |              | Hydronephrosis               | Mild            |
|                    |              | Hyperplasia                  | Lymphoid, Mild  |
|                    |              | Mineralization               | Moderate        |
|                    | Renal Tubule | Regeneration                 | Marked          |
| Liver              |              | Eosinophilic Focus           |                 |
| Lung               |              | Alveolar/Bronchiolar Adenoma |                 |
| Lymph Node         | Mesenteric   | Hemorrhage                   | Minimal         |
| Prostate           |              | Inflammation                 | Chronic, Mild   |
| Seminal Vesicle    |              | Dilatation                   | Marked          |
| Note: DILATATION   | TGLs = 1-7   |                              |                 |
| Thymus             |              | Cyst                         |                 |
| Thyroid Gland      |              | Degeneration                 | Cystic, Minimal |
| Tooth              |              | Dysplasia                    | Mild            |

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 92

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042471

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 93

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042472

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    |
| Lymph Node - Mesenteric | Nose                      | Pancreas                 | Parathyroid Gland          |
| Pituitary Gland         | Prostate                  | Salivary Glands          | Seminal Vesicle            |
| Skin                    | Stomach - Forestomach     | Stomach - Glandular      | Thymus                     |
| Thyroid Gland           | Trachea                   | Urinary Bladder          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                  |              |                                  |                 |
|----------------------------------|--------------|----------------------------------|-----------------|
| Brain                            | Thalamus     | Mineralization                   | Moderate        |
| Harderian Gland                  |              | Adenoma                          |                 |
| Islets, Pancreatic               |              | Hyperplasia                      | Minimal         |
| Kidney                           | Renal Tubule | Atrophy                          | Mild            |
|                                  |              | Casts Protein                    | Mild            |
|                                  | Renal Tubule | Regeneration                     | Moderate        |
| Liver                            |              | Hepatocellular Carcinoma         |                 |
|                                  |              | Hyperplasia                      | Focal, Moderate |
|                                  | Lobules      | Necrosis                         | Mild            |
| Note: HEPATOCLR CARC TGLs = 3-21 |              |                                  |                 |
| Note: HYPERPLASIA TGLs = 4-22    |              |                                  |                 |
| Spleen                           |              | Hematopoietic Cell Proliferation | Moderate        |
| Note: HEMA CELL PROL TGLs = 2-6  |              |                                  |                 |
| Testes                           |              | Infarct                          | Marked          |
| Note: [ INFARCT ] TGLs = 7       |              |                                  |                 |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                      |                               |                                 |                         |
|----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 94 | <b>TRT#:</b> 9                | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 736 |
|                      | <b>DOSE:</b> 0.0100% CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042473 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Medulla | Bone                      | Bone Marrow              | Brain                      |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lymph Node - Mandibular  | Lymph Node - Mesenteric    |
| Nose                    | Pancreas                  | Parathyroid Gland        | Pituitary Gland            |
| Prostate                | Salivary Glands           | Seminal Vesicle          | Skin                       |
| Spleen                  | Stomach - Forestomach     | Stomach - Glandular      | Testes                     |
| Thymus                  | Thyroid Gland             | Trachea                  | Urinary Bladder            |

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

|                    |              |                           |                |
|--------------------|--------------|---------------------------|----------------|
| Adrenal Gland      | Cortex       | Hyperplasia               | Focal, Minimal |
| Islets, Pancreatic |              | Hyperplasia               | Moderate       |
| Kidney             | Renal Tubule | Dilatation                | Minimal        |
|                    |              | Mineralization            | Mild           |
|                    | Renal Tubule | Regeneration              | Moderate       |
| Liver              |              | Clear Cell Focus          |                |
|                    | Hepatocyte   | Vacuolization Cytoplasmic | Moderate       |
| Lung               |              | Hemorrhage                | Mild           |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 95

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042474

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Seminal Vesicle          | Skin                       | Spleen                  |
| Stomach - Forestomach     | Testes                   | Thymus                     | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                  |                |                                   |                    |
|----------------------------------|----------------|-----------------------------------|--------------------|
| Adrenal Gland                    | Cortex         | Accessory Adrenal Cortical Nodule |                    |
|                                  | Cortex         | Hyperplasia                       | Focal, Minimal     |
| Brain                            | Thalamus       | Mineralization                    | Mild               |
| Kidney                           |                | Hyperplasia                       | Lymphoid, Minimal  |
|                                  |                | Mineralization                    | Mild               |
|                                  | Renal Tubule   | Necrosis                          | Minimal            |
|                                  | Renal Tubule   | Regeneration                      | Mild               |
| Liver                            | Hepatocyte     | Karyomegaly                       | Mild               |
| Lung                             |                | Alveolar/Bronchiolar Carcinoma    |                    |
|                                  |                | Infiltration Cellular             | Histiocyte, Marked |
| Note: [ ALV BRON CARC ] TGLs = 2 |                |                                   |                    |
| Salivary Glands                  |                | Hyperplasia                       | Lymphoid, Mild     |
| Stomach                          | Glandular      | Cyst                              |                    |
| Thyroid Gland                    | Follicular Cel | Adenoma                           |                    |
|                                  |                | Degeneration                      | Cystic, Minimal    |
|                                  | Follicular Cel | Hyperplasia                       | Minimal            |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                               |  |  |   |
|-------------------------------|--|--|---|
| <b>ANIMAL ID:</b> 97          | <b>TRT#:</b> 10<br><b>DOSE:</b> 0.0100% 3 SSAC | <b>SEX:</b> Male<br><b>DISP:</b> Scheduled Sacrifice | <b>DAY ON TEST:</b> 99<br><b>HISTO:</b> 33827 |
| <b>OBSERVATIONS</b><br>Kidney | Renal Tubule                                   | Regeneration   | Minimal                                       |
| <b>PRIMARY CAUSE OF DEATH</b> | -  |  |   |

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                               |  |  |   |
|-------------------------------|--|--|---|
| <b>ANIMAL ID:</b> 98          | <b>TRT#:</b> 10<br><b>DOSE:</b> 0.0100% 3 SSAC | <b>SEX:</b> Male<br><b>DISP:</b> Scheduled Sacrifice | <b>DAY ON TEST:</b> 99<br><b>HISTO:</b> 33828 |
| <b>OBSERVATIONS</b><br>Kidney | Renal Tubule                                   | Regeneration   | Minimal                                       |
| <b>PRIMARY CAUSE OF DEATH</b> | -  |  |   |

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 101

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0.0100% CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** A86037718

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**OBSERVATIONS**

Kidney

Renal Tubule

Dilatation

Minimal

Mineralization

Mild

Renal Tubule

Regeneration

Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 102

**TRT#:** 9  
**DOSE:** 0.0100% CHLORAMI

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:** 455  
**HISTO:** A86037719

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**OBSERVATIONS**

Kidney

Renal Tubule

Dilatation  
Mineralization  
Regeneration

Minimal  
Moderate  
Moderate

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 103

**TRT#:** 9  
**DOSE:** 0.0100% CHLORAMI

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:** 457  
**HISTO:** A86037720

---

**OBSERVATIONS**

|                                 |              |                       |                     |
|---------------------------------|--------------|-----------------------|---------------------|
| Kidney                          | Renal Tubule | Dilatation            | Minimal             |
| Lung                            |              | Mineralization        | Minimal             |
| Note: INFILTRAT CELL TGLs = 1-2 |              | Infiltration Cellular | Histiocyte, Minimal |

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 104

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 455

**DOSE:** 0.0100% CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** A86037721

**OBSERVATIONS**

|        |                            |  |                               |
|--------|----------------------------|--|-------------------------------|
| Kidney | Renal Tubule               | Dilatation<br>Inflammation<br>Mineralization           | Mild<br>Chronic, Mild<br>Mild |
| Liver  | Renal Tubule<br>Hepatocyte | Regeneration<br>Cytomegaly<br>Hepatocellular Carcinoma | Minimal<br>Mild               |
|        | Hepatocyte                 | Vacuolization Cytoplasmic                              | Mild                          |

Note: HEPATOCLR CARC TGLs = 1-21

PRIMARY CAUSE OF DEATH

-

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                  |                         |
|-----------------------|-------------------------------|----------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 105 | <b>TRT#:</b> 9                | <b>SEX:</b> Male                 | <b>DAY ON TEST:</b> 456 |
|                       | <b>DOSE:</b> 0.0100% CHLORAMI | <b>DISP:</b> Scheduled Sacrifice | <b>HISTO:</b> A86037722 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

Spleen

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**OBSERVATIONS**

|        |              |                |         |
|--------|--------------|----------------|---------|
| Kidney | Renal Tubule | Dilatation     | Mild    |
|        |              | Mineralization | Mild    |
|        | Renal Tubule | Regeneration   | Minimal |

Note: [ DILATATION ] TGLs = 5

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PRIMARY CAUSE OF DEATH

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-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 106

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 698

**DOSE:** 0.00500%CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042569

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                          |                            |                         |
|-------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus               | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Nose                    | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                | Salivary Glands          | Skin                       | Stomach - Forestomach   |
| Stomach - Glandular     | Testes                   | Trachea                    | Urinary Bladder         |

**MISSING**

|                         |               |
|-------------------------|---------------|
| Lymph Node - Mandibular | Mammary Gland |
|-------------------------|---------------|

**OBSERVATIONS**

|                                     |                 |                                  |                   |
|-------------------------------------|-----------------|----------------------------------|-------------------|
| Adrenal Gland                       | Capsule, Cortex | Hyperplasia                      | Mild              |
| Brain                               | Thalamus        | Mineralization                   | Moderate          |
| Intestine Small                     | Jejunum         | Carcinoma                        |                   |
| Note: CARCINOMA    TGLs = 4-21      |                 |                                  |                   |
| Islets, Pancreatic                  |                 | Hyperplasia                      | Minimal           |
| Kidney                              |                 | Cyst                             |                   |
|                                     |                 | Mineralization                   | Minimal           |
| Liver                               |                 | Hepatocellular Carcinoma         |                   |
|                                     |                 | Hyperplasia                      | Focal, Minimal    |
|                                     |                 | Inflammation                     | Chronic, Mild     |
| Note: HEPATOCLR CARC    TGLs = 5-22 |                 |                                  |                   |
| Note: HYPERPLASIA    TGLs = 9-24    |                 |                                  |                   |
| Lung                                |                 | Alveolar/Bronchiolar Carcinoma   |                   |
|                                     |                 | Infiltration Cellular            | Histiocyte, Mild  |
| Note: ALV BRON CARC    TGLs = 6-2-1 |                 |                                  |                   |
| Lymph Node                          | Mesenteric      | Hyperplasia                      | Plasma Cell, Mild |
| Note: HYPERPLASIA    TGLs = 3-5     |                 |                                  |                   |
| Preputial Gland                     |                 | Inflammation                     | Chronic, Mild     |
| Note: INFLAMMATION    TGLs = 1-8    |                 |                                  |                   |
| Seminal Vesicle                     |                 | Dilatation                       | Moderate          |
| Spleen                              |                 | Hematopoietic Cell Proliferation | Mild              |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 106

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 698

**DOSE:** 0.00500%CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042569

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: HEMA CELL PROL TGLs = 2-6

Thymus

Cyst

Thyroid Gland

Degeneration

Cystic, Mild

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 107

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 559

**DOSE:** 0.00500%CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042570

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    |
| Lymph Node - Mesenteric | Nose                      | Pancreas                 | Parathyroid Gland          |
| Pituitary Gland         | Prostate                  | Salivary Glands          | Seminal Vesicle            |
| Skin                    | Stomach - Forestomach     | Stomach - Glandular      | Testes                     |
| Thyroid Gland           | Trachea                   | Urinary Bladder          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                  |              |                        |                   |
|----------------------------------|--------------|------------------------|-------------------|
| Brain                            | Thalamus     | Mineralization         | Minimal           |
| Islets, Pancreatic               |              | Hyperplasia            | Moderate          |
| Kidney                           |              | Casts Protein          | Minimal           |
|                                  |              | Cyst                   |                   |
|                                  |              | Mineralization         | Moderate          |
|                                  | Renal Tubule | Regeneration           | Minimal           |
| Liver                            |              | Hepatocellular Adenoma | Multiple, Three   |
|                                  |              | Hyperplasia            | Focal, Mild       |
| Note: HYPERPLASIA TGLs = 6-22    |              |                        |                   |
| Note: HEPATOCLR ADEN TGLs = 6-22 |              |                        |                   |
| Spleen                           | Lymph Follic | Atrophy                | Moderate          |
|                                  |              | Pigmentation           | Hemosiderin, Mild |
| Note: PIGMENT TGLs = 5-6         |              |                        |                   |
| Note: ATROPHY TGLs = 1-6         |              |                        |                   |
| Thymus                           |              | Depletion Cellular     | Mild              |
| Tooth                            |              | Dysplasia              | Moderate          |
| Note: DYSPLASIA TGLs = 4-9       |              |                        |                   |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 108

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 559

**DOSE:** 0.00500%CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042571

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Nose                     | Pancreas                   | Parathyroid Gland       |
| Pituitary Gland           | Prostate                 | Salivary Glands            | Seminal Vesicle         |
| Skin                      | Stomach - Forestomach    | Stomach - Glandular        | Thyroid Gland           |
| Trachea                   | Urinary Bladder          |                            |                         |

**MISSING**

|               |        |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

**OBSERVATIONS**

|                      |              |                                  |                |
|----------------------|--------------|----------------------------------|----------------|
| Adrenal Gland        | Cortex       | Cyst                             |                |
|                      | Cortex       | Hyperplasia                      | Focal, Minimal |
| Brain                | Thalamus     | Mineralization                   | Mild           |
| Kidney               | Renal Tubule | Atrophy                          | Mild           |
|                      |              | Casts Protein                    | Mild           |
|                      |              | Cyst                             |                |
|                      |              | Mineralization                   | Minimal        |
|                      | Renal Tubule | Regeneration                     | Moderate       |
| Liver                |              | Hepatocellular Carcinoma         |                |
| Note: HEPATOCLR CARC |              |                                  |                |
|                      |              |                                  |                |
| Mesentery            | Fat          | Necrosis                         | Mild           |
| Note: NECROSIS       |              |                                  |                |
|                      |              |                                  |                |
| Preputial Gland      |              | Ectasia                          | Marked         |
| Note: ECTASIA        |              |                                  |                |
|                      |              |                                  |                |
| Spleen               |              | Hematopoietic Cell Proliferation | Moderate       |
| Note: HEMA CELL PROL |              |                                  |                |
|                      |              |                                  |                |
| Testes               | Seminif Tub  | Atrophy                          | Minimal        |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 109

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042572

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Epididymis                |
| Esophagus                | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   |
| Nose                     | Pancreas                   | Parathyroid Gland       | Pituitary Gland           |
| Prostate                 | Seminal Vesicle            | Skin                    | Spleen                    |
| Stomach - Forestomach    | Stomach - Glandular        | Testes                  | Thymus                    |
| Thyroid Gland            | Trachea                    | Urinary Bladder         |                           |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|   |              |                        |                   |
|---|--------------|------------------------|-------------------|
| Adrenal Gland                               | Cortex       | Clear Cell Focus       |                   |
|   | Cortex       | Hypertrophy            | Focal, Moderate   |
| Note: [ HYPERTROPHY ] TGLs = 10             |              |                        |                   |
| Brain                                       | Thalamus     | Mineralization         | Mild              |
| Gallbladder                                 |              | Papilloma              |                   |
| Note: [ PAPILOMA ] TGLs = 6                 |              |                        |                   |
| Kidney                                      | Renal Tubule | Atrophy                | Mild              |
|   |              | Granuloma              | Minimal           |
|   |              | Mineralization         | Moderate          |
|   | Renal Tubule | Regeneration           | Mild              |
| Note: GRANULOMA CONTAINS SMALL CONCRETIONS. |              |                        |                   |
| Liver                                       |              | Clear Cell Focus       |                   |
|   |              | Hepatocellular Adenoma | Multiple, Three   |
| Note: CLEAR CL FOCUS TGLs = 3-23            |              |                        |                   |
| Note: [ HEPATOCLR ADEN ] TGLs = 21,22,23    |              |                        |                   |
| Salivary Glands                             |              | Hyperplasia            | Lymphoid, Minimal |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 110

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 727

**DOSE:** 0.00500%CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042573

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lymph Node - Mandibular  | Lymph Node - Mesenteric    |
| Nose                    | Pancreas                  | Parathyroid Gland        | Pituitary Gland            |
| Prostate                | Salivary Glands           | Skin                     | Spleen                     |
| Stomach - Forestomach   | Testes                    | Thymus                   | Thyroid Gland              |
| Trachea                 | Urinary Bladder           |                          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|  |              |                              |                    |
|--|--------------|------------------------------|--------------------|
| Brain  | Thalamus     | Mineralization               | Mild               |
| Islets, Pancreatic   |              | Hyperplasia                  | Mild               |
| Kidney   |              | Casts Protein                | Mild               |
|  |              | Cyst                         |                    |
|  |              | Hyperplasia                  | Lymphoid, Moderate |
|  |              | Mineralization               | Minimal            |
|  | Renal Tubule | Regeneration                 | Marked             |
| Liver  |              | Basophilic Focus             |                    |
|  |              | Hepatocellular Adenoma       | Multiple, Three    |
|  |              | Hepatocellular Carcinoma     |                    |
| <p>Note: HEPATOCLR CARC TGLs = 5-23</p> <p>Note: HEPATOCLR ADEN TGLs = 3-21,4-22</p> <p>Note: PORTION OF HEPATOCELLULAR CARCINOMA ON SLIDE 6.</p> <p>Note: HEPATOCELLULAR ADENOMA ALSO ON SLIDE 6.</p> |              |                              |                    |
|  |              | Alveolar/Bronchiolar Adenoma |                    |
| Lung   |              |                              |                    |
| Note: ALV BRON ADEN  | TGLs = 6-2-1 |                              |                    |
| Seminal Vesicle  |              | Dilatation                   | Marked             |
|  |              | Hemorrhage                   | Moderate           |
| Note: HEMORRHAGE   | TGLs = 2-7-1 |                              |                    |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 110

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 727

**DOSE:** 0.00500%CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042573

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: DILATATION      TGLs = 1-7-1

Stomach

Glandular

Cyst

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 111

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042574

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                            |                         |                           |
|-------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla | Bone                       | Bone Marrow             | Epididymis                |
| Esophagus               | Gallbladder                | Heart                   | Intestine Large - Cecum   |
| Intestine Large - Colon | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Lung                    | Lymph Node - Mandibular    | Nose                    | Pancreas                  |
| Parathyroid Gland       | Salivary Glands            | Skin                    | Stomach - Forestomach     |
| Testes                  | Thymus                     | Trachea                 | Urinary Bladder           |

**MISSING**

|                          |               |                 |
|--------------------------|---------------|-----------------|
| Intestine Large - Rectum | Mammary Gland | Pituitary Gland |
|--------------------------|---------------|-----------------|

**OBSERVATIONS**

|   |              |                        |                    |
|---|--------------|------------------------|--------------------|
| Adrenal Gland                                 | Cortex       | Hyperplasia            | Focal, Mild        |
| Brain   | Thalamus     | Mineralization         | Minimal            |
| Islets, Pancreatic                            |              | Hyperplasia            | Minimal            |
| Kidney  | Renal Tubule | Atrophy                | Mild               |
|   |              | Casts Protein          | Minimal            |
|   |              | Cyst                   |                    |
|   |              | Hyperplasia            | Lymphoid, Moderate |
|   |              | Mineralization         | Moderate           |
|   | Renal Tubule | Regeneration           | Mild               |
| Liver   |              | Clear Cell Focus       |                    |
|   |              | Hepatocellular Adenoma | Multiple, Three    |
| Note: HEPATOCELLULAR ADENOMA ALSO ON SLIDE 6. |              |                        |                    |
| Note: HEPATOCLR ADEN TGLs = 2-21,3-22         |              |                        |                    |
| Note: CLEAR CL FOCUS TGLs = 4-23              |              |                        |                    |
| Lymph Node                                    | Mesenteric   | Hemorrhage             | Mild               |
| Prostate                                      | Epithelium   | Hyperplasia            | Minimal            |
| Seminal Vesicle                               |              | Dilatation             | Moderate           |
| Note: DILATATION TGLs = 1-7                   |              |                        |                    |
| Spleen  |              | Angiectasis            | Mild               |
|   | Lymph Follic | Hyperplasia            | Mild               |
| Stomach                                       | Glandular    | Cyst                   |                    |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 111

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042574

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Thyroid Gland

Degeneration

Cystic, Minimal

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 112

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042575

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Nose                     | Pancreas                   | Parathyroid Gland       |
| Pituitary Gland           | Prostate                 | Seminal Vesicle            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Stomach - Glandular        | Testes                  |
| Thymus                    | Trachea                  | Urinary Bladder            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                      |                 |                        |                   |
|----------------------|-----------------|------------------------|-------------------|
| Adrenal Gland        | Capsule, Cortex | Hyperplasia            | Moderate          |
|                      | Cortex          | Hyperplasia            | Focal, Minimal    |
| Brain                | Thalamus        | Mineralization         | Minimal           |
| Coagulating Gland    |                 | Dilatation             | Moderate          |
| Note: DILATATION     | TGLs = 3-7      |                        |                   |
| Kidney               |                 | Cyst                   |                   |
|                      |                 | Mineralization         | Moderate          |
|                      | Renal Tubule    | Regeneration           | Mild              |
| Liver                |                 | Hepatocellular Adenoma |                   |
|                      | Kupffer Cell    | Hyperplasia            | Minimal           |
|                      | Lobules         | Necrosis               | Minimal           |
|                      | Kupffer Cell    | Pigmentation           | Minimal           |
| Note: HEPATOCLR ADEN | TGLs = 4-21     |                        |                   |
| Preputial Gland      |                 | Ectasia                | Marked            |
| Note: ECTASIA        | TGLs = 1-8      |                        |                   |
| Salivary Glands      |                 | Hyperplasia            | Lymphoid, Minimal |
| Thyroid Gland        | Follicular Cel  | Adenoma                |                   |
| Note: ADENOMA        | TGLs = 2-3      |                        |                   |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 112

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042575

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 113

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042576

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Epididymis              | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Lung                     | Lymph Node - Mandibular    | Nose                    | Pancreas                  |
| Parathyroid Gland        | Pituitary Gland            | Prostate                | Salivary Glands           |
| Seminal Vesicle          | Skin                       | Spleen                  | Stomach - Forestomach     |
| Testes                   | Trachea                    |                         |                           |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                    |                           |  |                            |
|--------------------|---------------------------|--|----------------------------|
| Adrenal Gland      | Capsule, Cortex<br>Cortex | Hyperplasia<br>Hyperplasia                     | Mild<br>Focal, Minimal     |
| Bone Marrow        |                           | Hypercellularity                               | Moderate                   |
| Brain              | Thalamus                  | Mineralization                                 | Minimal                    |
| Islets, Pancreatic |                           | Hyperplasia                                    | Moderate                   |
| Kidney             | Transit Epithe            | Cyst<br>Hyperplasia                            | Moderate                   |
|                    |                           | Hyperplasia                                    | Lymphoid, Minimal          |
|                    |                           | Metaplasia                                     | Osseous, Mild              |
|                    |                           | Mineralization                                 | Moderate                   |
|                    | Renal Tubule              | Regeneration                                   | Mild                       |
| Liver              | Lobules                   | Hyperplasia<br>Necrosis                        | Focal, Moderate<br>Minimal |
| Note: HYPERPLASIA  | TGLs = 2-21               |  |                            |
| Lymph Node         | Mesenteric<br>Mesenteric  | Hematopoietic Cell Proliferation<br>Hemorrhage | Minimal<br>Mild            |
| Stomach            | Glandular<br>Glandular    | Cyst<br>Inflammation                           | Subacute, Minimal          |
| Thymus             |                           | Depletion Cellular                             | Mild                       |
| Thyroid Gland      | Follicular Cel            | Adenoma  |                            |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 113

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042576

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: ADENOMA      TGLs = 1-3  
Tooth  
Urinary Bladder

Degeneration

Cystic, Marked

Dysplasia

Moderate

Hyperplasia

Lymphoid, Minimal

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 114

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 728

**DOSE:** 0.00500%CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042577

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                            |                         |                           |
|-------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla | Bone                       | Bone Marrow             | Epididymis                |
| Esophagus               | Gallbladder                | Heart                   | Intestine Large - Cecum   |
| Intestine Large - Colon | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic      | Lymph Node - Mandibular    | Lymph Node - Mesenteric | Nose                      |
| Pancreas                | Pituitary Gland            | Prostate                | Salivary Glands           |
| Skin                    | Spleen                     | Stomach - Forestomach   | Testes                    |
| Thymus                  | Thyroid Gland              | Trachea                 | Urinary Bladder           |

**MISSING**

|                          |               |
|--------------------------|---------------|
| Intestine Large - Rectum | Mammary Gland |
|--------------------------|---------------|

**OBSERVATIONS**

|                                       |                 |                                   |                 |
|---------------------------------------|-----------------|-----------------------------------|-----------------|
| Adrenal Gland                         | Cortex          | Accessory Adrenal Cortical Nodule |                 |
|                                       | Capsule, Cortex | Adenoma                           |                 |
| Brain                                 | Thalamus        | Mineralization                    | Minimal         |
| Coagulating Gland                     |                 | Dilatation                        | Marked          |
| Note: DILATATION TGLs = 2-7           |                 |                                   |                 |
| Kidney                                | Renal Tubule    | Mineralization                    | Moderate        |
|                                       |                 | Regeneration                      | Mild            |
| Liver                                 |                 | Clear Cell Focus                  |                 |
|                                       |                 | Hepatocellular Adenoma            | Multiple, Two   |
|                                       |                 | Hyperplasia                       | Focal, Moderate |
| Note: HEPATOCLR ADEN TGLs = 3-21,4-22 |                 |                                   |                 |
| Note: HYPERPLASIA TGLs = 5-23         |                 |                                   |                 |
| Lung                                  |                 | Hemorrhage                        | Minimal         |
| Parathyroid Gland                     |                 | Cyst                              |                 |
| Seminal Vesicle                       |                 | Dilatation                        | Marked          |
| Note: DILATATION TGLs = 1-7           |                 |                                   |                 |
| Stomach                               | Glandular       | Cyst                              |                 |
|                                       | Glandular       | Mineralization                    | Mild            |
| Tooth                                 |                 | Dysplasia                         | Mild            |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 114

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 728

**DOSE:** 0.00500%CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042577

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 115

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 726

**DOSE:** 0.00500%CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042578

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex   | Adrenal Gland - Medulla    | Bone                    | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Lung                     | Pancreas                   | Parathyroid Gland       | Pituitary Gland           |
| Prostate                 | Seminal Vesicle            | Skin                    | Stomach - Forestomach     |
| Stomach - Glandular      | Testes                     | Thymus                  | Thyroid Gland             |
| Trachea                  | Urinary Bladder            |                         |                           |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                    |              |                          |          |
|--------------------|--------------|--------------------------|----------|
| Bone Marrow        |              | Hypercellularity         | Mild     |
| Brain              | Thalamus     | Mineralization           | Mild     |
| Coagulating Gland  |              | Dilatation               | Moderate |
| Note: DILATATION   | TGLs = 3-7   |                          |          |
| Epididymis         |              | Lymphoma Malignant Mixed |          |
| Islets, Pancreatic |              | Hyperplasia              | Mild     |
| Kidney             | Renal Tubule | Atrophy                  | Moderate |
|                    |              | Mineralization           | Moderate |
|                    | Renal Tubule | Regeneration             | Mild     |
| Liver              |              | Lymphoma Malignant Mixed |          |
|                    | Lobules      | Necrosis                 | Minimal  |
| Lymph Node         | Iliac        | Lymphoma Malignant Mixed |          |
|                    | Inguinal     | Lymphoma Malignant Mixed |          |
|                    | Mandibular   | Lymphoma Malignant Mixed |          |
|                    | Mediastinal  | Lymphoma Malignant Mixed |          |
|                    | Mesenteric   | Lymphoma Malignant Mixed |          |
|                    | Pancreatic   | Lymphoma Malignant Mixed |          |
|                    | Renal        | Lymphoma Malignant Mixed |          |

Note: LYMPH MAL MIXD TGLs = 5-22

Note: LYMPH MAL MIXD TGLs = 6-23

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 115

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 726

**DOSE:** 0.00500%CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042578

**ORGAN AND ACCOUNTABLE SITE STATUS**

|                        |             |                                  |              |
|------------------------|-------------|----------------------------------|--------------|
| Note: LYMPH MAL MIXD   | TGLs = 7-24 |                                  |              |
| Note: LYMPH MAL MIXD   | TGLs = 8-2  |                                  |              |
| Note: LYMPH MAL MIXD   | TGLs = 1-8  |                                  |              |
| Note: LYMPH MAL MIXD   | TGLs = 4-21 |                                  |              |
| Nose                   |             | Exudate                          |              |
|                        | Glands      | Hyperplasia                      | Cystic, Mild |
| Salivary Glands        |             | Lymphoma Malignant Mixed         |              |
| Spleen                 |             | Hematopoietic Cell Proliferation | Mild         |
|                        |             | Lymphoma Malignant Mixed         |              |
| Note: LYMPH MAL MIXD   | TGLs = 9-6  |                                  |              |
| Note: HEMA CELL PROL   | TGLs = 9-6  |                                  |              |
| Tissue NOS             |             | Lymphoma Malignant Mixed         |              |
| Note: LYMPH MAL MIXD   | TGLs = 2-62 |                                  |              |
| Tooth                  |             | Dysplasia                        | Mild         |
| PRIMARY CAUSE OF DEATH | -           |                                  |              |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 116

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 490

**DOSE:** 0.00500%CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042579

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      |
| Lymph Node - Mandibular | Lymph Node - Mesenteric   | Nose                     | Pancreas                   |
| Parathyroid Gland       | Pituitary Gland           | Prostate                 | Salivary Glands            |
| Seminal Vesicle         | Skin                      | Stomach - Forestomach    | Stomach - Glandular        |
| Thyroid Gland           | Trachea                   | Urinary Bladder          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                     |                |                                |                    |
|-------------------------------------|----------------|--------------------------------|--------------------|
| Epididymis                          |                | Atypia Cellular                |                    |
| Kidney                              |                | Mineralization                 | Moderate           |
|                                     | Renal Tubule   | Regeneration                   | Mild               |
| Lung                                |                | Alveolar/Bronchiolar Carcinoma |                    |
|                                     | Alveolar Epith | Hyperplasia                    | Mild               |
|                                     |                | Infiltration Cellular          | Histiocyte, Marked |
| Note: INFILTRAT CELL TGLs = 4-2,5-2 |                |                                |                    |
| Note: [ ALV BRON CARC ] TGLs = 2    |                |                                |                    |
| Spleen                              |                | Angiectasis                    | Mild               |
|                                     | Lymph Follic   | Atrophy                        | Mild               |
| Testes                              |                | Congestion                     | Moderate           |
|                                     |                | Hemorrhage                     | Moderate           |
| Note: CONGESTION TGLs = 3-7         |                |                                |                    |
| Note: HEMORRHAGE TGLs = 3-7         |                |                                |                    |
| Thymus                              |                | Depletion Cellular             | Moderate           |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 117

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 727

**DOSE:** 0.00500%CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042580

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric | Nose                      |
| Pancreas                 | Parathyroid Gland          | Pituitary Gland         | Prostate                  |
| Seminal Vesicle          | Skin                       | Stomach - Forestomach   | Stomach - Glandular       |
| Testes                   | Thymus                     | Thyroid Gland           | Trachea                   |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                      |                  |                                   |                    |
|----------------------|------------------|-----------------------------------|--------------------|
| Adrenal Gland        | Cortex           | Accessory Adrenal Cortical Nodule |                    |
|                      | Cortex           | Hyperplasia                       | Focal, Minimal     |
| Brain                | Thalamus         | Mineralization                    | Mild               |
| Epididymis           |                  | Hyperplasia                       | Lymphoid, Moderate |
| Harderian Gland      |                  | Adenoma                           |                    |
| Note: ADENOMA        | TGLs = 4-23      |                                   |                    |
| Kidney               |                  | Casts Protein                     | Minimal            |
|                      |                  | Hyperplasia                       | Lymphoid, Moderate |
|                      | Renal Tubule     | Regeneration                      | Mild               |
| Liver                |                  | Hepatocellular Adenoma            |                    |
|                      |                  | Hepatocellular Carcinoma          | Multiple, Two      |
|                      | Lobules          | Necrosis                          | Minimal            |
| Note: HEPATOCLR CARC | TGLs = 1-21,2-22 |                                   |                    |
| Note: HEPATOCLR ADEN | TGLs = 1-21      |                                   |                    |
| Lung                 |                  | Alveolar/Bronchiolar Carcinoma    |                    |
|                      |                  | Congestion                        | Moderate           |
|                      |                  | Hemorrhage                        | Mild               |
|                      |                  | Hepatocellular Carcinoma          | Metastatic (Liver) |
| Note: ALV BRON CARC  | TGLs = 3-2       |                                   |                    |
| Salivary Glands      |                  | Hyperplasia                       | Lymphoid, Mild     |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 117

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 727

**DOSE:** 0.00500%CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042580

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Spleen

Hematopoietic Cell Proliferation

Mild

Urinary Bladder

Hyperplasia

Lymphoid, Minimal

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 118

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 734

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042581

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Nose                       | Pancreas                |
| Parathyroid Gland         | Pituitary Gland          | Prostate                   | Skin                    |
| Spleen                    | Stomach - Forestomach    | Stomach - Glandular        | Testes                  |
| Thyroid Gland             | Trachea                  | Urinary Bladder            |                         |

**MISSING**

|               |        |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

**OBSERVATIONS**

|                                  |              |                              |                      |
|----------------------------------|--------------|------------------------------|----------------------|
| Adrenal Gland                    | Cortex       | Hyperplasia                  | Focal, Mild          |
| Brain                            | Thalamus     | Mineralization               | Mild                 |
| Islets, Pancreatic               |              | Hyperplasia                  | Minimal              |
| Kidney                           |              | Casts Protein                | Minimal              |
|                                  |              | Cyst                         |                      |
|                                  | Renal Tubule | Hyperplasia                  | Focal, Moderate      |
|                                  |              | Mineralization               | Mild                 |
|                                  | Renal Tubule | Regeneration                 | Mild                 |
| Note: [ HYPERPLASIA ] TGLs = 5   |              |                              |                      |
| Liver                            |              | Hepatocellular Adenoma       |                      |
|                                  |              | Hepatocellular Carcinoma     |                      |
|                                  |              | Hyperplasia                  | Focal, Moderate      |
| Note: HEPATOCLR ADEN TGLs = 5-22 |              |                              |                      |
| Note: HYPERPLASIA TGLs = 5-22    |              |                              |                      |
| Note: HEPATOCLR CARC TGLs = 2-21 |              |                              |                      |
| Lung                             |              | Alveolar/Bronchiolar Adenoma |                      |
|                                  |              | Infiltration Cellular        | Histiocyte, Moderate |
| Note: ALV BRON ADEN TGLs = 3-2   |              |                              |                      |
| Lymph Node                       | Mesenteric   | Hemorrhage                   | Minimal              |
| Salivary Glands                  |              | Hyperplasia                  | Lymphoid, Minimal    |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 118

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 734

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042581

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Seminal Vesicle

Dilatation

Marked

Note: DILATATION TGLs = 1-7

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 119 | <b>TRT#:</b> 13               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 734 |
|                       | <b>DOSE:</b> 0.00500%CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042582 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex     | Adrenal Gland - Medulla | Bone                      | Bone Marrow              |
| Brain                      | Epididymis              | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Lung                       | Lymph Node - Mandibular | Nose                      | Pancreas                 |
| Parathyroid Gland          | Pituitary Gland         | Prostate                  | Seminal Vesicle          |
| Skin                       | Stomach - Forestomach   | Stomach - Glandular       | Testes                   |
| Thymus                     | Thyroid Gland           | Trachea                   | Urinary Bladder          |

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

|   |              |   |                         |
|---|--------------|---|-------------------------|
| Kidney  | Renal Tubule | Atrophy<br>Cyst<br>Mineralization                     | Mild<br><br>Mild        |
| Liver   | Renal Tubule | Regeneration<br>Hepatocellular Adenoma<br>Hyperplasia | Mild<br><br>Focal, Mild |
| Note: HEPATOCLR ADEN TGLs = 3-22<br>Note: HYPERPLASIA TGLs = 1-21 |              |   |                         |
| Lymph Node  | Mesenteric   | Hemorrhage  | Mild                    |
| Salivary Glands   |              | Hyperplasia   | Lymphoid, Mild          |
| Spleen  | Lymph Follic | Hyperplasia   | Mild                    |
| Note: HYPERPLASIA TGLs = 2-6                                      |              |   |                         |

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 120

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 558

**DOSE:** 0.00500%CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042583

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Epididymis  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mesenteric  
Prostate  
Stomach - Glandular  
Urinary Bladder

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Nose  
Seminal Vesicle  
Testes

Bone  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Pancreas  
Skin  
Thyroid Gland

Bone Marrow  
Heart  
Intestine Small - Duodenum  
Lung  
Parathyroid Gland  
Stomach - Forestomach  
Trachea

**MISSING**

Mammary Gland

Pituitary Gland

**INSUFFICIENT TISSUE**

Lymph Node - Mandibular

**OBSERVATIONS**

Brain  
Kidney

Thalamus

Mineralization  
Casts Protein

Moderate  
Moderate

Liver

Renal Tubule

Regeneration  
Hepatocellular Carcinoma

Moderate

Note: HEPATOCLR CARC TGLs = 1-21

Salivary Glands  
Spleen  
Thymus

Hyperplasia  
Hematopoietic Cell Proliferation  
Depletion Cellular

Lymphoid, Minimal  
Moderate  
Marked

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 121

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 734

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042584

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Pancreas                |
| Parathyroid Gland         | Pituitary Gland          | Prostate                   | Skin                    |
| Stomach - Forestomach     | Testes                   | Trachea                    |                         |

**MISSING**

|               |        |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

**OBSERVATIONS**

|                      |                  |                          |                   |
|----------------------|------------------|--------------------------|-------------------|
| Adrenal Gland        | Capsule, Cortex  | Hyperplasia              | Mild              |
|                      | Cortex           | Hyperplasia              | Focal, Minimal    |
| Brain                | Thalamus         | Mineralization           | Mild              |
| Coagulating Gland    |                  | Dilatation               | Marked            |
| Note: DILATATION     | TGLs = 2-7-1     |                          |                   |
| Islets, Pancreatic   |                  | Hyperplasia              | Mild              |
| Kidney               |                  | Casts Protein            | Minimal           |
|                      |                  | Cyst                     |                   |
|                      |                  | Lymphoma Malignant Mixed |                   |
|                      |                  | Mineralization           | Moderate          |
|                      | Renal Tubule     | Regeneration             | Mild              |
| Note: LYMPH MAL MIXD | TGLs = 3-21      |                          |                   |
| Liver                |                  | Clear Cell Focus         |                   |
|                      |                  | Hyperplasia              | Lymphoid, Minimal |
|                      |                  | Hyperplasia              | Focal, Moderate   |
|                      |                  | Mixed Cell Focus         |                   |
| Note: HYPERPLASIA    | TGLs = 5-23      |                          |                   |
| Note: CLEAR CL FOCUS | TGLs = 4-22,5-23 |                          |                   |
| Note: MIXED CL FOCUS | TGLs = 5-23      |                          |                   |
| Lung                 |                  | Hyperplasia              | Lymphoid, Mild    |
| Nose                 | Glands           | Hyperplasia              | Cystic, Minimal   |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 121 | <b>TRT#:</b> 13               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 734 |
|                       | <b>DOSE:</b> 0.00500%CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042584 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                  |              |              |                   |
|------------------|--------------|--------------|-------------------|
| Salivary Glands  |              | Hyperplasia  | Lymphoid, Minimal |
| Seminal Vesicle  |              | Dilatation   | Marked            |
| Note: DILATATION | TGLs = 1-7-1 |              |                   |
| Spleen           | Lymph Follic | Hyperplasia  | Mild              |
| Stomach          | Glandular    | Metaplasia   | Squamous, Minimal |
| Thyroid Gland    |              | Degeneration | Cystic, Minimal   |
| Tooth            |              | Dysplasia    | Marked            |
| Urinary Bladder  |              | Hyperplasia  | Lymphoid, Minimal |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 122

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 734

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042585

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Nose                     | Pancreas                   | Parathyroid Gland       |
| Prostate                  | Salivary Glands          | Seminal Vesicle            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Testes                     | Thymus                  |
| Trachea                   | Urinary Bladder          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                  |                 |                        |               |
|----------------------------------|-----------------|------------------------|---------------|
| Adrenal Gland                    | Capsule, Cortex | Hyperplasia            | Moderate      |
| Brain                            | Thalamus        | Mineralization         | Moderate      |
| Kidney                           |                 | Cyst                   |               |
|                                  |                 | Mineralization         | Mild          |
|                                  | Renal Tubule    | Regeneration           | Mild          |
| Liver                            |                 | Clear Cell Focus       |               |
|                                  |                 | Hepatocellular Adenoma | Multiple, Two |
|                                  |                 | Hyperplasia            | Focal, Mild   |
| Note: HEPATOCLR ADEN TGLs = 1-21 |                 |                        |               |
| Note: CLEAR CL FOCUS TGLs = 1-21 |                 |                        |               |
| Note: HYPERPLASIA TGLs = 1-21    |                 |                        |               |
| Pituitary Gland                  | Pars Distalis   | Cyst                   |               |
| Stomach                          | Glandular       | Cyst                   |               |
|                                  | Glandular       | Mineralization         | Minimal       |
| Thyroid Gland                    |                 | Degeneration           | Cystic, Mild  |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 123

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 734

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042586

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Nose                      | Pancreas                 | Parathyroid Gland          | Prostate                |
| Skin                      | Stomach - Forestomach    | Stomach - Glandular        | Testes                  |
| Thymus                    | Thyroid Gland            | Trachea                    | Urinary Bladder         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|  |                 |                        |                    |
|--|-----------------|------------------------|--------------------|
| Adrenal Gland  | Capsule, Cortex | Adenoma                |                    |
| Brain  | Thalamus        | Mineralization         | Mild               |
| Islets, Pancreatic   |                 | Hyperplasia            | Moderate           |
| Kidney   | Renal Tubule    | Atrophy                | Mild               |
|  |                 | Casts Protein          | Mild               |
|  |                 | Glomerulosclerosis     | Minimal            |
|  |                 | Hydronephrosis         | Mild               |
|  |                 | Hyperplasia            | Lymphoid, Moderate |
|  |                 | Mineralization         | Minimal            |
|  | Renal Tubule    | Regeneration           | Marked             |
| Note: HYPERPLASIA TGLs = 3-5,7-5<br>Note: REGENERATION TGLs = 3-5,7-5<br>[ Atrophy TGLs = 10-5 ]<br>[ Casts Protein TGLs = 3-5,7-5 ] |                 |                        |                    |
| Liver  |                 | Hepatocellular Adenoma | Multiple, Two      |
|  |                 | Hyperplasia            | Focal, Mild        |
| Note: [ HEPATOCLR ADEN ] TGLs = 22,23,6  |                 |                        |                    |
| Mesentery  | Fat             | Necrosis               | Moderate           |
| Note: NECROSIS TGLs = 4-21   |                 |                        |                    |
| Pituitary Gland  | Pars Distalis   | Cyst                   |                    |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 123

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 734

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042586

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Salivary Glands

Hyperplasia

Lymphoid, Minimal

Seminal Vesicle

Dilatation

Mild

Note: DILATATION TGLs = 8-7-1

Spleen

Hematopoietic Cell Proliferation

Minimal

Tooth

Dysplasia

Moderate

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 124

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 686

**DOSE:** 0.00500%CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042587

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Epididymis                |
| Esophagus                | Gallbladder                | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Lung                     | Lymph Node - Mandibular    | Lymph Node - Mesenteric | Nose                      |
| Pancreas                 | Parathyroid Gland          | Pituitary Gland         | Prostate                  |
| Salivary Glands          | Skin                       | Spleen                  | Stomach - Forestomach     |
| Stomach - Glandular      | Testes                     | Thymus                  | Trachea                   |
| Urinary Bladder          |                            |                         |                           |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                    |                  |                  |                 |
|--------------------|------------------|------------------|-----------------|
| Adrenal Gland      | Cortex           | Clear Cell Focus |                 |
|                    | Cortex           | Hyperplasia      | Focal, Minimal  |
| Brain              | Thalamus         | Mineralization   | Moderate        |
| Heart              |                  | Hemangiosarcoma  |                 |
| Note: HEMANGIOSARC | TGLs = 2-5,2-5-1 |                  |                 |
| Islets, Pancreatic |                  | Hyperplasia      | Mild            |
| Kidney             |                  | Cyst             |                 |
|                    |                  | Mineralization   | Mild            |
|                    | Renal Tubule     | Regeneration     | Mild            |
| Liver              |                  | Basophilic Focus |                 |
| Note: BASOPH FOCUS | TGLs = 3-21      |                  |                 |
| Seminal Vesicle    |                  | Dilatation       | Mild            |
| Note: DILATATION   | TGLs = 1-7-1     |                  |                 |
| Thyroid Gland      |                  | Degeneration     | Cystic, Minimal |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 125 | <b>TRT#:</b> 13               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 736 |
|                       | <b>DOSE:</b> 0.00500%CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042588 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Salivary Glands          | Seminal Vesicle            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Stomach - Glandular        | Testes                  |
| Thymus                    | Thyroid Gland            | Trachea                    | Urinary Bladder         |

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

|  |                 |                        |                |
|--|-----------------|------------------------|----------------|
| Adrenal Gland                              | Cortex          | Clear Cell Focus       |                |
|  | Capsule, Cortex | Hyperplasia            | Mild           |
| Brain                                      | Thalamus        | Mineralization         | Mild           |
| Kidney                                     |                 | Casts Protein          | Minimal        |
|  |                 | Cyst                   |                |
|  |                 | Mineralization         | Moderate       |
|  | Renal Tubule    | Regeneration           | Moderate       |
| Liver                                      |                 | Hepatocellular Adenoma | Four, Multiple |
| Note: HEPATOCLR ADEN TGLs = 1-21,2-22,3-23 |                 |                        |                |
| Note: TWO ADENOMAS ON SLIDE 23             |                 |                        |                |
| Lymph Node                                 | Mesenteric      | Hemorrhage             | Mild           |

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 126

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 698

**DOSE:** 0.00500%CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042589

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                         |                          |                            |
|-------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Medulla | Bone                    | Bone Marrow              | Brain                      |
| Epididymis              | Esophagus               | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Lung                    | Lymph Node - Mandibular  | Nose                       |
| Pancreas                | Parathyroid Gland       | Pituitary Gland          | Prostate                   |
| Salivary Glands         | Skin                    | Stomach - Forestomach    | Stomach - Glandular        |
| Testes                  | Trachea                 | Urinary Bladder          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                 |              |                                   |                     |
|---------------------------------|--------------|-----------------------------------|---------------------|
| Adrenal Gland                   | Cortex       | Accessory Adrenal Cortical Nodule |                     |
| Intestine Small                 | Jejunum      | Hemangiosarcoma                   |                     |
| Note: HEMANGIOSARC TGLs = 4-21  |              |                                   |                     |
| Islets, Pancreatic              |              | Hyperplasia                       | Minimal             |
| Kidney                          |              | Cyst                              |                     |
|                                 |              | Glomerulosclerosis                | Minimal             |
|                                 | Renal Tubule | Regeneration                      | Minimal             |
| Liver                           |              | Hepatocellular Adenoma            |                     |
|                                 |              | Hepatocellular Carcinoma          |                     |
|                                 | Kupffer Cell | Hyperplasia                       | Mild                |
|                                 | Lobules      | Necrosis                          | Mild                |
|                                 | Kupffer Cell | Pigmentation                      | Mild                |
| [ Hyperplasia TGLs = 7-23 ]     |              |                                   |                     |
| [ Necrosis TGLs = 5-22 ]        |              |                                   |                     |
| Lymph Node                      | Mediastinal  | Hematopoietic Cell Proliferation  | Minimal             |
|                                 | Mesenteric   | Hyperplasia                       | Plasma Cell, Marked |
| Note: HEMA CELL PROL TGLs = 6-2 |              |                                   |                     |
| Note: HYPERPLASIA TGLs = 8-5    |              |                                   |                     |
| Seminal Vesicle                 |              | Dilatation                        | Moderate            |
| Note: DILATATION TGLs = 2-7     |              |                                   |                     |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 126 | <b>TRT#:</b> 13               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 698 |
|                       | <b>DOSE:</b> 0.00500%CHLORAMI | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87042589 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|   |                                  |              |
|---|----------------------------------|--------------|
| Spleen<br>Note: HEMA CELL PROL TGLs = 3-6 | Hematopoietic Cell Proliferation | Marked       |
| Thymus                                    | Depletion Cellular               | Moderate     |
| Thyroid Gland                             | Degeneration                     | Cystic, Mild |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 127      **TRT#:** 13      **SEX:** Male      **DAY ON TEST:** 686  
**DOSE:** 0.00500%CHLORAMI      **DISP:** Moribund Sacrifice      **HISTO:** A87042590

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Brain                   |
| Epididymis                | Esophagus                | Gallbladder                | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Nose                    |
| Parathyroid Gland         | Pituitary Gland          | Prostate                   | Salivary Glands         |
| Seminal Vesicle           | Skin                     | Stomach - Forestomach      | Stomach - Glandular     |
| Testes                    | Trachea                  | Urinary Bladder            |                         |

**MISSING**

Mammary Gland      Thymus

**OBSERVATIONS**

|   |            |                                   |                    |
|---|------------|-----------------------------------|--------------------|
| Adrenal Gland                                   | Cortex     | Accessory Adrenal Cortical Nodule |                    |
|   | Cortex     | Hyperplasia                       | Focal, Minimal     |
| Heart   | Myocardium | Mineralization                    | Mild               |
| Kidney  |            | Casts Protein                     | Minimal            |
|   |            | Hyperplasia                       | Lymphoid, Mild     |
|   |            | Mineralization                    | Minimal            |
| Liver   |            | Hepatocellular Carcinoma          |                    |
|   | Lobules    | Necrosis                          | Mild               |
| Note: HEPATOCLR CARC    TGLs = 2-21             |            |                                   |                    |
| Lung  |            | Alveolar/Bronchiolar Carcinoma    |                    |
|   |            | Hepatocellular Carcinoma          | Metastatic (Liver) |
|   |            | Infiltration Cellular             | Histiocyte, Marked |
| [ Alveolar/Bronchiolar Carcinoma TGLS = 5-2-2 ] |            |                                   |                    |
| [ Infiltration Cellular TGLS = 4-2-1 ]          |            |                                   |                    |
| Lymph Node                                      | Mesenteric | Hemorrhage                        | Minimal            |
| Note: HEMORRHAGE      TGLs = 3-5                |            |                                   |                    |
| Pancreas  |            | Atrophy                           | Minimal            |
| Spleen  |            | Hematopoietic Cell Proliferation  | Moderate           |
| Note: HEMA CELL PROL    TGLs = 1-6              |            |                                   |                    |
| Thyroid Gland                                   |            | Degeneration                      | Cystic, Minimal    |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 127

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 686

**DOSE:** 0.00500%CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042590

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 128

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 698

**DOSE:** 0.00500%CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042591

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       |
| Lymph Node - Mandibular | Lymph Node - Mesenteric   | Nose                     | Pancreas                   |
| Parathyroid Gland       | Pituitary Gland           | Prostate                 | Salivary Glands            |
| Seminal Vesicle         | Skin                      | Stomach - Forestomach    | Stomach - Glandular        |
| Thyroid Gland           | Trachea                   | Urinary Bladder          |                            |

**MISSING**

|               |        |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

**OBSERVATIONS**

|                                       |              |                          |                   |
|---------------------------------------|--------------|--------------------------|-------------------|
| Brain                                 | Thalamus     | Mineralization           | Mild              |
| Kidney                                | Renal Tubule | Atrophy                  | Marked            |
|                                       |              | Casts Protein            | Marked            |
|                                       |              | Hydronephrosis           | Mild              |
|                                       |              | Hyperplasia              | Lymphoid, Mild    |
|                                       | Renal Tubule | Regeneration             | Moderate          |
| Note: HYDRONEPHROSIS TGLs = 4-5,4-5-1 |              |                          |                   |
| Liver                                 |              | Hepatocellular Carcinoma | Multiple, Two     |
| Note: HEPATOCLR CARC TGLs = 2-21,3-22 |              |                          |                   |
| Spleen                                |              | Pigmentation             | Hemosiderin, Mild |
| Note: PIGMENT TGLs = 5-6              |              |                          |                   |
| Testes                                | Seminif Tub  | Atrophy                  | Minimal           |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 129

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 652

**DOSE:** 0.00500%CHLORAMI

**DISP:** Natural Death

**HISTO:** A87042592

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Brain                      | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      | Nose                    |
| Pancreas                  | Parathyroid Gland        | Pituitary Gland            | Prostate                |
| Salivary Glands           | Seminal Vesicle          | Skin                       | Spleen                  |
| Stomach - Forestomach     | Testes                   | Trachea                    | Urinary Bladder         |

**MISSING**

|                         |               |
|-------------------------|---------------|
| Lymph Node - Mandibular | Mammary Gland |
|-------------------------|---------------|

**OBSERVATIONS**

|                                      |                 |                                |                   |
|--------------------------------------|-----------------|--------------------------------|-------------------|
| Adrenal Gland                        | Capsule, Cortex | Adenoma                        |                   |
| Bone Marrow                          |                 | Hypercellularity               | Mild              |
| Kidney                               |                 | Mineralization                 | Minimal           |
|                                      | Renal Tubule    | Regeneration                   | Mild              |
| Lung                                 |                 | Alveolar/Bronchiolar Carcinoma |                   |
| Note: ALV BRON CARC TGLs = 4-2,4-2-1 |                 |                                |                   |
| Lymph Node                           | Mediastinal     | Alveolar/Bronchiolar Carcinoma | Metastatic (Lung) |
|                                      | Mesenteric      | Hemorrhage                     | Minimal           |
| Mesentery                            |                 | Alveolar/Bronchiolar Carcinoma | Metastatic (Lung) |
| Note: ALV BRON CARC TGLs = 3-21      |                 |                                |                   |
| Preputial Gland                      |                 | Ectasia                        | Marked            |
| Note: ECTASIA TGLs = 1-8             |                 |                                |                   |
| Stomach                              | Glandular       | Alveolar/Bronchiolar Carcinoma | Metastatic (Lung) |
| Note: ALV BRON CARC TGLs = 6-4-1     |                 |                                |                   |
| Thymus                               |                 | Depletion Cellular             | Moderate          |
| Thyroid Gland                        | Follicle        | Cyst                           |                   |
|                                      |                 | Degeneration                   | Cystic, Minimal   |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 130

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042593

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Salivary Glands          | Seminal Vesicle            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Stomach - Glandular        | Testes                  |
| Thyroid Gland             | Trachea                  | Urinary Bladder            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                          |                       |                        |                   |
|--------------------------|-----------------------|------------------------|-------------------|
| Adrenal Gland            | Capsule, Cortex       | Hyperplasia            | Mild              |
|                          | Cortex                | Hyperplasia            | Focal, Minimal    |
| Brain                    | Thalamus              | Mineralization         | Minimal           |
| Islets, Pancreatic       |                       | Adenoma                |                   |
| Kidney                   | Renal Tubule          | Atrophy                | Mild              |
|                          |                       | Hyperplasia            | Lymphoid, Minimal |
|                          |                       | Mineralization         | Mild              |
|                          | Renal Tubule          | Regeneration           | Mild              |
| Liver                    |                       | Hepatocellular Adenoma | Multiple, Two     |
|                          |                       | Hyperplasia            | Focal, Moderate   |
| Note: HYPERPLASIA        | TGLs = 1-21,2-22,3-23 |                        |                   |
| Note: [ HEPATOCLR ADEN ] | TGLs = 22,23          |                        |                   |
| Thymus                   |                       | Cyst                   |                   |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 136

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0.00500%CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** A86037707

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**OBSERVATIONS**

Kidney

Renal Tubule

Dilatation

Minimal

Mineralization

Moderate

Renal Tubule

Regeneration

Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 137

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 457

**DOSE:** 0.00500%CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** A86037708

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**OBSERVATIONS**

|                 |              |                |               |
|-----------------|--------------|----------------|---------------|
| Kidney          | Renal Tubule | Dilatation     | Minimal       |
|                 |              | Mineralization | Moderate      |
| Urinary Bladder | Renal Tubule | Regeneration   | Moderate      |
|                 |              | Hemangioma     |               |
|                 | Mucosa       | Hyperplasia    | Minimal       |
|                 |              | Inflammation   | Chronic, Mild |

Note: HEMANGIOMA TGLs = 1-8-1

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PRIMARY CAUSE OF DEATH

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-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 138

**TRT#:** 13  
**DOSE:** 0.00500%CHLORAMI

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:** 455  
**HISTO:** A86037709

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**OBSERVATIONS**

|                |              |                |                  |
|----------------|--------------|----------------|------------------|
| Kidney         | Renal Tubule | Dilatation     | Minimal          |
|                |              | Inflammation   | Chronic, Minimal |
|                |              | Mineralization | Mild             |
|                | Renal Tubule | Regeneration   | Mild             |
| Mesentery      | Fat          | Necrosis       | Mild             |
| Note: NECROSIS | TGLs = 1-21  |                |                  |

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 139

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 457

**DOSE:** 0.00500%CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** A86037710

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**OBSERVATIONS**

Kidney

Renal Tubule

Dilatation

Minimal

Mineralization

Minimal

Renal Tubule

Regeneration

Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 140

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 455

**DOSE:** 0.00500%CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** A86037711

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Lung

**OBSERVATIONS**

|                  |              |                |                  |
|------------------|--------------|----------------|------------------|
| Kidney           | Renal Tubule | Dilatation     | Mild             |
|                  |              | Inflammation   | Chronic, Minimal |
|                  |              | Mineralization | Mild             |
|                  | Renal Tubule | Regeneration   | Mild             |
| Seminal Vesicle  |              | Dilatation     | Mild             |
| Note: DILATATION | TGLs = 1-7   |                |                  |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 141 | <b>TRT#:</b> 17               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 737 |
|                       | <b>DOSE:</b> 0.0275% CHLORINE | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042402 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Mammary Gland             | Nose                     | Pancreas                   | Parathyroid Gland       |
| Pituitary Gland           | Prostate                 | Seminal Vesicle            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Stomach - Glandular        | Testes                  |
| Thymus                    | Thyroid Gland            | Trachea                    | Urinary Bladder         |

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**OBSERVATIONS**

|                                  |              |                        |                   |
|----------------------------------|--------------|------------------------|-------------------|
| Adrenal Gland                    | Cortex       | Hyperplasia            | Focal, Mild       |
| Brain                            | Thalamus     | Mineralization         | Mild              |
| Kidney                           |              | Cyst                   |                   |
|                                  |              | Hyperplasia            | Lymphoid, Minimal |
|                                  |              | Mineralization         | Mild              |
|                                  | Renal Tubule | Regeneration           | Mild              |
| Liver                            |              | Clear Cell Focus       |                   |
|                                  |              | Hepatocellular Adenoma |                   |
|                                  | Lobules      | Necrosis               | Minimal           |
| Note: HEPATOCLR ADEN TGLs = 2-22 |              |                        |                   |
| Lymph Node                       | Mesenteric   | Hemorrhage             | Minimal           |
| Preputial Gland                  |              | Ectasia                | Moderate          |
|                                  |              | Inflammation           | Chronic, Mild     |
| Note: ECTASIA TGLs = 1-21        |              |                        |                   |
| Salivary Glands                  |              | Hyperplasia            | Lymphoid, Minimal |

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 142

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 694

**DOSE:** 0.0275% CHLORINE

**DISP:** Natural Death

**HISTO:** A87042403

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                         |
|--------------------------|----------------------------|-------------------------|-------------------------|
| Adrenal Gland - Cortex   | Adrenal Gland - Medulla    | Bone                    | Epididymis              |
| Esophagus                | Gallbladder                | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Nose                    |
| Parathyroid Gland        | Pituitary Gland            | Seminal Vesicle         | Skin                    |
| Trachea                  |                            |                         |                         |

**MISSING**

Mammary Gland

**AUTO PRECLUDES DIAG.**

Intestine Small - Jejunum

**OBSERVATIONS**

|   |              |                          |          |
|---|--------------|--------------------------|----------|
| Bone Marrow                               |              | Lymphoma Malignant Mixed |          |
| Brain                                     |              | Lymphoma Malignant Mixed |          |
|   | Thalamus     | Mineralization           | Mild     |
| Heart                                     |              | Lymphoma Malignant Mixed |          |
| Islets, Pancreatic                        |              | Hyperplasia              | Moderate |
| Note: HYPERPLASIA ON SLIDE 5              |              |                          |          |
| Kidney                                    | Renal Tubule | Dilatation               | Moderate |
|   |              | Lymphoma Malignant Mixed |          |
|   |              | Mineralization           | Mild     |
| Note: [ LYMPH MAL MIXD ] TGLs = 8         |              |                          |          |
| Liver                                     |              | Basophilic Focus         |          |
|   |              | Lymphoma Malignant Mixed |          |
| Note: BASOPH FOCUS TGLs = 10-24           |              |                          |          |
| Note: [ LYMPH MAL MIXD ] TGLs = 6-6,11-25 |              |                          |          |
| Lung                                      |              | Lymphoma Malignant Mixed |          |
| Note: [ LYMPH MAL MIXD ] TGLs = 7-2       |              |                          |          |
| Lymph Node                                | Iliac        | Lymphoma Malignant Mixed |          |
|   | Inguinal     | Lymphoma Malignant Mixed |          |
|   | Mandibular   | Lymphoma Malignant Mixed |          |
|   | Mediastinal  | Lymphoma Malignant Mixed |          |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 142

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 694

**DOSE:** 0.0275% CHLORINE

**DISP:** Natural Death

**HISTO:** A87042403

**ORGAN AND ACCOUNTABLE SITE STATUS**

Mesenteric Lymphoma Malignant Mixed  
Pancreatic Lymphoma Malignant Mixed  
Renal Lymphoma Malignant Mixed

Note: [ LYMPH MAL MIXD ] TGLs = 2-8  
Note: [ LYMPH MAL MIXD ] TGLs = 4-21  
Note: [ LYMPH MAL MIXD ] TGLs = 1-8  
Note: [ LYMPH MAL MIXD ] TGLs = 8-22  
Note: [ LYMPH MAL MIXD ] TGLs = 9-23

Pancreas Lymphoma Malignant Mixed

Note: LYMPHOMA ON SLIDE 5  
Note: LEUKEMIA ON SLIDE 5

Prostate Lymphoma Malignant Mixed

Salivary Glands Lymphoma Malignant Mixed

Spleen Lymphoma Malignant Mixed

Note: [ LYMPH MAL MIXD ] TGLs = 5-6

Stomach Forestomach Lymphoma Malignant Mixed

Glandular Lymphoma Malignant Mixed

Testes Lymphoma Malignant Mixed

Thymus Lymphoma Malignant Mixed

Thyroid Gland Degeneration Cystic, Mild

Tissue NOS Lymphoma Malignant Mixed

Note: [ LYMPH MAL MIXD ] TGLs = 3-63

Urinary Bladder Lymphoma Malignant Mixed

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 143

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042404

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Nose                    |
| Pancreas                  | Parathyroid Gland        | Pituitary Gland            | Prostate                |
| Salivary Glands           | Seminal Vesicle          | Skin                       | Spleen                  |
| Stomach - Forestomach     | Stomach - Glandular      | Testes                     | Thymus                  |
| Trachea                   | Urinary Bladder          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|  |              |                                |                    |
|--|--------------|--------------------------------|--------------------|
| Adrenal Gland                          | Cortex       | Clear Cell Focus               |                    |
| Brain                                  | Thalamus     | Mineralization                 | Moderate           |
| Kidney                                 |              | Cyst                           |                    |
|  |              | Mineralization                 | Mild               |
|  | Renal Tubule | Regeneration                   | Minimal            |
| Liver                                  |              | Hepatocellular Adenoma         | Multiple, Two      |
| Note: [ HEPATOCLR ADEN ] TGLs = 6,21   |              |                                |                    |
| Lung                                   |              | Alveolar/Bronchiolar Carcinoma | Multiple, Three    |
|  |              | Infiltration Cellular          | Histiocyte, Marked |
| Note: ALV BRON CARC TGLs = 3-2,4-2,5-2 |              |                                |                    |
| Lymph Node                             | Mesenteric   | Hemorrhage                     | Minimal            |
| Note: HEMORRHAGE TGLs = 1-5            |              |                                |                    |
| Thyroid Gland                          |              | Degeneration                   | Cystic, Minimal    |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 144

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042405

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Epididymis              | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Liver                      | Lymph Node - Mandibular | Nose                      |
| Pancreas                 | Parathyroid Gland          | Pituitary Gland         | Prostate                  |
| Salivary Glands          | Seminal Vesicle            | Skin                    | Spleen                    |
| Stomach - Forestomach    | Stomach - Glandular        | Testes                  | Thyroid Gland             |
| Urinary Bladder          |                            |                         |                           |

**MISSING**

|               |        |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

**OBSERVATIONS**

|                                  |              |                              |                   |
|----------------------------------|--------------|------------------------------|-------------------|
| Adrenal Gland                    | Cortex       | Hyperplasia                  | Focal, Minimal    |
| Bone Marrow                      |              | Hypercellularity             | Moderate          |
| Brain                            |              | Metaplasia                   | Osseous, Minimal  |
|                                  | Thalamus     | Mineralization               | Mild              |
| Kidney                           |              | Casts Protein                | Minimal           |
|                                  |              | Cyst                         |                   |
|                                  |              | Mineralization               | Mild              |
|                                  | Renal Tubule | Regeneration                 | Mild              |
| Lung                             |              | Alveolar/Bronchiolar Adenoma |                   |
|                                  |              | Hyperplasia                  | Lymphoid, Minimal |
| Note: ALV BRON ADEN TGLs = 1-2-1 |              |                              |                   |
| Lymph Node                       | Mesenteric   | Hemorrhage                   | Moderate          |
| Trachea                          |              | Inflammation                 | Suppurative, Mild |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 145

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042406

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Seminal Vesicle          | Skin                       | Spleen                  |
| Stomach - Forestomach     | Testes                   | Trachea                    | Urinary Bladder         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                  |                 |                        |                   |
|----------------------------------|-----------------|------------------------|-------------------|
| Adrenal Gland                    | Cortex          | Adenoma                |                   |
|                                  | Capsule, Cortex | Hyperplasia            | Focal, Moderate   |
|                                  | Cortex          | Hyperplasia            | Focal, Mild       |
| Note: [ HYPERPLASIA ] TGLs = 10  |                 |                        |                   |
| Brain                            | Thalamus        | Mineralization         | Minimal           |
| Kidney                           | Renal Tubule    | Dilatation             | Minimal           |
|                                  |                 | Hyperplasia            | Lymphoid, Minimal |
|                                  |                 | Mineralization         | Moderate          |
|                                  | Renal Tubule    | Regeneration           | Mild              |
| Liver                            |                 | Hepatocellular Adenoma | Multiple, Two     |
| Note: HEPATOCLR ADEN TGLs = 1-21 |                 |                        |                   |
| Lymph Node                       | Mesenteric      | Hemorrhage             | Minimal           |
| Salivary Glands                  |                 | Hyperplasia            | Lymphoid, Mild    |
| Stomach                          | Glandular       | Cyst                   |                   |
| Thymus                           |                 | Cyst                   |                   |
| Thyroid Gland                    |                 | Degeneration           | Cystic, Mild      |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 146 | <b>TRT#:</b> 17               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 737 |
|                       | <b>DOSE:</b> 0.0275% CHLORINE | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042407 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Liver                    | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Seminal Vesicle          | Skin                       | Spleen                  |
| Stomach - Glandular       | Testes                   | Thymus                     | Thyroid Gland           |
| Trachea                   | Urinary Bladder          |                            |                         |

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

|  |                 |                |                   |
|--|-----------------|----------------|-------------------|
| Adrenal Gland                                      | Capsule, Cortex | Hyperplasia    | Moderate          |
|  | Cortex          | Hyperplasia    | Focal, Moderate   |
| Brain  | Thalamus        | Mineralization | Mild              |
| Islets, Pancreatic                                 |                 | Hyperplasia    | Minimal           |
| Kidney   |                 | Cyst           |                   |
|  | Renal Tubule    | Dilatation     | Minimal           |
|  |                 | Granuloma      | Minimal           |
|  |                 | Hyperplasia    | Lymphoid, Mild    |
|  |                 | Mineralization | Moderate          |
|  | Renal Tubule    | Regeneration   | Mild              |
| Note: GRANULOMA CONTAINS MINERAL-LIKE CONCRETIONS. |                 |                |                   |
| Nose   | Glands          | Hyperplasia    | Cystic, Minimal   |
| Salivary Glands                                    |                 | Hyperplasia    | Lymphoid, Minimal |
| Stomach  | Forestomach     | Diverticulum   | Minimal           |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 147

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 587

**DOSE:** 0.0275% CHLORINE

**DISP:** Natural Death

**HISTO:** A87042408

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                         |                          |
|----------------------------|-------------------------|-------------------------|--------------------------|
| Adrenal Gland - Cortex     | Adrenal Gland - Medulla | Bone                    | Bone Marrow              |
| Brain                      | Epididymis              | Esophagus               | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Lung                    | Lymph Node - Mandibular | Lymph Node - Mesenteric  |
| Mammary Gland              | Nose                    | Pancreas                | Parathyroid Gland        |
| Prostate                   | Salivary Glands         | Skin                    | Spleen                   |
| Stomach - Forestomach      | Stomach - Glandular     | Testes                  | Trachea                  |

**AUTO PRECLUDES DIAG.**

|                         |                           |
|-------------------------|---------------------------|
| Intestine Small - Ileum | Intestine Small - Jejunum |
|-------------------------|---------------------------|

**INSUFFICIENT TISSUE**

Pituitary Gland

**OBSERVATIONS**

|  |              |                    |                 |
|--|--------------|--------------------|-----------------|
| Coagulating Gland<br>Note: DILATATION TGLs = 2-7 |              | Dilatation         | Marked          |
| Islets, Pancreatic                               |              | Hyperplasia        | Mild            |
| Kidney   |              | Mineralization     | Moderate        |
| Liver  | Kupffer Cell | Pigmentation       | Minimal         |
| Seminal Vesicle<br>Note: DILATATION TGLs = 1-7   |              | Dilatation         | Marked          |
| Thymus   |              | Depletion Cellular | Mild            |
| Thyroid Gland                                    |              | Degeneration       | Cystic, Minimal |
| Tooth  |              | Dysplasia          | Mild            |
| Urinary Bladder                                  |              | Dilatation         | Marked          |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 148

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 734

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042409

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                          |                            |                           |
|-------------------------|--------------------------|----------------------------|---------------------------|
| Adrenal Gland - Medulla | Bone                     | Brain                      | Epididymis                |
| Esophagus               | Gallbladder              | Heart                      | Intestine Large - Cecum   |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Jejunum |
| Lymph Node - Mandibular | Nose                     | Pancreas                   | Parathyroid Gland         |
| Pituitary Gland         | Prostate                 | Salivary Glands            | Seminal Vesicle           |
| Skin                    | Stomach - Forestomach    | Testes                     | Thymus                    |
| Trachea                 | Urinary Bladder          |                            |                           |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                       |              |                          |                 |
|---------------------------------------|--------------|--------------------------|-----------------|
| Adrenal Gland                         | Cortex       | Hyperplasia              | Focal, Minimal  |
| Note: FOCAL HYPERPLASIA ON SLIDE 21   |              |                          |                 |
| Bone Marrow                           |              | Angiectasis              | Mild            |
|                                       |              | Hypercellularity         | Mild            |
| Intestine Small                       | Ileum        | Lymphoma Malignant Mixed |                 |
| Note: LYMPH MAL MIXD TGLs = 5-24      |              |                          |                 |
| Islets, Pancreatic                    |              | Hyperplasia              | Marked          |
| Kidney                                | Renal Tubule | Atrophy                  | Minimal         |
|                                       |              | Cyst                     |                 |
|                                       | Renal Tubule | Mineralization           | Moderate        |
|                                       |              | Regeneration             | Mild            |
| Note: HEMANGIOSARCOMA ALSO ON SLIDE 6 |              |                          |                 |
| Liver                                 |              | Hemangiosarcoma          |                 |
|                                       |              | Hepatocellular Adenoma   | Multiple, Two   |
|                                       | Kupffer Cell | Hyperplasia              | Moderate        |
|                                       |              | Hyperplasia              | Focal, Moderate |
|                                       | Hepatocyte   | Karyomegaly              | Mild            |
|                                       |              | Lymphoma Malignant Mixed |                 |
| Note: HEPATOCLR ADEN TGLs = 7-25,8-26 |              |                          |                 |
| Note: LYMPH MAL MIXD TGLs = 6-6       |              |                          |                 |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 148 | <b>TRT#:</b> 17               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 734 |
|                       | <b>DOSE:</b> 0.0275% CHLORINE | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042409 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|  |             |                                  |                    |
|--|-------------|----------------------------------|--------------------|
| Note: HEMANGIOSARC TGLs = 9-27                 |             |                                  |                    |
| Lung   |             | Alveolar/Bronchiolar Adenoma     |                    |
| [ Alveolar/Bronchiolar Adenoma TGLS = 11-2-1 ] |             |                                  |                    |
| Lymph Node                                     | Mediastinal | Lymphoma Malignant Mixed         |                    |
|  | Mesenteric  | Lymphoma Malignant Mixed         |                    |
|  | Renal       | Lymphoma Malignant Mixed         |                    |
| Note: LYMPH MAL MIXD TGLs = 2-21               |             |                                  |                    |
| Note: LYMPH MAL MIXD TGLs = 3-22,4-23          |             |                                  |                    |
| Note: LYMPH MAL MIXD TGLs = 10-5               |             |                                  |                    |
| Spleen   |             | Hematopoietic Cell Proliferation | Moderate           |
|  |             | Lymphoma Malignant Mixed         |                    |
| Note: LYMPH MAL MIXD TGLs = 1-6                |             |                                  |                    |
| Note: HEMA CELL PROL TGLs = 1-6                |             |                                  |                    |
| Stomach  | Glandular   | Inflammation                     | Subacute, Moderate |
| Thyroid Gland                                  |             | Degeneration                     | Cystic, Mild       |
| PRIMARY CAUSE OF DEATH                         | -           |                                  |                    |

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 149

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 734

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042410

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                          |                            |                           |
|-------------------------|--------------------------|----------------------------|---------------------------|
| Adrenal Gland - Medulla | Bone                     | Brain                      | Epididymis                |
| Esophagus               | Gallbladder              | Heart                      | Intestine Large - Cecum   |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Jejunum |
| Islets, Pancreatic      | Lung                     | Lymph Node - Mandibular    | Nose                      |
| Pancreas                | Parathyroid Gland        | Pituitary Gland            | Prostate                  |
| Salivary Glands         | Skin                     | Testes                     | Thymus                    |
| Trachea                 | Urinary Bladder          |                            |                           |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                 |              |                                  |                    |
|---------------------------------|--------------|----------------------------------|--------------------|
| Adrenal Gland                   | Cortex       | Clear Cell Focus                 |                    |
|                                 | Cortex       | Hyperplasia                      | Focal, Minimal     |
| Bone Marrow                     |              | Hypercellularity                 | Marked             |
| Intestine Small                 | Ileum        | Hyperplasia                      | Lymphoid, Moderate |
| Note: HYPERPLASIA TGLs = 4-21   |              |                                  |                    |
| Kidney                          |              | Cyst                             |                    |
|                                 |              | Mineralization                   | Moderate           |
|                                 | Renal Tubule | Regeneration                     | Moderate           |
| Liver                           |              | Hematopoietic Cell Proliferation | Marked             |
| Lymph Node                      | Mesenteric   | Hemorrhage                       | Mild               |
|                                 | Mesenteric   | Hyperplasia                      | Lymphoid, Marked   |
| Seminal Vesicle                 |              | Dilatation                       | Mild               |
| Note: DILATATION TGLs = 1-7     |              |                                  |                    |
| Spleen                          |              | Hematopoietic Cell Proliferation | Moderate           |
| Note: HEMA CELL PROL TGLs = 2-6 |              |                                  |                    |
| Stomach                         | Forestomach  | Edema                            | Mild               |
|                                 | Glandular    | Edema                            | Mild               |
|                                 | Glandular    | Inflammation                     | Subacute, Mild     |
|                                 | Forestomach  | Squamous Cell Carcinoma          |                    |
| Note: SQUAM CEL CARC TGLs = 3-4 |              |                                  |                    |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 149

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 734

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042410

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Thyroid Gland

Degeneration

Cystic, Mild

Tooth

Dysplasia

Moderate

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 150

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 734

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042411

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Nose                     | Pancreas                   | Parathyroid Gland       |
| Pituitary Gland           | Prostate                 | Seminal Vesicle            | Skin                    |
| Stomach - Forestomach     | Testes                   | Thymus                     | Thyroid Gland           |
| Trachea                   | Urinary Bladder          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                      |              |                                  |                   |
|----------------------|--------------|----------------------------------|-------------------|
| Adrenal Gland        | Cortex       | Clear Cell Focus                 |                   |
| Brain                | Thalamus     | Mineralization                   | Mild              |
| Kidney               |              | Mineralization                   | Mild              |
|                      | Renal Tubule | Regeneration                     | Minimal           |
| Liver                |              | Hepatocellular Carcinoma         |                   |
| Note: HEPATOCLR CARC | TGLs = 2-21  |                                  |                   |
| Mesentery            |              | Lymphoma Malignant Mixed         |                   |
| Note: LYMPH MAL MIXD | TGLs = 3-22  |                                  |                   |
| Salivary Glands      |              | Hyperplasia                      | Lymphoid, Minimal |
| Spleen               |              | Hematopoietic Cell Proliferation | Moderate          |
|                      |              | Lymphoma Malignant Mixed         |                   |
| Note: LYMPH MAL MIXD | TGLs = 1-6   |                                  |                   |
| Note: HEMA CELL PROL | TGLs = 1-6   |                                  |                   |
| Stomach              | Glandular    | Cyst                             |                   |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 151

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 734

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042412

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                         |                          |                            |
|-------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus               | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Lymph Node - Mandibular | Lymph Node - Mesenteric  | Nose                       |
| Pancreas                | Parathyroid Gland       | Pituitary Gland          | Prostate                   |
| Salivary Glands         | Seminal Vesicle         | Skin                     | Stomach - Forestomach      |
| Stomach - Glandular     | Testes                  |                          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                      |              |                                  |                    |
|--------------------------------------|--------------|----------------------------------|--------------------|
| Brain                                | Thalamus     | Mineralization                   | Mild               |
| Intestine Small                      | Jejunum      | Carcinoma                        |                    |
| Note: CARCINOMA TGLs = 2-22          |              |                                  |                    |
| Islets, Pancreatic                   |              | Hyperplasia                      | Minimal            |
| Kidney                               |              | Casts Protein                    | Minimal            |
|                                      |              | Granuloma                        | Minimal            |
|                                      |              | Hyperplasia                      | Lymphoid, Minimal  |
|                                      |              | Mineralization                   | Moderate           |
|                                      | Renal Tubule | Regeneration                     | Moderate           |
| Liver                                |              | Hepatocellular Adenoma           |                    |
| Note: [ HEPATOCLR ADEN ] TGLs = 6,21 |              |                                  |                    |
| Lung                                 |              | Alveolar/Bronchiolar Carcinoma   |                    |
| Note: ALV BRON CARC TGLs = 3-2       |              | Infiltration Cellular            | Histiocyte, Marked |
| Spleen                               |              | Hematopoietic Cell Proliferation | Mild               |
| Thymus                               |              | Cyst                             |                    |
| Thyroid Gland                        | Follicle     | Cyst                             |                    |
| Trachea                              |              | Inflammation                     | Suppurative, Mild  |
| Urinary Bladder                      |              | Hyperplasia                      | Lymphoid, Minimal  |
| Note: INFUSION ARTIFACT              |              |                                  |                    |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 151

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 734

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042412

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 152

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 734

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042413

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Liver                    | Lymph Node - Mandibular    | Nose                    | Pancreas                  |
| Parathyroid Gland        | Pituitary Gland            | Prostate                | Salivary Glands           |
| Skin                     | Spleen                     | Stomach - Forestomach   | Testes                    |
| Thymus                   | Thyroid Gland              | Trachea                 | Urinary Bladder           |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                    |                 |                |                |
|--------------------|-----------------|----------------|----------------|
| Adrenal Gland      | Capsule, Cortex | Hyperplasia    | Mild           |
|                    | Cortex          | Hyperplasia    | Focal, Minimal |
| Brain              | Thalamus        | Mineralization | Mild           |
| Epididymis         |                 | Inflammation   | Chronic, Mild  |
| Islets, Pancreatic |                 | Adenoma        |                |
|                    |                 | Hyperplasia    | Mild           |
| Note: ADENOMA      | TGLs = 1-7      |                |                |
| Kidney             |                 | Casts Protein  | Minimal        |
|                    |                 | Cyst           |                |
|                    | Renal Tubule    | Dilatation     | Minimal        |
|                    |                 | Mineralization | Moderate       |
|                    | Renal Tubule    | Regeneration   | Moderate       |
| Lung               |                 | Hyperplasia    | Lymphoid, Mild |
| Lymph Node         | Mesenteric      | Hemorrhage     | Minimal        |
| Seminal Vesicle    |                 | Dilatation     | Mild           |
| Stomach            | Glandular       | Cyst           |                |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 153

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042414

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Epididymis                |
| Esophagus                | Gallbladder                | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   |
| Nose                     | Pancreas                   | Parathyroid Gland       | Pituitary Gland           |
| Prostate                 | Salivary Glands            | Skin                    | Spleen                    |
| Stomach - Forestomach    | Stomach - Glandular        | Testes                  | Thyroid Gland             |
| Trachea                  | Urinary Bladder            |                         |                           |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                  |              |                        |                  |
|----------------------------------|--------------|------------------------|------------------|
| Adrenal Gland                    | Cortex       | Hyperplasia            | Focal, Minimal   |
| Brain                            | Thalamus     | Mineralization         | Mild             |
| Heart                            | Myocardium   | Inflammation           | Chronic, Minimal |
| Kidney                           |              | Mineralization         | Moderate         |
|                                  | Renal Tubule | Regeneration           | Moderate         |
| Liver                            |              | Hepatocellular Adenoma |                  |
| Note: HEPATOCLR ADEN TGLs = 2-21 |              |                        |                  |
| Seminal Vesicle                  |              | Dilatation             | Moderate         |
| Note: DILATATION TGLs = 1-7      |              |                        |                  |
| Thymus                           |              | Cyst                   |                  |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:10  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 154

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042415

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Nose                     | Pancreas                   | Parathyroid Gland       |
| Prostate                  | Salivary Glands          | Skin                       | Spleen                  |
| Stomach - Forestomach     | Stomach - Glandular      | Testes                     | Thymus                  |
| Thyroid Gland             | Trachea                  | Urinary Bladder            |                         |

**MISSING**

|                         |               |
|-------------------------|---------------|
| Lymph Node - Mandibular | Mammary Gland |
|-------------------------|---------------|

**OBSERVATIONS**

|                                  |                           |   |                                     |
|----------------------------------|---------------------------|---|-------------------------------------|
| Adrenal Gland                    | Capsule, Cortex<br>Cortex | Adenoma<br>Hyperplasia                                  | Focal, Minimal                      |
| Brain                            | Thalamus                  | Mineralization  | Mild                                |
| Coagulating Gland                |                           | Dilatation  | Marked                              |
| Note: DILATATION TGLs = 6-7      |                           |   |                                     |
| Islets, Pancreatic               |                           | Hyperplasia   | Moderate                            |
| Kidney                           |                           | Casts Protein<br>Cyst                                   | Minimal                             |
|                                  | Renal Tubule              | Dilatation  | Minimal                             |
|                                  |                           | Mineralization  | Moderate                            |
|                                  | Renal Tubule              | Regeneration  | Moderate                            |
| Liver                            |                           | Hepatocellular Adenoma<br>Hyperplasia<br>Inflammation   | Focal, Moderate<br>Chronic, Minimal |
| Note: HYPERPLASIA TGLs = 7-22    |                           |   |                                     |
| Note: HEPATOCLR ADEN TGLs = 3-21 |                           |   |                                     |
| Lung                             |                           | Alveolar/Bronchiolar Carcinoma<br>Infiltration Cellular | Histiocyte, Mild                    |
| Note: ALV BRON CARC TGLs = 5-2   |                           |   |                                     |
| Lymph Node                       | Mesenteric                | Hematopoietic Cell Proliferation                        | Mild                                |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 154 | <b>TRT#:</b> 17               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 736 |
|                       | <b>DOSE:</b> 0.0275% CHLORINE | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042415 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|  |               |                        |                     |
|--|---------------|------------------------|---------------------|
| Note: HEMORRHAGE TGLs = 4-5<br>Note: HEMA CELL PROL TGLs = 4-5 | Mesenteric    | Hemorrhage             | Mild                |
| Pituitary Gland<br>Preputial Gland<br>Note: ECTASIA TGLs = 1-8 | Pars Distalis | Hyperplasia<br>Ectasia | Minimal<br>Moderate |
| Seminal Vesicle<br>Note: DILATATION TGLs = 2-7                 |               | Dilatation             | Marked              |

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE





**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                            |                         |
|-----------------------|-------------------------------|----------------------------|-------------------------|
| <b>ANIMAL ID:</b> 155 | <b>TRT#:</b> 17               | <b>SEX:</b> Male           | <b>DAY ON TEST:</b> 702 |
|                       | <b>DOSE:</b> 0.0275% CHLORINE | <b>DISP:</b> Natural Death | <b>HISTO:</b> A87042416 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                  |            |           |                |                   |
|------------------|------------|-----------|----------------|-------------------|
| Note: DILATATION | TGLs = 1-7 |           |                |                   |
| Spleen           |            | Red Pulp  | Atrophy        | Mild              |
| Note: ATROPHY    | TGLs = 2-6 |           |                |                   |
| Stomach          |            | Glandular | Cyst           |                   |
|                  |            | Glandular | Metaplasia     | Squamous, Minimal |
|                  |            | Glandular | Mineralization | Minimal           |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 156

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042417

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Nose                      | Pancreas                 | Parathyroid Gland          | Prostate                |
| Salivary Glands           | Skin                     | Spleen                     | Stomach - Forestomach   |
| Testes                    | Thymus                   | Thyroid Gland              | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|   |                 |                        |                   |
|---|-----------------|------------------------|-------------------|
| Adrenal Gland                                   | Capsule, Cortex | Hyperplasia            | Moderate          |
|   | Cortex          | Hyperplasia            | Focal, Mild       |
| Brain   | Thalamus        | Mineralization         | Mild              |
| Kidney  | Renal Tubule    | Cyst                   |                   |
|   |                 | Dilatation             | Minimal           |
|   |                 | Hyperplasia            | Lymphoid, Minimal |
|   |                 | Mineralization         | Moderate          |
|   | Renal Tubule    | Regeneration           | Minimal           |
| Liver   | Lobules         | Hepatocellular Adenoma | Five, Multiple    |
|   |                 | Necrosis               | Minimal           |
| Note: HEPATOCLR ADEN TGLs = 2-21,3-22,4-23,5-24 |                 |                        |                   |
| Note: HEPATOCELLULAR ADENOMA ALSO ON SLIDE 6    |                 |                        |                   |
| Lung  |                 | Hemorrhage             | Mild              |
| Pituitary Gland                                 | Pars Distalis   | Hyperplasia            | Minimal           |
| Seminal Vesicle                                 |                 | Dilatation             | Mild              |
| Note: DILATATION TGLs = 1-7                     |                 |                        |                   |
| Stomach   | Glandular       | Cyst                   |                   |
| Tooth   |                 | Dysplasia              | Mild              |

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 156

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042417

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 157

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 470

**DOSE:** 0.0275% CHLORINE

**DISP:** Natural Death

**HISTO:** A87042418

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Medulla | Bone                      | Bone Marrow              | Brain                      |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lymph Node - Mandibular  | Lymph Node - Mesenteric    |
| Nose                    | Pancreas                  | Parathyroid Gland        | Pituitary Gland            |
| Prostate                | Salivary Glands           | Seminal Vesicle          | Skin                       |
| Spleen                  | Stomach - Forestomach     | Stomach - Glandular      | Testes                     |
| Thyroid Gland           | Tooth                     | Trachea                  | Urinary Bladder            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                  |              |                              |                |
|----------------------------------|--------------|------------------------------|----------------|
| Adrenal Gland                    | Cortex       | Hyperplasia                  | Focal, Minimal |
| Islets, Pancreatic               |              | Hyperplasia                  | Moderate       |
| Kidney                           |              | Mineralization               | Mild           |
|                                  | Renal Tubule | Regeneration                 | Moderate       |
| Liver                            |              | Hepatocellular Carcinoma     |                |
|                                  | Lobules      | Necrosis                     | Marked         |
|                                  | Kupffer Cell | Pigmentation                 | Moderate       |
|                                  | Hepatocyte   | Vacuolization Cytoplasmic    | Mild           |
| Note: NECROSIS TGLs = 4-6,4-23   |              |                              |                |
| Note: HEPATOCLR CARC TGLs = 3-22 |              |                              |                |
| Lung                             |              | Alveolar/Bronchiolar Adenoma |                |
|                                  |              | Leukocytosis                 | Moderate       |
| Mesentery                        | Fat          | Necrosis                     | Moderate       |
| Note: NECROSIS TGLs = 1-21       |              |                              |                |
| Thymus                           |              | Depletion Cellular           | Moderate       |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 158

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042419

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Skin                     | Spleen                     | Stomach - Forestomach   |
| Stomach - Glandular       | Testes                   | Thymus                     | Thyroid Gland           |
| Trachea                   | Urinary Bladder          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|  |              |                        |                   |
|--|--------------|------------------------|-------------------|
| Adrenal Gland                              | Cortex       | Hyperplasia            | Focal, Mild       |
| Brain                                      | Thalamus     | Mineralization         | Moderate          |
| Islets, Pancreatic                         |              | Hyperplasia            | Mild              |
| Kidney                                     | Renal Tubule | Dilatation             | Minimal           |
|  | Renal Tubule | Mineralization         | Moderate          |
|  |              | Regeneration           | Moderate          |
| Note: REGENERATION TGLs = 4-5              |              |                        |                   |
| Liver                                      |              | Clear Cell Focus       |                   |
|  |              | Hepatocellular Adenoma | Multiple, Three   |
|  |              | Hyperplasia            | Focal, Mild       |
| Note: HYPERPLASIA TGLs = 8-24              |              |                        |                   |
| Note: HEPATOCLR ADEN TGLs = 5-21,6-22,7-23 |              |                        |                   |
| Salivary Glands                            |              | Hyperplasia            | Lymphoid, Minimal |
| Seminal Vesicle                            |              | Dilatation             | Moderate          |
| Note: DILATATION TGLs = 2-7                |              |                        |                   |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 159

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042420

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Nose                     | Pancreas                   | Parathyroid Gland       |
| Prostate                  | Salivary Glands          | Seminal Vesicle            | Skin                    |
| Stomach - Forestomach     | Testes                   | Thymus                     | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                 |               |                        |                |
|-----------------|---------------|------------------------|----------------|
| Adrenal Gland   | Cortex        | Hyperplasia            | Focal, Minimal |
| Brain           | Thalamus      | Mineralization         | Mild           |
| Kidney          |               | Cyst                   |                |
|                 |               | Mineralization         | Moderate       |
|                 | Renal Tubule  | Regeneration           | Mild           |
| Liver           |               | Basophilic Focus       |                |
|                 |               | Hepatocellular Adenoma |                |
| Pituitary Gland | Pars Distalis | Cyst                   |                |
| Spleen          |               | Hemangioma             |                |
| Stomach         | Glandular     | Cyst                   |                |
| Thyroid Gland   |               | Degeneration           | Cystic, Mild   |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 160

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042421

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Bone                       | Bone Marrow             | Epididymis                | Esophagus                |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Lung                     |
| Lymph Node - Mandibular    | Lymph Node - Mesenteric | Nose                      | Pancreas                 |
| Parathyroid Gland          | Pituitary Gland         | Prostate                  | Salivary Glands          |
| Seminal Vesicle            | Spleen                  | Stomach - Forestomach     | Stomach - Glandular      |
| Thymus                     | Thyroid Gland           | Trachea                   |                          |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|   |                 |                            |                 |
|---|-----------------|----------------------------|-----------------|
| Adrenal Gland   | Medulla         | Developmental Malformation |                 |
|   | Capsule, Cortex | Hyperplasia                | Moderate        |
|   | Cortex          | Hyperplasia                | Focal, Moderate |
| Note: DEVELOP MALFOR IS ZONE OF MEDULLARY CELLS IN OUTER CORTEX |                 |                            |                 |
| Brain   | Thalamus        | Mineralization             | Mild            |
| Gallbladder   |                 | Dilatation                 | Marked          |
| Note: DILATATION TGLs = 2-6                                     |                 |                            |                 |
| Islets, Pancreatic  |                 | Hyperplasia                | Minimal         |
| Kidney  | Renal Tubule    | Dilatation                 | Mild            |
|   |                 | Hyperplasia                | Lymphoid, Mild  |
|   |                 | Mineralization             | Moderate        |
|   | Renal Tubule    | Regeneration               | Mild            |
| Liver   |                 | Hepatocellular Adenoma     |                 |
| Note: [ HEPATOCLR ADEN ] TGLs = 22                              |                 |                            |                 |
| Skin  | Subcut Tiss     | Fibrosis                   | Focal, Moderate |
| Note: [ FIBROSIS ] TGLs = 21                                    |                 |                            |                 |
| Testes  | Seminif Tub     | Atrophy                    | Minimal         |
|   |                 | Mineralization             | Mild            |
| Urinary Bladder   |                 | Dilatation                 | Marked          |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 160

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042421

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 161

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 385

**DOSE:** 0.0275% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A86037697

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       |
| Lymph Node - Mandibular | Lymph Node - Mesenteric   | Nose                     | Pancreas                   |
| Parathyroid Gland       | Pituitary Gland           | Prostate                 | Salivary Glands            |
| Seminal Vesicle         | Skin                      | Spleen                   | Stomach - Forestomach      |
| Stomach - Glandular     | Testes                    | Thyroid Gland            | Trachea                    |
| Urinary Bladder         |                           |                          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                  |              |                          |         |
|----------------------------------|--------------|--------------------------|---------|
| Brain                            | Thalamus     | Mineralization           | Mild    |
| Kidney                           |              | Mineralization           | Minimal |
|                                  | Renal Tubule | Regeneration             | Minimal |
| Liver                            |              | Hepatocellular Carcinoma |         |
| Note: HEPATOCLR CARC TGLs = 1-21 |              |                          |         |
| Thymus                           |              | Cyst                     |         |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 162

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042422

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Skin                     | Spleen                     | Stomach - Forestomach   |
| Stomach - Glandular       | Testes                   | Thymus                     | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                     |              |                              |                   |
|---------------------|--------------|------------------------------|-------------------|
| Adrenal Gland       | Cortex       | Hyperplasia                  | Focal, Minimal    |
| Brain               | Thalamus     | Mineralization               | Mild              |
| Kidney              | Renal Tubule | Atrophy                      | Minimal           |
|                     |              | Mineralization               | Moderate          |
|                     | Renal Tubule | Regeneration                 | Moderate          |
| Liver               |              | Hepatocellular Adenoma       | Multiple, Two     |
|                     |              | Hyperplasia                  | Focal, Moderate   |
| Lung                |              | Alveolar/Bronchiolar Adenoma |                   |
| Note: ALV BRON ADEN | TGLs = 3-2-1 |                              |                   |
| Salivary Glands     |              | Hyperplasia                  | Lymphoid, Minimal |
| Seminal Vesicle     |              | Dilatation                   | Moderate          |
| Note: DILATATION    | TGLs = 1-7   |                              |                   |
| Thyroid Gland       |              | Degeneration                 | Cystic, Mild      |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 163

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042423

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Medulla | Bone                      | Bone Marrow              | Brain                      |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    |
| Nose                    | Pancreas                  | Parathyroid Gland        | Pituitary Gland            |
| Prostate                | Salivary Glands           | Seminal Vesicle          | Skin                       |
| Spleen                  | Stomach - Forestomach     | Stomach - Glandular      | Testes                     |
| Thymus                  | Thyroid Gland             | Trachea                  | Urinary Bladder            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                  |              |                          |                |
|----------------------------------|--------------|--------------------------|----------------|
| Adrenal Gland                    | Cortex       | Hyperplasia              | Focal, Minimal |
| Islets, Pancreatic               |              | Hyperplasia              | Minimal        |
| Kidney                           | Renal Tubule | Dilatation               | Minimal        |
|                                  |              | Mineralization           | Moderate       |
|                                  | Renal Tubule | Regeneration             | Mild           |
| Liver                            |              | Hepatocellular Carcinoma |                |
| Note: HEPATOCLR CARC TGLs = 1-21 |              |                          |                |
| Lymph Node                       | Mesenteric   | Hemorrhage               | Minimal        |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 164

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042424

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    | Nose                    |
| Pancreas                  | Parathyroid Gland        | Pituitary Gland            | Prostate                |
| Salivary Glands           | Skin                     | Spleen                     | Stomach - Forestomach   |
| Stomach - Glandular       | Testes                   | Thymus                     | Thyroid Gland           |
| Trachea                   | Urinary Bladder          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|  |                                     |  |                             |
|--|-------------------------------------|--|-----------------------------|
| Adrenal Gland  | Capsule, Cortex<br>Cortex<br>Cortex | Adenoma<br>Clear Cell Focus<br>Hyperplasia | Focal, Minimal              |
| Brain  | Thalamus                            | Mineralization                             | Minimal                     |
| Islets, Pancreatic   |                                     | Hyperplasia                                | Minimal                     |
| Kidney   |                                     | Hyperplasia<br>Mineralization              | Lymphoid, Minimal           |
|  | Renal Tubule                        | Regeneration                               | Moderate                    |
| Liver  |                                     | Hepatocellular Adenoma<br>Hyperplasia      | Moderate<br>Focal, Moderate |
| Note: HYPERPLASIA TGLs = 2-21,3-22<br>Note: HEPATOCLR ADEN TGLs = 4-23 |                                     |  |                             |
| Lymph Node   | Mesenteric<br>Mesenteric            | Hemorrhage<br>Hyperplasia                  | Mild<br>Lymphoid, Mild      |
| Seminal Vesicle<br>Note: DILATATION TGLs = 1-7                         |                                     | Dilatation                                 | Marked                      |

**PRIMARY CAUSE OF DEATH**

-

Animal Note: GALLBLADDER IS ON SLIDE 21

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 165

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042425

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Nose                     | Pancreas                   | Parathyroid Gland       |
| Prostate                  | Seminal Vesicle          | Skin                       | Spleen                  |
| Stomach - Glandular       | Testes                   | Thymus                     | Thyroid Gland           |
| Trachea                   | Urinary Bladder          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                     |               |                                   |                      |
|---------------------|---------------|-----------------------------------|----------------------|
| Adrenal Gland       | Cortex        | Accessory Adrenal Cortical Nodule |                      |
|                     | Cortex        | Hyperplasia                       | Focal, Moderate      |
| Brain               | Thalamus      | Mineralization                    | Minimal              |
| Kidney              |               | Cyst                              |                      |
|                     |               | Hyperplasia                       | Lymphoid, Minimal    |
|                     |               | Mineralization                    | Mild                 |
|                     | Renal Tubule  | Regeneration                      | Mild                 |
| Lung                |               | Alveolar/Bronchiolar Carcinoma    |                      |
|                     |               | Infiltration Cellular             | Histiocyte, Moderate |
| Note: ALV BRON CARC | TGLs = 1-2    |                                   |                      |
| Pituitary Gland     | Pars Distalis | Hyperplasia                       | Mild                 |
| Salivary Glands     |               | Hyperplasia                       | Lymphoid, Minimal    |
| Stomach             | Forestomach   | Diverticulum                      | Mild                 |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 166

**TRT#:** 18

**SEX:** Male

**DAY ON TEST:** 98

**DOSE:** 0.0275% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033836

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Heart  
Intestine Small - Duodenum  
Kidney  
Lymph Node - Mesenteric  
Pituitary Gland  
Skin  
Testes  
Urinary Bladder

Adrenal Gland - Medulla  
Epididymis  
Intestine Large - Cecum  
Intestine Small - Ileum  
Liver  
Nose  
Prostate  
Spleen  
Thymus

Bone  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lung  
Pancreas  
Salivary Glands  
Stomach - Forestomach  
Thyroid Gland

Bone Marrow  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mandibular  
Parathyroid Gland  
Seminal Vesicle  
Stomach - Glandular  
Trachea

**MISSING**

Mammary Gland

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 167

**TRT#:** 18

**SEX:** Male

**DAY ON TEST:** 97

**DOSE:** 0.0275% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033837

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex     | Adrenal Gland - Medulla | Bone                      | Bone Marrow              |
| Brain                      | Epididymis              | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Liver                      | Lung                    | Lymph Node - Mandibular   | Lymph Node - Mesenteric  |
| Nose                       | Pancreas                | Parathyroid Gland         | Pituitary Gland          |
| Prostate                   | Salivary Glands         | Seminal Vesicle           | Skin                     |
| Spleen                     | Stomach - Forestomach   | Stomach - Glandular       | Testes                   |
| Thymus                     | Thyroid Gland           | Trachea                   | Urinary Bladder          |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|           |              |                           |               |
|-----------|--------------|---------------------------|---------------|
| Kidney    | Renal Tubule | Vacuolization Cytoplasmic | Moderate      |
| Mesentery |              | Inflammation              | Chronic, Mild |

Note: CHRONIC INFLAMMATION IS PRESENT ON SLIDE NUMBER 4.

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 168

**TRT#:** 18

**SEX:** Male

**DAY ON TEST:** 99

**DOSE:** 0.0275% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033838

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Liver  
Nose  
Prostate  
Spleen  
Thymus

Adrenal Gland - Medulla  
Epididymis  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lung  
Pancreas  
Salivary Glands  
Stomach - Forestomach  
Thyroid Gland

Bone  
Esophagus  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mandibular  
Parathyroid Gland  
Seminal Vesicle  
Stomach - Glandular  
Trachea

Bone Marrow  
Heart  
Intestine Small - Duodenum  
Kidney  
Lymph Node - Mesenteric  
Pituitary Gland  
Skin  
Testes  
Urinary Bladder

**MISSING**

Gallbladder

Mammary Gland

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 169

**TRT#:** 18

**SEX:** Male

**DAY ON TEST:** 98

**DOSE:** 0.0275% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033839

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Heart  
Intestine Small - Ileum  
Liver  
Parathyroid Gland  
Seminal Vesicle  
Stomach - Glandular  
Trachea

Adrenal Gland - Medulla  
Epididymis  
Intestine Large - Cecum  
Intestine Small - Jejunum  
Lymph Node - Mandibular  
Pituitary Gland  
Skin  
Testes  
Urinary Bladder

Bone  
Esophagus  
Intestine Large - Colon  
Islets, Pancreatic  
Nose  
Prostate  
Spleen  
Thymus

Bone Marrow  
Gallbladder  
Intestine Small - Duodenum  
Kidney  
Pancreas  
Salivary Glands  
Stomach - Forestomach  
Thyroid Gland

**MISSING**

Intestine Large - Rectum

Lymph Node - Mesenteric

Mammary Gland

**OBSERVATIONS**

Lung

Hemorrhage

Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 170

**TRT#:** 18

**SEX:** Male

**DAY ON TEST:** 97

**DOSE:** 0.0275% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033840

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Heart  
Intestine Small - Duodenum  
Kidney  
Lymph Node - Mesenteric  
Prostate  
Spleen  
Thymus

Adrenal Gland - Medulla  
Epididymis  
Intestine Large - Cecum  
Intestine Small - Ileum  
Liver  
Nose  
Salivary Glands  
Stomach - Forestomach  
Thyroid Gland

Bone  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lung  
Parathyroid Gland  
Seminal Vesicle  
Stomach - Glandular  
Trachea

Bone Marrow  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mandibular  
Pituitary Gland  
Skin  
Testes  
Urinary Bladder

**MISSING**

Mammary Gland

**OBSERVATIONS**

Pancreas Inflammation Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 171

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0.0275% CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** A86037698

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Nose                      | Parathyroid Gland        | Pituitary Gland            | Prostate                |
| Salivary Glands           | Seminal Vesicle          | Skin                       | Spleen                  |
| Stomach - Forestomach     | Stomach - Glandular      | Testes                     | Thyroid Gland           |
| Trachea                   | Urinary Bladder          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|   |                 |                           |         |
|---|-----------------|---------------------------|---------|
| Adrenal Gland                             | Capsule, Cortex | Hyperplasia               | Mild    |
| Brain                                     | Thalamus        | Mineralization            | Minimal |
| Islets, Pancreatic                        |                 | Hyperplasia               | Mild    |
| Kidney                                    | Renal Tubule    | Casts Protein             | Minimal |
|   |                 | Dilatation                | Minimal |
|   |                 | Mineralization            | Minimal |
| Liver                                     | Hepatocyte      | Cytomegaly                | Mild    |
|   | Hepatocyte      | Vacuolization Cytoplasmic | Mild    |
| Pancreas                                  |                 | Atrophy                   | Minimal |
| Note: THE ATROPHY IS PRESENT ON SLIDE #4. |                 |                           |         |
| Thymus                                    |                 | Cyst                      |         |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                  |                         |
|-----------------------|-------------------------------|----------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 172 | <b>TRT#:</b> 17               | <b>SEX:</b> Male                 | <b>DAY ON TEST:</b> 26  |
|                       | <b>DOSE:</b> 0.0275% CHLORINE | <b>DISP:</b> Accidentally Killed | <b>HISTO:</b> A85033604 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                         |                         |                          |                           |
|-------------------------|-------------------------|--------------------------|---------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla | Bone                     | Bone Marrow               |
| Brain                   | Epididymis              | Esophagus                | Heart                     |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Jejunum |
| Islets, Pancreatic      | Kidney                  | Liver                    | Lung                      |
| Lymph Node - Mandibular | Nose                    | Pancreas                 | Parathyroid Gland         |
| Prostate                | Salivary Glands         | Seminal Vesicle          | Skin                      |
| Spleen                  | Stomach - Forestomach   | Testes                   | Thyroid Gland             |
| Trachea                 | Urinary Bladder         |                          |                           |

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**MISSING**

|                            |                         |                         |               |
|----------------------------|-------------------------|-------------------------|---------------|
| Intestine Small - Duodenum | Intestine Small - Ileum | Lymph Node - Mesenteric | Mammary Gland |
| Pituitary Gland            |                         |                         |               |

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**AUTO PRECLUDES DIAG.**

Gallbladder

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**OBSERVATIONS**

|         |           |                    |          |
|---------|-----------|--------------------|----------|
| Stomach | Glandular | Ulcer              | Mild     |
| Thymus  |           | Depletion Cellular | Moderate |

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**PRIMARY CAUSE OF DEATH**

-

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Animal Note: CECUM IS PRESENT ON SLIDE #5

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 173

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 455

**DOSE:** 0.0275% CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** A86037699

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Nose                     | Pancreas                   | Parathyroid Gland       |
| Pituitary Gland           | Prostate                 | Salivary Glands            | Seminal Vesicle         |
| Skin                      | Spleen                   | Stomach - Forestomach      | Stomach - Glandular     |
| Testes                    | Thymus                   | Trachea                    | Urinary Bladder         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                  |              |                          |              |
|----------------------------------|--------------|--------------------------|--------------|
| Adrenal Gland                    | Cortex       | Hyperplasia              | Focal, Mild  |
| Brain                            | Thalamus     | Mineralization           | Mild         |
| Kidney                           | Renal Tubule | Dilatation               | Minimal      |
|                                  |              | Mineralization           | Minimal      |
| Liver                            |              | Hepatocellular Carcinoma |              |
| Note: HEPATOCLR CARC TGLs = 2-21 |              |                          |              |
| Thyroid Gland                    |              | Degeneration             | Cystic, Mild |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 174

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 457

**DOSE:** 0.0275% CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** A86037700

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Nose                     | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Salivary Glands          | Seminal Vesicle            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Stomach - Glandular        | Testes                  |
| Thymus                    | Thyroid Gland            | Trachea                    | Urinary Bladder         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|  |              |                           |                |
|--|--------------|---------------------------|----------------|
| Adrenal Gland  | Cortex       | Hyperplasia               | Focal, Minimal |
| Brain  | Thalamus     | Mineralization            | Mild           |
| Kidney   | Renal Tubule | Cyst                      |                |
|  |              | Dilatation                | Mild           |
|  |              | Mineralization            | Mild           |
|  | Renal Tubule | Regeneration              | Minimal        |
| Liver  | Hepatocyte   | Vacuolization Cytoplasmic | Mild           |
| Note: VACUOLIZATION INVOLVES MAINLY THE CENTRILOBULAR AREAS. |              |                           |                |
| Pancreas   |              | Atrophy                   | Minimal        |
| Note: THE ATROPHY IS ON SLIDE #4.                            |              |                           |                |

**PRIMARY CAUSE OF DEATH**

-

Animal Note: LUNG CONTAINS FLOCCULAR MATERIAL WITHIN AIR PASSAGES;

Animal Note: MAY BE ASPIRATED STOMACH CONTENT; NOT CODED.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 175

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 457

**DOSE:** 0.0275% CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** A86037701

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    |
| Lymph Node - Mesenteric | Nose                      | Pancreas                 | Parathyroid Gland          |
| Pituitary Gland         | Prostate                  | Salivary Glands          | Seminal Vesicle            |
| Skin                    | Spleen                    | Stomach - Forestomach    | Stomach - Glandular        |
| Testes                  | Thymus                    | Thyroid Gland            | Trachea                    |
| Urinary Bladder         |                           |                          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                  |              |                              |                  |
|----------------------------------|--------------|------------------------------|------------------|
| Brain                            | Thalamus     | Mineralization               | Mild             |
| Kidney                           | Renal Tubule | Dilatation                   | Mild             |
|                                  |              | Inflammation                 | Chronic, Minimal |
|                                  |              | Mineralization               | Mild             |
|                                  | Renal Tubule | Regeneration                 | Mild             |
| Note: [ DILATATION ] TGLs = 5    |              |                              |                  |
| Liver                            |              | Hepatocellular Adenoma       |                  |
| Note: HEPATOCLR ADEN TGLs = 1-21 |              |                              |                  |
| Lung                             |              | Alveolar/Bronchiolar Adenoma |                  |
| Note: ALV BRON ADEN TGLs = 2-2   |              |                              |                  |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 176

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 680

**DOSE:** 0.0140% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042500

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      |
| Lymph Node - Mandibular | Lymph Node - Mesenteric   | Nose                     | Pancreas                   |
| Pituitary Gland         | Prostate                  | Salivary Glands          | Seminal Vesicle            |
| Skin                    | Spleen                    | Stomach - Forestomach    | Stomach - Glandular        |
| Testes                  | Thyroid Gland             | Trachea                  | Urinary Bladder            |

**MISSING**

|               |        |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

**OBSERVATIONS**

|   |              |                                |                    |
|---|--------------|--------------------------------|--------------------|
| Brain   | Thalamus     | Mineralization                 | Mild               |
| Kidney  | Renal Tubule | Atrophy                        | Minimal            |
|   |              | Mineralization                 | Mild               |
|   | Renal Tubule | Regeneration                   | Minimal            |
| Lung  |              | Alveolar/Bronchiolar Carcinoma |                    |
|   |              | Hyperplasia                    | Lymphoid, Moderate |
|   |              | Infiltration Cellular          | Histiocyte, Marked |
| Note: INFILTRAT CELL TGLs = 1-2<br>[ Infiltration Cellular TGLS = 2-2 ] |              |                                |                    |
| Parathyroid Gland   |              | Cyst                           |                    |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 177

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 551

**DOSE:** 0.0140% CHLORINE

**DISP:** Natural Death

**HISTO:** A87042501

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex     | Adrenal Gland - Medulla | Bone                      | Bone Marrow              |
| Brain                      | Epididymis              | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Lung                     |
| Lymph Node - Mandibular    | Nose                    | Pancreas                  | Parathyroid Gland        |
| Pituitary Gland            | Prostate                | Salivary Glands           | Seminal Vesicle          |
| Skin                       | Spleen                  | Stomach - Forestomach     | Testes                   |
| Thymus                     | Thyroid Gland           | Trachea                   | Urinary Bladder          |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                  |               |                          |          |
|----------------------------------|---------------|--------------------------|----------|
| Islets, Pancreatic               |               | Hyperplasia              | Mild     |
| Kidney                           |               | Casts Protein            | Mild     |
|                                  |               | Glomerulosclerosis       | Minimal  |
|                                  | Renal Tubule  | Regeneration             | Minimal  |
| Liver                            |               | Hepatocellular Carcinoma |          |
|                                  | Centrilobular | Necrosis                 | Moderate |
| Note: HEPATOCLR CARC TGLs = 2-21 |               |                          |          |
| Lymph Node                       | Mesenteric    | Hemorrhage               | Mild     |
| Stomach                          | Glandular     | Erosion                  | Moderate |
| [ Erosion TGLS = 1-4,1-4-1 ]     |               |                          |          |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 178

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042502

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Nose                       | Pancreas                |
| Parathyroid Gland         | Pituitary Gland          | Prostate                   | Salivary Glands         |
| Skin                      | Spleen                   | Stomach - Forestomach      | Stomach - Glandular     |
| Testes                    | Thymus                   | Trachea                    |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                      |              |                              |              |
|----------------------|--------------|------------------------------|--------------|
| Adrenal Gland        | Cortex       | Clear Cell Focus             |              |
|                      | Cortex       | Hyperplasia                  | Focal, Mild  |
| Brain                | Thalamus     | Mineralization               | Mild         |
| Islets, Pancreatic   |              | Hyperplasia                  | Minimal      |
| Kidney               |              | Mineralization               | Moderate     |
|                      | Renal Tubule | Regeneration                 | Mild         |
| Liver                |              | Clear Cell Focus             |              |
|                      |              | Hepatocellular Adenoma       |              |
|                      |              | Hyperplasia                  | Focal, Mild  |
| Note: HEPATOCLR ADEN | TGLs = 7-22  |                              |              |
| Lung                 |              | Alveolar/Bronchiolar Adenoma |              |
| Note: ALV BRON ADEN  | TGLs = 8-2-1 |                              |              |
| Lymph Node           | Mesenteric   | Hemorrhage                   | Minimal      |
| Note: HEMORRHAGE     | TGLs = 6-5   |                              |              |
| Preputial Gland      |              | Ectasia                      | Mild         |
| Seminal Vesicle      |              | Dilatation                   | Moderate     |
| Note: DILATATION     | TGLs = 4-7   |                              |              |
| Thyroid Gland        |              | Degeneration                 | Cystic, Mild |
| Urinary Bladder      |              | Hemorrhage                   | Moderate     |
| Note: HEMORRHAGE     | TGLs = 5-21  |                              |              |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 178

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042502

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 179

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042503

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Brain                   |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Nose                    |
| Parathyroid Gland         | Pituitary Gland          | Prostate                   | Seminal Vesicle         |
| Skin                      | Spleen                   | Stomach - Forestomach      | Stomach - Glandular     |
| Testes                    | Thymus                   | Trachea                    | Urinary Bladder         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                  |              |                              |                   |
|----------------------------------|--------------|------------------------------|-------------------|
| Adrenal Gland                    | Cortex       | Hyperplasia                  | Focal, Mild       |
| Epididymis                       |              | Fibrosis                     | Marked            |
|                                  |              | Inflammation                 | Chronic, Moderate |
| Islets, Pancreatic               |              | Hyperplasia                  | Minimal           |
| Kidney                           |              | Cyst                         |                   |
|                                  |              | Hyperplasia                  | Lymphoid, Minimal |
|                                  |              | Mineralization               | Moderate          |
|                                  | Renal Tubule | Regeneration                 | Moderate          |
| Liver                            | Hepatocyte   | Hyperplasia                  | Focal, Moderate   |
|                                  |              | Vacuolization Cytoplasmic    | Mild              |
| Note: HYPERPLASIA TGLs = 1-21    |              |                              |                   |
| Lung                             |              | Alveolar/Bronchiolar Adenoma |                   |
| Note: ALV BRON ADEN TGLs = 2-2-1 |              |                              |                   |
| Pancreas                         |              | Atrophy                      | Mild              |
| Salivary Glands                  |              | Hyperplasia                  | Lymphoid, Minimal |
| Thyroid Gland                    |              | Degeneration                 | Cystic, Minimal   |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 180      **TRT#:** 21      **SEX:** Male      **DAY ON TEST:** 626  
**DOSE:** 0.0140% CHLORINE      **DISP:** Moribund Sacrifice      **HISTO:** A87042504

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex     | Adrenal Gland - Medulla | Bone                      | Bone Marrow              |
| Brain                      | Epididymis              | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Lymph Node - Mesenteric  |
| Nose                       | Pancreas                | Prostate                  | Seminal Vesicle          |
| Skin                       | Stomach - Forestomach   | Testes                    | Thyroid Gland            |
| Trachea                    | Urinary Bladder         |                           |                          |

**MISSING**

|               |        |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

**INSUFFICIENT TISSUE**

|                         |                   |
|-------------------------|-------------------|
| Lymph Node - Mandibular | Parathyroid Gland |
|-------------------------|-------------------|

**OBSERVATIONS**

|                                     |               |                                  |                    |
|-------------------------------------|---------------|----------------------------------|--------------------|
| Islets, Pancreatic                  |               | Hyperplasia                      | Mild               |
| Kidney                              |               | Cyst                             |                    |
|                                     |               | Glomerulosclerosis               | Mild               |
|                                     |               | Hydronephrosis                   | Mild               |
|                                     |               | Hyperplasia                      | Lymphoid, Moderate |
|                                     | Renal Tubule  | Regeneration                     | Mild               |
| Note: HYPERPLASIA    TGLs = 4-5     |               |                                  |                    |
| Liver                               |               | Hepatocellular Carcinoma         |                    |
|                                     |               | Inflammation                     | Chronic, Moderate  |
| Note: HEPATOCLR CARC    TGLs = 3-21 |               |                                  |                    |
| Lung                                |               | Alveolar/Bronchiolar Adenoma     | Multiple, Two      |
| Pituitary Gland                     | Pars Distalis | Cyst                             |                    |
| Preputial Gland                     |               | Ectasia                          | Moderate           |
| Note: ECTASIA    TGLs = 1-8         |               |                                  |                    |
| Salivary Glands                     |               | Hyperplasia                      | Lymphoid, Minimal  |
| Spleen                              |               | Hemangioma                       |                    |
|                                     |               | Hematopoietic Cell Proliferation | Mild               |
| Note: [ HEMANGIOMA ]    TGLs = 6    |               |                                  |                    |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 180

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 626

**DOSE:** 0.0140% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042504

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: HEMA CELL PROL TGLs = 2-6

Stomach

Glandular

Mineralization

Minimal

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 181

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 551

**DOSE:** 0.0140% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042505

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Epididymis              | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Liver                      | Lung                    | Lymph Node - Mandibular   |
| Lymph Node - Mesenteric  | Nose                       | Pituitary Gland         | Prostate                  |
| Salivary Glands          | Seminal Vesicle            | Skin                    | Spleen                    |
| Stomach - Forestomach    | Testes                     | Trachea                 | Urinary Bladder           |

**MISSING**

|               |                   |        |
|---------------|-------------------|--------|
| Mammary Gland | Parathyroid Gland | Thymus |
|---------------|-------------------|--------|

**OBSERVATIONS**

|                                 |              |                                   |                            |
|---------------------------------|--------------|-----------------------------------|----------------------------|
| Adrenal Gland                   | Cortex       | Accessory Adrenal Cortical Nodule |                            |
| Bone Marrow                     |              | Carcinoma                         | Metastatic (Thyroid Gland) |
| Brain                           | Thalamus     | Mineralization                    | Mild                       |
| Kidney                          |              | Mineralization                    | Moderate                   |
|                                 | Renal Tubule | Regeneration                      | Minimal                    |
| Pancreas                        |              | Atrophy                           | Minimal                    |
| Preputial Gland                 |              | Ectasia                           | Moderate                   |
| Note: ECTASIA      TGLs = 1-8-1 |              |                                   |                            |
| Stomach                         | Glandular    | Cyst                              |                            |
|                                 | Glandular    | Mineralization                    | Minimal                    |
| Thyroid Gland                   | C Cell       | Carcinoma                         |                            |
| Note: [ CARCINOMA    ] TGLs = 3 |              |                                   |                            |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 182

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 698

**DOSE:** 0.0140% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042506

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Epididymis                |
| Esophagus                | Gallbladder                | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Liver                    | Lung                       | Lymph Node - Mesenteric | Nose                      |
| Pancreas                 | Parathyroid Gland          | Prostate                | Seminal Vesicle           |
| Stomach - Forestomach    | Stomach - Glandular        | Testes                  | Thymus                    |
| Trachea                  | Urinary Bladder            |                         |                           |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                    |               |                                   |                   |
|--------------------|---------------|-----------------------------------|-------------------|
| Adrenal Gland      | Cortex        | Accessory Adrenal Cortical Nodule |                   |
| Brain              | Thalamus      | Mineralization                    | Mild              |
| Heart              | Myocardium    | Inflammation                      | Chronic, Minimal  |
| Islets, Pancreatic |               | Hyperplasia                       | Minimal           |
| Kidney             | Renal Tubule  | Atrophy                           | Mild              |
|                    |               | Cyst                              |                   |
|                    |               | Hyperplasia                       | Lymphoid, Minimal |
|                    |               | Mineralization                    | Mild              |
|                    | Renal Tubule  | Regeneration                      | Mild              |
| Lymph Node         | Mandibular    | Hyperplasia                       | Lymphoid, Marked  |
|                    | Mandibular    | Hyperplasia                       | Plasma Cell, Mild |
| Pituitary Gland    | Pars Distalis | Cyst                              |                   |
| Salivary Glands    |               | Hyperplasia                       | Lymphoid, Minimal |
| Skin               |               | Acanthosis                        | Marked            |
|                    |               | Ulcer                             | Moderate          |
| Note: ULCER        | TGLs = 1-21   |                                   |                   |
| Note: ACANTHOSIS   | TGLs = 1-21   |                                   |                   |
| Spleen             | Lymph Follic  | Hyperplasia                       | Mild              |
| Thyroid Gland      |               | Degeneration                      | Cystic, Mild      |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 182

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 698

**DOSE:** 0.0140% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042506

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 183

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042507

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Pancreas                  | Parathyroid Gland        | Prostate                   | Seminal Vesicle         |
| Skin                      | Spleen                   | Stomach - Forestomach      | Stomach - Glandular     |
| Testes                    | Thymus                   | Thyroid Gland              | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                  |               |                        |                |
|----------------------------------|---------------|------------------------|----------------|
| Adrenal Gland                    | Cortex        | Hyperplasia            | Focal, Mild    |
| Brain                            | Thalamus      | Mineralization         | Mild           |
| Islets, Pancreatic               |               | Hyperplasia            | Mild           |
| Kidney                           |               | Mineralization         | Mild           |
|                                  | Renal Tubule  | Regeneration           | Minimal        |
| Liver                            |               | Hepatocellular Adenoma | Multiple, Two  |
| Note: HEPATOCLR ADEN TGLs = 1-21 |               |                        |                |
| Nose                             |               | Exudate                |                |
| Pituitary Gland                  | Pars Distalis | Cyst                   |                |
| Salivary Glands                  |               | Hyperplasia            | Lymphoid, Mild |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 184 | <b>TRT#:</b> 21               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 737 |
|                       | <b>DOSE:</b> 0.0140% CHLORINE | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042508 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Epididymis                |
| Esophagus                | Gallbladder                | Heart                   | Intestine Large - Cecum   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Lung                     | Lymph Node - Mandibular    | Lymph Node - Mesenteric | Mesentery                 |
| Nose                     | Pancreas                   | Parathyroid Gland       | Pituitary Gland           |
| Prostate                 | Salivary Glands            | Skin                    | Spleen                    |
| Stomach - Forestomach    | Stomach - Glandular        | Testes                  | Thymus                    |
| Trachea                  | Urinary Bladder            |                         |                           |

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**MISSING**

|                         |               |
|-------------------------|---------------|
| Intestine Large - Colon | Mammary Gland |
|-------------------------|---------------|

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**OBSERVATIONS**

|                                       |                |                        |                |
|---------------------------------------|----------------|------------------------|----------------|
| Adrenal Gland                         | Cortex         | Hyperplasia            | Focal, Minimal |
| Brain                                 | Thalamus       | Mineralization         | Minimal        |
| Islets, Pancreatic                    |                | Hyperplasia            | Mild           |
| Kidney                                |                | Mineralization         | Moderate       |
|                                       | Renal Tubule   | Regeneration           | Mild           |
| Liver                                 |                | Hepatocellular Adenoma | Multiple, Two  |
| Note: HEPATOCLR ADEN TGLs = 4-21,5-22 |                |                        |                |
| Preputial Gland                       |                | Ectasia                | Mild           |
| Seminal Vesicle                       |                | Dilatation             | Marked         |
| Note: DILATATION TGLs = 2-7           |                |                        |                |
| Thyroid Gland                         | Follicular Cel | Adenoma                |                |

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 185 | <b>TRT#:</b> 21               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 737 |
|                       | <b>DOSE:</b> 0.0140% CHLORINE | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042509 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    |
| Nose                    | Pancreas                  | Parathyroid Gland        | Pituitary Gland            |
| Prostate                | Salivary Glands           | Skin                     | Stomach - Forestomach      |
| Stomach - Glandular     | Testes                    | Thyroid Gland            | Tooth                      |
| Trachea                 | Urinary Bladder           |                          |                            |

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**MISSING**

|               |        |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

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**OBSERVATIONS**

|                                       |              |                                  |               |
|---------------------------------------|--------------|----------------------------------|---------------|
| Brain                                 | Thalamus     | Mineralization                   | Moderate      |
| Islets, Pancreatic                    |              | Hyperplasia                      | Minimal       |
| Kidney                                | Renal Tubule | Dilatation                       | Minimal       |
|                                       |              | Mineralization                   | Mild          |
|                                       | Renal Tubule | Regeneration                     | Minimal       |
| Liver                                 |              | Hepatocellular Carcinoma         | Multiple, Two |
| Note: HEPATOCLR CARC TGLs = 2-21,3-22 |              |                                  |               |
| Lymph Node                            | Mesenteric   | Hematopoietic Cell Proliferation | Minimal       |
|                                       | Mesenteric   | Hemorrhage                       | Moderate      |
| Seminal Vesicle                       |              | Dilatation                       | Marked        |
| Note: DILATATION TGLs = 1-7           |              |                                  |               |
| Spleen                                | Lymph Follic | Hyperplasia                      | Mild          |

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 186

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042510

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Salivary Glands          | Skin                       | Stomach - Forestomach   |
| Stomach - Glandular       | Testes                   | Thymus                     | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                       |              |                          |                  |
|---------------------------------------|--------------|--------------------------|------------------|
| Adrenal Gland                         | Cortex       | Cyst                     |                  |
| Brain                                 | Thalamus     | Mineralization           | Mild             |
| Coagulating Gland                     |              | Dilatation               | Moderate         |
| Note: DILATATION TGLs = 6-7-1         |              |                          |                  |
| Islets, Pancreatic                    |              | Hyperplasia              | Moderate         |
| Kidney                                |              | Cyst                     |                  |
|                                       |              | Metaplasia               | Osseous, Minimal |
|                                       |              | Mineralization           | Moderate         |
|                                       | Renal Tubule | Regeneration             | Mild             |
| Liver                                 |              | Hepatocellular Adenoma   | Multiple, Two    |
|                                       |              | Hepatocellular Carcinoma |                  |
|                                       |              | Hyperplasia              | Focal, Mild      |
| Note: [ HEPATOCLR CARC ] TGLs = 21    |              |                          |                  |
| Note: [ HEPATOCLR ADEN ] TGLs = 22,23 |              |                          |                  |
| Preputial Gland                       |              | Ectasia                  | Moderate         |
| Seminal Vesicle                       |              | Dilatation               | Moderate         |
| Note: DILATATION TGLs = 1-7           |              |                          |                  |
| Spleen                                |              | Angiectasis              | Mild             |
|                                       | Red Pulp     | Atrophy                  | Mild             |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 186

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042510

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Thyroid Gland

Degeneration

Cystic, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 187

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042511

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Nose                    |
| Pancreas                  | Parathyroid Gland        | Pituitary Gland            | Prostate                |
| Salivary Glands           | Skin                     | Spleen                     | Stomach - Forestomach   |
| Testes                    | Thymus                   | Trachea                    | Urinary Bladder         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                      |                  |                                  |               |
|----------------------|------------------|----------------------------------|---------------|
| Adrenal Gland        | Cortex           | Hyperplasia                      | Focal, Mild   |
| Brain                | Thalamus         | Mineralization                   | Mild          |
| Harderian Gland      |                  | Adenoma                          |               |
| Kidney               | Renal Tubule     | Casts Protein                    | Minimal       |
|                      |                  | Dilatation                       | Mild          |
|                      | Renal Tubule     | Mineralization                   | Moderate      |
|                      |                  | Regeneration                     | Moderate      |
| Liver                |                  | Clear Cell Focus                 |               |
|                      |                  | Hepatocellular Adenoma           |               |
| Note: CLEAR CL FOCUS | TGLs = 3-21,6-22 |                                  |               |
| Lung                 |                  | Alveolar/Bronchiolar Adenoma     |               |
| Note: ALV BRON ADEN  | TGLs = 5-2       |                                  |               |
| Lymph Node           | Mesenteric       | Hematopoietic Cell Proliferation | Minimal       |
|                      | Mesenteric       | Hemorrhage                       | Minimal       |
| Note: HEMORRHAGE     | TGLs = 4-5       |                                  |               |
| Note: HEMA CELL PROL | TGLs = 4-5       |                                  |               |
| Preputial Gland      |                  | Ectasia                          | Marked        |
|                      |                  | Inflammation                     | Chronic, Mild |
| Note: ECTASIA        | TGLs = 1-8       |                                  |               |
| Seminal Vesicle      |                  | Dilatation                       | Moderate      |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 187 | <b>TRT#:</b> 21               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 737 |
|                       | <b>DOSE:</b> 0.0140% CHLORINE | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042511 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                        |            |              |              |
|------------------------|------------|--------------|--------------|
| Note: DILATATION       | TGLs = 2-7 |              |              |
| Stomach                | Glandular  | Cyst         |              |
| Thyroid Gland          |            | Degeneration | Cystic, Mild |
| PRIMARY CAUSE OF DEATH | -          |              |              |

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 188

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 717

**DOSE:** 0.0140% CHLORINE

**DISP:** Natural Death

**HISTO:** A87042512

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mesenteric    | Pancreas                |
| Parathyroid Gland         | Prostate                 | Seminal Vesicle            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Stomach - Glandular        | Testes                  |
| Thymus                    | Trachea                  | Urinary Bladder            |                         |

**MISSING**

|                         |               |
|-------------------------|---------------|
| Lymph Node - Mandibular | Mammary Gland |
|-------------------------|---------------|

**OBSERVATIONS**

|   |                |                              |                   |
|---|----------------|------------------------------|-------------------|
| Adrenal Gland                           | Cortex         | Hyperplasia                  | Focal, Mild       |
| Brain                                   | Thalamus       | Mineralization               | Mild              |
| Kidney                                  | Renal Tubule   | Atrophy                      | Mild              |
|   |                | Cyst                         |                   |
|   |                | Hyperplasia                  | Lymphoid, Minimal |
|   |                | Mineralization               | Moderate          |
|   | Renal Tubule   | Regeneration                 | Minimal           |
| Liver                                   |                | Clear Cell Focus             |                   |
|   |                | Hyperplasia                  | Focal, Moderate   |
| Note: FOCAL HYPERPLASIA ALSO ON SLIDE 6 |                |                              |                   |
| Note: HYPERPLASIA TGLs = 2-21           |                |                              |                   |
| Lung                                    |                | Alveolar/Bronchiolar Adenoma |                   |
|   |                | Congestion                   | Mild              |
|   |                | Hemorrhage                   | Moderate          |
| Note: ALV BRON ADEN TGLs = 3-2          |                |                              |                   |
| Nose                                    | Glands         | Hyperplasia                  | Cystic, Minimal   |
| Pituitary Gland                         | Pars Distalis  | Cyst                         |                   |
| Salivary Glands                         |                | Hyperplasia                  | Lymphoid, Minimal |
| Thyroid Gland                           | Follicular Cel | Hyperplasia                  | Minimal           |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 188

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 717

**DOSE:** 0.0140% CHLORINE

**DISP:** Natural Death

**HISTO:** A87042512

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: INFUSION ARTIFACT IN URINARY BLADDER

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 189

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042513

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                           |                         |
|--------------------------|----------------------------|---------------------------|-------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow               | Esophagus               |
| Gallbladder              | Heart                      | Intestine Large - Cecum   | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Jejunum | Islets, Pancreatic      |
| Lymph Node - Mandibular  | Nose                       | Pancreas                  | Parathyroid Gland       |
| Pituitary Gland          | Salivary Glands            | Seminal Vesicle           | Skin                    |
| Stomach - Forestomach    | Stomach - Glandular        | Testes                    | Thymus                  |
| Thyroid Gland            | Trachea                    |                           |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|   |              |                          |                    |
|---|--------------|--------------------------|--------------------|
| Adrenal Gland   | Cortex       | Hyperplasia              | Focal, Mild        |
| Brain   | Thalamus     | Mineralization           | Mild               |
| Epididymis  |              | Lymphoma Malignant Mixed |                    |
| Intestine Small   | Ileum        | Lymphoma Malignant Mixed |                    |
| Note: LYMPH MAL MIXD TGLs = 4-21                                  |              |                          |                    |
| Kidney  | Renal Tubule | Atrophy                  | Mild               |
|   |              | Casts Protein            | Moderate           |
|   |              | Glomerulosclerosis       | Mild               |
|   |              | Hydronephrosis           | Mild               |
|   |              | Hyperplasia              | Lymphoid, Moderate |
|   | Renal Tubule | Regeneration             | Moderate           |
| Liver   |              | Hepatocellular Adenoma   | Multiple, Three    |
|   |              | Hepatocellular Carcinoma |                    |
|   |              | Hyperplasia              | Focal, Moderate    |
|   | Lobules      | Necrosis                 | Minimal            |
| Note: HEPATOCLR ADEN TGLs = 5-22,6-23                             |              |                          |                    |
| Note: HYPERPLASIA TGLs = 6-23                                     |              |                          |                    |
| Note: FOCAL HYPERPLASIA ALSO ON SLIDE 6; TWO ADENOMAS ON SLIDE 22 |              |                          |                    |
| Note: HEPATOCLR CARC TGLs = 7-24                                  |              |                          |                    |
| Lung  |              | Lymphoma Malignant Mixed |                    |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 189 | <b>TRT#:</b> 21               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 735 |
|                       | <b>DOSE:</b> 0.0140% CHLORINE | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042513 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|   |              |                          |          |
|---|--------------|--------------------------|----------|
| Lymph Node<br>Note: LYMPH MAL MIXD TGLs = 3-5 | Mesenteric   | Lymphoma Malignant Mixed |          |
| Preputial Gland<br>Note: ECTASIA TGLs = 1-8   |              | Ectasia                  | Moderate |
| Prostate                                      |              | Lymphoma Malignant Mixed |          |
| Spleen<br>Note: HYPERPLASIA TGLs = 2-6        | Lymph Follic | Hyperplasia              | Mild     |
| Urinary Bladder                               |              | Lymphoma Malignant Mixed |          |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 190

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 567

**DOSE:** 0.0140% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042514

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    |
| Lymph Node - Mesenteric | Nose                      | Pancreas                 | Parathyroid Gland          |
| Pituitary Gland         | Prostate                  | Salivary Glands          | Seminal Vesicle            |
| Skin                    | Spleen                    | Stomach - Forestomach    | Testes                     |
| Thymus                  | Thyroid Gland             | Trachea                  | Urinary Bladder            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                   |              |                        |                   |
|-----------------------------------|--------------|------------------------|-------------------|
| Brain                             | Thalamus     | Mineralization         | Minimal           |
| Islets, Pancreatic                |              | Hyperplasia            | Minimal           |
| Kidney                            |              | Cyst                   |                   |
|                                   |              | Mineralization         | Mild              |
|                                   | Renal Tubule | Regeneration           | Minimal           |
| Liver                             |              | Hepatocellular Adenoma | Multiple, Two     |
|                                   |              | Hyperplasia            | Focal, Mild       |
|                                   | Lobules      | Necrosis               | Minimal           |
| Note: HEPATOCLR ADEN TGLs = 5-21  |              |                        |                   |
| Preputial Gland                   |              | Ectasia                | Moderate          |
|                                   |              | Inflammation           | Chronic, Moderate |
| Note: INFLAMMATION TGLs = 1-8,4-8 |              |                        |                   |
| Note: ECTASIA TGLs = 1-8,4-8      |              |                        |                   |
| Stomach                           | Glandular    | Cyst                   |                   |
| Tooth                             |              | Dysplasia              | Moderate          |
| Note: DYSPLASIA TGLs = 2-9        |              |                        |                   |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 191

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042515

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                         |                          |                            |
|---------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla | Bone                     | Bone Marrow                |
| Epididymis                | Esophagus               | Gallbladder              | Heart                      |
| Intestine Large - Cecum   | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Jejunum | Lymph Node - Mandibular | Lymph Node - Mesenteric  | Nose                       |
| Pancreas                  | Pituitary Gland         | Prostate                 | Salivary Glands            |
| Skin                      | Spleen                  | Stomach - Forestomach    | Testes                     |
| Thymus                    | Thyroid Gland           | Trachea                  | Urinary Bladder            |

**MISSING**

|                         |               |                   |
|-------------------------|---------------|-------------------|
| Intestine Small - Ileum | Mammary Gland | Parathyroid Gland |
|-------------------------|---------------|-------------------|

**OBSERVATIONS**

|                                  |              |                              |                   |
|----------------------------------|--------------|------------------------------|-------------------|
| Brain                            | Thalamus     | Mineralization               | Minimal           |
| Islets, Pancreatic               |              | Hyperplasia                  | Moderate          |
| Kidney                           |              | Cyst                         |                   |
|                                  |              | Hyperplasia                  | Lymphoid, Minimal |
|                                  |              | Mineralization               | Mild              |
|                                  | Renal Tubule | Regeneration                 | Mild              |
| Liver                            |              | Clear Cell Focus             |                   |
|                                  |              | Hemorrhage                   | Minimal           |
|                                  |              | Hepatocellular Adenoma       |                   |
|                                  |              | Hyperplasia                  | Focal, Moderate   |
| Note: HYPERPLASIA TGLs = 4-22    |              |                              |                   |
| Note: CLEAR CL FOCUS TGLs = 4-22 |              |                              |                   |
| Note: HEPATOCLR ADEN TGLs = 2-21 |              |                              |                   |
| Lung                             |              | Alveolar/Bronchiolar Adenoma |                   |
| Note: [ ALV BRON ADEN ] TGLs = 2 |              |                              |                   |
| Preputial Gland                  |              | Ectasia                      | Moderate          |
|                                  |              | Inflammation                 | Chronic, Mild     |
| Note: ECTASIA TGLs = 3-8         |              |                              |                   |
| Seminal Vesicle                  |              | Dilatation                   | Moderate          |
| Note: DILATATION TGLs = 1-7      |              |                              |                   |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 191 | <b>TRT#:</b> 21               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 735 |
|                       | <b>DOSE:</b> 0.0140% CHLORINE | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042515 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|         |           |                |                |
|---------|-----------|----------------|----------------|
| Stomach | Glandular | Cyst           |                |
|         | Glandular | Inflammation   | Subacute, Mild |
|         | Glandular | Mineralization | Minimal        |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE





**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 192 | <b>TRT#:</b> 21               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 735 |
|                       | <b>DOSE:</b> 0.0140% CHLORINE | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042516 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                  |                |             |          |
|------------------|----------------|-------------|----------|
| Note: DILATATION | TGLs = 1-7     |             |          |
| Thyroid Gland    | Follicular Cel | Hyperplasia | Minimal  |
| Tooth            |                | Dysplasia   | Moderate |

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 193

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042517

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Medulla | Bone                      | Bone Marrow              | Brain                      |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lymph Node - Mandibular  | Nose                       |
| Pancreas                | Parathyroid Gland         | Pituitary Gland          | Prostate                   |
| Salivary Glands         | Seminal Vesicle           | Skin                     | Spleen                     |
| Stomach - Forestomach   | Stomach - Glandular       | Testes                   | Thymus                     |
| Trachea                 | Urinary Bladder           |                          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                    |              |                                   |                |
|--------------------|--------------|-----------------------------------|----------------|
| Adrenal Gland      | Cortex       | Accessory Adrenal Cortical Nodule |                |
|                    | Cortex       | Hyperplasia                       | Focal, Minimal |
| Islets, Pancreatic |              | Hyperplasia                       | Minimal        |
| Kidney             |              | Cyst                              |                |
|                    |              | Mineralization                    | Mild           |
|                    | Renal Tubule | Regeneration                      | Mild           |
| Liver              |              | Clear Cell Focus                  |                |
| Lung               |              | Hemorrhage                        | Minimal        |
| Lymph Node         | Mesenteric   | Hematopoietic Cell Proliferation  | Mild           |
|                    | Mesenteric   | Hemorrhage                        | Mild           |
| Thyroid Gland      |              | Degeneration                      | Cystic, Mild   |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 194

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 558

**DOSE:** 0.0140% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042518

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lymph Node - Mandibular  | Lymph Node - Mesenteric    |
| Nose                    | Pancreas                  | Parathyroid Gland        | Pituitary Gland            |
| Prostate                | Salivary Glands           | Seminal Vesicle          | Skin                       |
| Stomach - Forestomach   | Stomach - Glandular       | Testes                   | Thyroid Gland              |
| Trachea                 | Urinary Bladder           |                          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|   |              |                                  |                      |
|---|--------------|----------------------------------|----------------------|
| Brain   | Thalamus     | Mineralization                   | Mild                 |
| Harderian Gland                                 |              | Adenoma                          |                      |
| Islets, Pancreatic                              |              | Hyperplasia                      | Moderate             |
| Kidney  | Renal Tubule | Atrophy                          | Mild                 |
|   |              | Casts Protein                    | Moderate             |
|   |              | Mineralization                   | Mild                 |
|   | Renal Tubule | Regeneration                     | Moderate             |
| Liver   |              | Hepatocellular Carcinoma         |                      |
|   |              | Hyperplasia                      | Focal, Moderate      |
| Note: HEPATOCLR CARC TGLs = 2-21                |              |                                  |                      |
| Note: PORTION OF HEPATOCELLULAR CARC ON SLIDE 6 |              |                                  |                      |
| Lung  |              | Alveolar/Bronchiolar Carcinoma   |                      |
|   |              | Infiltration Cellular            | Histiocyte, Moderate |
| Note: ALV BRON CARC TGLs = 3-2-1                |              |                                  |                      |
| Spleen  |              | Hematopoietic Cell Proliferation | Mild                 |
| Thymus  |              | Cyst                             |                      |
|   |              | Depletion Cellular               | Mild                 |
| Tooth   |              | Dysplasia                        | Moderate             |

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 194

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 558

**DOSE:** 0.0140% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042518

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 195

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 734

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042519

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Nose                     | Pancreas                   | Pituitary Gland         |
| Prostate                  | Salivary Glands          | Skin                       | Spleen                  |
| Stomach - Forestomach     | Stomach - Glandular      | Testes                     | Thymus                  |
| Trachea                   | Urinary Bladder          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|  |              |                        |                |
|--|--------------|------------------------|----------------|
| Adrenal Gland  | Cortex       | Clear Cell Focus       |                |
| Brain  | Thalamus     | Mineralization         | Mild           |
| Harderian Gland  |              | Adenoma                |                |
| Kidney   | Renal Tubule | Atrophy                | Minimal        |
|  |              | Granuloma              | Mild           |
|  |              | Mineralization         | Moderate       |
|  | Renal Tubule | Regeneration           | Moderate       |
| Liver  |              | Hepatocellular Adenoma | Four, Multiple |
| Note: TWO HEPATOCELLULAR ADENOMAS ON SLIDE 22 AND ONE ON SLIDE 6 |              |                        |                |
| Note: HEPATOCLR ADEN TGLs = 4-22,5-23                            |              |                        |                |
| Parathyroid Gland  |              | Cyst                   |                |
| Seminal Vesicle  |              | Dilatation             | Marked         |
| Note: DILATATION TGLs = 2-7                                      |              |                        |                |
| Thyroid Gland  |              | Degeneration           | Cystic, Mild   |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 196

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 734

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042520

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lymph Node - Mandibular  | Nose                       |
| Pancreas                | Parathyroid Gland         | Pituitary Gland          | Prostate                   |
| Salivary Glands         | Seminal Vesicle           | Skin                     | Spleen                     |
| Stomach - Forestomach   | Testes                    | Thyroid Gland            | Trachea                    |
| Urinary Bladder         |                           |                          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                    |              |                              |                |
|--------------------|--------------|------------------------------|----------------|
| Brain              | Thalamus     | Mineralization               | Moderate       |
| Islets, Pancreatic |              | Hyperplasia                  | Mild           |
| Kidney             |              | Cyst                         |                |
|                    |              | Mineralization               | Mild           |
|                    | Renal Tubule | Regeneration                 | Moderate       |
| Liver              |              | Clear Cell Focus             |                |
|                    |              | Hepatocellular Adenoma       | Multiple, Two  |
|                    |              | Hyperplasia                  | Focal, Mild    |
|                    |              |                              |                |
|                    |              | Alveolar/Bronchiolar Adenoma |                |
| Lung               |              |                              |                |
| Lymph Node         | Mesenteric   | Hemorrhage                   | Minimal        |
| Stomach            | Glandular    | Inflammation                 | Subacute, Mild |
| Thymus             |              | Cyst                         |                |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 197

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 734

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042521

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Skin                     | Spleen                     | Stomach - Forestomach   |
| Stomach - Glandular       | Testes                   | Thymus                     | Thyroid Gland           |
| Trachea                   |                          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                   |                  |                |                   |
|-------------------|------------------|----------------|-------------------|
| Adrenal Gland     | Cortex           | Hyperplasia    | Focal, Minimal    |
| Brain             | Thalamus         | Mineralization | Minimal           |
| Kidney            |                  | Cyst           |                   |
|                   |                  | Mineralization | Mild              |
|                   | Renal Tubule     | Regeneration   | Mild              |
| Liver             |                  | Hyperplasia    | Focal, Mild       |
| Note: HYPERPLASIA | TGLs = 3-22,4-23 |                |                   |
| Lung              | Alveolar Epith   | Hyperplasia    | Minimal           |
| Preputial Gland   |                  | Ectasia        | Moderate          |
|                   |                  | Inflammation   | Chronic, Mild     |
| Note: ECTASIA     | TGLs = 1-8       |                |                   |
| Salivary Glands   |                  | Hyperplasia    | Lymphoid, Minimal |
| Seminal Vesicle   |                  | Dilatation     | Moderate          |
| Urinary Bladder   |                  | Hyperplasia    | Lymphoid, Minimal |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 198

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 726

**DOSE:** 0.0140% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042522

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Medulla    | Bone                    | Epididymis                | Esophagus                |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Lymph Node - Mandibular    | Lymph Node - Mesenteric | Nose                      | Pancreas                 |
| Parathyroid Gland          | Pituitary Gland         | Prostate                  | Salivary Glands          |
| Seminal Vesicle            | Skin                    | Stomach - Forestomach     | Testes                   |
| Thyroid Gland              | Trachea                 | Urinary Bladder           |                          |

**MISSING**

|             |               |
|-------------|---------------|
| Gallbladder | Mammary Gland |
|-------------|---------------|

**OBSERVATIONS**

|                                  |                   |                                  |                    |
|----------------------------------|-------------------|----------------------------------|--------------------|
| Adrenal Gland                    | Cortex            | Developmental Malformation       |                    |
| Bone Marrow                      |                   | Hypercellularity                 | Mild               |
| Brain                            | Thalamus          | Mineralization                   | Minimal            |
| Kidney                           | Renal Tubule      | Casts Protein                    | Mild               |
|                                  |                   | Dilatation                       | Minimal            |
|                                  |                   | Hydronephrosis                   | Mild               |
|                                  | Renal Tubule      | Regeneration                     | Minimal            |
| Liver                            |                   | Hepatocellular Carcinoma         |                    |
| Note: HEPATOCLR CARC TGLs = 1-21 |                   |                                  |                    |
| Lung                             |                   | Congestion                       | Mild               |
|                                  |                   | Hepatocellular Carcinoma         | Metastatic (Liver) |
|                                  | Alveolar Epith    | Hyperplasia                      | Mild               |
| Spleen                           |                   | Hematopoietic Cell Proliferation | Mild               |
| Stomach                          | Glandular, Mucosa | Hyperplasia                      | Mild               |
| Note: HYPERPLASIA TGLs = 2-4-1   |                   |                                  |                    |
| Thymus                           |                   | Depletion Cellular               | Moderate           |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 199

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 734

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042523

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Salivary Glands          | Seminal Vesicle            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Stomach - Glandular        | Testes                  |
| Thymus                    | Thyroid Gland            | Trachea                    | Urinary Bladder         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                     |              |                              |                     |
|---------------------|--------------|------------------------------|---------------------|
| Adrenal Gland       | Cortex       | Developmental Malformation   |                     |
|                     | Cortex       | Hyperplasia                  | Focal, Mild         |
| Brain               | Thalamus     | Mineralization               | Moderate            |
| Kidney              | Renal Tubule | Dilatation                   | Minimal             |
|                     |              | Mineralization               | Minimal             |
|                     | Renal Tubule | Regeneration                 | Mild                |
| Liver               |              | Hyperplasia                  | Focal, Minimal      |
| Note: HYPERPLASIA   | TGLs = 3-21  |                              |                     |
| Lung                |              | Alveolar/Bronchiolar Adenoma |                     |
| Note: ALV BRON ADEN | TGLs = 2-2-1 |                              |                     |
| Preputial Gland     |              | Ectasia                      | Marked              |
|                     |              | Inflammation                 | Suppurative, Marked |
|                     |              | Inflammation                 | Chronic, Marked     |
| Note: INFLAMMATION  | TGLs = 1-8-1 |                              |                     |
| Note: INFLAMMATION  | TGLs = 1-8-1 |                              |                     |
| Note: ECTASIA       | TGLs = 1-8-1 |                              |                     |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 200      **TRT#:** 21      **SEX:** Male      **DAY ON TEST:** 565  
**DOSE:** 0.0140% CHLORINE      **DISP:** Moribund Sacrifice      **HISTO:** A87042524

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    | Nose                    |
| Pancreas                  | Parathyroid Gland        | Pituitary Gland            | Prostate                |
| Salivary Glands           | Seminal Vesicle          | Skin                       | Stomach - Forestomach   |
| Stomach - Glandular       | Testes                   | Trachea                    | Urinary Bladder         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|  |               |                                  |                 |
|--|---------------|----------------------------------|-----------------|
| Adrenal Gland  | Cortex        | Clear Cell Focus                 |                 |
| Brain  | Thalamus      | Mineralization                   | Minimal         |
| Islets, Pancreatic   |               | Hyperplasia                      | Mild            |
| Kidney   |               | Mineralization                   | Minimal         |
|  | Renal Tubule  | Regeneration                     | Minimal         |
| Liver  |               | Hemangiosarcoma                  |                 |
|  |               | Hepatocellular Adenoma           |                 |
|  |               | Hyperplasia                      | Focal, Mild     |
|  | Centrilobular | Necrosis                         | Moderate        |
| Note: [ HEMANGIOSARC ] TGLs = 21                                 |               |                                  |                 |
| Note: [ HEPATOCLR ADEN ] TGLs = 22                               |               |                                  |                 |
| Note: HYPERPLASIA TGLs = 4-23                                    |               |                                  |                 |
| Note: ZONE OF NECROSIS ADJACENT TO FOCAL HYPERPLASIA ON SLIDE 23 |               |                                  |                 |
| Lymph Node   | Mesenteric    | Hematopoietic Cell Proliferation | Minimal         |
|  | Mesenteric    | Hemorrhage                       | Minimal         |
| Note: HEMORRHAGE TGLs = 1-5                                      |               |                                  |                 |
| Note: HEMA CELL PROL TGLs = 1-5                                  |               |                                  |                 |
| Spleen   |               | Hematopoietic Cell Proliferation | Mild            |
| Thymus   |               | Depletion Cellular               | Mild            |
| Thyroid Gland  |               | Degeneration                     | Cystic, Minimal |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 200

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 565

**DOSE:** 0.0140% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042524

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 201

**TRT#:** 22

**SEX:** Male

**DAY ON TEST:** 99

**DOSE:** 0.0140% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** 33841

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**OBSERVATIONS**

Kidney

Renal Tubule

Regeneration

Minimal

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 206

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 455

**DOSE:** 0.0140% CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** A86037684

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Pancreas

**OBSERVATIONS**

|                                    |              |                                  |                  |
|------------------------------------|--------------|----------------------------------|------------------|
| Kidney                             | Renal Tubule | Dilatation                       | Minimal          |
|                                    |              | Inflammation                     | Chronic, Minimal |
|                                    |              | Mineralization                   | Minimal          |
|                                    | Renal Tubule | Regeneration                     | Mild             |
| Note: [ DILATATION ] TGLs = 5      |              |                                  |                  |
| Liver                              |              | Hepatocellular Carcinoma         |                  |
| Note: [ HEPATOCLR CARC ] TGLs = 21 |              |                                  |                  |
| Spleen                             |              | Hematopoietic Cell Proliferation | Moderate         |
| Note: HEMA CELL PROL TGLs = 1-6    |              |                                  |                  |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 207

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 457

**DOSE:** 0.0140% CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** A86037685

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**OBSERVATIONS**

Kidney

Renal Tubule

Dilatation

Minimal

Mineralization

Mild

Renal Tubule

Regeneration

Mild

Note: [ DILATATION ] TGLs = 5

Liver

Hepatocyte

Cytomegaly

Moderate

Hepatocellular Adenoma

Hepatocyte

Vacuolization Cytoplasmic

Moderate

Note: HEPATOCLR ADEN TGLs = 1-21

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 208

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 457

**DOSE:** 0.0140% CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** A86037686

**OBSERVATIONS**

Kidney

Renal Tubule

Dilatation

Minimal

Mineralization

Moderate

Renal Tubule

Regeneration

Mild

Note: [ DILATATION ] TGLs = 5

Liver

Hepatocyte

Clear Cell Focus

Mild

Cytomegaly

Hepatocellular Carcinoma

Hepatocyte

Vacuolization Cytoplasmic

Moderate

Note: HEPATOCLR CARC TGLs = 1-21

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 209

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 455

**DOSE:** 0.0140% CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** A86037687

**OBSERVATIONS**

Kidney

Casts Protein

Mild

Inflammation

Chronic, Moderate

Mineralization

Minimal

Regeneration

Moderate

Liver

Renal Tubule

Hepatocellular Carcinoma

Multiple, Two

Hepatocyte

Vacuolization Cytoplasmic

Mild

Note: THE HEPATOCELLULAR VACUOLIZATION IS PRIMARILY CENTRIOBULAR.

Note: HEPATOCLR CARC TGLs = 2-22,3-23

Mesentery

Fat

Necrosis

Mild

Note: NECROSIS TGLs = 1-21

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 210

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0.0140% CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** A86037688

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**OBSERVATIONS**

Kidney

Renal Tubule

Dilatation

Mild

Inflammation

Chronic, Minimal

Mineralization

Moderate

Regeneration

Mild

Note: [ DILATATION ] TGLs = 5

Renal Tubule

Dilatation

Moderate

Seminal Vesicle

Note: DILATATION TGLs = 1-7

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 211

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 698

**DOSE:** 0.00700%CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042619

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    | Pancreas                |
| Parathyroid Gland         | Pituitary Gland          | Prostate                   | Salivary Glands         |
| Skin                      | Spleen                   | Stomach - Forestomach      | Stomach - Glandular     |
| Testes                    | Trachea                  | Urinary Bladder            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|   |              |                        |                 |
|---|--------------|------------------------|-----------------|
| Adrenal Gland   | Cortex       | Hyperplasia            | Focal, Minimal  |
| Brain   | Thalamus     | Mineralization         | Minimal         |
| Islets, Pancreatic  |              | Hyperplasia            | Mild            |
| Kidney  |              | Cyst                   |                 |
|   |              | Mineralization         | Moderate        |
|   | Renal Tubule | Regeneration           | Minimal         |
| Liver   |              | Hepatoblastoma         |                 |
|   |              | Hepatocellular Adenoma |                 |
|   |              | Mixed Cell Focus       |                 |
| <p>Note: HEPATOCLR ADEN TGLs = 1-21<br/>           Note: HEPATOBLASTOMA TGLs = 1-21<br/>           Note: MIXED CELL FOCUS ON SLIDE 21</p> |              |                        |                 |
| Lymph Node  | Mesenteric   | Hemorrhage             | Minimal         |
| Nose  | Glands       | Hyperplasia            | Cystic, Minimal |
| Seminal Vesicle   |              | Dilatation             | Mild            |
| Thymus  |              | Cyst                   |                 |
| Thyroid Gland   | Follicle     | Cyst                   |                 |
|   |              | Degeneration           | Cystic, Mild    |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 212

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042620

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Medulla | Bone                      | Bone Marrow              | Brain                      |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    |
| Nose                    | Pancreas                  | Parathyroid Gland        | Pituitary Gland            |
| Prostate                | Salivary Glands           | Seminal Vesicle          | Skin                       |
| Stomach - Forestomach   | Stomach - Glandular       | Testes                   | Thymus                     |
| Trachea                 | Urinary Bladder           |                          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                  |                |                                  |          |
|----------------------------------|----------------|----------------------------------|----------|
| Adrenal Gland                    | Cortex         | Clear Cell Focus                 |          |
| Kidney                           |                | Mineralization                   | Mild     |
| Liver                            |                | Hepatocellular Carcinoma         |          |
| Note: HEPATOCLR CARC TGLs = 1-21 |                |                                  |          |
| Lung                             |                | Hemorrhage                       | Mild     |
|                                  | Alveolar Epith | Hyperplasia                      | Moderate |
| Lymph Node                       | Mesenteric     | Hemorrhage                       | Minimal  |
| Spleen                           |                | Hematopoietic Cell Proliferation | Minimal  |
| Thyroid Gland                    | Follicular Cel | Hyperplasia                      | Mild     |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 213

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042621

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex   | Adrenal Gland - Medulla    | Bone                    | Bone Marrow               |
| Brain                    | Coagulating Gland          | Epididymis              | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   |
| Nose                     | Pancreas                   | Parathyroid Gland       | Prostate                  |
| Salivary Glands          | Spleen                     | Stomach - Forestomach   | Stomach - Glandular       |
| Testes                   | Thymus                     | Trachea                 | Urinary Bladder           |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                       |               |                        |                   |
|---------------------------------------|---------------|------------------------|-------------------|
| Kidney                                | Renal Tubule  | Atrophy                | Minimal           |
|                                       |               | Cyst                   |                   |
|                                       |               | Hyperplasia            | Lymphoid, Minimal |
|                                       |               | Mineralization         | Mild              |
|                                       | Renal Tubule  | Regeneration           | Moderate          |
| Liver                                 |               | Hepatocellular Adenoma | Multiple, Two     |
| Note: HEPATOCLR ADEN TGLs = 1-21,2-22 |               |                        |                   |
| Pituitary Gland                       | Pars Distalis | Cyst                   |                   |
| Seminal Vesicle                       |               | Dilatation             | Moderate          |
| Note: DILATATION TGLs = 4-7           |               |                        |                   |
| Skin                                  |               | Inflammation           | Chronic, Minimal  |
| Thyroid Gland                         |               | Degeneration           | Cystic, Mild      |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 214

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 727

**DOSE:** 0.00700%CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042622

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Nose                    |
| Pancreas                  | Parathyroid Gland        | Pituitary Gland            | Prostate                |
| Salivary Glands           | Skin                     | Spleen                     | Stomach - Forestomach   |
| Stomach - Glandular       | Testes                   | Thymus                     | Trachea                 |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|  |              |                              |                       |
|--|--------------|------------------------------|-----------------------|
| Adrenal Gland                                    | Cortex       | Hyperplasia                  | Focal, Mild           |
| Brain  | Thalamus     | Mineralization               | Minimal               |
| Coagulating Gland                                |              | Dilatation                   | Mild                  |
| Note: DILATATION TGLs = 11-7                     |              |                              |                       |
| Eye  | Cornea       | Inflammation                 | Suppurative, Moderate |
| Note: INFLAMMATION TGLs = 9-25                   |              |                              |                       |
| Harderian Gland                                  |              | Adenoma                      |                       |
| Note: ADENOMA TGLs = 8-25                        |              |                              |                       |
| Islets, Pancreatic                               |              | Hyperplasia                  | Marked                |
| Kidney   | Renal Tubule | Atrophy                      | Minimal               |
|  |              | Cyst                         |                       |
|  |              | Mineralization               | Mild                  |
|  | Renal Tubule | Regeneration                 | Mild                  |
| Note: CYST TGLs = 2-5                            |              |                              |                       |
| Liver  |              | Hepatocellular Adenoma       | Four, Multiple        |
| Note: [ HEPATOCLR ADEN ] TGLs = 21,22,23,24      |              |                              |                       |
| Lung   |              | Alveolar/Bronchiolar Adenoma | Multiple, Two         |
|  |              | Infiltration Cellular        | Histiocyte, Minimal   |
| Note: ALV BRON ADEN TGLs = 7-2-1                 |              |                              |                       |
| Note: ALVEOLAR BRONCHIAL ADENOMA ALSO ON SLIDE 2 |              |                              |                       |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 214 | <b>TRT#:</b> 25               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 727 |
|                       | <b>DOSE:</b> 0.00700%CHLORINE | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87042622 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|  |              |                   |
|--|--------------|-------------------|
| Preputial Gland<br>Note: ECTASIA      TGLs = 1-8-1   | Ectasia      | Moderate          |
| Seminal Vesicle<br>Note: DILATATION      TGLs = 10-7 | Dilatation   | Mild              |
| Thyroid Gland  | Degeneration | Cystic, Minimal   |
| Urinary Bladder                                      | Hyperplasia  | Lymphoid, Minimal |

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PRIMARY CAUSE OF DEATH      -

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\* PROTOCOL REQUIRED TISSUE





**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 216

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 601

**DOSE:** 0.00700%CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042624

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Liver                    | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Salivary Glands          | Seminal Vesicle            | Skin                    |
| Stomach - Forestomach     | Testes                   | Thyroid Gland              | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                       |              |                                   |                   |
|---------------------------------------|--------------|-----------------------------------|-------------------|
| Adrenal Gland                         | Cortex       | Accessory Adrenal Cortical Nodule |                   |
| Brain                                 | Thalamus     | Mineralization                    | Mild              |
| Islets, Pancreatic                    |              | Hyperplasia                       | Minimal           |
| Kidney                                |              | Mineralization                    | Moderate          |
|                                       | Renal Tubule | Regeneration                      | Mild              |
| Lung                                  |              | Hyperplasia                       | Lymphoid, Minimal |
| Spleen                                |              | Lymphoma Malignant Mixed          |                   |
| Note: LYMPH MAL MIXD TGLs = 1-6,2-6-1 |              |                                   |                   |
| Stomach                               | Glandular    | Erosion                           | Mild              |
| Thymus                                |              | Cyst                              |                   |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 217

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 548

**DOSE:** 0.00700%CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042625

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Nose                      | Parathyroid Gland        | Pituitary Gland            | Prostate                |
| Seminal Vesicle           | Skin                     | Spleen                     | Stomach - Forestomach   |
| Testes                    | Trachea                  | Urinary Bladder            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|  |              |                              |                   |
|--|--------------|------------------------------|-------------------|
| Adrenal Gland  | Cortex       | Clear Cell Focus             |                   |
| Brain  |              | Hemorrhage                   | Mild              |
|  | Thalamus     | Mineralization               | Minimal           |
| Kidney   |              | Mineralization               | Minimal           |
|  | Renal Tubule | Regeneration                 | Minimal           |
| Liver  |              | Hepatocellular Carcinoma     |                   |
|  | Lobules      | Necrosis                     | Minimal           |
| Note: HEPATOCLR CARC TGLs = 3-21                                   |              |                              |                   |
| Lung   |              | Alveolar/Bronchiolar Adenoma |                   |
| Note: ALV BRON ADEN TGLs = 4-2-1                                   |              |                              |                   |
| Pancreas   |              | Cytoplasmic Alteration       | Marked            |
| Note: CYTOPLASMIC ALTERATION CONSISTS OF ZYMOGEN GRANULE DEPLETION |              |                              |                   |
| Note: FROM ACINAR CELLS  |              |                              |                   |
| Note: CYTOPLAS ALTER TGLs = 1-7                                    |              |                              |                   |
| Salivary Glands  |              | Hyperplasia                  | Lymphoid, Minimal |
| Stomach  | Glandular    | Erosion                      | Moderate          |
| Note: EROSION TGLs = 2-7   |              |                              |                   |
| Thymus   |              | Depletion Cellular           | Moderate          |
| Thyroid Gland  |              | Degeneration                 | Cystic, Mild      |

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 217

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 548

**DOSE:** 0.00700%CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042625

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 218 | <b>TRT#:</b> 25               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 626 |
|                       | <b>DOSE:</b> 0.00700%CHLORINE | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87042626 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Epididymis                |
| Esophagus                | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular | Nose                      |
| Pancreas                 | Pituitary Gland            | Prostate                | Salivary Glands           |
| Seminal Vesicle          | Skin                       | Stomach - Forestomach   | Stomach - Glandular       |
| Testes                   | Thymus                     | Thyroid Gland           | Trachea                   |
| Urinary Bladder          |                            |                         |                           |

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**MISSING**

|             |               |
|-------------|---------------|
| Gallbladder | Mammary Gland |
|-------------|---------------|

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**INSUFFICIENT TISSUE**

Parathyroid Gland

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**OBSERVATIONS**

|                                  |              |                          |                 |
|----------------------------------|--------------|--------------------------|-----------------|
| Adrenal Gland                    | Cortex       | Hyperplasia              | Focal, Moderate |
| Brain                            | Thalamus     | Mineralization           | Mild            |
| Kidney                           | Renal Tubule | Regeneration             | Minimal         |
| Liver                            |              | Hepatocellular Carcinoma |                 |
| Note: HEPATOCLR CARC TGLs = 1-21 |              |                          |                 |
| Lymph Node                       | Mesenteric   | Hemorrhage               | Minimal         |
| Spleen                           | Lymph Follic | Hyperplasia              | Mild            |
| Note: HYPERPLASIA TGLs = 2-6     |              |                          |                 |

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 219

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042627

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Seminal Vesicle          | Skin                       | Spleen                  |
| Stomach - Forestomach     | Stomach - Glandular      | Testes                     | Thymus                  |
| Thyroid Gland             | Trachea                  | Urinary Bladder            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                      |              |                           |                |
|----------------------|--------------|---------------------------|----------------|
| Adrenal Gland        | Cortex       | Hyperplasia               | Focal, Minimal |
| Brain                | Thalamus     | Mineralization            | Mild           |
| Kidney               |              | Cyst                      |                |
|                      |              | Mineralization            | Moderate       |
|                      | Renal Tubule | Regeneration              | Moderate       |
| Liver                |              | Clear Cell Focus          |                |
|                      |              | Hepatocellular Adenoma    |                |
|                      | Hepatocyte   | Vacuolization Cytoplasmic | Mild           |
| Note: HEPATOCLR ADEN | TGLs = 2-21  |                           |                |
| Note: CLEAR CL FOCUS | TGLs = 3-21  |                           |                |
| Lung                 |              | Hyperplasia               | Lymphoid, Mild |
| Preputial Gland      |              | Ectasia                   | Marked         |
| Note: ECTASIA        | TGLs = 1-8   |                           |                |
| Salivary Glands      |              | Hyperplasia               | Lymphoid, Mild |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 220

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 668

**DOSE:** 0.00700%CHLORINE

**DISP:** Natural Death

**HISTO:** A87042628

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       |
| Lymph Node - Mandibular | Nose                      | Pancreas                 | Parathyroid Gland          |
| Pituitary Gland         | Prostate                  | Seminal Vesicle          | Skin                       |
| Stomach - Forestomach   | Testes                    | Thyroid Gland            | Trachea                    |
| Urinary Bladder         |                           |                          |                            |

**MISSING**

|                         |               |
|-------------------------|---------------|
| Lymph Node - Mesenteric | Mammary Gland |
|-------------------------|---------------|

**OBSERVATIONS**

|                      |              |                          |                   |
|----------------------|--------------|--------------------------|-------------------|
| Brain                | Thalamus     | Mineralization           | Mild              |
| Harderian Gland      |              | Adenoma                  |                   |
| Note: ADENOMA        | TGLs = 4-9-1 |                          |                   |
| Kidney               | Renal Tubule | Atrophy                  | Minimal           |
|                      | Renal Tubule | Dilatation               | Minimal           |
|                      |              | Mineralization           | Mild              |
|                      | Renal Tubule | Necrosis                 | Minimal           |
|                      | Renal Tubule | Regeneration             | Minimal           |
| Liver                |              | Hepatocellular Carcinoma |                   |
| Note: HEPATOCLR CARC | TGLs = 2-21  |                          |                   |
| Salivary Glands      |              | Hyperplasia              | Lymphoid, Minimal |
| Spleen               | Lymph Follic | Atrophy                  | Moderate          |
|                      |              | Pigmentation             | Hemosiderin, Mild |
| Stomach              | Glandular    | Erosion                  | Mild              |
| Note: EROSION        | TGLs = 3-4   |                          |                   |
| Thymus               |              | Depletion Cellular       | Mild              |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 221

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042629

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Medulla | Bone                      | Bone Marrow              | Brain                      |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    |
| Nose                    | Pancreas                  | Parathyroid Gland        | Pituitary Gland            |
| Skin                    | Spleen                    | Stomach - Forestomach    | Stomach - Glandular        |
| Testes                  | Thymus                    | Thyroid Gland            | Trachea                    |
| Urinary Bladder         |                           |                          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|   |                           |  |                                       |
|---|---------------------------|--|---------------------------------------|
| Adrenal Gland   | Capsule, Cortex<br>Cortex | Adenoma<br>Clear Cell Focus                      |                                       |
| Kidney  | Renal Tubule              | Atrophy<br>Cyst<br>Hyperplasia<br>Mineralization | Mild<br><br>Lymphoid, Minimal<br>Mild |
|   | Renal Tubule              | Regeneration                                     | Mild                                  |
| Liver   |                           | Clear Cell Focus<br>Hepatocellular Adenoma       | Multiple, Two                         |
| Note: CLEAR CELL FOCUS IS ON SLIDE 21<br>Note: HEPATOCELLULAR ADENOMA ALSO ON SLIDE 6<br>Note: HEPATOCLR ADEN TGLs = 3-21 |                           |  |                                       |
| Lung  |                           | Alveolar/Bronchiolar Carcinoma                   |                                       |
| Note: [ ALV BRON CARC ] TGLs = 2  |                           |  |                                       |
| Lymph Node  | Mesenteric<br>Mesenteric  | Hematopoietic Cell Proliferation<br>Hemorrhage   | Minimal<br>Minimal                    |
| Prostate  |                           | Inflammation                                     | Chronic, Mild                         |
| Salivary Glands   |                           | Hyperplasia                                      | Lymphoid, Mild                        |
| Seminal Vesicle   |                           | Dilatation                                       | Marked                                |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 221

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042629

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: DILATATION      TGLs = 1-7

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 222

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042630

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                         |                          |                            |
|---------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Medulla   | Bone                    | Bone Marrow              | Brain                      |
| Epididymis                | Esophagus               | Gallbladder              | Heart                      |
| Intestine Large - Cecum   | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Jejunum | Islets, Pancreatic      | Lung                     | Lymph Node - Mandibular    |
| Parathyroid Gland         | Pituitary Gland         | Prostate                 | Skin                       |
| Spleen                    | Stomach - Forestomach   | Stomach - Glandular      | Testes                     |
| Thymus                    | Thyroid Gland           | Trachea                  | Urinary Bladder            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|   |                           |   |                                       |
|---|---------------------------|---|---------------------------------------|
| Adrenal Gland                           | Capsule, Cortex<br>Cortex | Hyperplasia<br>Hyperplasia                            | Mild<br>Focal, Mild                   |
| Intestine Small                         | Ileum                     | Lymphoma Malignant Mixed                              |                                       |
| [ Lymphoma Malignant Mixed TGLS = 4-4 ] |                           |   |                                       |
| Kidney                                  |                           | Casts Protein<br>Cyst<br>Mineralization               | Minimal<br>Mild                       |
| Liver                                   | Renal Tubule              | Regeneration<br>Hepatocellular Adenoma<br>Hyperplasia | Moderate<br>Focal, Moderate           |
| Note: [ HEPATOCLR ADEN ] TGLs = 21      |                           |   |                                       |
| Lymph Node                              | Mesenteric<br>Mesenteric  | Hyperplasia<br>Hyperplasia                            | Plasma Cell, Marked<br>Lymphoid, Mild |
| [ Hyperplasia TGLS = 2-5 ]              |                           |   |                                       |
| [ Hyperplasia TGLS = 2-5 ]              |                           |   |                                       |
| Nose                                    | Glands                    | Hyperplasia   | Cystic, Minimal                       |
| Pancreas                                |                           | Atrophy   | Minimal                               |
| Salivary Glands                         |                           | Hyperplasia   | Lymphoid, Minimal                     |
| Seminal Vesicle                         |                           | Dilatation  | Moderate                              |
| Note: DILATATION TGLs = 1-7             |                           |   |                                       |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 222

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042630

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 223

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042631

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Medulla | Bone                      | Bone Marrow              | Brain                      |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      |
| Lung                    | Lymph Node - Mandibular   | Nose                     | Pancreas                   |
| Parathyroid Gland       | Pituitary Gland           | Prostate                 | Seminal Vesicle            |
| Skin                    | Stomach - Forestomach     | Testes                   | Thymus                     |
| Trachea                 | Urinary Bladder           |                          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                   |                   |                  |                   |
|-------------------|-------------------|------------------|-------------------|
| Adrenal Gland     | Cortex            | Clear Cell Focus |                   |
|                   | Cortex            | Hyperplasia      | Focal, Mild       |
| Kidney            | Renal Tubule      | Dilatation       | Minimal           |
|                   |                   | Mineralization   | Mild              |
|                   | Renal Tubule      | Regeneration     | Minimal           |
| Lymph Node        | Mesenteric        | Hemorrhage       | Mild              |
| Salivary Glands   |                   | Hyperplasia      | Lymphoid, Mild    |
| Spleen            | Red Pulp          | Hyperplasia      | Mild              |
| Stomach           | Glandular, Mucosa | Hyperplasia      | Moderate          |
| Note: HYPERPLASIA | TGLs = 1-4-1      |                  |                   |
| Thyroid Gland     |                   | Degeneration     | Cystic, Mild      |
|                   |                   | Inflammation     | Subacute, Minimal |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 224

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 727

**DOSE:** 0.00700%CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042632

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                         |                            |                         |
|---------------------------|-------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                    | Bone Marrow                | Brain                   |
| Epididymis                | Esophagus               | Gallbladder                | Heart                   |
| Intestine Large - Cecum   | Intestine Large - Colon | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic      | Lymph Node - Mandibular    | Nose                    |
| Pancreas                  | Parathyroid Gland       | Prostate                   | Salivary Glands         |
| Seminal Vesicle           | Stomach - Forestomach   | Stomach - Glandular        | Testes                  |
| Thymus                    | Trachea                 | Urinary Bladder            |                         |

**MISSING**

|                          |               |                 |
|--------------------------|---------------|-----------------|
| Intestine Large - Rectum | Mammary Gland | Pituitary Gland |
|--------------------------|---------------|-----------------|

**OBSERVATIONS**

|   |              |                                   |                    |
|---|--------------|-----------------------------------|--------------------|
| Adrenal Gland                             | Cortex       | Accessory Adrenal Cortical Nodule |                    |
|   | Cortex       | Hyperplasia                       | Focal, Minimal     |
| Kidney                                    |              | Casts Protein                     | Minimal            |
|   | Renal Tubule | Regeneration                      | Minimal            |
| Liver                                     |              | Hepatocellular Adenoma            | Multiple, Two      |
|   |              | Hepatocellular Carcinoma          |                    |
|   | Kupffer Cell | Hyperplasia                       | Mild               |
|   |              | Hyperplasia                       | Focal, Moderate    |
|   | Lobules      | Necrosis                          | Mild               |
| Note: HYPERPLASIA TGLs = 8-25             |              |                                   |                    |
| Note: FOCAL HYPERPLASIA ALSO ON SLIDE 6   |              |                                   |                    |
| Note: [ HEPATOCLR ADEN ] TGLs = 22,23     |              |                                   |                    |
| Note: [ HEPATOCLR CARC ] TGLs = 24,24.1   |              |                                   |                    |
| Lung                                      |              | Alveolar/Bronchiolar Adenoma      |                    |
|   |              | Hepatocellular Carcinoma          | Metastatic (Liver) |
| [ Hepatocellular Carcinoma TGLS = 7-2-1 ] |              |                                   |                    |
| Lymph Node                                | Mesenteric   | Hemorrhage                        | Minimal            |
| Note: HEMORRHAGE TGLs = 6-5               |              |                                   |                    |
| Skin                                      | Subcut Tiss  | Fibrosarcoma                      |                    |
| Note: FIBROSARC TGLs = 1-21               |              |                                   |                    |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 224

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 727

**DOSE:** 0.00700%CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042632

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Spleen

Hematopoietic Cell Proliferation

Moderate

Note: HEMA CELL PROL TGLs = 2-6

Thyroid Gland

Degeneration

Cystic, Minimal

Follicular Cel

Hyperplasia

Minimal

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 225

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042633

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Bone                      | Bone Marrow              | Brain                      | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      | Lung                    |
| Lymph Node - Mandibular   | Lymph Node - Mesenteric  | Pancreas                   | Parathyroid Gland       |
| Pituitary Gland           | Prostate                 | Salivary Glands            | Seminal Vesicle         |
| Skin                      | Spleen                   | Stomach - Forestomach      | Stomach - Glandular     |
| Testes                    | Thymus                   | Trachea                    | Urinary Bladder         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|               |                 |                         |                 |
|---------------|-----------------|-------------------------|-----------------|
| Adrenal Gland | Capsule, Cortex | Adenoma                 |                 |
|               | Cortex          | Hyperplasia             | Focal, Minimal  |
|               | Medulla         | Pheochromocytoma Benign |                 |
| Kidney        | Renal Tubule    | Atrophy                 | Mild            |
|               |                 | Mineralization          | Moderate        |
|               | Renal Tubule    | Regeneration            | Moderate        |
| Nose          |                 | Exudate                 |                 |
| Thyroid Gland |                 | Degeneration            | Cystic, Minimal |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 226

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 735

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042634

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lymph Node - Mandibular  | Lymph Node - Mesenteric    |
| Nose                    | Pancreas                  | Parathyroid Gland        | Pituitary Gland            |
| Prostate                | Skin                      | Spleen                   | Stomach - Forestomach      |
| Stomach - Glandular     | Testes                    | Thymus                   | Thyroid Gland              |
| Trachea                 | Urinary Bladder           |                          |                            |

**MISSING**

|               |                 |
|---------------|-----------------|
| Mammary Gland | Preputial Gland |
|---------------|-----------------|

**OBSERVATIONS**

|   |              |                              |                   |
|---|--------------|------------------------------|-------------------|
| Brain   | Thalamus     | Mineralization               | Mild              |
| Islets, Pancreatic  |              | Hyperplasia                  | Moderate          |
| Kidney  |              | Cyst                         |                   |
|   | Renal Tubule | Mineralization               | Moderate          |
|   |              | Regeneration                 | Moderate          |
| Liver   |              | Clear Cell Focus             |                   |
|   |              | Hepatocellular Adenoma       | Multiple, Three   |
|   |              | Hyperplasia                  | Focal, Moderate   |
| <p>Note: HEPATOCLR ADEN TGLs = 3-21,4-22,6-23<br/>         Note: CLEAR CL FOCUS TGLs = 7-24<br/>         Note: HYPERPLASIA TGLs = 7-24<br/>         Note: FOCAL HYPERPLASIA ALSO ON SLIDE 22<br/>         Note: CLEAR CELL FOCI ALSO ON SLIDE 21 AND 22</p> |              |                              |                   |
| Lung  |              | Alveolar/Bronchiolar Adenoma |                   |
| <p>Note: ALV BRON ADEN TGLs = 5-2</p>   |              |                              |                   |
| Salivary Glands   |              | Hyperplasia                  | Lymphoid, Minimal |
| Seminal Vesicle   |              | Dilatation                   | Mild              |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 227

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 699

**DOSE:** 0.00700%CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042635

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lung                     | Lymph Node - Mesenteric    | Nose                    |
| Parathyroid Gland         | Pituitary Gland          | Prostate                   | Salivary Glands         |
| Skin                      | Spleen                   | Stomach - Forestomach      | Stomach - Glandular     |
| Testes                    | Thyroid Gland            | Trachea                    | Urinary Bladder         |

**MISSING**

Mammary Gland                      Thymus

**OBSERVATIONS**

|                                       |                 |                        |                   |
|---------------------------------------|-----------------|------------------------|-------------------|
| Adrenal Gland                         | Capsule, Cortex | Hyperplasia            | Mild              |
|                                       | Cortex          | Hyperplasia            | Focal, Minimal    |
| Brain                                 | Thalamus        | Mineralization         | Mild              |
| Coagulating Gland                     |                 | Dilatation             | Marked            |
| Note: DILATATION      TGLs = 2-7      |                 |                        |                   |
| Islets, Pancreatic                    |                 | Hyperplasia            | Marked            |
| Note: HYPERPLASIA      TGLs = 4-7-1   |                 |                        |                   |
| Kidney                                |                 | Cyst                   |                   |
|                                       |                 | Mineralization         | Moderate          |
|                                       | Renal Tubule    | Regeneration           | Mild              |
| Liver                                 |                 | Angiectasis            | Moderate          |
|                                       |                 | Hepatocellular Adenoma |                   |
|                                       |                 | Hyperplasia            | Focal, Moderate   |
| Note: ANGIECTASIS      TGLs = 7-22    |                 |                        |                   |
| Note: HYPERPLASIA      TGLs = 6-21    |                 |                        |                   |
| Note: HEPATOCLR ADEN      TGLs = 6-21 |                 |                        |                   |
| Lymph Node                            | Mandibular      | Hyperplasia            | Plasma Cell, Mild |
| Pancreas                              |                 | Focal Cellular Change  |                   |
| Seminal Vesicle                       |                 | Dilatation             | Marked            |
| Note: DILATATION      TGLs = 1-7      |                 |                        |                   |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 227

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 699

**DOSE:** 0.00700%CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042635

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Tooth

Dysplasia

Moderate

Note: DYSPLASIA TGLs = 3-9

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 228

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 677

**DOSE:** 0.00700%CHLORINE

**DISP:** Natural Death

**HISTO:** A87042636

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Brain                   |
| Epididymis                | Esophagus                | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Pancreas                |
| Parathyroid Gland         | Pituitary Gland          | Prostate                   | Salivary Glands         |
| Seminal Vesicle           | Skin                     | Stomach - Forestomach      | Stomach - Glandular     |
| Testes                    | Thyroid Gland            | Trachea                    | Urinary Bladder         |

**MISSING**

|             |               |
|-------------|---------------|
| Gallbladder | Mammary Gland |
|-------------|---------------|

**OBSERVATIONS**

|   |            |                                  |                       |
|---|------------|----------------------------------|-----------------------|
| Bone Marrow                                     |            | Hypercellularity                 | Moderate              |
| Kidney  |            | Pigmentation                     | Cholesterol, Mild     |
| Note: FOCUS OF CHOLESTEROL CLEFTS IN CORTEX     |            |                                  |                       |
| Liver   |            | Basophilic Focus                 |                       |
|   |            | Hepatocellular Carcinoma         | Multiple, Two         |
| Note: HEPATOCLR CARC TGLs = 4-21,5-22           |            |                                  |                       |
| Note: PORTION OF HEPATOCELLULAR CORD ON SLIDE 6 |            |                                  |                       |
| Lung  |            | Congestion                       | Moderate              |
| Lymph Node                                      | Mesenteric | Hemorrhagic                      | Mild                  |
|   | Mesenteric | Inflammation                     | Suppurative, Moderate |
| Nose  |            | Exudate                          |                       |
| Preputial Gland                                 |            | Ectasia                          | Marked                |
| Note: ECTASIA TGLs = 1-8                        |            |                                  |                       |
| Spleen  |            | Hematopoietic Cell Proliferation | Mild                  |
| Thymus  |            | Depletion Cellular               | Mild                  |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 229

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042637

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Medulla | Bone                      | Bone Marrow              | Brain                      |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    |
| Pancreas                | Parathyroid Gland         | Pituitary Gland          | Prostate                   |
| Salivary Glands         | Skin                      | Spleen                   | Stomach - Forestomach      |
| Stomach - Glandular     | Testes                    | Thymus                   | Trachea                    |
| Urinary Bladder         |                           |                          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                      |                  |                                  |                   |
|----------------------|------------------|----------------------------------|-------------------|
| Adrenal Gland        | Cortex           | Clear Cell Focus                 |                   |
| Kidney               |                  | Cyst                             |                   |
|                      |                  | Mineralization                   | Moderate          |
|                      | Renal Tubule     | Regeneration                     | Mild              |
| Liver                |                  | Clear Cell Focus                 |                   |
|                      |                  | Hyperplasia                      | Focal, Mild       |
| Note: HYPERPLASIA    | TGLs = 1-21,4-22 |                                  |                   |
| Note: CLEAR CL FOCUS | TGLs = 4-22      |                                  |                   |
| Lung                 |                  | Alveolar/Bronchiolar Adenoma     |                   |
| Note: ALV BRON ADEN  | TGLs = 3-2-1     |                                  |                   |
| Lymph Node           | Mesenteric       | Hematopoietic Cell Proliferation | Minimal           |
|                      | Mesenteric       | Hemorrhage                       | Minimal           |
| Note: HEMA CELL PROL | TGLs = 2-5       |                                  |                   |
| Nose                 |                  | Exudate                          |                   |
| Seminal Vesicle      |                  | Dilatation                       | Moderate          |
| Thyroid Gland        | Follicular Cel   | Hyperplasia                      | Mild              |
|                      |                  | Inflammation                     | Subacute, Minimal |
| Tooth                |                  | Dysplasia                        | Moderate          |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 229

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042637

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 230

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 490

**DOSE:** 0.00700%CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042638

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lymph Node - Mandibular  | Lymph Node - Mesenteric    |
| Nose                    | Pancreas                  | Parathyroid Gland        | Pituitary Gland            |
| Preputial Gland         | Prostate                  | Salivary Glands          | Seminal Vesicle            |
| Skin                    | Stomach - Glandular       | Testes                   | Thyroid Gland              |
| Trachea                 | Urinary Bladder           |                          |                            |

**MISSING**

|               |        |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

**OBSERVATIONS**

|   |                     |                                  |                    |
|---|---------------------|----------------------------------|--------------------|
| Brain   |                     | Hemorrhage                       | Moderate           |
|   | Thalamus            | Mineralization                   | Minimal            |
| Islets, Pancreatic                                  |                     | Hyperplasia                      | Minimal            |
| Kidney  |                     | Cyst                             |                    |
|   |                     | Hepatocellular Carcinoma         | Metastatic (Liver) |
|   |                     | Mineralization                   | Minimal            |
| Liver   |                     | Hepatocellular Carcinoma         |                    |
|   | Kupffer Cell        | Hyperplasia                      | Mild               |
| Note: TUMOR METASTASES RESEMBLE BILE DUCT CARCINOMA |                     |                                  |                    |
| Note: HEPATOCLR CARC TGLs = 2-21                    |                     |                                  |                    |
| Lung  |                     | Hepatocellular Carcinoma         | Metastatic (Liver) |
| Note: HEPATOCLR CARC TGLs = 3-22,4-2                |                     |                                  |                    |
| Lymph Node  | Mediastinal         | Hepatocellular Carcinoma         | Metastatic (Liver) |
| Note: HEPATOCLR CARC TGLs = 5-23                    |                     |                                  |                    |
| Spleen  | Lymph Follic        | Atrophy                          | Moderate           |
|   |                     | Hematopoietic Cell Proliferation | Moderate           |
| Stomach   | Forestomach, Mucosa | Hyperplasia                      | Moderate           |
|   | Forestomach         | Inflammation                     | Subacute, Moderate |
|   | Forestomach         | Ulcer                            | Mild               |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 230

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 490

**DOSE:** 0.00700%CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042638

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: HYPERPLASIA TGLs = 6-4-1

Note: ULCER TGLs = 6-4-1

Note: INFLAMMATION TGLs = 6-4-1

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 231

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 522

**DOSE:** 0.00700%CHLORINE

**DISP:** Natural Death

**HISTO:** A87042639

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex     | Adrenal Gland - Medulla | Bone                      | Bone Marrow              |
| Brain                      | Epididymis              | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Liver                    |
| Lymph Node - Mesenteric    | Pancreas                | Parathyroid Gland         | Pituitary Gland          |
| Prostate                   | Salivary Glands         | Seminal Vesicle           | Skin                     |
| Spleen                     | Stomach - Forestomach   | Testes                    | Thyroid Gland            |
| Trachea                    | Urinary Bladder         |                           |                          |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                   |             |                    |                              |
|-----------------------------------|-------------|--------------------|------------------------------|
| Harderian Gland                   |             | Carcinoma          |                              |
| Note: CARCINOMA                   | TGLs = 1-21 |                    |                              |
| Islets, Pancreatic                |             | Hyperplasia        | Mild                         |
| Kidney                            |             | Mineralization     | Mild                         |
| Lung                              |             | Carcinoma          | Metastatic (Harderian Gland) |
| Note: CARCINOMA                   | TGLs = 4-2  |                    |                              |
| Lymph Node                        | Mandibular  | Carcinoma          | Metastatic (Harderian Gland) |
| Note: CARCINOMA                   | TGLs = 2-8  |                    |                              |
| Mesentery                         |             | Accessory Spleen   |                              |
| Note: ACCESSORY SPLEEN ON SLIDE 7 |             |                    |                              |
| Nose                              |             | Carcinoma          | Metastatic (Harderian Gland) |
| Preputial Gland                   |             | Ectasia            | Marked                       |
| Note: ECTASIA                     | TGLs = 3-8  |                    |                              |
| Stomach                           | Glandular   | Erosion            | Mild                         |
| Thymus                            |             | Depletion Cellular | Moderate                     |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 232

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 727

**DOSE:** 0.00700%CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042640

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone Marrow                | Epididymis              | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Nose                    | Pancreas                  |
| Parathyroid Gland        | Pituitary Gland            | Prostate                | Salivary Glands           |
| Skin                     | Stomach - Forestomach      | Testes                  | Thymus                    |
| Trachea                  | Urinary Bladder            |                         |                           |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|   |                 |                          |                                 |
|---|-----------------|--------------------------|---------------------------------|
| Adrenal Gland   | Capsule, Cortex | Adenoma                  |                                 |
| Bone  |                 | Hyperostosis             | Moderate                        |
| Brain   | Thalamus        | Mineralization           | Mild                            |
| Islets, Pancreatic  |                 | Carcinoma                |                                 |
|   |                 | Hyperplasia              | Mild                            |
| Note: CARCINOMA TGLs = 2-21                                   |                 |                          |                                 |
| Kidney  | Renal Tubule    | Atrophy                  | Minimal                         |
|   |                 | Casts Protein            | Minimal                         |
|   |                 | Mineralization           | Mild                            |
|   | Renal Tubule    | Regeneration             | Minimal                         |
| Liver   |                 | Carcinoma                | Metastatic (Islets, Pancreatic) |
|   |                 | Hepatocellular Carcinoma |                                 |
|   | Kupffer Cell    | Hyperplasia              | Mild                            |
|   |                 | Hyperplasia              | Focal, Minimal                  |
|   | Hepatocyte      | Karyomegaly              | Mild                            |
|   | Lobules         | Necrosis                 | Minimal                         |
| Note: HEPATOCLR CARC TGLs = 3-22<br>[ Carcinoma TGLs = 4-23 ] |                 |                          |                                 |
| Lung  | Alveolar Epith  | Hyperplasia              | Moderate                        |
| Seminal Vesicle   |                 | Dilatation               | Moderate                        |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 232 | <b>TRT#:</b> 25               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 727 |
|                       | <b>DOSE:</b> 0.00700%CHLORINE | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87042640 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                  |                |             |  |         |
|------------------|----------------|-------------|--|---------|
| Note: DILATATION | TGLs = 1-7     |             |  |         |
| Spleen           | Red Pulp       | Hyperplasia |  | Mild    |
| Stomach          | Glandular      | Cyst        |  |         |
| Thyroid Gland    | Follicular Cel | Hyperplasia |  | Minimal |
| Tooth            |                | Dysplasia   |  | Mild    |

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 233

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 714

**DOSE:** 0.00700%CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042641

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Bone                     | Bone Marrow                | Epididymis              | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Lung                     | Lymph Node - Mandibular    | Lymph Node - Mesenteric | Nose                      |
| Pancreas                 | Parathyroid Gland          | Pituitary Gland         | Prostate                  |
| Salivary Glands          | Skin                       | Spleen                  | Stomach - Forestomach     |
| Stomach - Glandular      | Testes                     | Trachea                 |                           |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                    |                |                        |                |
|------------------------------------|----------------|------------------------|----------------|
| Adrenal Gland                      | Cortex         | Hyperplasia            | Focal, Minimal |
|                                    | Cortex         | Hypertrophy            | Focal, Marked  |
|                                    | Medulla        | Neuroblastoma Benign   |                |
| Note: [ HYPERTROPHY ] TGLs = 10    |                |                        |                |
| Brain                              | Thalamus       | Mineralization         | Moderate       |
| Coagulating Gland                  |                | Dilatation             | Moderate       |
| Note: DILATATION TGLs = 5-7        |                |                        |                |
| Islets, Pancreatic                 |                | Hyperplasia            | Minimal        |
| Kidney                             | Renal Tubule   | Atrophy                | Mild           |
|                                    |                | Cyst                   |                |
|                                    | Renal Tubule   | Dilatation             | Moderate       |
|                                    | Transit Epithe | Hyperplasia            | Minimal        |
|                                    |                | Mineralization         | Marked         |
|                                    | Renal Tubule   | Regeneration           | Mild           |
| Note: DILATATION TGLs = 7-5        |                |                        |                |
| Liver                              |                | Hemorrhage             | Mild           |
|                                    |                | Hepatocellular Adenoma |                |
|                                    | Kupffer Cell   | Hyperplasia            | Moderate       |
| Note: [ HEPATOCLR ADEN ] TGLs = 21 |                |                        |                |
| Note: HEMORRHAGE TGLs = 10-6       |                |                        |                |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 233

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 714

**DOSE:** 0.00700%CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042641

**ORGAN AND ACCOUNTABLE SITE STATUS**

Note: HYPERPLASIA TGLs = 9-6  
Seminal Vesicle

Dilatation  
Hemorrhage

Marked  
Moderate

Note: HEMORRHAGE TGLs = 4-7

Note: DILATATION TGLs = 3-7

Thymus  
Thyroid Gland  
Urinary Bladder

Depletion Cellular  
Degeneration  
Dilatation

Moderate  
Cystic, Minimal  
Moderate

Note: DILATATION TGLs = 1-8

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 234

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042642

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Salivary Glands          | Skin                       | Stomach - Forestomach   |
| Testes                    | Thyroid Gland            | Trachea                    | Urinary Bladder         |

**MISSING**

Mammary Gland                      Thymus

**OBSERVATIONS**

|  |                 |                                  |                |
|--|-----------------|----------------------------------|----------------|
| Adrenal Gland                            | Capsule, Cortex | Hyperplasia                      | Mild           |
|  | Cortex          | Hyperplasia                      | Focal, Minimal |
| Brain                                    | Thalamus        | Mineralization                   | Mild           |
| Coagulating Gland                        |                 | Dilatation                       | Marked         |
| Note: DILATATION      TGLs = 6-7         |                 |                                  |                |
| Islets, Pancreatic                       |                 | Hyperplasia                      | Moderate       |
| Kidney                                   |                 | Casts Protein                    | Mild           |
|  |                 | Cyst                             |                |
|  |                 | Hyperplasia                      | Lymphoid, Mild |
|  |                 | Mineralization                   | Mild           |
|  | Renal Tubule    | Regeneration                     | Marked         |
| Liver                                    |                 | Hepatocellular Adenoma           | Multiple, Two  |
| Note: [ HEPATOCLR ADEN ]    TGLs = 22,23 |                 |                                  |                |
| Mesentery                                | Fat             | Necrosis                         | Moderate       |
| Note: NECROSIS      TGLs = 3-21          |                 |                                  |                |
| Seminal Vesicle                          |                 | Dilatation                       | Marked         |
| Note: DILATATION      TGLs = 1-7         |                 |                                  |                |
| Spleen                                   |                 | Hematopoietic Cell Proliferation | Mild           |
| Stomach                                  | Glandular       | Cyst                             |                |
| Tooth                                    |                 | Dysplasia                        | Mild           |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 234

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042642

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 235      **TRT#:** 25      **SEX:** Male      **DAY ON TEST:** 733  
**DOSE:** 0.00700%CHLORINE      **DISP:** Terminal Sacrifice      **HISTO:** A87042643

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Nose                      | Parathyroid Gland        | Pituitary Gland            | Prostate                |
| Seminal Vesicle           | Skin                     | Stomach - Forestomach      | Stomach - Glandular     |
| Testes                    | Trachea                  | Urinary Bladder            |                         |

**MISSING**

Mammary Gland      Thymus

**OBSERVATIONS**

|  |                 |                                   |                   |
|--|-----------------|-----------------------------------|-------------------|
| Adrenal Gland                            | Cortex          | Accessory Adrenal Cortical Nodule |                   |
|  | Capsule, Cortex | Hyperplasia                       | Mild              |
| Brain                                    | Thalamus        | Mineralization                    | Mild              |
| Islets, Pancreatic                       |                 | Hyperplasia                       | Minimal           |
| Kidney                                   |                 | Metaplasia                        | Osseous, Moderate |
|  |                 | Mineralization                    | Moderate          |
|  | Renal Tubule    | Regeneration                      | Moderate          |
| Liver                                    |                 | Clear Cell Focus                  |                   |
|  |                 | Hepatocellular Carcinoma          | Multiple, Two     |
| Note: HEPATOCLR CARC    TGLs = 1-21,2-22 |                 |                                   |                   |
| Note: CLEAR CL FOCUS    TGLs = 3-23      |                 |                                   |                   |
| Pancreas                                 |                 | Atrophy                           | Minimal           |
| Salivary Glands                          |                 | Hyperplasia                       | Lymphoid, Minimal |
| Spleen                                   |                 | Hematopoietic Cell Proliferation  | Minimal           |
| Thyroid Gland                            | Follicular Cel  | Hyperplasia                       | Minimal           |

PRIMARY CAUSE OF DEATH      -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 236

**TRT#:** 26

**SEX:** Male

**DAY ON TEST:** 98

**DOSE:** 0.00700% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** 33846

---

**OBSERVATIONS**

Kidney

Renal Tubule

Regeneration

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 238

**TRT#:** 26

**SEX:** Male

**DAY ON TEST:** 97

**DOSE:** 0.00700% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** 33848

---

**OBSERVATIONS**

Kidney

Renal Tubule

Regeneration

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 241

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0.00700%CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** 37673

---

**OBSERVATIONS**

Kidney

Renal Tubule

Dilatation

Minimal

Mineralization

Minimal

Renal Tubule

Regeneration

Mild

[ Dilatation TGLS = 5 ]

[ Mineralization TGLS = 5 ]

[ Regeneration TGLS = 5 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 242

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 457

**DOSE:** 0.00700%CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** 37674

---

**OBSERVATIONS**

Kidney

Renal Tubule

Dilatation

Minimal

Mineralization

Mild

Renal Tubule

Regeneration

Minimal

[ Dilatation TGLS = 5 ]

[ Mineralization TGLS = 5 ]

[ Regeneration TGLS = 5 ]

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 243

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 455

**DOSE:** 0.00700%CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** 37675

---

**OBSERVATIONS**

Kidney

Renal Tubule

Dilatation

Minimal

Mineralization

Mild

Renal Tubule

Regeneration

Mild

[ Dilatation TGLS = 5 ]

[ Mineralization TGLS = 5 ]

[ Regeneration TGLS = 5 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 244

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 457

**DOSE:** 0.00700%CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** 37676

---

**OBSERVATIONS**

Kidney

Renal Tubule

Dilatation

Minimal

Mineralization

Mild

Renal Tubule

Regeneration

Mild

[ Dilatation TGLS = 5 ]

[ Mineralization TGLS = 5 ]

[ Regeneration TGLS = 5 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 245

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0.00700%CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** 37677

---

**OBSERVATIONS**

Kidney

Renal Tubule

Casts Protein

Mild

Dilatation

Minimal

Mineralization

Mild

Renal Tubule

Regeneration

Mild

[ Casts Protein TGLS = 5 ]

[ Dilatation TGLS = 5 ]

[ Mineralization TGLS = 5 ]

[ Regeneration TGLS = 5 ]

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 521

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 738

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87042278

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Bone                       | Epididymis              | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Lung                     |
| Lymph Node - Mandibular    | Nose                    | Pancreas                  | Parathyroid Gland        |
| Pituitary Gland            | Prostate                | Salivary Glands           | Skin                     |
| Stomach - Forestomach      | Testes                  | Thymus                    | Thyroid Gland            |
| Trachea                    | Urinary Bladder         |                           |                          |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|  |                            |   |          |
|--|----------------------------|---|----------|
| Adrenal Gland  | Capsule, Cortex<br>Medulla | Adenoma<br>Pheochromocytoma Benign<br>Hemangiosarcoma |          |
| Bone Marrow  |                            | Hydrocephalus   | Mild     |
| Brain  | Thalamus                   | Mineralization  | Minimal  |
| Harderian Gland  |                            | Adenoma   |          |
| Islets, Pancreatic                                     |                            | Hyperplasia   | Moderate |
| Kidney   |                            | Cyst  |          |
|  |                            | Mineralization  | Moderate |
|  | Renal Tubule               | Regeneration  | Mild     |
| Liver  |                            | Hepatocellular Adenoma                                |          |
| Note: HEPATOCLR ADEN TGLs = 3-21                       |                            |   |          |
| Lymph Node   | Mesenteric                 | Hemorrhage  | Mild     |
| Seminal Vesicle  |                            | Dilatation  | Moderate |
| Note: DILATATION TGLs = 1-7                            |                            |   |          |
| Spleen   |                            | Hemangiosarcoma                                       |          |
| Note: HEMANGIOSARC TGLs = 2-6                          |                            |   |          |
| Stomach  | Glandular                  | Cyst  |          |
|  | Glandular                  | Mineralization  | Mild     |
| Note: ONE CYST SURROUNDED BY CELLS WITH HYALINE DEGEN. |                            |   |          |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 521

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 738

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87042278

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 522      **TRT#:** 1      **SEX:** Male      **DAY ON TEST:** 738  
**DOSE:** VEHICLE CONTROL      **DISP:** Terminal Sacrifice      **HISTO:** A87042279

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mesenteric |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Salivary Glands          | Skin                       | Spleen                  |
| Stomach - Forestomach     | Stomach - Glandular      | Testes                     | Thymus                  |
| Thyroid Gland             | Trachea                  | Urinary Bladder            |                         |

**MISSING**

|                         |               |
|-------------------------|---------------|
| Lymph Node - Mandibular | Mammary Gland |
|-------------------------|---------------|

**OBSERVATIONS**

|  |              |                        |                 |
|--|--------------|------------------------|-----------------|
| Adrenal Gland  | Cortex       | Hyperplasia            | Focal, Mild     |
| Brain  | Thalamus     | Mineralization         | Mild            |
| Kidney   |              | Cyst                   |                 |
|  |              | Mineralization         | Mild            |
|  | Renal Tubule | Regeneration           | Mild            |
| Liver  |              | Hepatocellular Adenoma | Four, Multiple  |
|  |              | Hyperplasia            | Focal, Moderate |
| Note: HEPATOCLR ADEN TGLs = 2-21,3-22                    |              |                        |                 |
| Note: FOCAL HYPERPLASIA ON SLIDE 21                      |              |                        |                 |
| Note: ONE HEPATOCELL. ADEN. ON SLIDE 6 & TWO ON SLIDE 21 |              |                        |                 |
| Seminal Vesicle  |              | Dilatation             | Moderate        |
| Note: DILATATION TGLs = 1-7                              |              |                        |                 |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 523

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 691

**DOSE:** VEHICLE CONTROL

**DISP:** Moribund Sacrifice

**HISTO:** A87042280

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Liver                    | Lung                       | Lymph Node - Mesenteric |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Salivary Glands          | Seminal Vesicle            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Thymus                     | Thyroid Gland           |
| Trachea                   | Urinary Bladder          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                    |                 |                |                       |
|--------------------|-----------------|----------------|-----------------------|
| Adrenal Gland      | Capsule, Cortex | Hyperplasia    | Moderate              |
| Brain              | Thalamus        | Mineralization | Minimal               |
| Islets, Pancreatic |                 | Hyperplasia    | Moderate              |
| Kidney             |                 | Mineralization | Mild                  |
|                    | Renal Tubule    | Regeneration   | Mild                  |
| Lymph Node         | Mandibular      | Hyperplasia    | Plasma Cell, Moderate |
|                    | Mandibular      | Hyperplasia    | Lymphoid, Moderate    |
| Stomach            | Glandular       | Cyst           |                       |
| Testes             | Seminif Tub     | Atrophy        | Mild                  |
|                    |                 | Mineralization | Mild                  |
| Tooth              |                 | Dysplasia      | Marked                |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 524

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 738

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A86041441

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Epididymis              | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Lymph Node - Mandibular  | Pancreas                   | Parathyroid Gland       | Pituitary Gland           |
| Prostate                 | Seminal Vesicle            | Skin                    | Spleen                    |
| Stomach - Glandular      | Testes                     | Thyroid Gland           | Trachea                   |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                 |                |                                  |                  |
|---------------------------------|----------------|----------------------------------|------------------|
| Adrenal Gland                   | Cortex         | Basophilic Focus                 |                  |
|                                 | Cortex         | Hyperplasia                      | Focal, Minimal   |
| Bone Marrow                     |                | Necrosis                         | Moderate         |
| Brain                           | Thalamus       | Mineralization                   | Moderate         |
| Islets, Pancreatic              |                | Hyperplasia                      | Moderate         |
| Kidney                          |                | Cyst                             |                  |
|                                 |                | Mineralization                   | Moderate         |
|                                 | Renal Tubule   | Regeneration                     | Moderate         |
| Liver                           |                | Hyperplasia                      | Focal, Mild      |
|                                 |                | Inflammation                     | Acute, Mild      |
| Note: HYPERPLASIA TGLs = 4-23   |                |                                  |                  |
| Lung                            |                | Alveolar/Bronchiolar Adenoma     |                  |
|                                 | Alveolar Epith | Hyperplasia                      | Mild             |
|                                 |                | Hyperplasia                      | Lymphoid, Mild   |
|                                 |                | Infiltration Cellular            | Histiocyte, Mild |
| Note: ALV BRON ADEN TGLs = 2-21 |                |                                  |                  |
| Lymph Node                      | Mesenteric     | Hematopoietic Cell Proliferation | Minimal          |
|                                 | Mesenteric     | Hemorrhage                       | Mild             |
| Note: HEMORRHAGE TGLs = 5-5     |                |                                  |                  |
| Note: HEMA CELL PROL TGLs = 5-5 |                |                                  |                  |
| Mesentery                       | Fat            | Necrosis                         | Moderate         |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                              |                                 |                         |
|-----------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 524 | <b>TRT#:</b> 1               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 738 |
|                       | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A86041441 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                 |              |                     |             |                   |
|-----------------|--------------|---------------------|-------------|-------------------|
| Note: NECROSIS  | TGLs = 3-22  |                     |             |                   |
| Nose            |              | Glands              | Hyperplasia | Cystic, Minimal   |
| Preputial Gland |              |                     | Ectasia     | Moderate          |
| Note: ECTASIA   | TGLs = 3-8-1 |                     |             |                   |
| Salivary Glands |              |                     | Hyperplasia | Lymphoid, Mild    |
| Stomach         |              | Forestomach, Mucosa | Hyperplasia | Mild              |
| Thymus          |              |                     | Hyperplasia | Lymphoid, Mild    |
| Tooth           |              |                     | Dysplasia   | Mild              |
| Urinary Bladder |              |                     | Hyperplasia | Lymphoid, Minimal |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 525

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 738

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87042281

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Epididymis                |
| Esophagus                | Gallbladder                | Heart                   | Intestine Large - Cecum   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric | Pancreas                  |
| Parathyroid Gland        | Pituitary Gland            | Prostate                | Seminal Vesicle           |
| Skin                     | Spleen                     | Stomach - Forestomach   | Stomach - Glandular       |
| Testes                   | Thyroid Gland              | Trachea                 | Urinary Bladder           |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                    |              |                              |                   |
|------------------------------------|--------------|------------------------------|-------------------|
| Adrenal Gland                      | Cortex       | Hyperplasia                  | Focal, Minimal    |
| Brain                              | Thalamus     | Mineralization               | Mild              |
| Intestine Large                    | Colon        | Diverticulum                 | Mild              |
| Kidney                             |              | Cyst                         |                   |
|                                    |              | Hyperplasia                  | Lymphoid, Minimal |
|                                    |              | Mineralization               | Moderate          |
|                                    | Renal Tubule | Regeneration                 | Moderate          |
| Liver                              |              | Clear Cell Focus             |                   |
| Lung                               |              | Alveolar/Bronchiolar Adenoma | Multiple, Two     |
| Note: ALV BRON ADEN TGLs = 1-2,2-2 |              |                              |                   |
| Nose                               |              | Exudate                      |                   |
|                                    | Glands       | Hyperplasia                  | Cystic, Mild      |
| Salivary Glands                    |              | Hyperplasia                  | Lymphoid, Minimal |
| Thymus                             |              | Cyst                         |                   |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 526

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 661

**DOSE:** VEHICLE CONTROL

**DISP:** Moribund Sacrifice

**HISTO:** A87042282

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Liver                    | Lung                       |
| Lymph Node - Mandibular | Lymph Node - Mesenteric   | Nose                     | Pancreas                   |
| Parathyroid Gland       | Pituitary Gland           | Prostate                 | Salivary Glands            |
| Skin                    | Spleen                    | Stomach - Forestomach    | Stomach - Glandular        |
| Testes                  | Trachea                   | Urinary Bladder          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                             |                |                    |          |
|-----------------------------|----------------|--------------------|----------|
| Brain                       | Thalamus       | Mineralization     | Mild     |
| Coagulating Gland           |                | Dilatation         | Moderate |
| Note: DILATATION TGLs = 3-7 |                |                    |          |
| Islets, Pancreatic          |                | Hyperplasia        | Mild     |
| Kidney                      |                | Cyst               |          |
|                             |                | Mineralization     | Mild     |
|                             | Renal Tubule   | Regeneration       | Mild     |
|                             |                | Dilatation         | Moderate |
| Seminal Vesicle             |                |                    |          |
| Note: DILATATION TGLs = 1-7 |                |                    |          |
| Thymus                      |                | Depletion Cellular | Mild     |
| Thyroid Gland               | Follicular Cel | Hyperplasia        | Minimal  |
| Tooth                       |                | Dysplasia          | Moderate |
| Note: DYSPLASIA TGLs = 4-9  |                |                    |          |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 527

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87042283

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Preputial Gland

Ectasia

Moderate

Note: ECTASIA TGLs = 4-8

Thymus

Cyst

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 528

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 681

**DOSE:** VEHICLE CONTROL

**DISP:** Moribund Sacrifice

**HISTO:** A87042284

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Medulla | Bone                      | Bone Marrow              | Brain                      |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lymph Node - Mandibular  | Lymph Node - Mesenteric    |
| Nose                    | Pancreas                  | Pituitary Gland          | Prostate                   |
| Salivary Glands         | Skin                      | Spleen                   | Stomach - Forestomach      |
| Stomach - Glandular     | Testes                    | Thyroid Gland            | Trachea                    |
| Urinary Bladder         |                           |                          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|   |                           |                                |                          |
|---|---------------------------|--------------------------------|--------------------------|
| Adrenal Gland                           | Capsule, Cortex<br>Cortex | Adenoma<br>Hyperplasia         | Focal, Minimal<br>Marked |
| Islets, Pancreatic                      |                           | Hyperplasia                    |                          |
| Kidney                                  |                           | Cyst                           |                          |
|   | Renal Tubule              | Mineralization                 | Mild                     |
| Note: CYST      TGLs = 3-5              |                           | Regeneration                   | Mild                     |
| Liver                                   |                           | Hepatocellular Adenoma         | Multiple, Three          |
|   |                           | Hepatocellular Carcinoma       |                          |
| Note: HEPATOCLR CARC    TGLs = 4-22     |                           | Hyperplasia                    | Focal, Moderate          |
| Note: HEPATOCLR ADEN    TGLs = 6-23     |                           |                                |                          |
| Note: FOCAL HYPERPLASIA ON SLIDE 6 & 23 |                           |                                |                          |
| Lung                                    |                           | Alveolar/Bronchiolar Carcinoma |                          |
|   |                           | Infiltration Cellular          | Histiocyte, Moderate     |
| Note: ALV BRON CARC    TGLs = 5-2       |                           |                                |                          |
| Mesentery                               | Fat                       | Necrosis                       | Marked                   |
| Note: NECROSIS      TGLs = 1-21         |                           |                                |                          |
| Parathyroid Gland                       |                           | Cyst                           |                          |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                              |                                 |                         |
|-----------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 528 | <b>TRT#:</b> 1               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 681 |
|                       | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87042284 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                             |                    |          |
|-----------------------------|--------------------|----------|
| Seminal Vesicle             | Dilatation         | Moderate |
| Note: DILATATION TGLs = 2-7 |                    |          |
| Thymus                      | Depletion Cellular | Moderate |
| Tooth                       | Dysplasia          | Moderate |

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PRIMARY CAUSE OF DEATH -

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**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 529

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87042285

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Salivary Glands          | Seminal Vesicle            | Skin                    |
| Stomach - Forestomach     | Testes                   | Thymus                     | Thyroid Gland           |
| Trachea                   | Urinary Bladder          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                 |              |                                  |                    |
|---------------------------------|--------------|----------------------------------|--------------------|
| Adrenal Gland                   | Cortex       | Hyperplasia                      | Focal, Mild        |
|                                 | Cortex       | Hypertrophy                      | Focal, Moderate    |
| Note: [ HYPERTROPHY ] TGLs = 10 |              |                                  |                    |
| Brain                           | Thalamus     | Mineralization                   | Minimal            |
| Kidney                          |              | Mineralization                   | Mild               |
|                                 | Renal Tubule | Regeneration                     | Mild               |
| Liver                           |              | Hyperplasia                      | Lymphoid, Minimal  |
| Lymph Node                      | Mesenteric   | Hyperplasia                      | Lymphoid, Moderate |
| Spleen                          |              | Hematopoietic Cell Proliferation | Moderate           |
|                                 | Lymph Follic | Hyperplasia                      | Mild               |
| Note: HYPERPLASIA TGLs = 1-6    |              |                                  |                    |
| Note: HEMA CELL PROL TGLs = 1-6 |              |                                  |                    |
| Stomach                         | Glandular    | Inflammation                     | Subacute, Moderate |

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                              |                                 |                         |
|-----------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 530 | <b>TRT#:</b> 1               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 733 |
|                       | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042286 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex     | Adrenal Gland - Medulla | Bone                      | Bone Marrow              |
| Epididymis                 | Esophagus               | Intestine Large - Cecum   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Lymph Node - Mandibular  |
| Nose                       | Pancreas                | Parathyroid Gland         | Pituitary Gland          |
| Prostate                   | Salivary Glands         | Seminal Vesicle           | Skin                     |
| Spleen                     | Stomach - Forestomach   | Stomach - Glandular       | Testes                   |
| Thymus                     | Thyroid Gland           | Trachea                   | Urinary Bladder          |

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**MISSING**

|             |                         |               |
|-------------|-------------------------|---------------|
| Gallbladder | Intestine Large - Colon | Mammary Gland |
|-------------|-------------------------|---------------|

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**OBSERVATIONS**

|                    |              |                        |                   |
|--------------------|--------------|------------------------|-------------------|
| Brain              | Thalamus     | Mineralization         | Mild              |
| Heart              | Myocardium   | Inflammation           | Chronic, Minimal  |
| Islets, Pancreatic |              | Hyperplasia            | Moderate          |
| Kidney             |              | Hyperplasia            | Lymphoid, Minimal |
|                    |              | Mineralization         | Mild              |
|                    | Renal Tubule | Regeneration           | Mild              |
| Liver              |              | Basophilic Focus       |                   |
|                    |              | Hepatocellular Adenoma |                   |
| Lung               |              | Hyperplasia            | Lymphoid, Minimal |
| Lymph Node         | Mesenteric   | Hemorrhage             | Mild              |
| Preputial Gland    |              | Ectasia                | Moderate          |

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 531

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87042287

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: DILATATION      TGLs = 2-7

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 532

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 671

**DOSE:** VEHICLE CONTROL

**DISP:** Moribund Sacrifice

**HISTO:** A87042288

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    | Parathyroid Gland       |
| Pituitary Gland           | Skin                     | Spleen                     | Stomach - Glandular     |
| Trachea                   |                          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|  |              |                        |                       |
|--|--------------|------------------------|-----------------------|
| Adrenal Gland                              | Cortex       | Hyperplasia            | Focal, Minimal        |
| Brain                                      | Thalamus     | Mineralization         | Mild                  |
| Islets, Pancreatic                         |              | Hyperplasia            | Minimal               |
| Kidney                                     |              | Cyst                   |                       |
|  |              | Mineralization         | Moderate              |
|  | Renal Tubule | Regeneration           | Minimal               |
| Liver                                      |              | Hepatocellular Adenoma | Multiple, Three       |
|  |              | Hyperplasia            | Focal, Moderate       |
| Note: FOCAL HYPERPLASIA ON SLIDE 22        |              |                        |                       |
| Note: HEPATOCLR ADEN TGLs = 4-21,5-22+6-23 |              |                        |                       |
| Lymph Node                                 | Mesenteric   | Depletion Cellular     | Moderate              |
|  | Mesenteric   | Hemorrhage             | Mild                  |
| Nose                                       |              | Exudate                |                       |
|  | Glands       | Hyperplasia            | Cystic, Mild          |
| Pancreas                                   |              | Cytoplasmic Alteration | Mild                  |
| Prostate                                   |              | Inflammation           | Suppurative, Moderate |
| Salivary Glands                            |              | Hyperplasia            | Lymphoid, Minimal     |
| Seminal Vesicle                            |              | Dilatation             | Moderate              |
| Note: DILATATION TGLs = 2-7                |              |                        |                       |
| Stomach                                    | Forestomach  | Erosion                | Mild                  |
|  | Forestomach  | Hyperkeratosis         | Mild                  |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                              |                                 |                         |
|-----------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 532 | <b>TRT#:</b> 1               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 671 |
|                       | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87042288 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                 |                |                    |                 |
|-----------------|----------------|--------------------|-----------------|
| Testes          | Interstit Cell | Adenoma            |                 |
|                 | Seminif Tub    | Atrophy            | Minimal         |
| Note: ATROPHY   | TGLs = 1-7     |                    |                 |
| Thymus          |                | Depletion Cellular | Moderate        |
| Thyroid Gland   |                | Degeneration       | Cystic, Minimal |
| Tooth           |                | Dysplasia          | Moderate        |
| Urinary Bladder |                | Dilatation         | Marked          |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 533

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 579

**DOSE:** VEHICLE CONTROL

**DISP:** Natural Death

**HISTO:** A87042289

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Epididymis                | Esophagus                | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Nose                       | Pancreas                |
| Parathyroid Gland         | Pituitary Gland          | Prostate                   | Salivary Glands         |
| Seminal Vesicle           | Skin                     | Spleen                     | Stomach - Forestomach   |
| Stomach - Glandular       | Testes                   | Thyroid Gland              | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**MISSING**

|             |               |
|-------------|---------------|
| Gallbladder | Mammary Gland |
|-------------|---------------|

**OBSERVATIONS**

|                                    |                |                          |                       |
|------------------------------------|----------------|--------------------------|-----------------------|
| Brain                              | Thalamus       | Mineralization           | Mild                  |
| Islets, Pancreatic                 |                | Hyperplasia              | Mild                  |
| Kidney                             |                | Mineralization           | Moderate              |
| Liver                              |                | Hepatocellular Adenoma   |                       |
|                                    |                | Hepatocellular Carcinoma |                       |
| Note: [ HEPATOCLR CARC ] TGLs = 22 |                |                          |                       |
| Note: [ HEPATOCLR ADEN ] TGLs = 21 |                |                          |                       |
| Lung                               | Alveolar Epith | Hyperplasia              | Moderate              |
|                                    |                | Infiltration Cellular    | Histiocyte, Minimal   |
| Lymph Node                         | Mesenteric     | Hemorrhage               | Minimal               |
|                                    | Mesenteric     | Hyperplasia              | Histiocytic, Moderate |
| Note: HEMORRHAGE TGLs = 4-5        |                |                          |                       |
| Thymus                             |                | Depletion Cellular       | Mild                  |
| Tooth                              |                | Dysplasia                | Moderate              |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                              |                                 |                         |
|-----------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 534 | <b>TRT#:</b> 1               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 736 |
|                       | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042290 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Liver                    | Lymph Node - Mandibular    | Nose                    |
| Pancreas                  | Parathyroid Gland        | Pituitary Gland            | Prostate                |
| Salivary Glands           | Seminal Vesicle          | Skin                       | Spleen                  |
| Stomach - Forestomach     | Stomach - Glandular      | Testes                     | Thymus                  |
| Trachea                   | Urinary Bladder          |                            |                         |

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

|                      |                |                                  |                |
|----------------------|----------------|----------------------------------|----------------|
| Adrenal Gland        | Cortex         | Hyperplasia                      | Focal, Minimal |
| Brain                | Thalamus       | Mineralization                   | Minimal        |
| Islets, Pancreatic   |                | Hyperplasia                      | Minimal        |
| Kidney               |                | Cyst                             |                |
|                      |                | Mineralization                   | Mild           |
|                      | Renal Tubule   | Regeneration                     | Moderate       |
| Lung                 |                | Alveolar/Bronchiolar Adenoma     |                |
| Lymph Node           | Mesenteric     | Hematopoietic Cell Proliferation | Mild           |
|                      | Mesenteric     | Hemorrhage                       | Mild           |
| Note: HEMA CELL PROL | TGLs = 1-5     |                                  |                |
| Note: HEMORRHAGE     | TGLs = 1-5     |                                  |                |
| Thyroid Gland        | Follicular Cel | Hyperplasia                      | Minimal        |

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 535

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** VEHICLE CONTROL

**DISP:** Moribund Sacrifice

**HISTO:** A87042291

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Bone                    | Epididymis                | Esophagus                | Gallbladder                |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    |
| Nose                    | Parathyroid Gland         | Pituitary Gland          | Prostate                   |
| Salivary Glands         | Seminal Vesicle           | Skin                     | Stomach - Forestomach      |
| Testes                  | Thymus                    | Thyroid Gland            | Trachea                    |
| Urinary Bladder         |                           |                          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                      |                  |                              |                   |
|----------------------|------------------|------------------------------|-------------------|
| Adrenal Gland        | Cortex           | Hyperplasia                  | Focal, Moderate   |
|                      | Medulla          | Hyperplasia                  | Minimal           |
| Bone Marrow          |                  | Hypercellularity             | Mild              |
| Brain                | Thalamus         | Mineralization               | Mild              |
| Heart                | Myocardium       | Fibrosis                     | Minimal           |
| Kidney               |                  | Cyst                         |                   |
|                      |                  | Hyperplasia                  | Lymphoid, Mild    |
|                      |                  | Mineralization               | Mild              |
|                      | Renal Tubule     | Regeneration                 | Minimal           |
| Liver                |                  | Hepatocellular Adenoma       |                   |
|                      |                  | Hepatocellular Carcinoma     |                   |
|                      | Kupffer Cell     | Hyperplasia                  | Mild              |
|                      |                  | Hyperplasia                  | Focal, Moderate   |
|                      |                  | Inflammation                 | Chronic, Moderate |
| Note: HEPATOCLR ADEN | TGLs = 3-23      |                              |                   |
| Note: HEPATOCLR CARC | TGLs = 4-24      |                              |                   |
| Note: HYPERPLASIA    | TGLs = 1-21,7-25 |                              |                   |
| Lung                 |                  | Alveolar/Bronchiolar Adenoma |                   |
|                      |                  | Infiltration Cellular        | Histiocyte, Mild  |
| Note: ALV BRON ADEN  | TGLs = 6-2-1     |                              |                   |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                              |                                 |                         |
|-----------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 535 | <b>TRT#:</b> 1               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 731 |
|                       | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87042291 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                      |                   |                                  |                    |
|----------------------|-------------------|----------------------------------|--------------------|
| Lymph Node           | Mesenteric        | Hematopoietic Cell Proliferation | Mild               |
|                      | Mesenteric        | Hemorrhage                       | Moderate           |
|                      | Mesenteric        | Hyperplasia                      | Lymphoid, Moderate |
| Note: HEMA CELL PROL | TGLs = 5-5        |                                  |                    |
| Note: HEMORRHAGE     | TGLs = 5-5        |                                  |                    |
| Note: HYPERPLASIA    | TGLs = 5-5        |                                  |                    |
| Pancreas             |                   | Cytoplasmic Alteration           | Mild               |
| Spleen               |                   | Hematopoietic Cell Proliferation | Mild               |
|                      | Lymph Follic      | Hyperplasia                      | Mild               |
| Stomach              | Glandular         | Cyst                             |                    |
|                      | Glandular, Mucosa | Dysplasia                        | Mild               |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 536

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A86041439

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Epididymis                |
| Esophagus                | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Lymph Node - Mandibular  | Nose                       | Pancreas                | Parathyroid Gland         |
| Pituitary Gland          | Prostate                   | Skin                    | Spleen                    |
| Stomach - Forestomach    | Stomach - Glandular        | Testes                  | Thymus                    |
| Thyroid Gland            | Trachea                    | Urinary Bladder         |                           |

**MISSING**

|             |               |
|-------------|---------------|
| Gallbladder | Mammary Gland |
|-------------|---------------|

**OBSERVATIONS**

|                                  |                                     |   |                  |
|----------------------------------|-------------------------------------|---|------------------|
| Adrenal Gland                    | Capsule, Cortex<br>Cortex<br>Cortex | Adenoma<br>Clear Cell Focus<br>Hyperplasia              | Focal, Minimal   |
| Brain                            | Thalamus                            | Mineralization  | Mild             |
| Harderian Gland                  |                                     | Adenoma   |                  |
| Note: ADENOMA TGLs = 4-22        |                                     |   |                  |
| Islets, Pancreatic               |                                     | Hyperplasia   | Mild             |
| Kidney                           |                                     | Cyst<br>Mineralization                                  | Mild             |
|                                  | Renal Tubule                        | Regeneration  | Minimal          |
| Liver                            |                                     | Hepatocellular Carcinoma<br>Mixed Cell Focus            |                  |
| Note: HEPATOCLR CARC TGLs = 3-21 |                                     |   |                  |
| Lung                             |                                     | Alveolar/Bronchiolar Carcinoma<br>Infiltration Cellular | Histiocyte, Mild |
| Note: ALV BRON CARC TGLs = 2-23  |                                     |   |                  |
| Lymph Node                       | Mesenteric                          | Hemorrhage  | Minimal          |
| Salivary Glands                  |                                     | Hyperplasia   | Lymphoid, Mild   |
| Seminal Vesicle                  |                                     | Dilatation  | Mild             |
| Note: DILATATION TGLs = 1-7      |                                     |   |                  |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 536

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A86041439

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 537

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87042292

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Pancreas                  | Parathyroid Gland        | Pituitary Gland            | Prostate                |
| Skin                      | Stomach - Forestomach    | Stomach - Glandular        | Testes                  |
| Thymus                    | Thyroid Gland            | Trachea                    | Urinary Bladder         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|   |                |                        |                   |
|---|----------------|------------------------|-------------------|
| Adrenal Gland   | Cortex         | Hyperplasia            | Focal, Mild       |
| Brain   | Thalamus       | Mineralization         | Mild              |
| Kidney  |                | Cyst                   |                   |
|   |                | Hyperplasia            | Lymphoid, Minimal |
|   |                | Mineralization         | Moderate          |
|   | Renal Tubule   | Regeneration           | Mild              |
| Liver   |                | Hepatocellular Adenoma | Multiple, Two     |
|   |                | Hyperplasia            | Focal, Moderate   |
| Note: HEPATOCLR ADEN TGLs = 2-21,4-6<br>Note: HYPERPLASIA TGLs = 3-6,5-22 |                |                        |                   |
| Lung  | Alveolar Epith | Hyperplasia            | Minimal           |
| Nose  | Glands         | Hyperplasia            | Cystic, Minimal   |
| Salivary Glands   |                | Hyperplasia            | Lymphoid, Mild    |
| Seminal Vesicle   |                | Dilatation             | Marked            |
| Note: DILATATION TGLs = 1-7   |                |                        |                   |
| Spleen  | Red Pulp       | Atrophy                | Mild              |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 538

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87042293

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Bone                      | Bone Marrow              | Brain                      |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lung                     | Nose                       |
| Pancreas                | Parathyroid Gland         | Pituitary Gland          | Prostate                   |
| Salivary Glands         | Skin                      | Stomach - Forestomach    | Stomach - Glandular        |
| Testes                  | Thyroid Gland             | Trachea                  | Urinary Bladder            |

**MISSING**

|                         |               |
|-------------------------|---------------|
| Adrenal Gland - Medulla | Mammary Gland |
|-------------------------|---------------|

**OBSERVATIONS**

|                    |              |                |                       |
|--------------------|--------------|----------------|-----------------------|
| Coagulating Gland  |              | Dilatation     | Moderate              |
| Note: DILATATION   | TGLs = 4-7   |                |                       |
| Islets, Pancreatic |              | Hyperplasia    | Moderate              |
| Kidney             |              | Mineralization | Moderate              |
|                    | Renal Tubule | Regeneration   | Moderate              |
| Liver              | Lobules      | Necrosis       | Minimal               |
| Lymph Node         | Mesenteric   | Hemorrhage     | Mild                  |
|                    | Mandibular   | Hyperplasia    | Plasma Cell, Moderate |
|                    | Mesenteric   | Hyperplasia    | Lymphoid, Marked      |
| Note: HYPERPLASIA  | TGLs = 3-5   |                |                       |
| Seminal Vesicle    |              | Dilatation     | Moderate              |
| Note: DILATATION   | TGLs = 1-7   |                |                       |
| Spleen             | Lymph Follic | Hyperplasia    | Moderate              |
|                    | Red Pulp     | Hyperplasia    | Moderate              |
| Note: HYPERPLASIA  | TGLs = 2-6   |                |                       |
| Note: HYPERPLASIA  | TGLs = 2-6   |                |                       |
| Thymus             |              | Cyst           |                       |
| Tooth              |              | Dysplasia      | Mild                  |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 538

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87042293

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: MILD INFLAMMATION IN PHARYNX; NOT CODED

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                              |                                 |                         |
|-----------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 539 | <b>TRT#:</b> 1               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 737 |
|                       | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A86041440 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex     | Adrenal Gland - Medulla | Bone                      | Bone Marrow              |
| Brain                      | Epididymis              | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Liver                      | Lymph Node - Mandibular | Nose                      | Pancreas                 |
| Parathyroid Gland          | Pituitary Gland         | Prostate                  | Salivary Glands          |
| Seminal Vesicle            | Skin                    | Spleen                    | Stomach - Forestomach    |
| Stomach - Glandular        | Testes                  | Thymus                    | Trachea                  |
| Urinary Bladder            |                         |                           |                          |

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

|                                       |                |                                |                      |
|---------------------------------------|----------------|--------------------------------|----------------------|
| Kidney                                |                | Cyst                           |                      |
|                                       |                | Mineralization                 | Moderate             |
|                                       | Renal Tubule   | Regeneration                   | Moderate             |
| Lung                                  |                | Alveolar/Bronchiolar Carcinoma |                      |
|                                       | Alveolar Epith | Hyperplasia                    | Mild                 |
|                                       |                | Infiltration Cellular          | Histiocyte, Moderate |
| [ Infiltration Cellular TGLS = 1-21 ] |                |                                |                      |
| Lymph Node                            | Mesenteric     | Hemorrhage                     | Minimal              |
| Thyroid Gland                         |                | Degeneration                   | Cystic, Mild         |

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                              |                            |                         |
|-----------------------|------------------------------|----------------------------|-------------------------|
| <b>ANIMAL ID:</b> 540 | <b>TRT#:</b> 1               | <b>SEX:</b> Male           | <b>DAY ON TEST:</b> 657 |
|                       | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Natural Death | <b>HISTO:</b> A87042294 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                            |                         |                         |                          |
|----------------------------|-------------------------|-------------------------|--------------------------|
| Adrenal Gland - Cortex     | Adrenal Gland - Medulla | Bone                    | Epididymis               |
| Esophagus                  | Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Islets, Pancreatic      | Lymph Node - Mandibular | Lymph Node - Mesenteric  |
| Pancreas                   | Parathyroid Gland       | Pituitary Gland         | Prostate                 |
| Seminal Vesicle            | Skin                    | Spleen                  | Stomach - Forestomach    |
| Stomach - Glandular        | Testes                  | Thyroid Gland           | Trachea                  |
| Urinary Bladder            |                         |                         |                          |

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**MISSING**

Mammary Gland

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**AUTO PRECLUDES DIAG.**

|                         |                           |
|-------------------------|---------------------------|
| Intestine Small - Ileum | Intestine Small - Jejunum |
|-------------------------|---------------------------|

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**OBSERVATIONS**

|                                  |                            |                          |          |
|----------------------------------|----------------------------|--------------------------|----------|
| Bone Marrow                      |                            | Hypercellularity         | Moderate |
| Brain                            | Thalamus                   | Mineralization           | Mild     |
| Gallbladder                      |                            | Dilatation               | Mild     |
| Heart                            |                            | Sarcoma                  |          |
| Kidney                           |                            | Mineralization           | Mild     |
|                                  |                            | Sarcoma                  |          |
| Liver                            |                            | Hepatocellular Carcinoma |          |
|                                  |                            | Sarcoma                  |          |
| Note: HEPATOCLR CARC TGLs = 3-21 |                            |                          |          |
| Lung                             |                            | Congestion               | Mild     |
|                                  |                            | Sarcoma                  |          |
| Lymph Node                       | Inguinal, Popliteal, Renal | Sarcoma                  |          |
| Nose                             |                            | Exudate                  |          |
| Salivary Glands                  |                            | Sarcoma                  |          |
| Skeletal Muscle                  |                            | Sarcoma                  |          |
| Thymus                           |                            | Depletion Cellular       | Mild     |

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 541

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87042295

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Epididymis                | Esophagus                | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Nose                       | Pancreas                |
| Parathyroid Gland         | Pituitary Gland          | Prostate                   | Seminal Vesicle         |
| Skin                      | Spleen                   | Stomach - Forestomach      | Stomach - Glandular     |
| Testes                    | Trachea                  | Urinary Bladder            |                         |

**MISSING**

|             |               |
|-------------|---------------|
| Gallbladder | Mammary Gland |
|-------------|---------------|

**OBSERVATIONS**

|                                  |                |                              |                   |
|----------------------------------|----------------|------------------------------|-------------------|
| Brain                            | Thalamus       | Mineralization               | Mild              |
| Islets, Pancreatic               |                | Hyperplasia                  | Minimal           |
| Kidney                           |                | Hyperplasia                  | Lymphoid, Minimal |
|                                  |                | Mineralization               | Moderate          |
|                                  | Renal Tubule   | Regeneration                 | Moderate          |
| Liver                            |                | Hepatocellular Adenoma       |                   |
| Note: HEPATOCLR ADEN TGLs = 1-21 |                |                              |                   |
| Lung                             |                | Alveolar/Bronchiolar Adenoma |                   |
| Note: ALV BRON ADEN TGLs = 2-2-1 |                |                              |                   |
| Lymph Node                       | Mesenteric     | Hemorrhage                   | Minimal           |
|                                  | Mesenteric     | Hyperplasia                  | Lymphoid, Mild    |
| Salivary Glands                  |                | Hyperplasia                  | Lymphoid, Minimal |
| Thymus                           |                | Cyst                         |                   |
| Thyroid Gland                    |                | Degeneration                 | Cystic, Mild      |
|                                  | Follicular Cel | Hyperplasia                  | Mild              |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 542

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** VEHICLE CONTROL

**DISP:** Moribund Sacrifice

**HISTO:** A87042296

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Nose                    |
| Parathyroid Gland         | Pituitary Gland          | Prostate                   | Seminal Vesicle         |
| Skin                      | Stomach - Forestomach    | Stomach - Glandular        | Testes                  |
| Thyroid Gland             | Trachea                  | Urinary Bladder            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|  |              |                                  |                      |
|--|--------------|----------------------------------|----------------------|
| Adrenal Gland                                  | Cortex       | Hyperplasia                      | Focal, Mild          |
| Brain  | Thalamus     | Mineralization                   | Mild                 |
| Kidney   |              | Casts Protein                    | Minimal              |
|  |              | Hyperplasia                      | Lymphoid, Mild       |
|  | Renal Tubule | Regeneration                     | Mild                 |
| Liver  |              | Hepatocellular Carcinoma         | Multiple, Three      |
|  | Kupffer Cell | Hyperplasia                      | Moderate             |
| Note: HEPATOCLR CARC TGLs = 2-21,3-22,3-23     |              |                                  |                      |
| Note: HEPATOCELLULAR CARCINOMA ALSO ON SLIDE 6 |              |                                  |                      |
| Lung   |              | Alveolar/Bronchiolar Adenoma     |                      |
|  |              | Infiltration Cellular            | Histiocyte, Moderate |
| Note: ALV BRON ADEN TGLs = 4-2-1               |              |                                  |                      |
| Lymph Node                                     | Mesenteric   | Hematopoietic Cell Proliferation | Mild                 |
|  | Mesenteric   | Hemorrhage                       | Mild                 |
| Pancreas                                       |              | Cytoplasmic Alteration           | Moderate             |
| Salivary Glands                                |              | Hyperplasia                      | Lymphoid, Minimal    |
| Spleen   |              | Hemangioma                       |                      |
|  |              | Hematopoietic Cell Proliferation | Moderate             |
| Note: HEMA CELL PROL TGLs = 1-6                |              |                                  |                      |
| Thymus   |              | Depletion Cellular               | Mild                 |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 542

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** VEHICLE CONTROL

**DISP:** Moribund Sacrifice

**HISTO:** A87042296

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 543

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** VEHICLE CONTROL

**DISP:** Moribund Sacrifice

**HISTO:** A87042297

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Medulla | Bone                      | Bone Marrow              | Brain                      |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    |
| Lymph Node - Mesenteric | Nose                      | Pancreas                 | Parathyroid Gland          |
| Pituitary Gland         | Prostate                  | Skin                     | Spleen                     |
| Stomach - Forestomach   | Stomach - Glandular       | Testes                   | Thyroid Gland              |
| Trachea                 | Urinary Bladder           |                          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                               |                       |                        |                   |
|-------------------------------|-----------------------|------------------------|-------------------|
| Adrenal Gland                 | Cortex                | Clear Cell Focus       |                   |
| Coagulating Gland             |                       | Dilatation             | Marked            |
|                               |                       | Inflammation           | Suppurative, Mild |
| Note: DILATATION              | TGLs = 8-7            |                        |                   |
| Islets, Pancreatic            |                       | Hyperplasia            | Mild              |
| Kidney                        |                       | Hydronephrosis         | Moderate          |
|                               |                       | Hyperplasia            | Lymphoid, Mild    |
|                               |                       | Mineralization         | Moderate          |
|                               | Renal Tubule          | Necrosis               | Moderate          |
|                               | Renal Tubule          | Regeneration           | Mild              |
| Note: HYDRONEPHROSIS          | TGLs = 3-21           |                        |                   |
| [ Hydronephrosis TGLS = 7-5 ] |                       |                        |                   |
| Liver                         |                       | Hepatocellular Adenoma | Multiple, Three   |
| Note: HEPATOCLR ADEN          | TGLs = 4-22,5-23,6-24 |                        |                   |
| Salivary Glands               |                       | Hyperplasia            | Lymphoid, Mild    |
| Seminal Vesicle               |                       | Dilatation             | Marked            |
| Note: DILATATION              | TGLs = 1-7            |                        |                   |
| Thymus                        |                       | Cyst                   |                   |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 543

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** VEHICLE CONTROL

**DISP:** Moribund Sacrifice

**HISTO:** A87042297

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 544

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87042298

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                         |                          |                         |
|---------------------------|-------------------------|--------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                    | Bone Marrow              | Brain                   |
| Epididymis                | Esophagus               | Gallbladder              | Heart                   |
| Intestine Large - Cecum   | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular | Lymph Node - Mesenteric  | Nose                    |
| Pancreas                  | Parathyroid Gland       | Prostate                 | Salivary Glands         |
| Seminal Vesicle           | Skin                    | Stomach - Forestomach    | Stomach - Glandular     |
| Testes                    | Thymus                  | Thyroid Gland            | Trachea                 |
| Urinary Bladder           |                         |                          |                         |

**MISSING**

|                            |               |                 |
|----------------------------|---------------|-----------------|
| Intestine Small - Duodenum | Mammary Gland | Pituitary Gland |
|----------------------------|---------------|-----------------|

**INSUFFICIENT TISSUE**

Preputial Gland

**OBSERVATIONS**

|                      |                       |                                  |                  |
|----------------------|-----------------------|----------------------------------|------------------|
| Adrenal Gland        | Cortex                | Hyperplasia                      | Focal, Mild      |
| Islets, Pancreatic   |                       | Hyperplasia                      | Mild             |
| Kidney               |                       | Mineralization                   | Mild             |
|                      | Renal Tubule          | Regeneration                     | Mild             |
| Liver                |                       | Hepatocellular Adenoma           | > Five, Multiple |
| Note: HEPATOCLR ADEN | TGLs = 3-22,4-23,5-24 |                                  |                  |
| Lung                 |                       | Hemorrhage                       | Mild             |
| Spleen               |                       | Hemangiosarcoma                  |                  |
|                      |                       | Hematopoietic Cell Proliferation | Mild             |
| Note: HEMA CELL PROL | TGLs = 1-21,1-6       |                                  |                  |
| Note: HEMANGIOSARC   | TGLs = 2-21           |                                  |                  |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 545

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87042299

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Epididymis                |
| Esophagus                | Gallbladder                | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Lymph Node - Mandibular  | Nose                       | Pancreas                | Parathyroid Gland         |
| Prostate                 | Salivary Glands            | Seminal Vesicle         | Skin                      |
| Stomach - Forestomach    | Stomach - Glandular        | Testes                  | Thyroid Gland             |
| Trachea                  | Urinary Bladder            |                         |                           |

**MISSING**

|               |                 |        |
|---------------|-----------------|--------|
| Mammary Gland | Pituitary Gland | Thymus |
|---------------|-----------------|--------|

**OBSERVATIONS**

|   |                 |                        |                   |
|---|-----------------|------------------------|-------------------|
| Adrenal Gland   | Capsule, Cortex | Hyperplasia            | Mild              |
|   | Cortex          | Hyperplasia            | Focal, Minimal    |
| Brain   | Thalamus        | Mineralization         | Mild              |
| Heart   | Epicardium      | Inflammation           | Chronic, Minimal  |
| Islets, Pancreatic  |                 | Hyperplasia            | Mild              |
| Kidney  |                 | Mineralization         | Moderate          |
|   | Renal Tubule    | Regeneration           | Mild              |
| Liver   |                 | Hemangiosarcoma        |                   |
|   |                 | Hepatocellular Adenoma | Multiple, Three   |
| Note: HEMANGIOSARC TGLs = 5-6,5-22<br>Note: HEPATOCLR ADEN TGLs = 2-21,3-22<br>Note: HEPATOCELLULAR ADENOMA ALSO ON SLIDE 6 |                 |                        |                   |
| Lung  |                 | Hyperplasia            | Lymphoid, Minimal |
| Lymph Node  | Mesenteric      | Hemorrhage             | Mild              |
| Note: HEMORRHAGE TGLs = 4-5   |                 |                        |                   |
| Spleen  |                 | Hemangiosarcoma        |                   |
|   | Red Pulp        | Hyperplasia            | Mild              |
| Note: HYPERPLASIA TGLs = 1-6<br>Note: HEMANGIOSARC TGLs = 1-6   |                 |                        |                   |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 545

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87042299

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 546

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 101

**DOSE:** VEHICLE 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033886

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Heart  
Intestine Small - Duodenum  
Kidney  
Lymph Node - Mesenteric  
Parathyroid Gland  
Seminal Vesicle  
Stomach - Glandular  
Trachea

Adrenal Gland - Medulla  
Epididymis  
Intestine Large - Cecum  
Intestine Small - Ileum  
Liver  
Mesentery  
Pituitary Gland  
Skin  
Testes  
Urinary Bladder

Bone  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lung  
Nose  
Prostate  
Spleen  
Thymus

Bone Marrow  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mandibular  
Pancreas  
Salivary Glands  
Stomach - Forestomach  
Thyroid Gland

**MISSING**

Mammary Gland

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 547

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 101

**DOSE:** VEHICLE 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033887

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex     | Adrenal Gland - Medulla | Bone                      | Bone Marrow              |
| Brain                      | Epididymis              | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Liver                      | Lung                    | Lymph Node - Mandibular   | Lymph Node - Mesenteric  |
| Nose                       | Pancreas                | Parathyroid Gland         | Pituitary Gland          |
| Prostate                   | Salivary Glands         | Seminal Vesicle           | Skin                     |
| Spleen                     | Stomach - Forestomach   | Stomach - Glandular       | Testes                   |
| Thymus                     | Thyroid Gland           | Trachea                   | Urinary Bladder          |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|        |              |              |         |
|--------|--------------|--------------|---------|
| Kidney | Renal Tubule | Regeneration | Minimal |
|--------|--------------|--------------|---------|

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 548

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 100

**DOSE:** VEHICLE 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033888

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Medulla  
Epididymis  
Intestine Large - Cecum  
Intestine Small - Ileum  
Liver  
Nose  
Prostate  
Spleen  
Thyroid Gland

Bone  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lung  
Pancreas  
Salivary Glands  
Stomach - Forestomach  
Trachea

Bone Marrow  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mandibular  
Parathyroid Gland  
Seminal Vesicle  
Stomach - Glandular  
Urinary Bladder

Brain  
Heart  
Intestine Small - Duodenum  
Kidney  
Lymph Node - Mesenteric  
Pituitary Gland  
Skin  
Testes

**MISSING**

Mammary Gland

**INSUFFICIENT TISSUE**

Thymus

**OBSERVATIONS**

Adrenal Gland

Cortex

Accessory Adrenal Cortical Nodule

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 549

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 102

**DOSE:** VEHICLE 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033889

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Heart  
Intestine Small - Duodenum  
Kidney  
Lymph Node - Mesenteric  
Pituitary Gland  
Skin  
Testes  
Urinary Bladder

Adrenal Gland - Medulla  
Epididymis  
Intestine Large - Cecum  
Intestine Small - Ileum  
Liver  
Nose  
Prostate  
Spleen  
Thymus

Bone  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lung  
Pancreas  
Salivary Glands  
Stomach - Forestomach  
Thyroid Gland

Bone Marrow  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mandibular  
Parathyroid Gland  
Seminal Vesicle  
Stomach - Glandular  
Trachea

**MISSING**

Mammary Gland

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 550

**TRT#:** 2

**SEX:** Male

**DAY ON TEST:** 101

**DOSE:** VEHICLE 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033890

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Kidney                     |
| Liver                   | Lung                      | Lymph Node - Mandibular  | Lymph Node - Mesenteric    |
| Nose                    | Pancreas                  | Parathyroid Gland        | Pituitary Gland            |
| Prostate                | Salivary Glands           | Seminal Vesicle          | Skin                       |
| Spleen                  | Stomach - Forestomach     | Stomach - Glandular      | Testes                     |
| Thymus                  | Thyroid Gland             | Trachea                  | Urinary Bladder            |

**MISSING**

|            |               |
|------------|---------------|
| Epididymis | Mammary Gland |
|------------|---------------|

PRIMARY CAUSE OF DEATH -

Animal Note: THE COLON IS ON SLIDE NUMBER 7.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 551

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 457

**DOSE:** VEHICLE CONTROL

**DISP:** Scheduled Sacrifice

**HISTO:** A86037741

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Medulla | Bone                      | Bone Marrow              | Brain                      |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    |
| Lymph Node - Mesenteric | Nose                      | Pancreas                 | Parathyroid Gland          |
| Pituitary Gland         | Prostate                  | Salivary Glands          | Seminal Vesicle            |
| Skin                    | Spleen                    | Stomach - Forestomach    | Stomach - Glandular        |
| Testes                  | Thymus                    | Thyroid Gland            | Trachea                    |
| Urinary Bladder         |                           |                          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                      |                  |                           |               |
|----------------------|------------------|---------------------------|---------------|
| Adrenal Gland        | Cortex           | Hyperplasia               | Focal, Mild   |
| Islets, Pancreatic   |                  | Hyperplasia               | Mild          |
| Kidney               |                  | Casts Protein             | Minimal       |
|                      | Renal Tubule     | Dilatation                | Minimal       |
|                      | Renal Tubule     | Regeneration              | Minimal       |
| Liver                | Hepatocyte       | Cytomegaly                | Mild          |
|                      |                  | Hepatocellular Adenoma    | Multiple, Two |
|                      | Hepatocyte       | Vacuolization Cytoplasmic | Moderate      |
| Note: HEPATOCLR ADEN | TGLs = 2-22,3-23 |                           |               |
| Mesentery            | Fat              | Necrosis                  | Mild          |
| Note: NECROSIS       | TGLs = 1-21      |                           |               |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 552

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 457

**DOSE:** VEHICLE CONTROL

**DISP:** Scheduled Sacrifice

**HISTO:** A86037742

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Seminal Vesicle          | Skin                       | Spleen                  |
| Stomach - Forestomach     | Stomach - Glandular      | Testes                     | Thymus                  |
| Thyroid Gland             | Trachea                  |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|               |                 |                              |                   |
|---------------|-----------------|------------------------------|-------------------|
| Adrenal Gland | Capsule, Cortex | Hyperplasia                  | Mild              |
| Brain         | Thalamus        | Mineralization               | Minimal           |
| Kidney        |                 | Casts Protein                | Minimal           |
|               |                 | Inflammation                 | Chronic, Minimal  |
|               |                 | Mineralization               | Minimal           |
|               | Renal Tubule    | Regeneration                 | Mild              |
| Liver         |                 | Hepatocellular Adenoma       | Multiple, Two     |
|               | Hepatocyte      | Vacuolization Cytoplasmic    | Mild              |
|               |                 |                              |                   |
|               |                 | Alveolar/Bronchiolar Adenoma |                   |
|               |                 |                              |                   |
|               |                 | Hyperplasia                  | Lymphoid, Minimal |
|               |                 | Inflammation                 | Chronic, Mild     |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 553

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** VEHICLE CONTROL

**DISP:** Scheduled Sacrifice

**HISTO:** A86037743

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex     | Adrenal Gland - Medulla | Bone                      | Bone Marrow              |
| Brain                      | Epididymis              | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   | Nose                     |
| Pancreas                   | Parathyroid Gland       | Pituitary Gland           | Salivary Glands          |
| Seminal Vesicle            | Skin                    | Spleen                    | Stomach - Forestomach    |
| Stomach - Glandular        | Testes                  | Thymus                    | Thyroid Gland            |
| Trachea                    | Urinary Bladder         |                           |                          |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|          |              |  |  |
|----------|--------------|--|--|
| Kidney   | Renal Tubule | Dilatation<br>Inflammation<br>Mineralization | Minimal<br>Chronic, Minimal<br>Minimal |
| Liver    | Renal Tubule | Regeneration<br>Inflammation                 | Minimal<br>Chronic Active, Minimal     |
| Prostate | Hepatocyte   | Vacuolization Cytoplasmic<br>Inflammation    | Mild<br>Chronic, Minimal               |

**PRIMARY CAUSE OF DEATH**

-

Animal Note: TGL #2 WAS AN INGUINAL LYMPH NODE.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 554      **TRT#:** 1      **SEX:** Male      **DAY ON TEST:** 458  
**DOSE:** VEHICLE CONTROL      **DISP:** Scheduled Sacrifice      **HISTO:** A86037744

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lung                     | Nose                       | Pancreas                |
| Parathyroid Gland         | Pituitary Gland          | Salivary Glands            | Seminal Vesicle         |
| Spleen                    | Stomach - Forestomach    | Stomach - Glandular        | Testes                  |
| Thymus                    | Trachea                  | Urinary Bladder            |                         |

**MISSING**

|                         |               |
|-------------------------|---------------|
| Lymph Node - Mandibular | Mammary Gland |
|-------------------------|---------------|

**OBSERVATIONS**

|                                   |              |                           |                      |
|-----------------------------------|--------------|---------------------------|----------------------|
| Adrenal Gland                     | Cortex       | Hyperplasia               | Focal, Minimal       |
| Brain                             | Thalamus     | Mineralization            | Mild                 |
| Islets, Pancreatic                |              | Cyst                      |                      |
|                                   |              | Hyperplasia               | Marked               |
| Kidney                            | Renal Tubule | Dilatation                | Minimal              |
|                                   |              | Mineralization            | Minimal              |
|                                   | Renal Tubule | Regeneration              | Mild                 |
| Liver                             | Hepatocyte   | Cytomegaly                | Mild                 |
|                                   | Hepatocyte   | Vacuolization Cytoplasmic | Mild                 |
| Lymph Node                        | Mesenteric   | Hemorrhage                | Minimal              |
| Prostate                          |              | Inflammation              | Chronic, Minimal     |
| Skin                              |              | Inflammation              | Chronic, Mild        |
| Note: INFLAMMATION    TGLs = 1-21 |              |                           |                      |
| Thyroid Gland                     | Follicle     | Inflammation              | Suppurative, Minimal |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 555

**TRT#:** 1

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** VEHICLE CONTROL

**DISP:** Scheduled Sacrifice

**HISTO:** A86037745

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mesenteric    | Nose                    |
| Pancreas                  | Parathyroid Gland        | Prostate                   | Seminal Vesicle         |
| Skin                      | Spleen                   | Stomach - Forestomach      | Testes                  |
| Thymus                    | Thyroid Gland            | Trachea                    | Urinary Bladder         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|   |               |                              |                   |
|---|---------------|------------------------------|-------------------|
| Adrenal Gland   | Cortex        | Hyperplasia                  | Focal, Minimal    |
| Brain   | Thalamus      | Mineralization               | Mild              |
| Kidney  | Renal Tubule  | Dilatation                   | Minimal           |
|   |               | Mineralization               | Minimal           |
|   | Renal Tubule  | Regeneration                 | Minimal           |
| Note: [ MINERALIZATION ] TGLs = 5.1                       |               |                              |                   |
| Liver   | Hepatocyte    | Cytomegaly                   | Mild              |
|   | Hepatocyte    | Vacuolization Cytoplasmic    | Moderate          |
| Note: ENLARGED HEPATOCYTES ARE WITH VACUOLATED CYTOPLASM. |               |                              |                   |
| Lung  |               | Alveolar/Bronchiolar Adenoma |                   |
| Lymph Node  | Mandibular    | Hemorrhage                   | Mild              |
| Pituitary Gland   | Pars Distalis | Angiectasis                  | Minimal           |
|   | Pars Distalis | Cyst                         |                   |
| Note: ANGIECTASIS TGLs = 1-1                              |               |                              |                   |
| Salivary Glands   |               | Hyperplasia                  | Lymphoid, Minimal |
| Stomach   | Glandular     | Cyst                         |                   |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 556

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042377

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      | Lung                    |
| Lymph Node - Mandibular   | Lymph Node - Mesenteric  | Nose                       | Pancreas                |
| Parathyroid Gland         | Pituitary Gland          | Prostate                   | Salivary Glands         |
| Seminal Vesicle           | Skin                     | Spleen                     | Stomach - Forestomach   |
| Testes                    | Trachea                  | Urinary Bladder            |                         |

**MISSING**

|               |        |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

**OBSERVATIONS**

|               |              |                |                 |
|---------------|--------------|----------------|-----------------|
| Adrenal Gland | Cortex       | Hyperplasia    | Focal, Moderate |
| Brain         | Thalamus     | Mineralization | Minimal         |
| Kidney        |              | Mineralization | Minimal         |
|               | Renal Tubule | Regeneration   | Mild            |
| Stomach       | Glandular    | Cyst           |                 |
| Thyroid Gland |              | Degeneration   | Cystic, Minimal |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 557

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042378

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Nose                     | Pancreas                   | Parathyroid Gland       |
| Pituitary Gland           | Prostate                 | Salivary Glands            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Stomach - Glandular        | Testes                  |
| Thymus                    | Thyroid Gland            | Trachea                    | Urinary Bladder         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                      |                  |                        |                |
|----------------------|------------------|------------------------|----------------|
| Adrenal Gland        | Cortex           | Hyperplasia            | Focal, Minimal |
| Brain                | Thalamus         | Mineralization         | Mild           |
| Kidney               | Renal Tubule     | Atrophy                | Mild           |
|                      |                  | Cyst                   |                |
|                      |                  | Mineralization         | Minimal        |
|                      | Renal Tubule     | Regeneration           | Minimal        |
| Liver                |                  | Hepatocellular Adenoma | Multiple, Two  |
| Note: HEPATOCLR ADEN | TGLs = 2-21,3-22 |                        |                |
| Seminal Vesicle      |                  | Dilatation             | Moderate       |
| Note: DILATATION     | TGLs = 1-7       |                        |                |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 558      **TRT#:** 5      **SEX:** Male      **DAY ON TEST:** 586  
**DOSE:** 0.0200% CHLORAMI      **DISP:** Moribund Sacrifice      **HISTO:** A87042379

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Nose                       | Pancreas                |
| Parathyroid Gland         | Pituitary Gland          | Prostate                   | Salivary Glands         |
| Seminal Vesicle           | Stomach - Forestomach    | Stomach - Glandular        | Testes                  |
| Thyroid Gland             | Trachea                  | Urinary Bladder            |                         |

**MISSING**

|                         |               |
|-------------------------|---------------|
| Lymph Node - Mesenteric | Mammary Gland |
|-------------------------|---------------|

**OBSERVATIONS**

|                      |                  |                                   |                    |
|----------------------|------------------|-----------------------------------|--------------------|
| Adrenal Gland        | Cortex           | Accessory Adrenal Cortical Nodule |                    |
| Brain                | Thalamus         | Mineralization                    | Minimal            |
| Islets, Pancreatic   |                  | Hyperplasia                       | Minimal            |
| Kidney               | Renal Tubule     | Atrophy                           | Mild               |
|                      |                  | Casts Protein                     | Minimal            |
|                      | Renal Tubule     | Dilatation                        | Mild               |
|                      | Renal Tubule     | Regeneration                      | Mild               |
| Liver                |                  | Hepatocellular Carcinoma          |                    |
|                      | Lobules          | Necrosis                          | Marked             |
| Note: HEPATOCLR CARC | TGLs = 6-23      |                                   |                    |
| Note: NECROSIS       | TGLs = 7-6       |                                   |                    |
| Lung                 |                  | Hepatocellular Carcinoma          | Metastatic (Liver) |
|                      |                  | Infiltration Cellular             | Histiocyte, Mild   |
| Preputial Gland      |                  | Ectasia                           | Mild               |
| Skeletal Muscle      |                  | Hemangiosarcoma                   |                    |
| Note: HEMANGIOSARC   | TGLs = 2-21,5-22 |                                   |                    |
| Skin                 | Subcut Tiss      | Edema                             | Marked             |
| Spleen               |                  | Hematopoietic Cell Proliferation  | Moderate           |
| Thymus               |                  | Cyst                              |                    |
|                      |                  | Depletion Cellular                | Moderate           |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 558

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 586

**DOSE:** 0.0200% CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042379

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05089-02  
Test Type: CHRONIC  
Route: DOSED WATER  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Chloraminated water  
CAS Number: CHLORAMINEMX

Date Report Requested: 10/20/2014  
Time Report Requested: 00:10:11  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 559

TRT#: 5

SEX: Male

DAY ON TEST: 737

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87042380

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Salivary Glands          | Seminal Vesicle            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Stomach - Glandular        | Testes                  |
| Thymus                    | Trachea                  | Urinary Bladder            |                         |

MISSING

Mammary Gland

OBSERVATIONS

|               |                |                  |                |
|---------------|----------------|------------------|----------------|
| Adrenal Gland | Cortex         | Hyperplasia      | Focal, Minimal |
| Brain         | Thalamus       | Mineralization   | Minimal        |
| Kidney        | Renal Tubule   | Adenoma          |                |
|               |                | Cyst             |                |
|               |                | Hyperplasia      | Lymphoid, Mild |
|               |                | Mineralization   | Mild           |
|               | Renal Tubule   | Regeneration     | Mild           |
| Note: ADENOMA | TGLs = 1-21    |                  |                |
| Liver         |                | Clear Cell Focus |                |
| Lymph Node    | Mesenteric     | Hemorrhage       | Minimal        |
| Thyroid Gland | Follicle       | Cyst             |                |
|               | Follicular Cel | Hyperplasia      | Minimal        |
| Tooth         |                | Dysplasia        | Mild           |

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 560

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042381

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Salivary Glands          | Seminal Vesicle            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Testes                     | Thymus                  |
| Thyroid Gland             | Trachea                  | Urinary Bladder            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                               |              |                  |                       |
|-------------------------------|--------------|------------------|-----------------------|
| Adrenal Gland                 | Cortex       | Clear Cell Focus |                       |
| Brain                         | Thalamus     | Mineralization   | Minimal               |
| Kidney                        | Renal Tubule | Dilatation       | Mild                  |
|                               |              | Mineralization   | Mild                  |
|                               | Renal Tubule | Regeneration     | Minimal               |
| Liver                         |              | Hyperplasia      | Focal, Moderate       |
|                               |              | Inflammation     | Chronic, Minimal      |
| Note: HYPERPLASIA TGLs = 2-21 |              |                  |                       |
| Lymph Node                    | Mesenteric   | Hyperplasia      | Plasma Cell, Moderate |
|                               | Mesenteric   | Hyperplasia      | Lymphoid, Moderate    |
| Preputial Gland               |              | Ectasia          | Moderate              |
| Note: ECTASIA TGLs = 1-8      |              |                  |                       |
| Stomach                       | Glandular    | Cyst             |                       |
|                               | Glandular    | Metaplasia       | Squamous, Mild        |

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 561

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042382

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Nose                       | Pancreas                |
| Parathyroid Gland         | Pituitary Gland          | Prostate                   | Salivary Glands         |
| Seminal Vesicle           | Skin                     | Spleen                     | Stomach - Forestomach   |
| Stomach - Glandular       | Testes                   | Thymus                     | Trachea                 |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                      |                  |                                   |                   |
|----------------------|------------------|-----------------------------------|-------------------|
| Adrenal Gland        | Cortex           | Accessory Adrenal Cortical Nodule |                   |
|                      | Capsule, Cortex  | Adenoma                           |                   |
| Brain                | Thalamus         | Mineralization                    | Mild              |
| Islets, Pancreatic   |                  | Hyperplasia                       | Moderate          |
| Kidney               |                  | Hyperplasia                       | Lymphoid, Minimal |
|                      |                  | Mineralization                    | Mild              |
|                      | Renal Tubule     | Regeneration                      | Mild              |
| Liver                |                  | Hepatocellular Adenoma            | Multiple, Two     |
|                      |                  | Hepatocellular Carcinoma          |                   |
| Note: HEPATOCLR ADEN | TGLs = 3-21,4-22 |                                   |                   |
| Note: HEPATOCLR CARC | TGLs = 5-23      |                                   |                   |
| Lung                 |                  | Alveolar/Bronchiolar Adenoma      |                   |
| Note: ALV BRON ADEN  | TGLs = 6-2-1     |                                   |                   |
| Lymph Node           | Mesenteric       | Hemorrhage                        | Minimal           |
| Thyroid Gland        | Follicular Cel   | Hyperplasia                       | Minimal           |
| Tooth                |                  | Dysplasia                         | Mild              |
| Urinary Bladder      |                  | Dilatation                        | Marked            |
| Note: DILATATION     | TGLs = 1-8       |                                   |                   |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 562

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 0.0200% CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042383

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Medulla | Bone                      | Bone Marrow              | Brain                      |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    |
| Lymph Node - Mesenteric | Pancreas                  | Parathyroid Gland        | Pituitary Gland            |
| Prostate                | Salivary Glands           | Seminal Vesicle          | Skin                       |
| Stomach - Forestomach   | Testes                    | Thymus                   | Thyroid Gland              |
| Trachea                 | Urinary Bladder           |                          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                    |              |                                   |                   |
|------------------------------------|--------------|-----------------------------------|-------------------|
| Adrenal Gland                      | Cortex       | Accessory Adrenal Cortical Nodule |                   |
|                                    | Cortex       | Hyperplasia                       | Focal, Mild       |
| Kidney                             | Renal Tubule | Atrophy                           | Moderate          |
|                                    |              | Cyst                              |                   |
|                                    |              | Hyperplasia                       | Lymphoid, Minimal |
|                                    |              | Mineralization                    | Moderate          |
|                                    | Renal Tubule | Regeneration                      | Moderate          |
| Liver                              |              | Hepatocellular Adenoma            | Multiple, Two     |
| Note: [ HEPATOCLR ADEN ] TGLs = 21 |              |                                   |                   |
| Lung                               |              | Hyperplasia                       | Lymphoid, Minimal |
| Nose                               |              | Exudate                           |                   |
|                                    | Glands       | Hyperplasia                       | Cystic, Minimal   |
| Spleen                             |              | Hematopoietic Cell Proliferation  | Minimal           |
| Stomach                            | Glandular    | Cyst                              |                   |
|                                    | Glandular    | Mineralization                    | Minimal           |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                            |                         |
|-----------------------|-------------------------------|----------------------------|-------------------------|
| <b>ANIMAL ID:</b> 563 | <b>TRT#:</b> 5                | <b>SEX:</b> Male           | <b>DAY ON TEST:</b> 586 |
|                       | <b>DOSE:</b> 0.0200% CHLORAMI | <b>DISP:</b> Natural Death | <b>HISTO:</b> A87042384 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    |
| Lymph Node - Mesenteric | Nose                      | Pancreas                 | Parathyroid Gland          |
| Pituitary Gland         | Prostate                  | Salivary Glands          | Seminal Vesicle            |
| Skin                    | Stomach - Forestomach     | Stomach - Glandular      | Testes                     |
| Thymus                  | Thyroid Gland             | Trachea                  | Urinary Bladder            |

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

|                                  |              |                                  |         |
|----------------------------------|--------------|----------------------------------|---------|
| Brain                            | Thalamus     | Mineralization                   | Mild    |
| Islets, Pancreatic               |              | Hyperplasia                      | Mild    |
| Kidney                           | Renal Tubule | Dilatation                       | Mild    |
|                                  |              | Mineralization                   | Mild    |
|                                  | Renal Tubule | Regeneration                     | Minimal |
| Liver                            |              | Hemangiosarcoma                  |         |
| Note: [ HEMANGIOSARC ] TGLs = 21 |              |                                  |         |
| Spleen                           |              | Hematopoietic Cell Proliferation | Mild    |

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 564

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042385

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Nose                     | Pancreas                   | Parathyroid Gland       |
| Pituitary Gland           | Prostate                 | Seminal Vesicle            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Stomach - Glandular        | Testes                  |
| Thymus                    | Trachea                  | Urinary Bladder            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                       |                 |                        |                 |
|---------------------------------------|-----------------|------------------------|-----------------|
| Adrenal Gland                         | Capsule, Cortex | Hyperplasia            | Mild            |
|                                       | Cortex          | Hyperplasia            | Focal, Minimal  |
| Brain                                 | Thalamus        | Mineralization         | Mild            |
| Harderian Gland                       |                 | Adenoma                |                 |
| Note: [ ADENOMA ] TGLs = 9.1          |                 |                        |                 |
| Kidney                                | Renal Tubule    | Atrophy                | Mild            |
|                                       |                 | Casts Protein          | Minimal         |
|                                       |                 | Mineralization         | Mild            |
|                                       | Renal Tubule    | Regeneration           | Minimal         |
| Liver                                 |                 | Basophilic Focus       |                 |
|                                       |                 | Hepatocellular Adenoma | Multiple, Two   |
| Note: HEPATOCLR ADEN TGLs = 1-21,2-22 |                 |                        |                 |
| Note: BASOPHILIC FOCUS IS ON SLIDE 21 |                 |                        |                 |
| Salivary Glands                       |                 | Hyperplasia            | Lymphoid, Mild  |
| Thyroid Gland                         |                 | Degeneration           | Cystic, Minimal |
|                                       | Follicular Cel  | Hyperplasia            | Mild            |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 565

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042386

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                         |                            |                         |
|---------------------------|-------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla | Bone                       | Bone Marrow             |
| Epididymis                | Esophagus               | Gallbladder                | Heart                   |
| Intestine Large - Cecum   | Intestine Large - Colon | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic      | Liver                      | Lung                    |
| Lymph Node - Mandibular   | Lymph Node - Mesenteric | Nose                       | Pancreas                |
| Parathyroid Gland         | Pituitary Gland         | Prostate                   | Salivary Glands         |
| Seminal Vesicle           | Skin                    | Spleen                     | Stomach - Forestomach   |
| Stomach - Glandular       | Testes                  | Thymus                     | Thyroid Gland           |
| Trachea                   | Urinary Bladder         |                            |                         |

**MISSING**

|                          |               |
|--------------------------|---------------|
| Intestine Large - Rectum | Mammary Gland |
|--------------------------|---------------|

**OBSERVATIONS**

|        |              |                |         |
|--------|--------------|----------------|---------|
| Brain  | Thalamus     | Mineralization | Mild    |
| Kidney |              | Cyst           |         |
|        |              | Mineralization | Minimal |
|        | Renal Tubule | Regeneration   | Mild    |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 566

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042387

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Medulla | Bone                      | Bone Marrow              | Brain                      |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lymph Node - Mesenteric  | Nose                       |
| Pancreas                | Pituitary Gland           | Prostate                 | Salivary Glands            |
| Seminal Vesicle         | Skin                      | Spleen                   | Stomach - Forestomach      |
| Stomach - Glandular     | Testes                    | Thymus                   | Thyroid Gland              |
| Trachea                 | Urinary Bladder           |                          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                 |                |                           |                 |
|---------------------------------|----------------|---------------------------|-----------------|
| Adrenal Gland                   | Cortex         | Hyperplasia               | Focal, Minimal  |
|                                 | Cortex         | Hypertrophy               | Focal, Moderate |
| Note: [ HYPERTROPHY ] TGLs = 10 |                |                           |                 |
| Harderian Gland                 |                | Adenoma                   |                 |
| Note: ADENOMA TGLs = 3-22       |                |                           |                 |
| Islets, Pancreatic              |                | Hyperplasia               | Moderate        |
| Kidney                          |                | Casts Protein             | Minimal         |
|                                 |                | Cyst                      |                 |
|                                 |                | Hyperplasia               | Lymphoid, Mild  |
|                                 |                | Mineralization            | Mild            |
|                                 | Renal Tubule   | Regeneration              | Mild            |
| Note: CYST TGLs = 4-23          |                |                           |                 |
| Liver                           |                | Basophilic Focus          |                 |
|                                 | Hepatocyte     | Vacuolization Cytoplasmic | Mild            |
| Note: BASOPH FOCUS TGLs = 2-21  |                |                           |                 |
| Lung                            | Alveolar Epith | Hyperplasia               | Minimal         |
| Lymph Node                      | Mandibular     | Hyperplasia               | Lymphoid, Mild  |
| Parathyroid Gland               |                | Cyst                      |                 |
| Preputial Gland                 |                | Ectasia                   | Moderate        |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 566

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042387

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: ECTASIA      TGLs = 1-8

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 567 | <b>TRT#:</b> 5                | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 638 |
|                       | <b>DOSE:</b> 0.0200% CHLORAMI | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87042388 |

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex     | Adrenal Gland - Medulla | Bone                      | Bone Marrow              |
| Brain                      | Epididymis              | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Lymph Node - Mandibular    | Lymph Node - Mesenteric | Nose                      | Pancreas                 |
| Parathyroid Gland          | Pituitary Gland         | Prostate                  | Salivary Glands          |
| Seminal Vesicle            | Skin                    | Stomach - Forestomach     | Thymus                   |
| Thyroid Gland              | Trachea                 | Urinary Bladder           |                          |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                   |              |                                  |                      |
|-----------------------------------|--------------|----------------------------------|----------------------|
| Kidney                            | Renal Tubule | Atrophy                          | Moderate             |
|                                   |              | Casts Protein                    | Minimal              |
|                                   |              | Hepatocellular Carcinoma         | Metastatic (Liver)   |
|                                   |              | Mineralization                   | Minimal              |
|                                   | Renal Tubule | Necrosis                         | Moderate             |
|                                   | Renal Tubule | Regeneration                     | Moderate             |
| [ Atrophy TGLS = 2-21 ]           |              |                                  |                      |
| Liver                             | Kupffer Cell | Hepatocellular Carcinoma         |                      |
|                                   | Lobules      | Hyperplasia                      | Mild                 |
| Note: HEPATOCLR CARC TGLs = 3-22  |              | Necrosis                         | Minimal              |
| Lung                              |              | Hemorrhage                       | Mild                 |
|                                   |              | Hepatocellular Carcinoma         | Metastatic (Liver)   |
| Note: HEPATOCLR CARC TGLs = 4-2-1 |              | Infiltration Cellular            | Histiocyte, Moderate |
| Lymph Node                        | Mediastinal  | Hepatocellular Carcinoma         | Metastatic (Liver)   |
| Note: HEPATOCLR CARC TGLs = 5-2   |              |                                  |                      |
| Spleen                            |              | Hematopoietic Cell Proliferation | Mild                 |
| Stomach                           | Glandular    | Cyst                             |                      |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 567

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 638

**DOSE:** 0.0200% CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042388

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Testes

Glandular  
Seminif Tub

Mineralization  
Atrophy

Mild  
Minimal

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 568

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 675

**DOSE:** 0.0200% CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042389

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Nose                      | Pituitary Gland          | Prostate                   | Salivary Glands         |
| Seminal Vesicle           | Skin                     | Stomach - Forestomach      | Stomach - Glandular     |
| Testes                    | Thyroid Gland            | Trachea                    | Urinary Bladder         |

**MISSING**

|               |                   |
|---------------|-------------------|
| Mammary Gland | Parathyroid Gland |
|---------------|-------------------|

**OBSERVATIONS**

|  |          |                                  |               |
|--|----------|----------------------------------|---------------|
| Adrenal Gland                            | Cortex   | Clear Cell Focus                 |               |
| Brain                                    | Thalamus | Mineralization                   | Mild          |
| Islets, Pancreatic                       |          | Hyperplasia                      | Mild          |
| Kidney                                   |          | Cyst                             |               |
|  |          | Mineralization                   | Mild          |
| Note: CYST      TGLs = 1-21              |          |                                  |               |
| Liver                                    |          | Hemangiosarcoma                  |               |
|  |          | Hepatocellular Adenoma           |               |
|  |          | Hepatocellular Carcinoma         | Multiple, Two |
| Note: HEPATOCLR CARC    TGLs = 2-22,3-23 |          |                                  |               |
| Note: [ HEMANGIOSARC ]    TGLs = 22      |          |                                  |               |
| Pancreas                                 |          | Atrophy                          | Moderate      |
| Spleen                                   |          | Hematopoietic Cell Proliferation | Mild          |
| Thymus                                   |          | Cyst                             |               |
|  |          | Depletion Cellular               | Mild          |
| Tooth                                    |          | Dysplasia                        | Moderate      |

**PRIMARY CAUSE OF DEATH**      -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 569 | <b>TRT#:</b> 5                | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 737 |
|                       | <b>DOSE:</b> 0.0200% CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042390 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Salivary Glands          | Seminal Vesicle            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Stomach - Glandular        | Testes                  |
| Thymus                    | Thyroid Gland            | Trachea                    | Urinary Bladder         |

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

|                                  |              |                        |                 |
|----------------------------------|--------------|------------------------|-----------------|
| Adrenal Gland                    | Cortex       | Hyperplasia            | Focal, Minimal  |
| Brain                            | Thalamus     | Mineralization         | Mild            |
| Kidney                           |              | Cyst                   |                 |
|                                  |              | Mineralization         | Moderate        |
|                                  | Renal Tubule | Regeneration           | Moderate        |
| Liver                            |              | Clear Cell Focus       |                 |
|                                  |              | Hepatocellular Adenoma |                 |
|                                  |              | Hyperplasia            | Focal, Moderate |
| Note: HYPERPLASIA TGLs = 2-21    |              |                        |                 |
| Note: HEPATOCLR ADEN TGLs = 3-22 |              |                        |                 |
| Note: CLEAR CL FOCUS TGLs = 3-22 |              |                        |                 |
| Lymph Node                       | Mesenteric   | Hemorrhage             | Moderate        |
| Note: HEMORRHAGE TGLs = 4-5      |              |                        |                 |

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 570

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042391

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Nose                      | Pancreas                 | Parathyroid Gland          | Prostate                |
| Salivary Glands           | Seminal Vesicle          | Skin                       | Stomach - Forestomach   |
| Testes                    | Thyroid Gland            | Trachea                    | Urinary Bladder         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                 |               |                        |                    |
|-----------------|---------------|------------------------|--------------------|
| Adrenal Gland   | Cortex        | Hyperplasia            | Focal, Minimal     |
| Brain           | Thalamus      | Mineralization         | Mild               |
| Kidney          | Renal Tubule  | Hyperplasia            | Focal, Moderate    |
|                 |               | Mineralization         | Moderate           |
|                 | Renal Tubule  | Regeneration           | Moderate           |
| Liver           |               | Hepatocellular Adenoma |                    |
|                 |               | Hyperplasia            | Lymphoid, Moderate |
| Lymph Node      | Mesenteric    | Hemorrhage             | Minimal            |
| Pituitary Gland | Pars Distalis | Cyst                   |                    |
| Spleen          | Lymph Follic  | Hyperplasia            | Moderate           |
| Stomach         | Glandular     | Cyst                   |                    |
|                 | Glandular     | Mineralization         | Minimal            |
| Thymus          |               | Cyst                   |                    |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 571 | <b>TRT#:</b> 5                | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 737 |
|                       | <b>DOSE:</b> 0.0200% CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042392 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    | Nose                    |
| Pancreas                  | Parathyroid Gland        | Pituitary Gland            | Prostate                |
| Skin                      | Spleen                   | Stomach - Forestomach      | Stomach - Glandular     |
| Testes                    | Thyroid Gland            | Trachea                    | Urinary Bladder         |

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

|   |              |                        |                   |
|---|--------------|------------------------|-------------------|
| Adrenal Gland                               | Cortex       | Hyperplasia            | Focal, Moderate   |
| Brain                                       | Thalamus     | Mineralization         | Mild              |
| Coagulating Gland                           |              | Dilatation             | Mild              |
| Note: DILATATION TGLs = 5-7                 |              |                        |                   |
| Gallbladder                                 |              |                        |                   |
| Note: GALLBLADDER IS ON SLIDE 24.           |              |                        |                   |
| Islets, Pancreatic                          |              | Hyperplasia            | Minimal           |
| Kidney                                      |              | Mineralization         | Moderate          |
|   | Renal Tubule | Regeneration           | Mild              |
| Liver                                       |              | Hepatocellular Adenoma | Four, Multiple    |
| Note: [ HEPATOCLR ADEN ] TGLs = 23,24,22,21 |              |                        |                   |
| Lymph Node                                  | Mesenteric   | Hemorrhage             | Minimal           |
| Salivary Glands                             |              | Hyperplasia            | Lymphoid, Minimal |
| Seminal Vesicle                             |              | Dilatation             | Mild              |
| Thymus                                      |              | Cyst                   |                   |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 572

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 0.0200% CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042393

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                          |                            |                         |
|-------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus               | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Lymph Node - Mandibular | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                | Salivary Glands          | Seminal Vesicle            | Skin                    |
| Stomach - Forestomach   | Thymus                   | Thyroid Gland              | Trachea                 |
| Urinary Bladder         |                          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|   |              |                                   |                      |
|---|--------------|-----------------------------------|----------------------|
| Adrenal Gland   | Cortex       | Accessory Adrenal Cortical Nodule |                      |
|   | Cortex       | Hyperplasia                       | Focal, Mild          |
| Brain   | Thalamus     | Mineralization                    | Mild                 |
| Harderian Gland   |              | Adenoma                           |                      |
| Note: ADENOMA   | TGLs = 3-23  |                                   |                      |
| Intestine Small   | Jejunum      | Carcinoma                         |                      |
| Note: CARCINOMA   | TGLs = 2-22  |                                   |                      |
| Islets, Pancreatic  |              | Hyperplasia                       | Minimal              |
| Note: HYPERPLASIA IS ON SLIDE 5                               |              |                                   |                      |
| Kidney  | Renal Tubule | Cyst                              |                      |
|   |              | Dilatation                        | Mild                 |
|   | Renal Tubule | Mineralization                    | Mild                 |
|   |              | Regeneration                      | Mild                 |
| Liver   |              | Hepatoblastoma                    |                      |
| Note: HEPATOBLASTOMA  | TGLs = 1-21  |                                   |                      |
| Lung  |              | Infiltration Cellular             | Histiocyte, Moderate |
| Note: MANY HISTIOCYTIC CELLS CONTAIN BROWN PIGMENT RESEMBLING |              |                                   |                      |
| Note: HEMOSIDERIN   |              |                                   |                      |
| Lymph Node  | Mesenteric   | Hematopoietic Cell Proliferation  | Minimal              |
|   | Mesenteric   | Hemorrhage                        | Moderate             |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 572 | <b>TRT#:</b> 5                | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 731 |
|                       | <b>DOSE:</b> 0.0200% CHLORAMI | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87042393 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|         |             |                                  |                |
|---------|-------------|----------------------------------|----------------|
| Nose    |             | Exudate                          |                |
| Spleen  |             | Hematopoietic Cell Proliferation | Mild           |
| Stomach | Glandular   | Cyst                             |                |
|         | Glandular   | Inflammation                     | Subacute, Mild |
|         | Glandular   | Mineralization                   | Minimal        |
| Testes  | Seminif Tub | Atrophy                          | Minimal        |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 573

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042394

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Medulla | Blood                     | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       |
| Lymph Node - Mandibular | Lymph Node - Mesenteric   | Nose                     | Pancreas                   |
| Parathyroid Gland       | Pituitary Gland           | Prostate                 | Salivary Glands            |
| Seminal Vesicle         | Skin                      | Spleen                   | Stomach - Forestomach      |
| Stomach - Glandular     | Testes                    | Thyroid Gland            | Trachea                    |

**MISSING**

|               |        |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

**OBSERVATIONS**

|                 |              |                |                   |
|-----------------|--------------|----------------|-------------------|
| Adrenal Gland   | Cortex       | Hyperplasia    | Focal, Minimal    |
| Brain           | Thalamus     | Mineralization | Mild              |
| Kidney          | Renal Tubule | Dilatation     | Minimal           |
|                 |              | Mineralization | Mild              |
| Liver           | Renal Tubule | Regeneration   | Mild              |
|                 | Hepatocyte   | Karyomegaly    | Minimal           |
| Preputial Gland |              | Ectasia        | Mild              |
| Urinary Bladder |              | Hyperplasia    | Lymphoid, Minimal |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 574 | <b>TRT#:</b> 5                | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 737 |
|                       | <b>DOSE:</b> 0.0200% CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042395 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                           |                         |                            |                         |
|---------------------------|-------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla | Bone                       | Bone Marrow             |
| Epididymis                | Esophagus               | Gallbladder                | Heart                   |
| Intestine Large - Cecum   | Intestine Large - Colon | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic      | Liver                      | Lung                    |
| Lymph Node - Mandibular   | Lymph Node - Mesenteric | Nose                       | Pancreas                |
| Pituitary Gland           | Prostate                | Salivary Glands            | Seminal Vesicle         |
| Skin                      | Spleen                  | Stomach - Forestomach      | Stomach - Glandular     |
| Testes                    | Thymus                  | Trachea                    | Urinary Bladder         |

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**MISSING**

|                          |               |                   |
|--------------------------|---------------|-------------------|
| Intestine Large - Rectum | Mammary Gland | Parathyroid Gland |
|--------------------------|---------------|-------------------|

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**OBSERVATIONS**

|               |                |                |          |
|---------------|----------------|----------------|----------|
| Brain         | Thalamus       | Mineralization | Minimal  |
| Kidney        |                | Mineralization | Moderate |
|               | Renal Tubule   | Regeneration   | Mild     |
| Thyroid Gland | Follicular Cel | Adenoma        |          |

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 575

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042396

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Brain                   |
| Epididymis                | Esophagus                | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Salivary Glands          | Seminal Vesicle            | Skin                    |
| Spleen                    | Stomach - Glandular      | Testes                     | Thymus                  |
| Trachea                   | Urinary Bladder          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|   |                     |                  |                   |
|---|---------------------|------------------|-------------------|
| Adrenal Gland                                   | Cortex              | Hyperplasia      | Focal, Minimal    |
| Gallbladder                                     |                     | Dilatation       | Moderate          |
| Kidney  | Renal Tubule        | Atrophy          | Mild              |
|   |                     | Granuloma        | Minimal           |
|   |                     | Hyperplasia      | Lymphoid, Minimal |
|   |                     | Mineralization   | Mild              |
|   | Renal Tubule        | Regeneration     | Moderate          |
| Note: GRANULOMA NEAR CORTICO-MEDULLARY JUNCTION |                     |                  |                   |
| Liver   |                     | Clear Cell Focus |                   |
| Lymph Node                                      | Mesenteric          | Hemorrhage       | Minimal           |
| Stomach   | Forestomach, Mucosa | Hyperplasia      | Minimal           |
| Thyroid Gland                                   |                     | Degeneration     | Cystic, Mild      |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 576

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042397

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Salivary Glands          | Seminal Vesicle            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Stomach - Glandular        | Testes                  |
| Thymus                    | Thyroid Gland            | Trachea                    | Urinary Bladder         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|  |                 |                |                   |
|--|-----------------|----------------|-------------------|
| Adrenal Gland  | Capsule, Cortex | Hyperplasia    | Mild              |
| Brain  | Thalamus        | Mineralization | Mild              |
| Harderian Gland  |                 | Adenoma        |                   |
| Kidney   | Renal Tubule    | Dilatation     | Mild              |
|  |                 | Granuloma      | Mild              |
|  |                 | Hyperplasia    | Lymphoid, Minimal |
|  |                 | Mineralization | Moderate          |
|  | Renal Tubule    | Regeneration   | Mild              |
| Note: GRANULOMAS PRESENT NEAR CORTICO-MEDULLARY JUNCTION |                 |                |                   |
| Liver  | Kupffer Cell    | Hyperplasia    | Moderate          |
|  |                 | Mineralization | Mild              |
| Note: [ HYPERPLASIA ] TGLs = 6                           |                 |                |                   |
| Lymph Node   | Mesenteric      | Hemorrhage     | Moderate          |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 577

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042398

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Seminal Vesicle          | Skin                       | Spleen                  |
| Stomach - Forestomach     | Stomach - Glandular      | Testes                     | Thymus                  |
| Thyroid Gland             | Trachea                  | Urinary Bladder            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                          |                |                                   |                   |
|--------------------------|----------------|-----------------------------------|-------------------|
| Adrenal Gland            | Cortex         | Accessory Adrenal Cortical Nodule |                   |
| Brain                    | Thalamus       | Mineralization                    | Minimal           |
| Kidney                   |                | Cyst                              |                   |
|                          | Renal Tubule   | Dilatation                        | Mild              |
|                          |                | Mineralization                    | Mild              |
|                          | Renal Tubule   | Regeneration                      | Mild              |
| Liver                    |                | Basophilic Focus                  |                   |
|                          |                | Hepatocellular Adenoma            |                   |
|                          |                | Hyperplasia                       | Focal, Mild       |
|                          |                | Metaplasia                        | Osseous, Moderate |
|                          | Lobules        | Necrosis                          | Moderate          |
| Note: NECROSIS           | TGLs = 1-21    |                                   |                   |
| Note: BASOPH FOCUS       | TGLs = 1-21    |                                   |                   |
| Note: METAPL             | TGLs = 3-23    |                                   |                   |
| Note: [ HEPATOCLR ADEN ] | TGLs = 22,22.1 |                                   |                   |
| Lung                     |                | Alveolar/Bronchiolar Adenoma      |                   |
| Note: ALV BRON ADEN      | TGLs = 4-2     |                                   |                   |
| Salivary Glands          |                | Hyperplasia                       | Lymphoid, Minimal |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 577

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042398

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 578 | <b>TRT#:</b> 5                | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 737 |
|                       | <b>DOSE:</b> 0.0200% CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042399 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex     | Adrenal Gland - Medulla | Bone                      | Bone Marrow              |
| Brain                      | Epididymis              | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Liver                      | Lung                    | Lymph Node - Mandibular   | Lymph Node - Mesenteric  |
| Nose                       | Pancreas                | Parathyroid Gland         | Pituitary Gland          |
| Prostate                   | Salivary Glands         | Spleen                    | Stomach - Forestomach    |
| Stomach - Glandular        | Testes                  | Thyroid Gland             | Trachea                  |
| Urinary Bladder            |                         |                           |                          |

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**MISSING**

|               |        |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

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**OBSERVATIONS**

|                 |              |                |               |
|-----------------|--------------|----------------|---------------|
| Kidney          | Renal Tubule | Atrophy        | Minimal       |
|                 | Renal Tubule | Dilatation     | Mild          |
|                 |              | Granuloma      | Minimal       |
|                 |              | Mineralization | Moderate      |
|                 |              | Regeneration   | Mild          |
| Seminal Vesicle |              | Dilatation     | Mild          |
| Skin            |              | Inflammation   | Chronic, Mild |

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 579

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042400

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Nose                     | Pancreas                   | Parathyroid Gland       |
| Pituitary Gland           | Prostate                 | Salivary Glands            | Seminal Vesicle         |
| Skin                      | Spleen                   | Stomach - Glandular        | Testes                  |
| Thymus                    | Trachea                  |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                  |                |                                   |                   |
|----------------------------------|----------------|-----------------------------------|-------------------|
| Adrenal Gland                    | Cortex         | Accessory Adrenal Cortical Nodule |                   |
|                                  | Cortex         | Hyperplasia                       | Focal, Minimal    |
| Brain                            | Thalamus       | Mineralization                    | Mild              |
| Kidney                           |                | Cyst                              |                   |
|                                  | Renal Tubule   | Dilatation                        | Mild              |
|                                  |                | Hyperplasia                       | Lymphoid, Minimal |
|                                  |                | Mineralization                    | Mild              |
|                                  | Renal Tubule   | Regeneration                      | Minimal           |
| Liver                            |                | Hepatocellular Adenoma            | Multiple, Two     |
| Note: HEPATOCLR ADEN TGLs = 1-21 |                |                                   |                   |
| Stomach                          | Forestomach    | Inflammation                      | Suppurative, Mild |
| Thyroid Gland                    | Follicular Cel | Hyperplasia                       | Minimal           |
| Urinary Bladder                  |                | Hyperplasia                       | Lymphoid, Minimal |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:11  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 580

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042401

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    | Nose                    |
| Pancreas                  | Parathyroid Gland        | Prostate                   | Salivary Glands         |
| Skin                      | Spleen                   | Stomach - Forestomach      | Stomach - Glandular     |
| Testes                    | Thymus                   | Trachea                    | Urinary Bladder         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|  |               |                                  |                   |
|--|---------------|----------------------------------|-------------------|
| Adrenal Gland  | Cortex        | Hyperplasia                      | Focal, Mild       |
| Brain  | Thalamus      | Mineralization                   | Mild              |
| Coagulating Gland  |               | Dilatation                       | Mild              |
| Note: DILATATION TGLs = 5-7                              |               |                                  |                   |
| Islets, Pancreatic                                       |               | Hyperplasia                      | Moderate          |
| Kidney   | Renal Tubule  | Atrophy                          | Mild              |
|  |               | Hyperplasia                      | Lymphoid, Minimal |
|  |               | Mineralization                   | Mild              |
|  | Renal Tubule  | Regeneration                     | Mild              |
| Liver  |               | Hepatocellular Adenoma           |                   |
|  |               | Hepatocellular Carcinoma         |                   |
| Note: HEPATOCLR CARC TGLs = 3-21                         |               |                                  |                   |
| Note: GLYCOGEN DEPLETION FROM PERIPORTAL AREAS;NOT CODED |               |                                  |                   |
| Note: HEPATOCLR ADEN TGLs = 4-22                         |               |                                  |                   |
| Lymph Node   | Mesenteric    | Hematopoietic Cell Proliferation | Mild              |
|  | Mesenteric    | Hemorrhage                       | Mild              |
| Note: HEMORRHAGE TGLs = 2-7                              |               |                                  |                   |
| Note: HEMA CELL PROL TGLs = 2-7                          |               |                                  |                   |
| Pituitary Gland  | Pars Distalis | Cyst                             |                   |
| Seminal Vesicle  |               | Dilatation                       | Moderate          |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 580 | <b>TRT#:</b> 5                | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 733 |
|                       | <b>DOSE:</b> 0.0200% CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042401 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                  |            |                |              |                   |
|------------------|------------|----------------|--------------|-------------------|
| Note: DILATATION | TGLs = 1-7 |                |              |                   |
| Thyroid Gland    |            | Follicle       | Cyst         |                   |
|                  |            | Follicular Cel | Hyperplasia  | Mild              |
|                  |            |                | Inflammation | Subacute, Minimal |

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 581

**TRT#:** 6

**SEX:** Male

**DAY ON TEST:** 102

**DOSE:** 0.0200% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033891

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Heart  
Intestine Small - Duodenum  
Kidney  
Lymph Node - Mesenteric  
Pituitary Gland  
Skin  
Testes  
Urinary Bladder

Adrenal Gland - Medulla  
Epididymis  
Intestine Large - Cecum  
Intestine Small - Ileum  
Liver  
Nose  
Prostate  
Spleen  
Thymus

Bone  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lung  
Pancreas  
Salivary Glands  
Stomach - Forestomach  
Thyroid Gland

Bone Marrow  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mandibular  
Parathyroid Gland  
Seminal Vesicle  
Stomach - Glandular  
Trachea

**MISSING**

Mammary Gland

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 582

**TRT#:** 6

**SEX:** Male

**DAY ON TEST:** 102

**DOSE:** 0.0200% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033892

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Heart  
Intestine Small - Duodenum  
Kidney  
Lymph Node - Mesenteric  
Pituitary Gland  
Skin  
Testes  
Urinary Bladder

Adrenal Gland - Medulla  
Epididymis  
Intestine Large - Cecum  
Intestine Small - Ileum  
Liver  
Nose  
Prostate  
Spleen  
Thymus

Bone  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lung  
Pancreas  
Salivary Glands  
Stomach - Forestomach  
Thyroid Gland

Bone Marrow  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mandibular  
Parathyroid Gland  
Seminal Vesicle  
Stomach - Glandular  
Trachea

**MISSING**

Mammary Gland

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 583

**TRT#:** 6

**SEX:** Male

**DAY ON TEST:** 100

**DOSE:** 0.0200% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033893

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Heart  
Intestine Small - Duodenum  
Kidney  
Nose  
Prostate  
Spleen  
Thymus

Adrenal Gland - Medulla  
Epididymis  
Intestine Large - Cecum  
Intestine Small - Ileum  
Liver  
Pancreas  
Salivary Glands  
Stomach - Forestomach  
Thyroid Gland

Bone  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mandibular  
Parathyroid Gland  
Seminal Vesicle  
Stomach - Glandular  
Trachea

Bone Marrow  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mesenteric  
Pituitary Gland  
Skin  
Testes  
Urinary Bladder

**MISSING**

Mammary Gland

**OBSERVATIONS**

Lung

Hemorrhage

Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 585

**TRT#:** 6

**SEX:** Male

**DAY ON TEST:** 101

**DOSE:** 0.0200% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033895

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Heart  
Intestine Small - Duodenum  
Kidney  
Lymph Node - Mesenteric  
Pituitary Gland  
Skin  
Testes  
Urinary Bladder

Adrenal Gland - Medulla  
Epididymis  
Intestine Large - Cecum  
Intestine Small - Ileum  
Liver  
Nose  
Prostate  
Spleen  
Thymus

Bone  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lung  
Pancreas  
Salivary Glands  
Stomach - Forestomach  
Thyroid Gland

Bone Marrow  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mandibular  
Parathyroid Gland  
Seminal Vesicle  
Stomach - Glandular  
Trachea

**MISSING**

Mammary Gland

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                  |                         |
|-----------------------|-------------------------------|----------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 586 | <b>TRT#:</b> 5                | <b>SEX:</b> Male                 | <b>DAY ON TEST:</b> 456 |
|                       | <b>DOSE:</b> 0.0200% CHLORAMI | <b>DISP:</b> Scheduled Sacrifice | <b>HISTO:</b> A86037751 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex     | Adrenal Gland - Medulla | Bone                      | Bone Marrow              |
| Brain                      | Epididymis              | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Liver                      | Lung                    | Lymph Node - Mandibular   | Lymph Node - Mesenteric  |
| Nose                       | Pancreas                | Parathyroid Gland         | Pituitary Gland          |
| Prostate                   | Salivary Glands         | Seminal Vesicle           | Skin                     |
| Spleen                     | Stomach - Forestomach   | Stomach - Glandular       | Testes                   |
| Thymus                     | Thyroid Gland           | Trachea                   | Urinary Bladder          |

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

|        |              |                |         |
|--------|--------------|----------------|---------|
| Kidney | Renal Tubule | Dilatation     | Minimal |
|        |              | Mineralization | Minimal |

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 587

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 458

**DOSE:** 0.0200% CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** A86037752

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex     | Adrenal Gland - Medulla | Bone                      | Bone Marrow              |
| Brain                      | Epididymis              | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Lung                     |
| Lymph Node - Mandibular    | Lymph Node - Mesenteric | Nose                      | Pancreas                 |
| Parathyroid Gland          | Pituitary Gland         | Prostate                  | Salivary Glands          |
| Seminal Vesicle            | Skin                    | Spleen                    | Stomach - Forestomach    |
| Stomach - Glandular        | Testes                  | Trachea                   | Urinary Bladder          |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                    |              |                           |                 |
|--------------------|--------------|---------------------------|-----------------|
| Islets, Pancreatic |              | Hyperplasia               | Moderate        |
| Kidney             |              | Mineralization            | Mild            |
|                    | Renal Tubule | Regeneration              | Mild            |
| Liver              | Hepatocyte   | Cytomegaly                | Mild            |
|                    | Hepatocyte   | Vacuolization Cytoplasmic | Mild            |
| Thymus             |              | Cyst                      |                 |
| Thyroid Gland      |              | Degeneration              | Cystic, Minimal |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 588

**TRT#:** 5

**SEX:** Male

**DAY ON TEST:** 457

**DOSE:** 0.0200% CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** A86037753

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    |
| Lymph Node - Mesenteric | Nose                      | Pancreas                 | Parathyroid Gland          |
| Pituitary Gland         | Prostate                  | Seminal Vesicle          | Skin                       |
| Stomach - Forestomach   | Stomach - Glandular       | Testes                   | Thymus                     |
| Thyroid Gland           | Trachea                   |                          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|   |              |                              |                   |
|---|--------------|------------------------------|-------------------|
| Brain   | Thalamus     | Mineralization               | Mild              |
| Kidney  | Renal Tubule | Dilatation                   | Mild              |
|   | Renal Tubule | Mineralization               | Minimal           |
|   |              | Regeneration                 | Minimal           |
| Note: DILATED TUBULES ARE NEAR THE JCT OF CORTEX AND MEDULLA. |              |                              |                   |
| Liver   | Hepatocyte   | Vacuolization Cytoplasmic    | Minimal           |
| Lung  |              | Alveolar/Bronchiolar Adenoma |                   |
| Salivary Glands   |              | Hyperplasia                  | Lymphoid, Minimal |
| Spleen  |              | Congestion                   | Mild              |
| Note: CONGESTION TGLs = 1-6                                   |              |                              |                   |
| Urinary Bladder   |              | Inflammation                 | Chronic, Minimal  |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                  |                         |
|-----------------------|-------------------------------|----------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 589 | <b>TRT#:</b> 5                | <b>SEX:</b> Male                 | <b>DAY ON TEST:</b> 456 |
|                       | <b>DOSE:</b> 0.0200% CHLORAMI | <b>DISP:</b> Scheduled Sacrifice | <b>HISTO:</b> A86037754 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Medulla | Bone                      | Bone Marrow              | Brain                      |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       |
| Lymph Node - Mandibular | Lymph Node - Mesenteric   | Nose                     | Pancreas                   |
| Parathyroid Gland       | Pituitary Gland           | Prostate                 | Salivary Glands            |
| Seminal Vesicle         | Skin                      | Spleen                   | Stomach - Forestomach      |
| Stomach - Glandular     | Testes                    | Thymus                   | Thyroid Gland              |
| Trachea                 | Urinary Bladder           |                          |                            |

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

|               |              |                           |                         |
|---------------|--------------|---------------------------|-------------------------|
| Adrenal Gland | Cortex       | Hyperplasia               | Focal, Minimal          |
| Kidney        | Renal Tubule | Dilatation                | Mild                    |
|               |              | Mineralization            | Moderate                |
|               | Renal Tubule | Regeneration              | Mild                    |
| Liver         | Hepatocyte   | Cytomegaly                | Moderate                |
|               |              | Hyperplasia               | Focal, Moderate         |
|               |              | Inflammation              | Chronic Active, Minimal |
|               | Hepatocyte   | Karyomegaly               | Mild                    |
|               | Hepatocyte   | Vacuolization Cytoplasmic | Moderate                |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                  |                         |
|-----------------------|-------------------------------|----------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 590 | <b>TRT#:</b> 5                | <b>SEX:</b> Male                 | <b>DAY ON TEST:</b> 458 |
|                       | <b>DOSE:</b> 0.0200% CHLORAMI | <b>DISP:</b> Scheduled Sacrifice | <b>HISTO:</b> A86037755 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex     | Adrenal Gland - Medulla | Bone                      | Bone Marrow              |
| Brain                      | Epididymis              | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   | Nose                     |
| Pancreas                   | Parathyroid Gland       | Pituitary Gland           | Prostate                 |
| Salivary Glands            | Seminal Vesicle         | Skin                      | Spleen                   |
| Stomach - Forestomach      | Stomach - Glandular     | Testes                    | Thyroid Gland            |
| Trachea                    | Urinary Bladder         |                           |                          |

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

|                                  |              |                           |         |
|----------------------------------|--------------|---------------------------|---------|
| Kidney                           | Renal Tubule | Dilatation                | Minimal |
|                                  |              | Mineralization            | Mild    |
|                                  | Renal Tubule | Regeneration              | Minimal |
| Liver                            |              | Hepatocellular Adenoma    |         |
|                                  | Hepatocyte   | Vacuolization Cytoplasmic | Mild    |
| Note: HEPATOCLR ADEN TGLs = 1-21 |              |                           |         |
| Thymus                           |              | Cyst                      |         |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 591

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 738

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042475

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Medulla | Bone                      | Bone Marrow              | Brain                      |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lymph Node - Mandibular  | Nose                       |
| Pancreas                | Parathyroid Gland         | Pituitary Gland          | Prostate                   |
| Salivary Glands         | Seminal Vesicle           | Skin                     | Spleen                     |
| Stomach - Forestomach   | Testes                    | Thymus                   | Thyroid Gland              |
| Trachea                 | Urinary Bladder           |                          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|  |              |                              |                    |
|--|--------------|------------------------------|--------------------|
| Adrenal Gland  | Cortex       | Hyperplasia                  | Focal, Minimal     |
| Islets, Pancreatic   |              | Hyperplasia                  | Mild               |
| Kidney   |              | Mineralization               | Moderate           |
|  | Renal Tubule | Regeneration                 | Mild               |
| Liver  |              | Hepatocellular Adenoma       |                    |
|  |              | Mixed Cell Focus             |                    |
| Note: HEPATOCLR ADEN TGLs = 1-21<br>Note: MIXED CL FOCUS TGLs = 2-22 |              |                              |                    |
| Lung   |              | Alveolar/Bronchiolar Adenoma |                    |
| Lymph Node   | Mesenteric   | Hyperplasia                  | Lymphoid, Moderate |
| Stomach  | Glandular    | Cyst                         |                    |
|  | Glandular    | Mineralization               | Mild               |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-02  
Test Type: CHRONIC  
Route: DOSED WATER  
Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Test Compound: Chloraminated water  
CAS Number: CHLORAMINEMX

Date Report Requested: 10/20/2014  
Time Report Requested: 00:10:12  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 592      TRT#: 9      SEX: Male      DAY ON TEST: 738  
DOSE: 0.0100% CHLORAMI      DISP: Terminal Sacrifice      HISTO: A87042476

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Nose                      | Parathyroid Gland        | Pituitary Gland            | Prostate                |
| Salivary Glands           | Seminal Vesicle          | Skin                       | Spleen                  |
| Stomach - Forestomach     | Stomach - Glandular      | Testes                     | Thymus                  |
| Trachea                   | Urinary Bladder          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|   |                |                                   |                   |
|---|----------------|-----------------------------------|-------------------|
| Adrenal Gland                               | Cortex         | Accessory Adrenal Cortical Nodule |                   |
| Brain                                       | Thalamus       | Mineralization                    | Mild              |
| Kidney                                      |                | Casts Protein                     | Mild              |
|   |                | Hyperplasia                       | Lymphoid, Minimal |
|   |                | Mineralization                    | Minimal           |
|   | Renal Tubule   | Regeneration                      | Moderate          |
| Liver                                       |                | Hepatocellular Adenoma            | Multiple, Three   |
|   |                | Mixed Cell Focus                  |                   |
| Note: MIXED CL FOCUS    TGLs = 1-21         |                |                                   |                   |
| Note: [ HEPATOCLR ADEN ]    TGLs = 22,23,24 |                |                                   |                   |
| Lung  |                | Alveolar/Bronchiolar Adenoma      |                   |
|   |                | Infiltration Cellular             | Histiocyte, Mild  |
| Note: ALV BRON ADEN    TGLs = 5-2-1         |                |                                   |                   |
| Pancreas                                    |                | Hyperplasia                       | Lymphoid, Minimal |
| Thyroid Gland                               | Follicle       | Cyst                              |                   |
|   | Follicular Cel | Hyperplasia                       | Mild              |

PRIMARY CAUSE OF DEATH

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Animal Note: TGL 6 IS A MUCUS/SPERM AGGREGATE

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 593

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 0.0100% CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042477

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Nose                      | Pancreas                 | Parathyroid Gland          | Prostate                |
| Salivary Glands           | Seminal Vesicle          | Skin                       | Spleen                  |
| Stomach - Glandular       | Testes                   | Thymus                     | Thyroid Gland           |
| Trachea                   | Urinary Bladder          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                      |                     |                                   |                   |
|----------------------|---------------------|-----------------------------------|-------------------|
| Adrenal Gland        | Cortex              | Accessory Adrenal Cortical Nodule |                   |
|                      | Cortex              | Hyperplasia                       | Focal, Minimal    |
| Brain                | Thalamus            | Mineralization                    | Minimal           |
| Islets, Pancreatic   |                     | Hyperplasia                       | Minimal           |
| Kidney               |                     | Casts Protein                     | Mild              |
|                      |                     | Hyperplasia                       | Lymphoid, Minimal |
|                      |                     | Mineralization                    | Minimal           |
|                      | Renal Tubule        | Regeneration                      | Moderate          |
| Liver                |                     | Clear Cell Focus                  |                   |
|                      |                     | Hepatocellular Adenoma            |                   |
|                      |                     | Hepatocellular Carcinoma          |                   |
|                      |                     | Hyperplasia                       | Focal, Moderate   |
| Note: HEPATOCLR CARC | TGLs = 1-21         |                                   |                   |
| Note: CLEAR CL FOCUS | TGLs = 3-23         |                                   |                   |
| Note: HEPATOCLR ADEN | TGLs = 2-22         |                                   |                   |
| Pituitary Gland      | Pars Distalis       | Cyst                              |                   |
| Stomach              | Forestomach, Mucosa | Hyperplasia                       | Mild              |
|                      | Forestomach         | Inflammation                      | Suppurative, Mild |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 593

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 0.0100% CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042477

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 594

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 738

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042478

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Nose                    |
| Pancreas                  | Parathyroid Gland        | Pituitary Gland            | Prostate                |
| Salivary Glands           | Seminal Vesicle          | Skin                       | Spleen                  |
| Stomach - Forestomach     | Stomach - Glandular      | Testes                     | Thymus                  |
| Thyroid Gland             | Trachea                  | Urinary Bladder            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|   |              |                        |                   |
|---|--------------|------------------------|-------------------|
| Adrenal Gland   | Cortex       | Hyperplasia            | Focal, Mild       |
| Brain   | Thalamus     | Mineralization         | Minimal           |
| Islets, Pancreatic  |              | Hyperplasia            | Minimal           |
| Kidney  |              | Cyst                   |                   |
|   |              | Mineralization         | Moderate          |
|   | Renal Tubule | Regeneration           | Mild              |
| Liver   |              | Clear Cell Focus       |                   |
|   |              | Hepatocellular Adenoma |                   |
|   |              | Hyperplasia            | Focal, Mild       |
|   | Lobules      | Necrosis               | Minimal           |
| Note: HYPERPLASIA FOCAL ALSO ON SLIDE 23<br>Note: CLEAR CL FOCUS TGLs = 4-33<br>Note: HYPERPLASIA TGLs = 3-22<br>Note: HEPATOCLR ADEN TGLs = 2-21 |              |                        |                   |
| Lung  |              | Hyperplasia            | Lymphoid, Minimal |

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 595

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 738

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042479

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Skin                     | Stomach - Forestomach      | Stomach - Glandular     |
| Testes                    | Thymus                   | Thyroid Gland              | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|  |                 |                              |                   |
|--|-----------------|------------------------------|-------------------|
| Adrenal Gland  | Capsule, Cortex | Hyperplasia                  | Mild              |
|  | Cortex          | Hyperplasia                  | Focal, Minimal    |
| Brain  | Thalamus        | Mineralization               | Mild              |
| Kidney   |                 | Cyst                         |                   |
|  |                 | Mineralization               | Mild              |
|  | Renal Tubule    | Regeneration                 | Mild              |
| Liver  |                 | Clear Cell Focus             |                   |
|  |                 | Hepatocellular Adenoma       |                   |
|  |                 | Hyperplasia                  | Focal, Moderate   |
| Note: CLEAR CL FOCUS TGLs = 4-21<br>Note: HEPATOCLR ADEN TGLs = 3-6<br>Note: HYPERPLASIA FOCAL ON SLIDE 21 |                 |                              |                   |
| Lung   |                 | Alveolar/Bronchiolar Adenoma |                   |
| Salivary Glands  |                 | Hyperplasia                  | Lymphoid, Minimal |
| Seminal Vesicle  |                 | Dilatation                   | Mild              |
| Note: DILATATION TGLs = 1-7  |                 |                              |                   |
| Spleen   | Lymph Follic    | Hyperplasia                  | Mild              |
| Note: HYPERPLASIA TGLs = 2-6   |                 |                              |                   |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 595

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 738

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042479

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 596

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 738

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042480

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                         |                          |                            |
|---------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Medulla   | Bone                    | Bone Marrow              | Brain                      |
| Epididymis                | Esophagus               | Gallbladder              | Heart                      |
| Intestine Large - Cecum   | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Jejunum | Islets, Pancreatic      | Lung                     | Lymph Node - Mandibular    |
| Lymph Node - Mesenteric   | Nose                    | Parathyroid Gland        | Pituitary Gland            |
| Prostate                  | Seminal Vesicle         | Skin                     | Spleen                     |
| Stomach - Forestomach     | Stomach - Glandular     | Trachea                  |                            |

**MISSING**

|                         |               |        |
|-------------------------|---------------|--------|
| Intestine Small - Ileum | Mammary Gland | Thymus |
|-------------------------|---------------|--------|

**OBSERVATIONS**

|                                  |                 |                                   |                   |
|----------------------------------|-----------------|-----------------------------------|-------------------|
| Adrenal Gland                    | Cortex          | Accessory Adrenal Cortical Nodule |                   |
|                                  | Cortex          | Clear Cell Focus                  |                   |
|                                  | Cortex          | Developmental Malformation        |                   |
|                                  | Capsule, Cortex | Hyperplasia                       | Mild              |
| Kidney                           |                 | Cyst                              |                   |
|                                  | Renal Tubule    | Dilatation                        | Mild              |
|                                  |                 | Hyperplasia                       | Lymphoid, Mild    |
|                                  |                 | Mineralization                    | Mild              |
|                                  | Renal Tubule    | Regeneration                      | Mild              |
| Liver                            |                 | Hepatocellular Adenoma            |                   |
|                                  | Lobules         | Necrosis                          | Minimal           |
| Note: HEPATOCLR ADEN TGLs = 2-22 |                 |                                   |                   |
| Pancreas                         |                 | Atrophy                           | Mild              |
|                                  |                 | Cyst                              |                   |
| Note: ATROPHY ON SLIDE 21        |                 |                                   |                   |
| Note: CYST TGLs = 1-21           |                 |                                   |                   |
| Salivary Glands                  |                 | Hyperplasia                       | Lymphoid, Minimal |
| Testes                           | Interstit Cell  | Adenoma                           |                   |
| Thyroid Gland                    | Follicle        | Cyst                              |                   |
|                                  | Follicular Cel  | Hyperplasia                       | Moderate          |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 596

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 738

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042480

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Urinary Bladder

Hyperplasia

Lymphoid, Moderate

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 597

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 638

**DOSE:** 0.0100% CHLORAMI

**DISP:** Natural Death

**HISTO:** A87042481

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex   | Adrenal Gland - Medulla    | Bone                    | Epididymis                |
| Esophagus                | Gallbladder                | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Nose                    | Pancreas                  |
| Parathyroid Gland        | Pituitary Gland            | Prostate                | Salivary Glands           |
| Skin                     | Stomach - Forestomach      | Stomach - Glandular     | Testes                    |
| Thymus                   | Thyroid Gland              | Trachea                 | Urinary Bladder           |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|   |               |                                  |                    |
|---|---------------|----------------------------------|--------------------|
| Bone Marrow   |               | Hypercellularity                 |                    |
| Brain   | Thalamus      | Mineralization                   | Minimal            |
| Heart   |               | Alveolar/Bronchiolar Carcinoma   | Metastatic (Lung)  |
| Islets, Pancreatic  |               | Hyperplasia                      | Mild               |
| Kidney  |               | Mineralization                   | Mild               |
| Liver   |               | Hematopoietic Cell Proliferation | Mild               |
|   |               | Hepatocellular Adenoma           |                    |
|   |               | Hyperplasia                      | Focal, Mild        |
|   | Centrilobular | Necrosis                         | Mild               |
| Note: HYPERPLASIA TGLs = 9-25<br>[ Hematopoietic Cell Proliferation TGLS = 3-21 ] |               |                                  |                    |
| Lung  |               | Alveolar/Bronchiolar Carcinoma   |                    |
|   |               | Infiltration Cellular            | Histiocyte, Marked |
| Note: ALV BRON CARC TGLs = 5-2,7-23   |               |                                  |                    |
| Lymph Node  | Mediastinal   | Alveolar/Bronchiolar Carcinoma   | Metastatic (Lung)  |
| Note: ALV BRON CARC TGLs = 6-2  |               |                                  |                    |
| Seminal Vesicle   |               | Dilatation                       | Moderate           |
| Note: DILATATION TGLs = 1-7   |               |                                  |                    |
| Spleen  |               | Hematopoietic Cell Proliferation | Moderate           |

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 597

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 638

**DOSE:** 0.0100% CHLORAMI

**DISP:** Natural Death

**HISTO:** A87042481

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 598

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042482

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                         |
|--------------------------|----------------------------|-------------------------|-------------------------|
| Adrenal Gland - Cortex   | Bone                       | Bone Marrow             | Epididymis              |
| Esophagus                | Gallbladder                | Heart                   | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Islets, Pancreatic      |
| Liver                    | Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric |
| Nose                     | Pancreas                   | Prostate                | Seminal Vesicle         |
| Skin                     | Stomach - Forestomach      | Stomach - Glandular     | Testes                  |
| Thymus                   | Thyroid Gland              | Trachea                 | Urinary Bladder         |

**MISSING**

|                         |               |                   |
|-------------------------|---------------|-------------------|
| Intestine Large - Cecum | Mammary Gland | Parathyroid Gland |
|-------------------------|---------------|-------------------|

**OBSERVATIONS**

|                                 |               |                                  |                   |
|---------------------------------|---------------|----------------------------------|-------------------|
| Adrenal Gland                   | Medulla       | Hyperplasia                      | Mild              |
| Brain                           | Thalamus      | Mineralization                   | Mild              |
| Intestine Small                 | Jejunum       | Carcinoma                        |                   |
| Note: CARCINOMA TGLs = 2-21     |               |                                  |                   |
| Kidney                          |               | Cyst                             |                   |
|                                 |               | Hyperplasia                      | Lymphoid, Minimal |
|                                 |               | Mineralization                   | Mild              |
|                                 | Renal Tubule  | Regeneration                     | Minimal           |
| Pituitary Gland                 | Pars Distalis | Hyperplasia                      | Minimal           |
| Salivary Glands                 |               | Hyperplasia                      | Lymphoid, Minimal |
| Spleen                          |               | Hematopoietic Cell Proliferation | Moderate          |
| Note: HEMA CELL PROL TGLs = 1-6 |               |                                  |                   |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 599 | <b>TRT#:</b> 9                | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 736 |
|                       | <b>DOSE:</b> 0.0100% CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042483 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Epididymis                |
| Esophagus                | Gallbladder                | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Lung                     | Lymph Node - Mandibular    | Lymph Node - Mesenteric | Nose                      |
| Pancreas                 | Parathyroid Gland          | Pituitary Gland         | Prostate                  |
| Salivary Glands          | Skin                       | Spleen                  | Stomach - Forestomach     |
| Stomach - Glandular      | Testes                     | Thymus                  | Thyroid Gland             |
| Trachea                  | Urinary Bladder            |                         |                           |

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

|                    |              |                        |                  |
|--------------------|--------------|------------------------|------------------|
| Adrenal Gland      | Cortex       | Hyperplasia            | Focal, Mild      |
| Brain              | Thalamus     | Mineralization         | Mild             |
| Heart              | Epicardium   | Inflammation           | Chronic, Minimal |
| Islets, Pancreatic |              | Hyperplasia            | Mild             |
| Kidney             |              | Hyperplasia            | Lymphoid, Mild   |
|                    |              | Mineralization         | Moderate         |
|                    | Renal Tubule | Regeneration           | Moderate         |
| Liver              |              | Clear Cell Focus       |                  |
|                    |              | Hemangiosarcoma        |                  |
|                    |              | Hepatocellular Adenoma | Multiple, Two    |
|                    |              | Mixed Cell Focus       |                  |

Note: HEPATOCLR ADEN TGLs = 2-21,4-23

Note: MIXED CL FOCUS TGLs = 3-22

Note: HEPATOCELLULAR ADENOMA ON SLIDE 21 CONTAINS NUMEROUS

Note: OVAL CELLS

Seminal Vesicle

Note: DILATATION TGLs = 1-7

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 599

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042483

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: INFUSION ARTIFACT IN URINARY BLADDER

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 600

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042484

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Nose                       | Pancreas                |
| Parathyroid Gland         | Prostate                 | Salivary Glands            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Stomach - Glandular        | Testes                  |
| Trachea                   | Urinary Bladder          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                      |                            |                              |                      |
|----------------------|----------------------------|------------------------------|----------------------|
| Adrenal Gland        | Cortex                     | Hyperplasia                  | Focal, Minimal       |
| Brain                | Thalamus                   | Mineralization               | Mild                 |
| Islets, Pancreatic   |                            | Hyperplasia                  | Mild                 |
| Kidney               | Renal Tubule               | Atrophy                      | Minimal              |
|                      |                            | Casts Protein                | Minimal              |
|                      |                            | Hyperplasia                  | Lymphoid, Minimal    |
|                      | Renal Tubule               | Mineralization               | Mild                 |
|                      |                            | Regeneration                 | Mild                 |
| Liver                |                            | Hepatocellular Adenoma       | Four, Multiple       |
| Note: HEPATOCLR ADEN | TGLs = 6-23,7-24,8-25,9-26 |                              |                      |
| Lung                 |                            | Alveolar/Bronchiolar Adenoma | Multiple, Two        |
|                      |                            | Infiltration Cellular        | Histiocyte, Moderate |
| Note: ALV BRON ADEN  | TGLs = 11-2-1,12-2-1       |                              |                      |
| Lymph Node           | Mesenteric                 | Hemorrhage                   | Mild                 |
| Note: HEMORRHAGE     | TGLs = 10-5                |                              |                      |
| Mesentery            | Fat                        | Necrosis                     | Moderate             |
| Note: NECROSIS       | TGLs = 4-21                |                              |                      |
| Pituitary Gland      | Pars Distalis              | Cyst                         |                      |
| Seminal Vesicle      |                            | Dilatation                   | Moderate             |
| Note: DILATATION     | TGLs = 2-7                 |                              |                      |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 600 | <b>TRT#:</b> 9                | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 736 |
|                       | <b>DOSE:</b> 0.0100% CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042484 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|               |                |              |                 |
|---------------|----------------|--------------|-----------------|
| Thymus        |                | Cyst         |                 |
| Thyroid Gland |                | Degeneration | Cystic, Minimal |
|               | Follicular Cel | Hyperplasia  | Minimal         |
| Tooth         |                | Dysplasia    | Moderate        |

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|                               |   |
|-------------------------------|---|
| <b>PRIMARY CAUSE OF DEATH</b> | - |
|-------------------------------|---|

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 601

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 691

**DOSE:** 0.0100% CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042485

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lymph Node - Mandibular  | Lymph Node - Mesenteric    |
| Nose                    | Parathyroid Gland         | Pituitary Gland          | Prostate                   |
| Seminal Vesicle         | Skin                      | Stomach - Forestomach    | Stomach - Glandular        |
| Testes                  | Thymus                    | Thyroid Gland            | Trachea                    |
| Urinary Bladder         |                           |                          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|   |              |                                  |                   |
|---|--------------|----------------------------------|-------------------|
| Brain   | Thalamus     | Mineralization                   | Minimal           |
| Islets, Pancreatic  |              | Hyperplasia                      | Minimal           |
| Kidney  | Renal Tubule | Atrophy                          | Mild              |
|   |              | Casts Protein                    | Minimal           |
|   |              | Mineralization                   | Minimal           |
|   | Renal Tubule | Regeneration                     | Minimal           |
| Liver   |              | Hepatocellular Carcinoma         |                   |
|   |              | Hyperplasia                      | Focal, Mild       |
| Note: HEPATOCLR CARC TGLs = 1-21,1-6<br>Note: HYPERPLASIA TGLs = 3-22 |              |                                  |                   |
| Lung  |              | Alveolar/Bronchiolar Adenoma     |                   |
| Note: ALV BRON ADEN TGLs = 2-2  |              |                                  |                   |
| Pancreas  |              | Atrophy                          | Mild              |
| Salivary Glands   |              | Hyperplasia                      | Lymphoid, Minimal |
| Spleen  |              | Hematopoietic Cell Proliferation | Minimal           |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 603

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A78042487

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lymph Node - Mandibular  | Nose                       |
| Parathyroid Gland       | Prostate                  | Seminal Vesicle          | Skin                       |
| Stomach - Forestomach   | Testes                    | Thymus                   | Thyroid Gland              |
| Trachea                 | Urinary Bladder           |                          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                    |                |                                  |                    |
|------------------------------------|----------------|----------------------------------|--------------------|
| Brain                              | Thalamus       | Mineralization                   | Minimal            |
| Islets, Pancreatic                 |                | Hyperplasia                      | Mild               |
| Kidney                             |                | Cyst                             |                    |
|                                    | Renal Tubule   | Regeneration                     | Minimal            |
| Liver                              |                | Hepatocellular Adenoma           |                    |
| Note: [ HEPATOCLR ADEN ] TGLs = 21 |                |                                  |                    |
| Lung                               |                | Alveolar/Bronchiolar Adenoma     |                    |
|                                    | Alveolar Epith | Hyperplasia                      | Focal, Moderate    |
| Note: [ HYPERPLASIA ] TGLs = 2.1   |                |                                  |                    |
| Note: [ ALV BRON ADEN ] TGLs = 2.2 |                |                                  |                    |
| Lymph Node                         | Mesenteric     | Hemorrhage                       | Mild               |
|                                    | Mesenteric     | Hyperplasia                      | Lymphoid, Mild     |
| Pancreas                           |                | Atrophy                          | Minimal            |
| Pituitary Gland                    | Pars Distalis  | Cyst                             |                    |
| Salivary Glands                    |                | Hyperplasia                      | Lymphoid, Minimal  |
| Spleen                             |                | Hematopoietic Cell Proliferation | Minimal            |
| Note: HEMA CELL PROL TGLs = 1-6    |                |                                  |                    |
| Stomach                            | Glandular      | Cyst                             |                    |
|                                    | Glandular      | Inflammation                     | Subacute, Moderate |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 603

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A78042487

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 604

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042488

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                          |                            |                           |
|-------------------------|--------------------------|----------------------------|---------------------------|
| Adrenal Gland - Medulla | Bone                     | Bone Marrow                | Epididymis                |
| Esophagus               | Gallbladder              | Heart                      | Intestine Large - Cecum   |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Jejunum |
| Lung                    | Lymph Node - Mandibular  | Pancreas                   | Parathyroid Gland         |
| Pituitary Gland         | Prostate                 | Spleen                     | Stomach - Forestomach     |
| Stomach - Glandular     | Testes                   | Thymus                     | Thyroid Gland             |
| Trachea                 | Urinary Bladder          |                            |                           |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|   |              |                          |                   |
|---|--------------|--------------------------|-------------------|
| Adrenal Gland                                   | Cortex       | Hyperplasia              | Focal, Mild       |
| Brain   | Thalamus     | Mineralization           | Mild              |
| Coagulating Gland                               |              | Dilatation               | Moderate          |
| Note: DILATATION TGLs = 2-7                     |              |                          |                   |
| Intestine Small                                 | Ileum        | Lymphoma Malignant Mixed |                   |
| Note: LYMPH MAL MIXD TGLs = 4-21                |              |                          |                   |
| Islets, Pancreatic                              |              | Hyperplasia              | Minimal           |
| Kidney  | Renal Tubule | Cyst                     |                   |
|   |              | Dilatation               | Minimal           |
|   | Renal Tubule | Mineralization           | Minimal           |
|   |              | Regeneration             | Minimal           |
| Liver   |              | Hepatocellular Adenoma   | Five, Multiple    |
|   |              | Hyperplasia              | Focal, Mild       |
| Note: HEPATOCLR ADEN TGLs = 5-23,6-22,7-24,8-25 |              |                          |                   |
| Note: HEPATOCELLULAR ADENOMA ALSO ON SLIDE 6    |              |                          |                   |
| Lymph Node                                      | Mesenteric   | Hemorrhage               | Mild              |
|   | Mesenteric   | Hyperplasia              | Lymphoid, Mild    |
| [ Hemorrhage TGLS = 3-5 ]                       |              |                          |                   |
| Nose  | Glands       | Hyperplasia              | Cystic, Minimal   |
| Salivary Glands                                 |              | Hyperplasia              | Lymphoid, Minimal |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 604 | <b>TRT#:</b> 9                | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 733 |
|                       | <b>DOSE:</b> 0.0100% CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042488 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|   |             |            |      |
|---|-------------|------------|------|
| Seminal Vesicle<br>Note: DILATATION      TGLs = 1-7 |             | Dilatation | Mild |
| Skin<br>Note: LIPOMA      TGLs = 9-26               | Subcut Tiss | Lipoma     |      |
| Tooth   |             | Dysplasia  | Mild |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 605 | <b>TRT#:</b> 9                | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 733 |
|                       | <b>DOSE:</b> 0.0100% CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042489 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Medulla | Bone                      | Bone Marrow              | Brain                      |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      |
| Lung                    | Lymph Node - Mandibular   | Lymph Node - Mesenteric  | Nose                       |
| Pancreas                | Parathyroid Gland         | Pituitary Gland          | Prostate                   |
| Seminal Vesicle         | Skin                      | Spleen                   | Stomach - Forestomach      |
| Stomach - Glandular     | Testes                    | Thymus                   | Thyroid Gland              |
| Trachea                 | Urinary Bladder           |                          |                            |

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

|                 |                 |                |                   |
|-----------------|-----------------|----------------|-------------------|
| Adrenal Gland   | Capsule, Cortex | Adenoma        |                   |
|                 | Cortex          | Hyperplasia    | Focal, Mild       |
| Kidney          |                 | Mineralization | Minimal           |
|                 | Renal Tubule    | Regeneration   | Minimal           |
| Preputial Gland |                 | Ectasia        | Marked            |
| Note: ECTASIA   | TGLs = 1-8      |                |                   |
| Salivary Glands |                 | Hyperplasia    | Lymphoid, Minimal |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 606

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042490

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Nose                       | Pancreas                |
| Parathyroid Gland         | Pituitary Gland          | Prostate                   | Salivary Glands         |
| Skin                      | Spleen                   | Stomach - Forestomach      | Stomach - Glandular     |
| Testes                    | Thymus                   | Thyroid Gland              | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                    |              |                        |                   |
|--------------------|--------------|------------------------|-------------------|
| Adrenal Gland      | Cortex       | Hyperplasia            | Focal, Moderate   |
| Brain              | Thalamus     | Mineralization         | Mild              |
| Islets, Pancreatic |              | Hyperplasia            | Minimal           |
| Kidney             | Renal Tubule | Atrophy                | Minimal           |
|                    | Renal Tubule | Dilatation             | Minimal           |
|                    |              | Hyperplasia            | Lymphoid, Minimal |
|                    |              | Mineralization         | Moderate          |
|                    | Renal Tubule | Regeneration           | Mild              |
| Liver              |              | Clear Cell Focus       |                   |
|                    |              | Hepatocellular Adenoma | > Five, Multiple  |
|                    |              | Hyperplasia            | Focal, Moderate   |

Note: MULTIPLE ADENOMAS ON SLIDE 25;ADENOMAS ON SLIDE 6;FOCAL

Note: HYPERPLASIA ON SLIDES 6 AND 25

Note: HEPATOCLR ADEN TGLs = 2-21,5-24,7-25

Note: HYPERPLASIA TGLs = 4-23

Note: CLEAR CL FOCUS TGLs = 7-25

|      |  |                                |                      |
|------|--|--------------------------------|----------------------|
| Lung |  | Alveolar/Bronchiolar Adenoma   |                      |
|      |  | Alveolar/Bronchiolar Carcinoma |                      |
|      |  | Infiltration Cellular          | Histiocyte, Moderate |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 606 | <b>TRT#:</b> 9                | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 733 |
|                       | <b>DOSE:</b> 0.0100% CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042490 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                                  |            |            |          |
|----------------------------------|------------|------------|----------|
| Note: ALV BRON CARC TGLs = 6-2-1 |            |            |          |
| Lymph Node                       | Mesenteric | Hemorrhage | Mild     |
| Seminal Vesicle                  |            | Dilatation | Marked   |
| Note: DILATATION TGLs = 1-7      |            |            |          |
| Tooth                            |            | Dysplasia  | Moderate |

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 607

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 691

**DOSE:** 0.0100% CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042491

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                         |                          |                            |
|-------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus               | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Lung                    | Lymph Node - Mandibular  | Nose                       |
| Pancreas                | Parathyroid Gland       | Pituitary Gland          | Prostate                   |
| Salivary Glands         | Seminal Vesicle         | Skin                     | Stomach - Forestomach      |
| Stomach - Glandular     | Testes                  | Thymus                   | Thyroid Gland              |
| Trachea                 | Urinary Bladder         |                          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|  |              |                                  |                   |
|--|--------------|----------------------------------|-------------------|
| Brain                                    | Thalamus     | Mineralization                   | Mild              |
| Intestine Small                          | Jejunum      | Carcinoma                        |                   |
| Note: CARCINOMA TGLs = 6-25              |              |                                  |                   |
| Islets, Pancreatic                       |              | Hyperplasia                      | Mild              |
| Kidney                                   |              | Casts Protein                    | Minimal           |
|  |              | Cyst                             |                   |
|  |              | Hyperplasia                      | Lymphoid, Minimal |
|  | Renal Tubule | Regeneration                     | Minimal           |
| Liver                                    |              | Hepatocellular Adenoma           | Multiple, Three   |
|  |              | Hepatocellular Carcinoma         |                   |
| Note: HEPATOCLR CARC TGLs = 2-21         |              |                                  |                   |
| Note: HEPATOCLR ADEN TGLs = 3-22,4-23    |              |                                  |                   |
| Note: THERE ARE TWO ADENOMAS ON SLIDE 22 |              |                                  |                   |
| Lymph Node                               | Mesenteric   | Lymphoma Malignant Mixed         |                   |
| Note: LYMPH MAL MIXD TGLs = 5-24         |              |                                  |                   |
| Spleen                                   |              | Hematopoietic Cell Proliferation | Moderate          |
|  |              | Lymphoma Malignant Mixed         |                   |
| Note: HEMA CELL PROL TGLs = 1-6          |              |                                  |                   |
| Note: LYMPH MAL MIXD TGLs = 1-6          |              |                                  |                   |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 607

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 691

**DOSE:** 0.0100% CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042491

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 608

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 565

**DOSE:** 0.0100% CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042492

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Bone                       | Bone Marrow             | Epididymis                | Esophagus                |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   | Nose                     |
| Pancreas                   | Parathyroid Gland       | Pituitary Gland           | Prostate                 |
| Salivary Glands            | Seminal Vesicle         | Skin                      | Spleen                   |
| Stomach - Forestomach      | Testes                  | Thyroid Gland             | Trachea                  |
| Urinary Bladder            |                         |                           |                          |

**MISSING**

|             |               |        |
|-------------|---------------|--------|
| Gallbladder | Mammary Gland | Thymus |
|-------------|---------------|--------|

**OBSERVATIONS**

|                                    |              |                          |                    |
|------------------------------------|--------------|--------------------------|--------------------|
| Adrenal Gland                      | Cortex       | Atrophy                  | Marked             |
|                                    | Medulla      | Atrophy                  | Marked             |
|                                    | Cortex       | Hyperplasia              | Focal, Minimal     |
| Brain                              | Thalamus     | Mineralization           | Minimal            |
| Kidney                             | Renal Tubule | Atrophy                  | Marked             |
|                                    |              | Casts Protein            | Moderate           |
|                                    |              | Cyst                     |                    |
|                                    |              | Hyperplasia              | Lymphoid, Moderate |
|                                    |              | Mineralization           | Marked             |
|                                    | Renal Tubule | Necrosis                 | Marked             |
| Note: ATROPHY                      | TGLs = 1-21  |                          |                    |
| Liver                              |              | Hepatocellular Carcinoma |                    |
| Note: HEPATOCLR CARC               | TGLs = 2-22  |                          |                    |
| Note: PART OF CARCINOMA ON SLIDE 6 |              |                          |                    |
| Stomach                            | Glandular    | Cyst                     |                    |
|                                    | Glandular    | Mineralization           | Minimal            |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 609

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 562

**DOSE:** 0.0100% CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042493

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Seminal Vesicle          | Skin                       | Stomach - Forestomach   |
| Stomach - Glandular       | Testes                   | Thymus                     | Thyroid Gland           |
| Trachea                   | Urinary Bladder          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                  |              |                                  |                      |
|----------------------------------|--------------|----------------------------------|----------------------|
| Adrenal Gland                    | Cortex       | Clear Cell Focus                 |                      |
| Brain                            | Thalamus     | Mineralization                   | Minimal              |
| Kidney                           |              | Casts Protein                    | Moderate             |
|                                  |              | Hyperplasia                      | Lymphoid, Mild       |
|                                  | Renal Tubule | Regeneration                     | Moderate             |
| Liver                            |              | Hepatocellular Carcinoma         |                      |
| Note: HEPATOCLR CARC TGLs = 2-22 |              |                                  |                      |
| Lung                             |              | Alveolar/Bronchiolar Carcinoma   |                      |
|                                  |              | Hemorrhage                       | Minimal              |
|                                  |              | Infiltration Cellular            | Histiocyte, Moderate |
| Note: [ ALV BRON CARC ] TGLs = 2 |              |                                  |                      |
| Mesentery                        |              | Hemorrhage                       | Marked               |
| Note: HEMORRHAGE TGLs = 1-21     |              |                                  |                      |
| Salivary Glands                  |              | Hyperplasia                      | Lymphoid, Minimal    |
| Spleen                           |              | Hematopoietic Cell Proliferation | Minimal              |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 610

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042494

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Skin                     | Spleen                     | Stomach - Forestomach   |
| Stomach - Glandular       | Testes                   | Thymus                     | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                    |              |                                   |                   |
|------------------------------------|--------------|-----------------------------------|-------------------|
| Adrenal Gland                      | Cortex       | Accessory Adrenal Cortical Nodule |                   |
|                                    | Cortex       | Hyperplasia                       | Focal, Mild       |
| Brain                              | Thalamus     | Mineralization                    | Minimal           |
| Coagulating Gland                  |              | Dilatation                        | Marked            |
| Note: DILATATION TGLs = 6-7        |              |                                   |                   |
| Kidney                             |              | Casts Protein                     | Minimal           |
|                                    |              | Cyst                              |                   |
|                                    |              | Mineralization                    | Moderate          |
|                                    | Renal Tubule | Regeneration                      | Moderate          |
| Liver                              |              | Hepatocellular Adenoma            |                   |
| Note: ONE GROSS LESION DESCRIBED   |              |                                   |                   |
| Note: [ HEPATOCLR ADEN ] TGLs = 21 |              |                                   |                   |
| Lung                               |              | Alveolar/Bronchiolar Carcinoma    |                   |
| Note: ALV BRON CARC TGLs = 5-2     |              |                                   |                   |
| Salivary Glands                    |              | Hyperplasia                       | Lymphoid, Minimal |
| Seminal Vesicle                    |              | Dilatation                        | Marked            |
| Note: DILATATION TGLs = 1-7        |              |                                   |                   |
| Thyroid Gland                      |              | Degeneration                      | Cystic, Minimal   |

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 610

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042494

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 611

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042495

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Nose                      | Pancreas                 | Pituitary Gland            | Prostate                |
| Salivary Glands           | Skin                     | Spleen                     | Stomach - Forestomach   |
| Stomach - Glandular       | Testes                   | Thymus                     | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**MISSING**

|               |                   |
|---------------|-------------------|
| Mammary Gland | Parathyroid Gland |
|---------------|-------------------|

**OBSERVATIONS**

|                                  |                |                                  |                |
|----------------------------------|----------------|----------------------------------|----------------|
| Adrenal Gland                    | Cortex         | Hyperplasia                      | Focal, Minimal |
| Brain                            | Thalamus       | Mineralization                   | Mild           |
| Kidney                           | Renal Tubule   | Dilatation                       | Moderate       |
|                                  |                | Mineralization                   | Moderate       |
|                                  | Renal Tubule   | Regeneration                     | Minimal        |
| Liver                            |                | Clear Cell Focus                 |                |
|                                  |                | Hepatocellular Carcinoma         |                |
| Note: HEPATOCLR CARC TGLs = 3-21 |                |                                  |                |
| Lymph Node                       | Mesenteric     | Hematopoietic Cell Proliferation | Minimal        |
|                                  | Mesenteric     | Hemorrhage                       | Minimal        |
| Seminal Vesicle                  |                | Dilatation                       | Mild           |
| Note: DILATATION TGLs = 1-7      |                |                                  |                |
| Thyroid Gland                    | Follicle       | Cyst                             |                |
|                                  | Follicular Cel | Hyperplasia                      | Mild           |
| Trachea                          |                |                                  |                |
| Note: TRACHEA PRESENT ON SLIDE 2 |                |                                  |                |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-02  
Test Type: CHRONIC  
Route: DOSED WATER  
Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Test Compound: Chloraminated water  
CAS Number: CHLORAMINEMX

Date Report Requested: 10/20/2014  
Time Report Requested: 00:10:12  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 612      TRT#: 9      SEX: Male      DAY ON TEST: 730  
DOSE: 0.0100% CHLORAMI      DISP: Moribund Sacrifice      HISTO: A87042496

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Epididymis              | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Nose                    | Pancreas                  |
| Parathyroid Gland        | Pituitary Gland            | Prostate                | Skin                      |
| Spleen                   | Stomach - Forestomach      | Stomach - Glandular     | Testes                    |
| Thymus                   | Trachea                    | Urinary Bladder         |                           |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|  |                 |                          |                   |
|--|-----------------|--------------------------|-------------------|
| Adrenal Gland                                    | Capsule, Cortex | Hyperplasia              | Mild              |
| Bone Marrow                                      |                 | Angiectasis              | Minimal           |
| Note: LESION SUGGESTIVE OF EARLY HEMANGIOSARCOMA |                 |                          |                   |
| Brain  | Thalamus        | Mineralization           | Mild              |
| Islets, Pancreatic                               |                 | Hyperplasia              | Minimal           |
| Kidney   | Renal Tubule    | Dilatation               | Minimal           |
|  |                 | Hyperplasia              | Lymphoid, Minimal |
|  |                 | Mineralization           | Mild              |
|  | Renal Tubule    | Regeneration             | Mild              |
| Liver  |                 | Hepatocellular Adenoma   | Multiple, Three   |
|  |                 | Hepatocellular Carcinoma |                   |
|  |                 | Hyperplasia              | Focal, Mild       |
| Note: HEPATOCLR CARC TGLs = 2-22                 |                 |                          |                   |
| Note: [ HEPATOCLR ADEN ] TGLs = 21,22            |                 |                          |                   |
| Lung   |                 | Hemorrhage               | Minimal           |
| Salivary Glands                                  |                 | Hyperplasia              | Lymphoid, Mild    |
| Seminal Vesicle                                  |                 | Dilatation               | Mild              |
| Thyroid Gland                                    |                 | Degeneration             | Cystic, Mild      |

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 613

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042497

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Liver                    | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Nose                     | Pancreas                   | Parathyroid Gland       |
| Pituitary Gland           | Prostate                 | Salivary Glands            | Seminal Vesicle         |
| Skin                      | Spleen                   | Stomach - Forestomach      | Stomach - Glandular     |
| Testes                    | Thymus                   | Trachea                    | Urinary Bladder         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                    |              |                |                   |
|--------------------|--------------|----------------|-------------------|
| Adrenal Gland      | Cortex       | Hyperplasia    | Focal, Minimal    |
| Brain              | Thalamus     | Mineralization | Mild              |
| Islets, Pancreatic |              | Hyperplasia    | Minimal           |
| Kidney             | Renal Tubule | Atrophy        | Minimal           |
|                    |              | Casts Protein  | Minimal           |
|                    | Renal Tubule | Dilatation     | Minimal           |
|                    |              | Hyperplasia    | Lymphoid, Minimal |
|                    |              | Mineralization | Moderate          |
| Thyroid Gland      | Renal Tubule | Regeneration   | Moderate          |
|                    |              | Degeneration   | Cystic, Minimal   |
|                    |              | Ectopic Thymus |                   |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 614

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042498

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      | Lung                    |
| Lymph Node - Mandibular   | Lymph Node - Mesenteric  | Nose                       | Parathyroid Gland       |
| Prostate                  | Salivary Glands          | Spleen                     | Stomach - Forestomach   |
| Stomach - Glandular       | Testes                   | Thymus                     | Thyroid Gland           |
| Trachea                   | Urinary Bladder          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                 |               |                                   |                 |
|---------------------------------|---------------|-----------------------------------|-----------------|
| Adrenal Gland                   | Cortex        | Accessory Adrenal Cortical Nodule |                 |
|                                 | Cortex        | Hyperplasia                       | Focal, Minimal  |
|                                 | Cortex        | Hypertrophy                       | Focal, Moderate |
| Note: [ HYPERTROPHY ] TGLs = 10 |               |                                   |                 |
| Brain                           | Thalamus      | Mineralization                    | Mild            |
| Kidney                          |               | Cyst                              |                 |
|                                 |               | Mineralization                    | Moderate        |
|                                 | Renal Tubule  | Regeneration                      | Moderate        |
| Note: CYST TGLs = 3-5-1         |               |                                   |                 |
| Pancreas                        |               | Atrophy                           | Mild            |
| Pituitary Gland                 | Pars Distalis | Cyst                              |                 |
| Seminal Vesicle                 |               | Dilatation                        | Moderate        |
| Note: DILATATION TGLs = 2-7     |               |                                   |                 |
| Skin                            | Hair Follicle | Cyst                              |                 |
| Note: CYST TGLs = 1-21          |               |                                   |                 |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 615

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042499

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Medulla    | Bone                    | Epididymis                | Esophagus                |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   | Nose                     |
| Pancreas                   | Parathyroid Gland       | Pituitary Gland           | Prostate                 |
| Spleen                     | Stomach - Forestomach   | Stomach - Glandular       | Testes                   |
| Thymus                     | Thyroid Gland           | Trachea                   | Urinary Bladder          |

**MISSING**

|             |               |
|-------------|---------------|
| Gallbladder | Mammary Gland |
|-------------|---------------|

**OBSERVATIONS**

|                                  |                           |   |  |
|----------------------------------|---------------------------|---|--|
| Adrenal Gland                    | Capsule, Cortex<br>Cortex | Hyperplasia<br>Hyperplasia  | Mild<br>Focal, Minimal                         |
| Bone Marrow                      |                           | Hemangiosarcoma   |  |
| Brain                            | Thalamus                  | Mineralization  | Minimal  |
| Note: BONE ARTIFACT IN CEREBRUM  |                           |   |  |
| Kidney                           |                           | Cyst<br>Hyperplasia<br>Metaplasia<br>Mineralization               | Lymphoid, Minimal<br>Osseous, Mild<br>Moderate |
|                                  | Renal Tubule              | Regeneration  | Mild   |
| Liver                            |                           | Hepatocellular Adenoma<br>Hepatocellular Carcinoma<br>Hyperplasia | Focal, Minimal                                 |
| Note: HEPATOCLR ADEN TGLs = 3-22 |                           |   |  |
| Note: HEPATOCLR CARC TGLs = 5-24 |                           |   |  |
| Note: HYPERPLASIA TGLs = 4-23    |                           |   |  |
| Salivary Glands                  |                           | Hyperplasia   | Lymphoid, Mild                                 |
| Seminal Vesicle                  |                           | Dilatation  | Moderate                                       |
| Note: DILATATION TGLs = 2-7      |                           |   |  |
| Skin                             | Subcut Tiss               | Hemangiosarcoma   |  |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 615

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042499

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: HEMANGIOSARC TGLs = 1-21

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 621

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 458

**DOSE:** 0.0100% CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** A86037761

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**OBSERVATIONS**

Kidney

Renal Tubule

Dilatation

Mild

Inflammation

Chronic, Minimal

Mineralization

Minimal

Renal Tubule

Regeneration

Minimal

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 622

**TRT#:** 9  
**DOSE:** 0.0100% CHLORAMI

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:** 457  
**HISTO:** A86037762

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**OBSERVATIONS**

|        |              |  |  |
|--------|--------------|--|--|
| Kidney | Renal Tubule | Dilatation<br>Inflammation<br>Mineralization | Minimal<br>Chronic, Minimal<br>Minimal |
|        | Renal Tubule | Regeneration                                 | Minimal                                |

Note: [ MINERALIZATION ] TGLs = 5

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 623

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 457

**DOSE:** 0.0100% CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** A86037763

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**OBSERVATIONS**

Kidney

Renal Tubule

Dilatation

Minimal

Inflammation

Chronic, Minimal

Metaplasia

Osseous, Minimal

Mineralization

Minimal

Regeneration

Mild

Renal Tubule

Note: [ MINERALIZATION ] TGLs = 5

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 624

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 458

**DOSE:** 0.0100% CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** A86037764

**OBSERVATIONS**

Kidney

Renal Tubule

Dilatation

Mild

Mineralization

Minimal

Renal Tubule

Regeneration

Mild

Note: [ DILATATION ] TGLs = 5

Liver

Hepatocyte

Cytomegaly

Mild

Inflammation

Chronic Active, Minimal

Hepatocyte

Karyomegaly

Mild

Lobules

Necrosis

Minimal

Hepatocyte

Vacuolization Cytoplasmic

Moderate

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 625

**TRT#:** 9

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0.0100% CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** A86037765

**OBSERVATIONS**

Kidney

Renal Tubule

Degeneration

Focal, Minimal

Renal Tubule

Dilatation

Mild

Mineralization

Minimal

Renal Tubule

Regeneration

Minimal

Note: TUBULE DILATATION OCCURS NEAR THE JCT OF CORTEX AND MEDULLA.

Note: DILATED TUBULES CONTAINS PINK STAINING FLOCCULAR MATERIAL.

[ Degeneration TGLS = 5 ]

[ Mineralization TGLS = 5 ]

Prostate

Concretion

Moderate

Inflammation

Suppurative, Minimal

Note: CONCRETION TGLs = 1-21

Note: INFLAMMATION TGLs = 1-21

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 626

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 691

**DOSE:** 0.00500%CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042594

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Epididymis                |
| Esophagus                | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Lung                     | Lymph Node - Mandibular    | Lymph Node - Mesenteric | Pancreas                  |
| Parathyroid Gland        | Prostate                   | Salivary Glands         | Skin                      |
| Spleen                   | Stomach - Forestomach      | Stomach - Glandular     | Testes                    |
| Thymus                   | Thyroid Gland              | Trachea                 | Urinary Bladder           |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|   |                 |                        |                   |
|---|-----------------|------------------------|-------------------|
| Adrenal Gland                           | Capsule, Cortex | Hyperplasia            | Mild              |
| Brain                                   | Thalamus        | Mineralization         | Mild              |
| Gallbladder                             |                 | Dilatation             | Moderate          |
| Islets, Pancreatic                      |                 | Hyperplasia            | Moderate          |
| Note: HYPERPLASIA ON SLIDE 5            |                 |                        |                   |
| Kidney                                  | Renal Tubule    | Atrophy                | Mild              |
|   |                 | Hyperplasia            | Lymphoid, Minimal |
|   |                 | Mineralization         | Mild              |
|   | Renal Tubule    | Regeneration           | Mild              |
| Liver                                   |                 | Hemangioma             |                   |
|   |                 | Hepatocellular Adenoma |                   |
|   |                 | Hyperplasia            | Focal, Moderate   |
|   |                 | Inflammation           | Chronic, Minimal  |
| Note: HEMANGIOMA TGLs = 4-23            |                 |                        |                   |
| Note: FOCAL HYPERPLASIA ALSO ON SLIDE 6 |                 |                        |                   |
| Note: HYPERPLASIA TGLs = 3-22           |                 |                        |                   |
| Note: HEPATOCLR ADEN TGLs = 2-21        |                 |                        |                   |
| Nose                                    |                 | Exudate                |                   |
|   | Glands          | Hyperplasia            | Cystic, Minimal   |
| Pituitary Gland                         | Pars Distalis   | Cyst                   |                   |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 626 | <b>TRT#:</b> 13               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 691 |
|                       | <b>DOSE:</b> 0.00500%CHLORAMI | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87042594 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                  |            |            |          |
|------------------|------------|------------|----------|
| Seminal Vesicle  |            | Dilatation | Marked   |
| Note: DILATATION | TGLs = 1-7 |            |          |
| Tooth            |            | Dysplasia  | Moderate |
| Note: DYSPLASIA  | TGLs = 5-9 |            |          |

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 627      **TRT#:** 13      **SEX:** Male      **DAY ON TEST:** 732  
**DOSE:** 0.00500%CHLORAMI      **DISP:** Moribund Sacrifice      **HISTO:** A87042595

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Nose                    |
| Pancreas                  | Parathyroid Gland        | Pituitary Gland            | Prostate                |
| Salivary Glands           | Spleen                   | Stomach - Forestomach      | Stomach - Glandular     |
| Testes                    | Thymus                   | Trachea                    | Urinary Bladder         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                       |              |                                |                    |
|---------------------------------------|--------------|--------------------------------|--------------------|
| Adrenal Gland                         | Cortex       | Clear Cell Focus               |                    |
| Brain                                 | Thalamus     | Mineralization                 | Mild               |
| Islets, Pancreatic                    |              | Hyperplasia                    | Minimal            |
| Kidney                                |              | Mineralization                 | Mild               |
|                                       | Renal Tubule | Regeneration                   | Minimal            |
| Liver                                 |              | Hepatocellular Adenoma         | Multiple, Two      |
| Note: [ HEPATOCLR ADEN ] TGLs = 22,23 |              |                                |                    |
| Note: TWO ADENOMAS ON SLIDE 23        |              |                                |                    |
| Lung                                  |              | Alveolar/Bronchiolar Carcinoma |                    |
|                                       |              | Infiltration Cellular          | Histiocyte, Marked |
| Note: ALV BRON CARC TGLs = 5-2-1      |              |                                |                    |
| Seminal Vesicle                       |              | Dilatation                     | Moderate           |
| Note: DILATATION TGLs = 2-7           |              |                                |                    |
| Skin                                  |              | Inflammation                   | Chronic, Minimal   |
| Note: INFLAMMATION IS ON SLIDE 8      |              |                                |                    |
| Thyroid Gland                         |              | Degeneration                   | Cystic, Mild       |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 628

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 702

**DOSE:** 0.00500%CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042596

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       |
| Lymph Node - Mandibular | Nose                      | Pancreas                 | Parathyroid Gland          |
| Prostate                | Seminal Vesicle           | Skin                     | Spleen                     |
| Stomach - Forestomach   | Stomach - Glandular       | Trachea                  |                            |

**MISSING**

|               |                 |
|---------------|-----------------|
| Mammary Gland | Pituitary Gland |
|---------------|-----------------|

**OBSERVATIONS**

|                                  |              |                          |                |
|----------------------------------|--------------|--------------------------|----------------|
| Brain                            | Thalamus     | Mineralization           | Minimal        |
| Kidney                           |              | Cyst                     |                |
|                                  |              | Mineralization           | Mild           |
|                                  | Renal Tubule | Regeneration             | Minimal        |
| Liver                            |              | Hepatocellular Adenoma   |                |
|                                  |              | Hepatocellular Carcinoma |                |
| Note: HEPATOCLR CARC TGLs = 3-22 |              |                          |                |
| Lymph Node                       | Mesenteric   | Hyperplasia              | Lymphoid, Mild |
| Salivary Glands                  |              | Hyperplasia              | Lymphoid, Mild |
| Testes                           | Seminif Tub  | Atrophy                  | Minimal        |
| Thymus                           |              | Depletion Cellular       | Mild           |
| Thyroid Gland                    |              | Degeneration             | Cystic, Mild   |
| Urinary Bladder                  |              | Dilatation               | Marked         |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 629

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 738

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042597

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Nose                    |
| Pancreas                  | Parathyroid Gland        | Prostate                   | Salivary Glands         |
| Seminal Vesicle           | Stomach - Forestomach    | Testes                     | Trachea                 |

**MISSING**

Mammary Gland

**INSUFFICIENT TISSUE**

Pituitary Gland

**OBSERVATIONS**

|                      |              |                                |                      |
|----------------------|--------------|--------------------------------|----------------------|
| Adrenal Gland        | Cortex       | Hyperplasia                    | Focal, Minimal       |
| Brain                | Thalamus     | Mineralization                 | Mild                 |
| Islets, Pancreatic   |              | Hyperplasia                    | Mild                 |
| Kidney               |              | Mineralization                 | Mild                 |
|                      | Renal Tubule | Regeneration                   | Mild                 |
| Liver                |              | Hepatocellular Adenoma         |                      |
|                      |              | Hyperplasia                    | Focal, Mild          |
| Note: HEPATOCLR ADEN | TGLs = 3-21  |                                |                      |
| Lung                 |              | Alveolar/Bronchiolar Carcinoma |                      |
|                      |              | Infiltration Cellular          | Histiocyte, Moderate |
| Note: ALV BRON CARC  | TGLs = 4-2-1 |                                |                      |
| Preputial Gland      |              | Ectasia                        | Moderate             |
| Note: ECTASIA        | TGLs = 2-8   |                                |                      |
| Skin                 |              | Acanthosis                     | Mild                 |
| Note: ACANTHOSIS     | TGLs = 1-22  |                                |                      |
| Spleen               | Lymph Follic | Hyperplasia                    | Mild                 |
| Stomach              | Glandular    | Cyst                           |                      |
| Thymus               |              | Cyst                           |                      |
| Thyroid Gland        |              | Degeneration                   | Cystic, Mild         |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 629

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 738

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042597

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Urinary Bladder

Hyperplasia

Lymphoid, Minimal

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 630

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 636

**DOSE:** 0.00500%CHLORAMI

**DISP:** Natural Death

**HISTO:** A87042598

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex     | Adrenal Gland - Medulla | Bone                      | Esophagus                |
| Gallbladder                | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Lymph Node - Mandibular  |
| Nose                       | Parathyroid Gland       | Pituitary Gland           | Prostate                 |
| Salivary Glands            | Seminal Vesicle         | Skin                      | Testes                   |
| Thyroid Gland              | Trachea                 | Urinary Bladder           |                          |

**MISSING**

|               |        |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

**OBSERVATIONS**

|   |              |                                |          |
|---|--------------|--------------------------------|----------|
| Bone Marrow   |              | Hypercellularity               | Moderate |
| Brain   | Thalamus     | Mineralization                 | Mild     |
| Epididymis  |              | Lymphoma Malignant Lymphocytic |          |
| Heart   | Myocardium   | Mineralization                 | Minimal  |
| Islets, Pancreatic  |              | Hyperplasia                    | Mild     |
| Kidney  |              | Cyst                           |          |
|   |              | Mineralization                 | Minimal  |
|   | Renal Tubule | Regeneration                   | Minimal  |
| Liver   | Kupffer Cell | Hyperplasia                    | Moderate |
|   |              | Lymphoma Malignant Lymphocytic |          |
|   | Kupffer Cell | Pigmentation                   | Moderate |
| Lung  |              | Lymphoma Malignant Lymphocytic |          |
| Lymph Node  | Inguinal     | Lymphoma Malignant Lymphocytic |          |
|   | Mediastinal  | Lymphoma Malignant Lymphocytic |          |
|   | Mesenteric   | Lymphoma Malignant Lymphocytic |          |
| Note: LYMPH MAL LYMP TGLs = 1-8,1-21<br>[ Lymphoma Malignant Lymphocytic TGLs = 4-5 ] |              |                                |          |
| Mesentery   |              | Lymphoma Malignant Lymphocytic |          |
| Pancreas  |              | Atrophy                        | Moderate |
| Preputial Gland   |              | Ectasia                        | Marked   |
| Note: ECTASIA TGLs = 5-8  |              |                                |          |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 630

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 636

**DOSE:** 0.00500%CHLORAMI

**DISP:** Natural Death

**HISTO:** A87042598

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                      |             |                                |
|----------------------|-------------|--------------------------------|
| Spleen               |             | Lymphoma Malignant Lymphocytic |
| Note: LYMPH MAL LYMP | TGLs = 2-6  |                                |
| Stomach              | Glandular   | Cyst                           |
|                      | Forestomach | Lymphoma Malignant Lymphocytic |
|                      | Glandular   | Lymphoma Malignant Lymphocytic |

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 631

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 675

**DOSE:** 0.00500%CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042599

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex     | Adrenal Gland - Medulla | Bone                      | Bone Marrow              |
| Brain                      | Epididymis              | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Lymph Node - Mandibular    | Pancreas                | Parathyroid Gland         | Pituitary Gland          |
| Prostate                   | Salivary Glands         | Seminal Vesicle           | Skin                     |
| Stomach - Forestomach      | Stomach - Glandular     | Testes                    | Thyroid Gland            |
| Trachea                    | Urinary Bladder         |                           |                          |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|   |              |                                  |                    |
|---|--------------|----------------------------------|--------------------|
| Kidney  |              | Casts Protein                    | Mild               |
|   |              | Hyperplasia                      | Lymphoid, Mild     |
|   | Renal Tubule | Regeneration                     | Mild               |
| Liver   |              | Hepatocellular Adenoma           |                    |
|   |              | Hepatocellular Carcinoma         |                    |
|   |              | Hyperplasia                      | Focal, Moderate    |
| <p>Note: HEPATOCLR ADEN TGLs = 4-23<br/>         Note: FOCAL HYPERPLASIA ALSO ON SLIDE 6<br/>         Note: HEPATOCLR CARC TGLs = 2-22<br/>         Note: HYPERPLASIA TGLs = 4-23</p> |              |                                  |                    |
| Lung  |              | Hepatocellular Carcinoma         | Metastatic (Liver) |
| <p>Note: HEPATOCLR CARC TGLs = 3-2-1</p>  |              |                                  |                    |
| Lymph Node  | Mesenteric   | Hemorrhage                       | Minimal            |
| Mesentery   |              | Hemangioma                       |                    |
|   | Fat          | Necrosis                         | Moderate           |
| <p>Note: HEMANGIOMA IS ON SLIDE 5<br/>         [ Hemangioma TGLS = 1-21 ]</p>   |              |                                  |                    |
| Nose  |              | Exudate                          |                    |
| Spleen  |              | Hematopoietic Cell Proliferation | Minimal            |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 631

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 675

**DOSE:** 0.00500%CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042599

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Thymus

Depletion Cellular

Mild

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 632

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 0.00500%CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042600

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                           |                         |
|--------------------------|----------------------------|---------------------------|-------------------------|
| Adrenal Gland - Medulla  | Bone                       | Brain                     | Epididymis              |
| Esophagus                | Gallbladder                | Heart                     | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Jejunum | Islets, Pancreatic      |
| Lymph Node - Mandibular  | Nose                       | Pancreas                  | Parathyroid Gland       |
| Pituitary Gland          | Prostate                   | Seminal Vesicle           | Stomach - Glandular     |
| Testes                   | Thyroid Gland              | Trachea                   | Urinary Bladder         |

**MISSING**

|                         |               |        |
|-------------------------|---------------|--------|
| Intestine Large - Cecum | Mammary Gland | Thymus |
|-------------------------|---------------|--------|

**OBSERVATIONS**

|   |                  |                                  |                   |
|---|------------------|----------------------------------|-------------------|
| Adrenal Gland                                 | Cortex           | Clear Cell Focus                 |                   |
|   | Capsule, Cortex  | Hyperplasia                      | Mild              |
| Bone Marrow                                   |                  | Hemangiosarcoma                  |                   |
| Intestine Small                               | Ileum            | Carcinoma                        |                   |
| Note: CARCINOMA                               | TGLs = 3-22      |                                  |                   |
| Kidney  |                  | Cyst                             |                   |
|   |                  | Hyperplasia                      | Lymphoid, Minimal |
|   |                  | Mineralization                   | Moderate          |
|   | Renal Tubule     | Regeneration                     | Mild              |
| Liver   |                  | Hemangiosarcoma                  |                   |
|   |                  | Hepatocellular Adenoma           | Multiple, Two     |
| Note: HEPATOCLR ADEN                          | TGLs = 4-23,5-24 |                                  |                   |
| Note: HEMANGIOSARC                            | TGLs = 4-23      |                                  |                   |
| Note: PORTION OF ONE ADENOMA ON SLIDE 6       |                  |                                  |                   |
| Lung  |                  | Alveolar/Bronchiolar Adenoma     | Multiple, Two     |
| Note: ONE ADENOMA HAS A ZONE OF ANAPLASIA     |                  |                                  |                   |
| [ Alveolar/Bronchiolar Adenoma TGLS = 6-2-1 ] |                  |                                  |                   |
| Lymph Node                                    | Mesenteric       | Hematopoietic Cell Proliferation | Minimal           |
|   | Mesenteric       | Hemorrhage                       | Moderate          |
| Salivary Glands                               |                  | Hyperplasia                      | Lymphoid, Mild    |
| Skin  | Subcut Tiss      | Hemangiosarcoma                  |                   |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 632 | <b>TRT#:</b> 13               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 732 |
|                       | <b>DOSE:</b> 0.00500%CHLORAMI | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87042600 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                      |                     |                                  |          |
|----------------------|---------------------|----------------------------------|----------|
| Note: HEMANGIOSARC   | TGLs = 1-21         |                                  |          |
| Spleen               |                     | Hematopoietic Cell Proliferation | Moderate |
| Note: HEMA CELL PROL | TGLs = 2-6          |                                  |          |
| Stomach              |                     | Edema                            | Mild     |
|                      | Forestomach         |                                  |          |
|                      | Forestomach, Mucosa | Hyperplasia                      | Mild     |

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 633

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042601

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                           |                         |
|--------------------------|----------------------------|---------------------------|-------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow               | Esophagus               |
| Gallbladder              | Heart                      | Intestine Large - Cecum   | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Jejunum | Lymph Node - Mandibular |
| Lymph Node - Mesenteric  | Nose                       | Parathyroid Gland         | Pituitary Gland         |
| Prostate                 | Salivary Glands            | Skin                      | Spleen                  |
| Testes                   | Thymus                     | Thyroid Gland             | Trachea                 |
| Urinary Bladder          |                            |                           |                         |

**MISSING**

|                         |               |                       |                     |
|-------------------------|---------------|-----------------------|---------------------|
| Intestine Small - Ileum | Mammary Gland | Stomach - Forestomach | Stomach - Glandular |
|-------------------------|---------------|-----------------------|---------------------|

**OBSERVATIONS**

|                                     |                |                        |                   |
|-------------------------------------|----------------|------------------------|-------------------|
| Adrenal Gland                       | Cortex         | Hyperplasia            | Focal, Minimal    |
| Brain                               | Thalamus       | Mineralization         | Minimal           |
| Coagulating Gland                   |                | Dilatation             | Marked            |
| Note: DILATATION    TGLs = 3-7      |                |                        |                   |
| Epididymis                          |                | Spermatocele           |                   |
| Islets, Pancreatic                  |                | Hyperplasia            | Mild              |
| Kidney                              | Renal Tubule   | Atrophy                | Minimal           |
|                                     |                | Hyperplasia            | Lymphoid, Minimal |
|                                     |                | Mineralization         | Moderate          |
|                                     | Renal Tubule   | Regeneration           | Minimal           |
| Liver                               |                | Hepatocellular Adenoma |                   |
| Note: HEPATOCLR ADEN    TGLs = 4-21 |                |                        |                   |
| Lung                                | Alveolar Epith | Hyperplasia            | Minimal           |
| Pancreas                            |                | Atrophy                | Minimal           |
| Seminal Vesicle                     |                | Dilatation             | Marked            |
| Note: DILATATION    TGLs = 2-7      |                |                        |                   |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 634

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042602

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Salivary Glands          | Skin                       | Spleen                  |
| Stomach - Forestomach     | Stomach - Glandular      | Testes                     | Thymus                  |
| Thyroid Gland             | Trachea                  | Urinary Bladder            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|  |              |                              |                   |
|--|--------------|------------------------------|-------------------|
| Adrenal Gland                                | Cortex       | Hyperplasia                  | Focal, Mild       |
| Brain  | Thalamus     | Mineralization               | Mild              |
| Kidney                                       | Renal Tubule | Dilatation                   | Minimal           |
|  |              | Hyperplasia                  | Lymphoid, Minimal |
|  |              | Mineralization               | Moderate          |
|  | Renal Tubule | Regeneration                 | Mild              |
| Liver  |              | Hepatocellular Adenoma       | Multiple, Two     |
|  |              | Hyperplasia                  | Focal, Moderate   |
| Note: HEPATOCELLULAR ADENOMA ALSO ON SLIDE 6 |              |                              |                   |
| Note: HEPATOCLR ADEN TGLs = 3-21             |              |                              |                   |
| Lung   |              | Alveolar/Bronchiolar Adenoma |                   |
|  | Mediastinum  | Hemangioma                   |                   |
| Note: TGL-5 IS ON SLIDE 2 INSTEAD OF 2-1     |              |                              |                   |
| Note: [ HEMANGIOMA ] TGLs = 2                |              |                              |                   |
| Note: ALV BRON ADEN TGLs = 5-2               |              |                              |                   |
| Preputial Gland                              |              | Ectasia                      | Mild              |
| Note: ECTASIA TGLs = 1-8                     |              |                              |                   |
| Seminal Vesicle                              |              | Dilatation                   | Marked            |
| Note: DILATATION TGLs = 2-7                  |              |                              |                   |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 634

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042602

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 635

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042603

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Nose                       | Pancreas                |
| Parathyroid Gland         | Pituitary Gland          | Prostate                   | Seminal Vesicle         |
| Skin                      | Stomach - Forestomach    | Testes                     | Thymus                  |
| Thyroid Gland             | Trachea                  | Urinary Bladder            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|   |              |                                  |                   |
|---|--------------|----------------------------------|-------------------|
| Adrenal Gland                                 | Cortex       | Clear Cell Focus                 |                   |
|   | Cortex       | Hyperplasia                      | Focal, Mild       |
| Brain   | Thalamus     | Mineralization                   | Minimal           |
| Islets, Pancreatic                            |              | Hyperplasia                      | Minimal           |
| Kidney  |              | Casts Protein                    | Mild              |
|   |              | Hyperplasia                      | Lymphoid, Minimal |
|   |              | Mineralization                   | Minimal           |
|   | Renal Tubule | Regeneration                     | Moderate          |
| Liver   |              | Hepatocellular Adenoma           | Multiple, Three   |
|   |              | Hepatocellular Carcinoma         |                   |
| Note: TWO HEPATOCELLULAR ADENOMAS ON SLIDE 24 |              |                                  |                   |
| Note: HEPATOCLR CARC TGLs = 1-21              |              |                                  |                   |
| Note: HEPATOCLR ADEN TGLs = 3-23,4-24         |              |                                  |                   |
| Lung  |              | Alveolar/Bronchiolar Adenoma     |                   |
|   |              | Hyperplasia                      | Lymphoid, Minimal |
|   |              | Infiltration Cellular            | Histiocyte, Mild  |
| Note: ALV BRON ADEN TGLs = 5-2                |              |                                  |                   |
| Lymph Node                                    | Mesenteric   | Hematopoietic Cell Proliferation | Mild              |
| Mesentery                                     | Fat          | Necrosis                         | Moderate          |
| Note: NECROSIS TGLs = 2-22                    |              |                                  |                   |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 635 | <b>TRT#:</b> 13               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 736 |
|                       | <b>DOSE:</b> 0.00500%CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042603 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                 |           |                                  |                   |
|-----------------|-----------|----------------------------------|-------------------|
| Salivary Glands |           | Hyperplasia                      | Lymphoid, Minimal |
| Spleen          |           | Hematopoietic Cell Proliferation | Minimal           |
| Stomach         | Glandular | Cyst                             |                   |
|                 | Glandular | Mineralization                   | Minimal           |

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 636

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042604

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex     | Adrenal Gland - Medulla | Bone                      | Bone Marrow              |
| Brain                      | Epididymis              | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Lymph Node - Mandibular  |
| Lymph Node - Mesenteric    | Nose                    | Pancreas                  | Parathyroid Gland        |
| Pituitary Gland            | Prostate                | Salivary Glands           | Seminal Vesicle          |
| Skin                       | Spleen                  | Stomach - Forestomach     | Testes                   |
| Thymus                     | Trachea                 | Urinary Bladder           |                          |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|  |                |                              |                |
|--|----------------|------------------------------|----------------|
| Islets, Pancreatic                           |                | Hyperplasia                  | Minimal        |
| Kidney                                       | Renal Tubule   | Atrophy                      | Minimal        |
|  |                | Cyst                         |                |
|  |                | Mineralization               | Mild           |
|  | Renal Tubule   | Regeneration                 | Moderate       |
| Note: CYST TGLs = 1-24,2-24                  |                |                              |                |
| Liver  |                | Clear Cell Focus             |                |
|  |                | Hepatocellular Adenoma       | Four, Multiple |
| Note: HEPATOCELLULAR ADENOMA ALSO ON SLIDE 6 |                |                              |                |
| Note: HEPATOCLR ADEN TGLs = 3-21,4-22,5-23   |                |                              |                |
| Note: CLEAR CL FOCUS TGLs = 7-6              |                |                              |                |
| Lung   |                | Alveolar/Bronchiolar Adenoma |                |
| [ Alveolar/Bronchiolar Adenoma TGLS = 6-2 ]  |                |                              |                |
| Stomach                                      | Glandular      | Cyst                         |                |
| Thyroid Gland                                | Follicular Cel | Hyperplasia                  | Minimal        |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 637 | <b>TRT#:</b> 13               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 736 |
|                       | <b>DOSE:</b> 0.00500%CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042605 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex   | Adrenal Gland - Medulla    | Bone                    | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Liver                      | Lung                    | Lymph Node - Mesenteric   |
| Nose                     | Pancreas                   | Pituitary Gland         | Prostate                  |
| Salivary Glands          | Seminal Vesicle            | Skin                    | Spleen                    |
| Stomach - Forestomach    | Stomach - Glandular        | Thymus                  | Thyroid Gland             |
| Trachea                  | Urinary Bladder            |                         |                           |

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**MISSING**

|                         |               |
|-------------------------|---------------|
| Lymph Node - Mandibular | Mammary Gland |
|-------------------------|---------------|

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**OBSERVATIONS**

|                   |                |                 |                  |
|-------------------|----------------|-----------------|------------------|
| Bone Marrow       |                | Angiectasis     | Mild             |
| Brain             | Thalamus       | Mineralization  | Minimal          |
| Epididymis        |                | Atypia Cellular |                  |
|                   |                | Inflammation    | Chronic, Minimal |
| Kidney            |                | Cyst            |                  |
|                   |                | Mineralization  | Mild             |
|                   | Renal Tubule   | Regeneration    | Minimal          |
| Parathyroid Gland |                | Cyst            |                  |
| Testes            | Interstit Cell | Adenoma         |                  |
|                   | Seminif Tub    | Atrophy         | Minimal          |
| Urin Bladder      |                |                 |                  |

Note: URINARY BLADDER HAS AN INFUSION ARTIFACT

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 638

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042606

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Lymph Node - Mandibular  | Nose                       | Pancreas                | Prostate                  |
| Salivary Glands          | Skin                       | Spleen                  | Stomach - Forestomach     |
| Stomach - Glandular      | Testes                     | Thymus                  | Trachea                   |
| Urinary Bladder          |                            |                         |                           |

**MISSING**

|               |                   |                 |
|---------------|-------------------|-----------------|
| Mammary Gland | Parathyroid Gland | Pituitary Gland |
|---------------|-------------------|-----------------|

**OBSERVATIONS**

|                          |                 |                                |                 |
|--------------------------|-----------------|--------------------------------|-----------------|
| Adrenal Gland            | Capsule, Cortex | Hyperplasia                    | Moderate        |
|                          | Cortex          | Hyperplasia                    | Focal, Mild     |
| Brain                    | Thalamus        | Mineralization                 | Mild            |
| Coagulating Gland        |                 | Dilatation                     | Marked          |
| Note: DILATATION         | TGLs = 5-7      |                                |                 |
| Epididymis               |                 | Inflammation                   | Chronic, Mild   |
| Islets, Pancreatic       |                 | Hyperplasia                    | Mild            |
| Kidney                   | Renal Tubule    | Atrophy                        | Mild            |
|                          | Renal Tubule    | Dilatation                     | Mild            |
|                          | Renal Tubule    | Mineralization                 | Mild            |
|                          | Renal Tubule    | Regeneration                   | Minimal         |
| Liver                    |                 | Clear Cell Focus               |                 |
|                          |                 | Hepatocellular Adenoma         |                 |
|                          |                 | Hepatocellular Carcinoma       |                 |
|                          |                 | Hyperplasia                    | Focal, Moderate |
| Note: CLEAR CL FOCUS     | TGLs = 6-23     |                                |                 |
| Note: HEPATOCLR ADEN     | TGLs = 3-22     |                                |                 |
| Note: [ HEPATOCLR CARC ] | TGLs = 21       |                                |                 |
| Lung                     |                 | Alveolar/Bronchiolar Carcinoma | Multiple, Two   |
| Note: ALV BRON CARC      | TGLs = 4-2      |                                |                 |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 638 | <b>TRT#:</b> 13               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 737 |
|                       | <b>DOSE:</b> 0.00500%CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042606 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                  |            |              |                  |
|------------------|------------|--------------|------------------|
| Lymph Node       | Mesenteric | Hemorrhage   | Mild             |
| Seminal Vesicle  |            | Dilatation   | Marked           |
| Note: DILATATION | TGLs = 1-7 |              |                  |
| Thyroid Gland    |            | Degeneration | Cystic, Moderate |
| Tooth            |            | Dysplasia    | Mild             |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 639

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042607

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Epididymis                |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Liver                      | Lung                    | Nose                      |
| Pancreas                 | Pituitary Gland            | Prostate                | Seminal Vesicle           |
| Skin                     | Spleen                     | Testes                  | Trachea                   |
| Urinary Bladder          |                            |                         |                           |

**MISSING**

|               |                   |                       |                     |
|---------------|-------------------|-----------------------|---------------------|
| Mammary Gland | Parathyroid Gland | Stomach - Forestomach | Stomach - Glandular |
| Thymus        | Thyroid Gland     |                       |                     |

**INSUFFICIENT TISSUE**

Esophagus

**OBSERVATIONS**

|                 |                 |                |                   |
|-----------------|-----------------|----------------|-------------------|
| Adrenal Gland   | Capsule, Cortex | Adenoma        |                   |
|                 | Cortex          | Hyperplasia    | Focal, Minimal    |
| Brain           | Thalamus        | Mineralization | Mild              |
| Kidney          |                 | Casts Protein  | Minimal           |
|                 | Renal Tubule    | Dilatation     | Mild              |
|                 |                 | Hyperplasia    | Lymphoid, Minimal |
|                 |                 | Mineralization | Mild              |
| Lymph Node      | Renal Tubule    | Regeneration   | Minimal           |
|                 | Mesenteric      | Hemorrhage     | Minimal           |
|                 | Mandibular      | Hyperplasia    | Lymphoid, Mild    |
|                 | Mandibular      | Hyperplasia    | Plasma Cell, Mild |
| Salivary Glands |                 | Hyperplasia    | Lymphoid, Minimal |
| Trachea         |                 |                |                   |

Note: TRACHEA PRESENT ON SLIDE 2

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 640 | <b>TRT#:</b> 13               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 691 |
|                       | <b>DOSE:</b> 0.00500%CHLORAMI | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87042608 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Medulla | Bone                      | Bone Marrow              | Brain                      |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      |
| Lung                    | Lymph Node - Mandibular   | Lymph Node - Mesenteric  | Nose                       |
| Pancreas                | Parathyroid Gland         | Pituitary Gland          | Prostate                   |
| Salivary Glands         | Seminal Vesicle           | Skin                     | Spleen                     |
| Stomach - Forestomach   | Stomach - Glandular       | Testes                   | Thymus                     |
| Thyroid Gland           | Trachea                   | Urinary Bladder          |                            |

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

|                                     |              |                |                   |
|-------------------------------------|--------------|----------------|-------------------|
| Adrenal Gland                       | Cortex       | Hyperplasia    | Focal, Minimal    |
| Blood Vessel                        |              | Hypertrophy    | Mild              |
|                                     |              | Inflammation   | Chronic, Moderate |
| Note: LESIONS ARE ON SLIDES 5 AND 7 |              |                |                   |
| Kidney                              | Renal Tubule | Atrophy        | Moderate          |
|                                     |              | Casts Protein  | Mild              |
|                                     |              | Hyperplasia    | Lymphoid, Minimal |
|                                     |              | Mineralization | Mild              |
|                                     | Renal Tubule | Regeneration   | Minimal           |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 641

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 0.00500%CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042609

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Nose                       | Pancreas                |
| Parathyroid Gland         | Pituitary Gland          | Prostate                   | Salivary Glands         |
| Seminal Vesicle           | Skin                     | Spleen                     | Stomach - Forestomach   |
| Stomach - Glandular       | Testes                   | Thyroid Gland              | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|  |              |                              |                 |
|--|--------------|------------------------------|-----------------|
| Adrenal Gland  | Cortex       | Hyperplasia                  | Focal, Minimal  |
| Brain  | Thalamus     | Mineralization               | Minimal         |
| Islets, Pancreatic   |              | Hyperplasia                  | Minimal         |
| Kidney   |              | Cyst                         |                 |
|  |              | Mineralization               | Mild            |
|  | Renal Tubule | Regeneration                 | Moderate        |
| Liver  |              | Clear Cell Focus             |                 |
|  |              | Hepatocellular Adenoma       |                 |
|  |              | Hyperplasia                  | Focal, Moderate |
| Note: HEPATOCLR ADEN TGLs = 3-21<br>Note: FOCAL HYPERPLASIA ON SLIDE 21; CLEAR FOCI ON SLIDES 6 AND 21 |              |                              |                 |
| Lung   |              | Alveolar/Bronchiolar Adenoma |                 |
|  |              |                              |                 |
|  |              |                              |                 |
| Lymph Node   | Mesenteric   | Hemorrhage                   | Minimal         |
|  |              |                              |                 |
|  |              |                              |                 |
| Thymus   |              | Cyst                         |                 |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 642

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 631

**DOSE:** 0.00500%CHLORAMI

**DISP:** Natural Death

**HISTO:** A87042610

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Medulla | Bone                      | Bone Marrow              | Brain                      |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lung                     | Nose                       |
| Pancreas                | Parathyroid Gland         | Pituitary Gland          | Prostate                   |
| Salivary Glands         | Skin                      | Stomach - Forestomach    | Stomach - Glandular        |
| Testes                  | Trachea                   | Urinary Bladder          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                    |              |                                |                 |
|------------------------------------|--------------|--------------------------------|-----------------|
| Adrenal Gland                      | Cortex       | Hyperplasia                    | Focal, Minimal  |
| Coagulating Gland                  |              | Dilatation                     | Marked          |
| Note: DILATATION TGLs = 9-7-1      |              |                                |                 |
| Islets, Pancreatic                 |              | Hyperplasia                    | Mild            |
| Kidney                             |              | Cyst                           |                 |
|                                    |              | Hydronephrosis                 | Mild            |
|                                    |              | Mineralization                 | Mild            |
|                                    | Renal Tubule | Regeneration                   | Minimal         |
| Note: HYDRONEPHROSIS TGLs = 11-5-1 |              |                                |                 |
| Note: CYST TGLs = 10-5,10-5-1      |              |                                |                 |
| Liver                              |              | Hepatocellular Adenoma         | Multiple, Two   |
|                                    |              | Hyperplasia                    | Focal, Moderate |
|                                    | Hepatocyte   | Vacuolization Cytoplasmic      | Mild            |
| Note: HEPATOCLR ADEN TGLs = 8-21   |              |                                |                 |
| Lymph Node                         | Mesenteric   | Hemorrhage                     | Moderate        |
|                                    | Inguinal     | Lymphoma Malignant Lymphocytic |                 |
|                                    | Mandibular   | Lymphoma Malignant Lymphocytic |                 |
|                                    | Mediastinal  | Lymphoma Malignant Lymphocytic |                 |
|                                    | Mesenteric   | Lymphoma Malignant Lymphocytic |                 |
| Note: LYMPH MAL LYMP TGLs = 7-2    |              |                                |                 |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                            |                         |
|-----------------------|-------------------------------|----------------------------|-------------------------|
| <b>ANIMAL ID:</b> 642 | <b>TRT#:</b> 13               | <b>SEX:</b> Male           | <b>DAY ON TEST:</b> 631 |
|                       | <b>DOSE:</b> 0.00500%CHLORAMI | <b>DISP:</b> Natural Death | <b>HISTO:</b> A87042610 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                                 |                                |               |
|---------------------------------|--------------------------------|---------------|
| Note: LYMPH MAL LYMP TGLs = 6-8 |                                |               |
| Note: HEMORRHAGE TGLs = 3-5     |                                |               |
| Preputial Gland                 | Ectasia                        | Marked        |
|                                 | Inflammation                   | Chronic, Mild |
| Note: ECTASIA TGLs = 1-8-1      |                                |               |
| Seminal Vesicle                 | Dilatation                     | Marked        |
| Note: DILATATION TGLs = 2-7-1   |                                |               |
| Spleen                          | Lymphoma Malignant Lymphocytic |               |
| Note: LYMPH MAL LYMP TGLs = 5-6 |                                |               |
| Thymus                          | Lymphoma Malignant Lymphocytic |               |
| Thyroid Gland                   | Degeneration                   | Cystic, Mild  |
| Tooth                           | Dysplasia                      | Moderate      |

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 643

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 0.00500%CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042611

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex     | Adrenal Gland - Medulla | Bone                      | Bone Marrow              |
| Brain                      | Epididymis              | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Lymph Node - Mandibular  |
| Lymph Node - Mesenteric    | Pancreas                | Parathyroid Gland         | Pituitary Gland          |
| Prostate                   | Salivary Glands         | Skin                      | Spleen                   |
| Stomach - Forestomach      | Stomach - Glandular     | Testes                    | Thymus                   |
| Trachea                    | Urinary Bladder         |                           |                          |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|   |              |                                |                    |
|---|--------------|--------------------------------|--------------------|
| Coagulating Gland                                 |              | Dilatation                     | Moderate           |
| Note: DILATATION                                  | TGLs = 5-7-1 |                                |                    |
| Islets, Pancreatic                                |              | Cyst                           |                    |
|   |              | Hyperplasia                    | Moderate           |
| Kidney  | Renal Tubule | Dilatation                     | Minimal            |
|   |              | Mineralization                 | Mild               |
|   | Renal Tubule | Regeneration                   | Mild               |
| Liver   |              | Hepatocellular Adenoma         |                    |
|   |              | Hyperplasia                    | Focal, Moderate    |
| Note: ONE LESION OBSERVED GROSSLY                 |              |                                |                    |
| Note: FOCAL HYPERPLASIA ON SLIDES 6 AND 21        |              |                                |                    |
| Note: [ HEPATOCLR ADEN ]                          | TGLs = 21    |                                |                    |
| Lung  |              | Alveolar/Bronchiolar Carcinoma | Multiple, Two      |
|   |              | Hyperplasia                    | Lymphoid, Minimal  |
|   |              | Infiltration Cellular          | Histiocyte, Marked |
| [ Alveolar/Bronchiolar Carcinoma TGLS = 2-2,3-2 ] |              |                                |                    |
| Lymph Node  | Mediastinal  | Hyperplasia                    | Lymphoid, Mild     |
| Note: HYPERPLASIA                                 | TGLs = 4-2-1 |                                |                    |
| Nose  |              | Exudate                        |                    |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 643

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 0.00500%CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042611

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Seminal Vesicle

Dilatation

Moderate

Note: DILATATION TGLs = 1-7-1

Thyroid Gland

Degeneration

Cystic, Minimal

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 644

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 0.00500%CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042612

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 645

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042613

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                          |                            |                         |
|-------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus               | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Lung                    | Lymph Node - Mandibular  | Nose                       | Pancreas                |
| Parathyroid Gland       | Pituitary Gland          | Prostate                   | Salivary Glands         |
| Skin                    | Spleen                   | Stomach - Forestomach      | Testes                  |
| Thymus                  | Trachea                  | Urinary Bladder            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|   |                   |                          |                  |
|---|-------------------|--------------------------|------------------|
| Adrenal Gland                                 | Cortex            | Clear Cell Focus         |                  |
|   | Cortex            | Hyperplasia              | Focal, Minimal   |
| Brain   | Thalamus          | Mineralization           | Mild             |
| Intestine Small                               | Jejunum           | Lymphoma Malignant Mixed |                  |
| Note: LYMPH MAL MIXD TGLs = 4-23              |                   |                          |                  |
| Islets, Pancreatic                            |                   | Hyperplasia              | Mild             |
| Kidney  | Renal Tubule      | Atrophy                  | Minimal          |
|   |                   | Cyst                     |                  |
|   | Renal Tubule      | Mineralization           | Mild             |
| Liver   |                   | Regeneration             | Moderate         |
|   |                   | Clear Cell Focus         |                  |
|   |                   | Hepatocellular Adenoma   | Multiple, Two    |
| Note: CLEAR CL FOCUS TGLs = 3-22              |                   |                          |                  |
| Note: TWO HEPATOCELLULAR ADENOMAS ON SLIDE 24 |                   |                          |                  |
| Note: [ HEPATOCLR ADEN ] TGLs = 21,24         |                   |                          |                  |
| Lymph Node                                    | Mesenteric        | Hyperplasia              | Lymphoid, Marked |
| Preputial Gland                               |                   | Ectasia                  | Moderate         |
| Note: ECTASIA TGLs = 1-8                      |                   |                          |                  |
| Seminal Vesicle                               |                   | Dilatation               | Moderate         |
| Stomach                                       | Glandular, Mucosa | Dysplasia                | Moderate         |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 645

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042613

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Glandular

Inflammation  
Degeneration

Subacute, Moderate  
Cystic, Mild

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Thyroid Gland

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 646 | <b>TRT#:</b> 13               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 565 |
|                       | <b>DOSE:</b> 0.00500%CHLORAMI | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87042614 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                         |                          |                            |                         |
|-------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus               | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Liver                   | Lung                     | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Nose                    | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                | Salivary Glands          | Seminal Vesicle            | Skin                    |
| Spleen                  | Stomach - Forestomach    | Stomach - Glandular        | Testes                  |
| Thymus                  | Thyroid Gland            | Trachea                    | Urinary Bladder         |

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

|                    |                 |                |          |
|--------------------|-----------------|----------------|----------|
| Adrenal Gland      | Capsule, Cortex | Hyperplasia    | Mild     |
| Brain              | Thalamus        | Mineralization | Mild     |
| Intestine Small    | Jejunum         | Carcinoma      |          |
| Note: CARCINOMA    | TGLs = 2-21     |                |          |
| Islets, Pancreatic |                 | Hyperplasia    | Minimal  |
| Kidney             |                 | Mineralization | Mild     |
|                    | Renal Tubule    | Regeneration   | Minimal  |
| Tooth              |                 | Dysplasia      | Moderate |
| Note: DYSPLASIA    | TGLs = 1-9      |                |          |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 647

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042615

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Medulla | Bone                      | Bone Marrow              | Brain                      |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lymph Node - Mandibular  | Nose                       |
| Pancreas                | Parathyroid Gland         | Pituitary Gland          | Prostate                   |
| Salivary Glands         | Seminal Vesicle           | Skin                     | Stomach - Forestomach      |
| Testes                  | Thyroid Gland             | Trachea                  | Urinary Bladder            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|  |              |                                  |               |
|--|--------------|----------------------------------|---------------|
| Adrenal Gland  | Cortex       | Hyperplasia                      | Focal, Mild   |
| Islets, Pancreatic   |              | Hyperplasia                      | Mild          |
| Kidney   |              | Cyst                             |               |
|  |              | Mineralization                   | Moderate      |
|  | Renal Tubule | Regeneration                     | Mild          |
| Liver  |              | Clear Cell Focus                 |               |
|  |              | Hepatocellular Adenoma           | Multiple, Two |
|  |              | Hepatocellular Carcinoma         |               |
|  |              | Hyperplasia                      | Focal, Marked |
| <p>Note: HEPATOCLR ADEN TGLs = 3-22,4-23<br/>         Note: FOCAL HYPERPLASIA ALSO ON SLIDE 6<br/>         Note: HEPATOCLR CARC TGLs = 2-21<br/>         Note: HYPERPLASIA TGLs = 5-24</p> |              |                                  |               |
| Lung   |              | Alveolar/Bronchiolar Adenoma     |               |
| Lymph Node   | Mesenteric   | Hemorrhage                       | Mild          |
| Spleen   |              | Hematopoietic Cell Proliferation | Mild          |
| <p>Note: HEMA CELL PROL TGLs = 1-6</p>   |              |                                  |               |
| Stomach  | Glandular    | Cyst                             |               |
|  | Glandular    | Mineralization                   | Mild          |
| Thymus   |              | Cyst                             |               |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 647

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042615

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 648

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 681

**DOSE:** 0.00500%CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87042616

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Nose                     | Pancreas                   | Parathyroid Gland       |
| Pituitary Gland           | Prostate                 | Salivary Glands            | Seminal Vesicle         |
| Skin                      | Spleen                   | Stomach - Forestomach      | Stomach - Glandular     |
| Testes                    | Thyroid Gland            | Trachea                    |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|  |               |                        |                 |
|--|---------------|------------------------|-----------------|
| Adrenal Gland                            | Cortex        | Hyperplasia            | Focal, Minimal  |
| Brain                                    | Thalamus      | Mineralization         | Minimal         |
| Esophagus                                |               |                        |                 |
| Note: ESOPHAGUS PRESENT ON SLIDE 2       |               |                        |                 |
| Kidney                                   |               | Cyst                   |                 |
|  |               | Mineralization         | Mild            |
|  | Renal Tubule  | Regeneration           | Minimal         |
| Liver                                    |               | Hepatocellular Adenoma | Multiple, Three |
|  | Centrilobular | Necrosis               | Marked          |
| Note: MOST SEVERE NECROSIS ON SLIDE 22   |               |                        |                 |
| Note: [ HEPATOCLR ADEN ] TGLs = 21,22,23 |               |                        |                 |
| Thymus                                   |               | Depletion Cellular     | Moderate        |
| Urinary Bladder                          |               | Hemorrhage             | Mild            |
| Note: HEMORRHAGE TGLs = 3-8              |               |                        |                 |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 649 | <b>TRT#:</b> 13               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 733 |
|                       | <b>DOSE:</b> 0.00500%CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042617 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                  |            |           |                |          |
|------------------|------------|-----------|----------------|----------|
| Note: DILATATION | TGLs = 1-7 |           |                |          |
| Stomach          |            | Glandular | Cyst           |          |
|                  |            | Glandular | Mineralization | Minimal  |
| Thyroid Gland    |            | Follicle  | Cyst           |          |
| Tooth            |            |           | Dysplasia      | Moderate |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 650

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87042618

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    |
| Lymph Node - Mesenteric | Nose                      | Pancreas                 | Pituitary Gland            |
| Prostate                | Seminal Vesicle           | Skin                     | Spleen                     |
| Stomach - Forestomach   | Stomach - Glandular       | Testes                   | Thymus                     |
| Trachea                 | Urinary Bladder           |                          |                            |

**MISSING**

|               |                   |
|---------------|-------------------|
| Mammary Gland | Parathyroid Gland |
|---------------|-------------------|

**OBSERVATIONS**

|  |                |                        |                   |
|--|----------------|------------------------|-------------------|
| Brain  | Thalamus       | Mineralization         | Mild              |
| Kidney   |                | Mineralization         | Mild              |
|  | Renal Tubule   | Regeneration           | Mild              |
| Liver  |                | Basophilic Focus       |                   |
|  |                | Hepatocellular Adenoma | Multiple, Three   |
|  |                | Hyperplasia            | Focal, Mild       |
|  | Lobules        | Necrosis               | Marked            |
| Note: HYPERPLASIA TGLs = 3-23<br>Note: [ HEPATOCLR ADEN ] TGLs = 21,22,4 |                |                        |                   |
| Lung   |                | Hemorrhage             | Minimal           |
| Salivary Glands  |                | Hyperplasia            | Lymphoid, Minimal |
| Thyroid Gland  | Follicle       | Cyst                   |                   |
|  |                | Degeneration           | Cystic, Mild      |
|  | Follicular Cel | Hyperplasia            | Moderate          |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 656

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 458

**DOSE:** 0.00500%CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** A86037771

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**OBSERVATIONS**

Kidney

Renal Tubule

Dilatation

Minimal

Inflammation

Chronic, Mild

Mineralization

Minimal

Renal Tubule

Regeneration

Minimal

Note: [ MINERALIZATION ] TGLs = 5

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 657

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0.00500%CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** A86037772

---

**OBSERVATIONS**

Kidney

Renal Tubule

Dilatation

Minimal

Mineralization

Minimal

Renal Tubule

Regeneration

Moderate

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 658

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 457

**DOSE:** 0.00500%CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** A86037773

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**OBSERVATIONS**

Kidney

Renal Tubule

Casts Protein

Minimal

Dilatation

Mild

Mineralization

Minimal

Regeneration

Mild

Liver

Renal Tubule

Hepatocellular Carcinoma

Vacuolization Cytoplasmic

Mild

Hepatocyte

Note: HEPATOCLR CARC TGLs = 1-21

Lung

Alveolar/Bronchiolar Adenoma

Note: [ ALV BRON ADEN ] TGLs = 2

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 659

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0.00500%CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** A86037774

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**OBSERVATIONS**

Kidney

Renal Tubule

Atrophy

Mild

Renal Tubule

Dilatation

Minimal

Mineralization

Minimal

Renal Tubule

Regeneration

Mild

Lung

Alveolar/Bronchiolar Adenoma

Multiple, Two

Note: ALV BRON ADEN TGLs = 1-2,2-2

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 660

**TRT#:** 13

**SEX:** Male

**DAY ON TEST:** 457

**DOSE:** 0.00500%CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** A86037775

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**OBSERVATIONS**

Kidney

Renal Tubule

Dilatation

Minimal

Mineralization

Mild

Renal Tubule

Regeneration

Minimal

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 661

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042426

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Bone                       | Bone Marrow             | Epididymis                | Esophagus                |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   | Nose                     |
| Pancreas                   | Parathyroid Gland       | Pituitary Gland           | Prostate                 |
| Salivary Glands            | Seminal Vesicle         | Skin                      | Spleen                   |
| Stomach - Forestomach      | Stomach - Glandular     | Testes                    | Thymus                   |
| Thyroid Gland              | Trachea                 | Urinary Bladder           |                          |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                       |                 |                        |                 |
|---------------------------------------|-----------------|------------------------|-----------------|
| Adrenal Gland                         | Capsule, Cortex | Adenoma                |                 |
|                                       | Cortex          | Hyperplasia            | Focal, Moderate |
|                                       | Medulla         | Hyperplasia            | Focal, Mild     |
| Note: [ HYPERPLASIA ] TGLs = 10       |                 |                        |                 |
| Brain                                 | Thalamus        | Mineralization         | Minimal         |
| Gallbladder                           |                 | Dilatation             | Mild            |
| Kidney                                | Renal Tubule    | Atrophy                | Minimal         |
|                                       |                 | Cyst                   |                 |
|                                       |                 | Granuloma              | Minimal         |
|                                       | Renal Tubule    | Mineralization         | Moderate        |
|                                       |                 | Regeneration           | Mild            |
| Liver                                 |                 | Basophilic Focus       |                 |
|                                       |                 | Clear Cell Focus       |                 |
|                                       |                 | Hepatocellular Adenoma | Multiple, Two   |
|                                       |                 | Hyperplasia            | Focal, Mild     |
| Note: HYPERPLASIA TGLs = 2-22         |                 |                        |                 |
| Note: HEPATOCLR ADEN TGLs = 2-21,3-23 |                 |                        |                 |
| Note: [ BASOPH FOCUS ] TGLs = 23      |                 |                        |                 |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 661

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042426

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 662

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042427

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Nose                     | Pancreas                   | Parathyroid Gland       |
| Pituitary Gland           | Prostate                 | Seminal Vesicle            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Stomach - Glandular        | Testes                  |
| Thymus                    | Trachea                  | Urinary Bladder            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|               |              |                  |                |
|---------------|--------------|------------------|----------------|
| Adrenal Gland | Cortex       | Clear Cell Focus |                |
|               | Cortex       | Hyperplasia      | Focal, Mild    |
| Brain         | Thalamus     | Mineralization   | Minimal        |
| Kidney        |              | Casts Protein    | Minimal        |
|               | Renal Tubule | Dilatation       | Mild           |
|               |              | Hyperplasia      | Lymphoid, Mild |
|               |              | Mineralization   | Minimal        |
|               | Renal Tubule | Regeneration     | Mild           |

Note: THEY OFTEN CONTAIN AMPHOPHILIC FOLLICULAR MATERIAL AND  
Note: DILATED TUBULES ARE NEAR JUNCTION OF CORTEX AND MEDULLA;  
Note: POORLY DEFINED CONCRETIONS

Lung Alveolar/Bronchiolar Carcinoma

Note: ALV BRON CARC TGLs = 1-2

|                 |                |             |                |
|-----------------|----------------|-------------|----------------|
| Salivary Glands |                | Hyperplasia | Lymphoid, Mild |
| Thyroid Gland   | Follicle       | Cyst        |                |
|                 | Follicular Cel | Hyperplasia | Mild           |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 663

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042428

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Nose                       | Pancreas                |
| Parathyroid Gland         | Pituitary Gland          | Prostate                   | Salivary Glands         |
| Skin                      | Spleen                   | Stomach - Forestomach      | Stomach - Glandular     |
| Testes                    | Thymus                   | Thyroid Gland              | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                  |                           |                              |                  |
|----------------------------------|---------------------------|------------------------------|------------------|
| Adrenal Gland                    | Capsule, Cortex<br>Cortex | Adenoma<br>Hyperplasia       | Focal, Moderate  |
| Brain                            | Thalamus                  | Mineralization               | Mild             |
| Coagulating Gland                |                           | Dilatation                   | Moderate         |
| Note: DILATATION TGLs = 2-7      |                           |                              |                  |
| Islets, Pancreatic               |                           | Hyperplasia                  | Minimal          |
| Note: ISLETS PANC IS ON SLIDE 5  |                           |                              |                  |
| Kidney                           | Renal Tubule              | Cyst<br>Dilatation           | Minimal          |
|                                  | Renal Tubule              | Mineralization               | Moderate         |
| Liver                            |                           | Regeneration                 | Mild             |
| Note: CLEAR CL FOCUS TGLs = 4-21 |                           | Clear Cell Focus             |                  |
| Lung                             |                           | Inflammation                 | Chronic, Minimal |
| Note: ALV BRON ADEN TGLs = 3-2-1 |                           |                              |                  |
| Lymph Node                       | Mesenteric                | Alveolar/Bronchiolar Adenoma |                  |
| Pancreas                         |                           | Hemorrhage                   | Mild             |
| Note: PANCREAS IS ON SLIDE 5     |                           |                              |                  |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 663 | <b>TRT#:</b> 17               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 737 |
|                       | <b>DOSE:</b> 0.0275% CHLORINE | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042428 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|  |            |          |
|--|------------|----------|
| Seminal Vesicle<br>Note: DILATATION TGLs = 1-7 | Dilatation | Moderate |
| Tooth  | Dysplasia  | Moderate |

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 664

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 562

**DOSE:** 0.0275% CHLORINE

**DISP:** Natural Death

**HISTO:** A87042429

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex   | Adrenal Gland - Medulla    | Bone                    | Epididymis                |
| Esophagus                | Gallbladder                | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Liver                      | Lymph Node - Mandibular | Lymph Node - Mesenteric   |
| Nose                     | Pancreas                   | Parathyroid Gland       | Pituitary Gland           |
| Prostate                 | Salivary Glands            | Skin                    | Stomach - Forestomach     |
| Stomach - Glandular      | Testes                     | Thyroid Gland           | Trachea                   |
| Urinary Bladder          |                            |                         |                           |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                      |                 |                                  |                              |
|----------------------|-----------------|----------------------------------|------------------------------|
| Bone Marrow          |                 | Hypercellularity                 | Moderate                     |
| Brain                | Thalamus        | Mineralization                   | Minimal                      |
| Heart                | Epicardium      | Inflammation                     | Chronic, Mild                |
| Kidney               |                 | Cyst                             |                              |
|                      |                 | Mineralization                   | Minimal                      |
|                      | Renal Tubule    | Regeneration                     | Minimal                      |
| Lung                 |                 | Squamous Cell Carcinoma          | Metastatic (Preputial Gland) |
| Note: SQUAM CEL CARC | TGLs = 6-2      |                                  |                              |
| Lymph Node           | Mediastinal     | Squamous Cell Carcinoma          | Metastatic (Preputial Gland) |
| Note: SQUAM CEL CARC | TGLs = 7-2,5-22 |                                  |                              |
| Preputial Gland      |                 | Squamous Cell Carcinoma          |                              |
| Note: SQUAM CEL CARC | TGLs = 1-21     |                                  |                              |
| Seminal Vesicle      |                 | Fibrosis                         | Mild                         |
| Note: FIBROSIS       | TGLs = 2-7      |                                  |                              |
| Skeletal Muscle      |                 | Squamous Cell Carcinoma          | Metastatic (Preputial Gland) |
| Note: SQUAM CEL CARC | TGLs = 8-23     |                                  |                              |
| Spleen               |                 | Hematopoietic Cell Proliferation | Moderate                     |
| Note: HEMA CELL PROL | TGLs = 3-6      |                                  |                              |
| Thymus               |                 | Depletion Cellular               | Moderate                     |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 664

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 562

**DOSE:** 0.0275% CHLORINE

**DISP:** Natural Death

**HISTO:** A87042429

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 665

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 0.0275% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042430

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                         |                          |                            |
|-------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus               | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Islets, Pancreatic      | Lymph Node - Mandibular  | Pancreas                   |
| Parathyroid Gland       | Pituitary Gland         | Prostate                 | Seminal Vesicle            |
| Stomach - Forestomach   | Stomach - Glandular     | Testes                   | Thymus                     |
| Trachea                 | Urinary Bladder         |                          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                 |                |                                  |                    |
|---------------------------------|----------------|----------------------------------|--------------------|
| Brain                           | Thalamus       | Mineralization                   | Minimal            |
| Intestine Small                 | Jejunum        | Carcinoma                        |                    |
| Note: CARCINOMA TGLs = 4-21     |                |                                  |                    |
| Kidney                          |                | Granuloma                        | Minimal            |
|                                 |                | Hyperplasia                      | Lymphoid, Mild     |
|                                 | Renal Tubule   | Regeneration                     | Mild               |
| Liver                           |                | Clear Cell Focus                 |                    |
|                                 |                | Hyperplasia                      | Focal, Moderate    |
| Note: HYPERPLASIA TGLs = 5-22   |                |                                  |                    |
| Lung                            | Alveolar Epith | Hyperplasia                      | Moderate           |
| Lymph Node                      | Mesenteric     | Hyperplasia                      | Lymphoid, Moderate |
| Nose                            | Glands         | Hyperplasia                      | Cystic, Minimal    |
| Preputial Gland                 |                | Ectasia                          | Mild               |
|                                 |                | Inflammation                     | Chronic, Moderate  |
| Note: INFLAMMATION TGLs = 6-8   |                |                                  |                    |
| Salivary Glands                 |                | Hyperplasia                      | Lymphoid, Mild     |
| Skin                            | Fat            | Necrosis                         | Mild               |
| Note: [ NECROSIS ] TGLs = 8     |                |                                  |                    |
| Spleen                          |                | Hematopoietic Cell Proliferation | Moderate           |
| Note: HEMA CELL PROL TGLs = 1-6 |                |                                  |                    |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 665

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 0.0275% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042430

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Thyroid Gland

Degeneration

Cystic, Mild

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 666

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042431

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                         |
|--------------------------|----------------------------|-------------------------|-------------------------|
| Bone                     | Bone Marrow                | Epididymis              | Esophagus               |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Lymph Node - Mandibular |
| Mammary Gland            | Nose                       | Parathyroid Gland       | Pituitary Gland         |
| Prostate                 | Skin                       | Stomach - Forestomach   | Stomach - Glandular     |
| Testes                   | Trachea                    |                         |                         |

**OBSERVATIONS**

|                                    |                |                                   |                   |
|------------------------------------|----------------|-----------------------------------|-------------------|
| Adrenal Gland                      | Cortex         | Accessory Adrenal Cortical Nodule |                   |
|                                    | Cortex         | Clear Cell Focus                  |                   |
|                                    | Medulla        | Hyperplasia                       | Mild              |
| Brain                              | Thalamus       | Mineralization                    | Mild              |
| Intestine Small                    | Jejunum        | Lymphoma Malignant Mixed          |                   |
| Note: LYMPH MAL MIXD TGLs = 7-24   |                |                                   |                   |
| Islets, Pancreatic                 |                | Hyperplasia                       | Mild              |
| Kidney                             | Renal Tubule   | Adenoma                           |                   |
|                                    |                | Casts Protein                     | Minimal           |
|                                    |                | Hyperplasia                       | Lymphoid, Minimal |
|                                    |                | Mineralization                    | Minimal           |
|                                    | Renal Tubule   | Regeneration                      | Mild              |
| Note: ADENOMA IS IN AN EARLY STAGE |                |                                   |                   |
| Liver                              |                | Clear Cell Focus                  |                   |
|                                    |                | Hepatocellular Carcinoma          |                   |
| Note: CLEAR CL FOCUS TGLs = 8-25   |                |                                   |                   |
| Note: HEPATOCLR CARC TGLs = 5-23   |                |                                   |                   |
| Lung                               | Alveolar Epith | Hyperplasia                       | Minimal           |
| Lymph Node                         | Mesenteric     | Hemorrhage                        | Mild              |
|                                    | Mesenteric     | Lymphoma Malignant Mixed          |                   |
|                                    | Pancreatic     | Lymphoma Malignant Mixed          |                   |
| Note: LYMPH MAL MIXD TGLs = 6-5    |                |                                   |                   |
| Pancreas                           |                | Atrophy                           | Mild              |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 666

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042431

**ORGAN AND ACCOUNTABLE SITE STATUS**

Preputial Gland

Ectasia

Marked

Inflammation

Chronic, Mild

Note: ECTASIA TGLs = 1-21,2-22

Salivary Glands

Hyperplasia

Lymphoid, Minimal

Seminal Vesicle

Dilatation

Moderate

Note: DILATATION TGLs = 3-7

Spleen

Hematopoietic Cell Proliferation

Mild

Lymphoma Malignant Mixed

Note: HEMA CELL PROL TGLs = 4-6

Note: LYMPH MAL MIXD TGLs = 4-6

Thymus

Cyst

Thyroid Gland

Degeneration

Cystic, Minimal

Urinary Bladder

Hyperplasia

Lymphoid, Mild

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 667

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 731

**DOSE:** 0.0275% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042432

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Lymph Node - Mandibular  | Pancreas                   | Pituitary Gland         | Prostate                  |
| Skin                     | Spleen                     | Stomach - Forestomach   | Stomach - Glandular       |
| Thymus                   | Thyroid Gland              | Trachea                 | Urinary Bladder           |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                      |                 |                              |                 |
|----------------------|-----------------|------------------------------|-----------------|
| Adrenal Gland        | Capsule, Cortex | Hyperplasia                  | Mild            |
|                      | Cortex          | Hyperplasia                  | Focal, Mild     |
| Brain                | Thalamus        | Mineralization               | Minimal         |
| Coagulating Gland    |                 | Dilatation                   | Marked          |
| Note: DILATATION     | TGLs = 3-7-1    |                              |                 |
| Epididymis           |                 | Atypia Cellular              |                 |
| Islets, Pancreatic   |                 | Hyperplasia                  | Marked          |
| Kidney               |                 | Casts Protein                | Minimal         |
|                      |                 | Cyst                         |                 |
|                      | Renal Tubule    | Dilatation                   | Minimal         |
|                      |                 | Mineralization               | Moderate        |
|                      | Renal Tubule    | Regeneration                 | Moderate        |
| Liver                |                 | Basophilic Focus             |                 |
|                      |                 | Hepatocellular Adenoma       |                 |
|                      |                 | Hyperplasia                  | Focal, Mild     |
| Note: HYPERPLASIA    | TGLs = 6-22     |                              |                 |
| Note: HEPATOCLR ADEN | TGLs = 4-21     |                              |                 |
| Lung                 |                 | Alveolar/Bronchiolar Adenoma |                 |
| Note: ALV BRON ADEN  | TGLs = 5-2-1    |                              |                 |
| Lymph Node           | Mesenteric      | Hemorrhage                   | Minimal         |
| Nose                 | Glands          | Hyperplasia                  | Cystic, Minimal |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 667 | <b>TRT#:</b> 17               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 731 |
|                       | <b>DOSE:</b> 0.0275% CHLORINE | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87042432 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                   |             |             |                   |
|-------------------|-------------|-------------|-------------------|
| Parathyroid Gland |             | Cyst        |                   |
| Salivary Glands   |             | Hyperplasia | Lymphoid, Minimal |
| Seminal Vesicle   |             | Dilatation  | Marked            |
| Note: DILATATION  | TGLs = 1-7  |             |                   |
| Testes            | Seminif Tub | Atrophy     | Mild              |
| Tooth             |             | Dysplasia   | Mild              |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 668

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042433

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Brain                     | Esophagus                | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Nose                    |
| Pancreas                  | Pituitary Gland          | Prostate                   | Seminal Vesicle         |
| Skin                      | Spleen                   | Stomach - Forestomach      | Stomach - Glandular     |
| Testes                    | Thymus                   | Thyroid Gland              | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**MISSING**

|               |                   |
|---------------|-------------------|
| Mammary Gland | Parathyroid Gland |
|---------------|-------------------|

**INSUFFICIENT TISSUE**

Gallbladder

**OBSERVATIONS**

|                                  |              |                                |                    |
|----------------------------------|--------------|--------------------------------|--------------------|
| Epididymis                       |              | Inflammation                   | Chronic, Moderate  |
| Islets, Pancreatic               |              | Hyperplasia                    | Minimal            |
| Kidney                           | Renal Tubule | Atrophy                        | Minimal            |
|                                  |              | Casts Protein                  | Minimal            |
|                                  |              | Cyst                           |                    |
|                                  |              | Hyperplasia                    | Lymphoid, Minimal  |
|                                  |              | Mineralization                 | Minimal            |
|                                  | Renal Tubule | Regeneration                   | Mild               |
| Liver                            |              | Eosinophilic Focus             |                    |
|                                  |              | Hepatocellular Adenoma         |                    |
| Note: HEPATOCLR ADEN TGLs = 2-22 |              |                                |                    |
| Lung                             |              | Alveolar/Bronchiolar Carcinoma |                    |
|                                  |              | Infiltration Cellular          | Histiocyte, Marked |
| Note: [ ALV BRON CARC ] TGLs = 2 |              |                                |                    |
| Mesentery                        | Fat          | Necrosis                       | Marked             |
| Note: NECROSIS TGLs = 1-21       |              |                                |                    |
| Salivary Glands                  |              | Hyperplasia                    | Lymphoid, Mild     |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 668

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042433

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 669

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 691

**DOSE:** 0.0275% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042434

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Salivary Glands          | Seminal Vesicle            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Testes                     | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                      |                       |                          |                 |
|----------------------|-----------------------|--------------------------|-----------------|
| Adrenal Gland        | Cortex                | Hyperplasia              | Focal, Minimal  |
| Brain                | Thalamus              | Mineralization           | Mild            |
| Islets, Pancreatic   |                       | Hyperplasia              | Minimal         |
| Kidney               | Renal Tubule          | Atrophy                  | Mild            |
|                      |                       | Casts Protein            | Mild            |
|                      |                       | Cyst                     |                 |
|                      | Renal Tubule          | Regeneration             | Moderate        |
| Liver                |                       | Hepatocellular Carcinoma | Multiple, Three |
| Note: HEPATOCLR CARC | TGLs = 2-22,3-23,4-24 |                          |                 |
| Preputial Gland      |                       | Ectasia                  | Marked          |
| Note: ECTASIA        | TGLs = 1-21           |                          |                 |
| Stomach              | Glandular             | Cyst                     |                 |
| Thymus               |                       | Cyst                     |                 |
|                      |                       | Depletion Cellular       | Moderate        |
| Thyroid Gland        |                       | Degeneration             | Cystic, Minimal |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 670

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042435

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Nose                     | Parathyroid Gland          | Prostate                |
| Seminal Vesicle           | Skin                     | Spleen                     | Stomach - Forestomach   |
| Stomach - Glandular       | Testes                   | Thyroid Gland              | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                  |                 |                  |                   |
|----------------------------------|-----------------|------------------|-------------------|
| Adrenal Gland                    | Capsule, Cortex | Hyperplasia      | Mild              |
|                                  | Cortex          | Hyperplasia      | Focal, Minimal    |
| Brain                            | Thalamus        | Mineralization   | Mild              |
| Kidney                           |                 | Cyst             |                   |
|                                  | Renal Tubule    | Dilatation       | Mild              |
|                                  |                 | Hydronephrosis   | Mild              |
|                                  | Renal Tubule    | Hyperplasia      | Focal, Moderate   |
|                                  |                 | Hyperplasia      | Lymphoid, Minimal |
|                                  |                 | Mineralization   | Mild              |
|                                  | Renal Tubule    | Regeneration     | Moderate          |
| Liver                            |                 | Clear Cell Focus |                   |
| Note: CLEAR CL FOCUS TGLs = 1-21 |                 |                  |                   |
| Pancreas                         |                 | Atrophy          | Minimal           |
| Pituitary Gland                  | Pars Distalis   | Cyst             |                   |
| Salivary Glands                  |                 | Hyperplasia      | Lymphoid, Minimal |
| Thymus                           |                 | Cyst             |                   |
| Tooth                            |                 | Dysplasia        | Mild              |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 671

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042436

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Liver                    | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Salivary Glands          | Seminal Vesicle            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Stomach - Glandular        | Testes                  |
| Trachea                   |                          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                         |              |                                |                    |
|-------------------------|--------------|--------------------------------|--------------------|
| Adrenal Gland           | Cortex       | Hyperplasia                    | Focal, Moderate    |
| Brain                   | Thalamus     | Mineralization                 | Minimal            |
| Islets, Pancreatic      |              | Hyperplasia                    | Mild               |
| Kidney                  | Renal Tubule | Dilatation                     | Minimal            |
|                         |              | Mineralization                 | Mild               |
|                         | Renal Tubule | Regeneration                   | Mild               |
| Lung                    |              | Alveolar/Bronchiolar Adenoma   |                    |
|                         |              | Alveolar/Bronchiolar Carcinoma |                    |
|                         |              | Hemorrhage                     | Mild               |
|                         |              | Infiltration Cellular          | Histiocyte, Marked |
| Note: [ ALV BRON CARC ] | TGLs = 2     |                                |                    |
| Thymus                  |              | Cyst                           |                    |
| Thyroid Gland           |              | Degeneration                   | Cystic, Minimal    |
| Urinary Bladder         |              | Dilatation                     | Moderate           |

Note: DILATATION TGLs = 3-8

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 672

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 721

**DOSE:** 0.0275% CHLORINE

**DISP:** Natural Death

**HISTO:** A87042437

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mesenteric  | Nose                       | Pancreas                |
| Pituitary Gland           | Prostate                 | Salivary Glands            | Skin                    |
| Testes                    | Thymus                   | Thyroid Gland              | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**MISSING**

|                         |               |                   |                       |
|-------------------------|---------------|-------------------|-----------------------|
| Lymph Node - Mandibular | Mammary Gland | Parathyroid Gland | Stomach - Forestomach |
| Stomach - Glandular     |               |                   |                       |

**OBSERVATIONS**

|  |              |   |                             |
|--|--------------|---|-----------------------------|
| Adrenal Gland<br>Note: PHEOCHROM MAL TGLs = 2-21                                     | Medulla      | Pheochromocytoma Malignant                    |                             |
| Brain<br>Islets, Pancreatic<br>Kidney  | Thalamus     | Mineralization<br>Hyperplasia<br>Cyst         | Mild<br>Moderate            |
|  | Renal Tubule | Mineralization<br>Regeneration<br>Hyperplasia | Mild<br>Mild                |
| Liver<br>Lung<br><br>Note: ALV BRON ADEN TGLs = 4-2-1<br>Note: CONGESTION TGLs = 3-2 |              | Alveolar/Bronchiolar Adenoma<br>Congestion    | Focal, Moderate<br>Moderate |
| Seminal Vesicle<br>Note: DILATATION TGLs = 1-7                                       |              | Dilatation                                    | Mild                        |
| Spleen   |              | Angiectasis                                   | Moderate                    |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 673

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 738

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042438

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      |
| Lymph Node - Mandibular | Lymph Node - Mesenteric   | Nose                     | Pancreas                   |
| Parathyroid Gland       | Pituitary Gland           | Prostate                 | Salivary Glands            |
| Seminal Vesicle         | Skin                      | Spleen                   | Stomach - Forestomach      |
| Stomach - Glandular     | Testes                    | Thyroid Gland            | Trachea                    |
| Urinary Bladder         |                           |                          |                            |

**MISSING**

|               |        |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

**OBSERVATIONS**

|                         |              |                                |         |
|-------------------------|--------------|--------------------------------|---------|
| Brain                   | Thalamus     | Mineralization                 | Minimal |
| Kidney                  | Renal Tubule | Dilatation                     | Minimal |
|                         |              | Mineralization                 | Mild    |
|                         | Renal Tubule | Regeneration                   | Mild    |
| Lung                    |              | Alveolar/Bronchiolar Adenoma   |         |
|                         |              | Alveolar/Bronchiolar Carcinoma |         |
| Note: [ ALV BRON ADEN ] | TGLs = 2     |                                |         |
| Note: [ ALV BRON CARC ] | TGLs = 2     |                                |         |
| Preputial Gland         |              | Ectasia                        | Mild    |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 674

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 738

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042439

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Medulla | Bone                      | Bone Marrow              | Brain                      |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    |
| Lymph Node - Mesenteric | Nose                      | Pancreas                 | Parathyroid Gland          |
| Pituitary Gland         | Prostate                  | Salivary Glands          | Seminal Vesicle            |
| Skin                    | Spleen                    | Stomach - Forestomach    | Stomach - Glandular        |
| Testes                  | Thymus                    | Thyroid Gland            | Trachea                    |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                  |                 |                              |                   |
|----------------------------------|-----------------|------------------------------|-------------------|
| Adrenal Gland                    | Capsule, Cortex | Hyperplasia                  | Mild              |
| Kidney                           |                 | Cyst                         |                   |
|                                  |                 | Mineralization               | Mild              |
|                                  | Renal Tubule    | Regeneration                 | Mild              |
| Liver                            |                 | Hepatocellular Adenoma       |                   |
| Lung                             |                 | Alveolar/Bronchiolar Adenoma |                   |
| Note: ALV BRON ADEN TGLs = 1-2-1 |                 |                              |                   |
| Urinary Bladder                  |                 | Hyperplasia                  | Lymphoid, Minimal |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 675      **TRT#:** 17      **SEX:** Male      **DAY ON TEST:** 691  
**DOSE:** 0.0275% CHLORINE      **DISP:** Moribund Sacrifice      **HISTO:** A87042440

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                         |                          |                            |
|---------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Medulla   | Bone                    | Bone Marrow              | Brain                      |
| Epididymis                | Esophagus               | Gallbladder              | Heart                      |
| Intestine Large - Cecum   | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Jejunum | Islets, Pancreatic      | Lung                     | Lymph Node - Mesenteric    |
| Nose                      | Pancreas                | Pituitary Gland          | Prostate                   |
| Salivary Glands           | Seminal Vesicle         | Skin                     | Stomach - Forestomach      |
| Stomach - Glandular       | Testes                  | Thymus                   | Trachea                    |
| Urinary Bladder           |                         |                          |                            |

**MISSING**

Lymph Node - Mandibular      Mammary Gland

**OBSERVATIONS**

|  |                |                                  |                   |
|--|----------------|----------------------------------|-------------------|
| Adrenal Gland                              | Cortex         | Clear Cell Focus                 |                   |
| Intestine Small                            | Ileum          | Carcinoma                        |                   |
| Note: CARCINOMA      TGLs = 1-21           |                |                                  |                   |
| Kidney                                     |                | Cyst                             |                   |
|  |                | Hyperplasia                      | Lymphoid, Minimal |
|  | Renal Tubule   | Regeneration                     | Minimal           |
| Liver                                      |                | Hepatocellular Carcinoma         | Multiple, Two     |
| Note: HEPATOCLR CARC      TGLs = 2-22,3-23 |                |                                  |                   |
| Parathyroid Gland                          |                | Cyst                             |                   |
| Spleen                                     |                | Hematopoietic Cell Proliferation | Moderate          |
| Thyroid Gland                              | Follicle       | Cyst                             |                   |
|  | Follicular Cel | Hyperplasia                      | Minimal           |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 676 | <b>TRT#:</b> 17               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 565 |
|                       | <b>DOSE:</b> 0.0275% CHLORINE | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87042441 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Medulla | Bone                      | Bone Marrow              | Brain                      |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    |
| Lymph Node - Mesenteric | Nose                      | Pancreas                 | Parathyroid Gland          |
| Pituitary Gland         | Prostate                  | Seminal Vesicle          | Skin                       |
| Stomach - Forestomach   | Stomach - Glandular       | Testes                   | Thymus                     |
| Thyroid Gland           | Trachea                   | Urinary Bladder          |                            |

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

|   |                |                                   |                   |
|---|----------------|-----------------------------------|-------------------|
| Adrenal Gland   | Cortex         | Accessory Adrenal Cortical Nodule |                   |
| Kidney  | Renal Tubule   | Regeneration                      | Minimal           |
| Liver   |                | Hepatocellular Adenoma            | Multiple, Three   |
|   |                | Hepatocellular Carcinoma          | Multiple, Three   |
| Note: HEPATOCLR ADEN TGLs = 4-24,5-25,6-26                      |                |                                   |                   |
| Note: BASOPHILIC CELLS  |                |                                   |                   |
| Note: HEPATOCELLULAR CARCINOMAS CONTAIN NUMEROUS SPINDLE SHAPED |                |                                   |                   |
| Note: HEPATOCLR CARC TGLs = 1-21,2-22,3-23                      |                |                                   |                   |
| Lung  |                | Alveolar/Bronchiolar Adenoma      |                   |
|   | Alveolar Epith | Hyperplasia                       | Minimal           |
| [ Alveolar/Bronchiolar Adenoma TGLS = 7-2-1 ]                   |                |                                   |                   |
| Salivary Glands   |                | Hyperplasia                       | Lymphoid, Minimal |
| Spleen  | Red Pulp       | Hyperplasia                       | Moderate          |

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 677

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 485

**DOSE:** 0.0275% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A86042442

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       |
| Lymph Node - Mandibular | Lymph Node - Mesenteric   | Nose                     | Pancreas                   |
| Parathyroid Gland       | Pituitary Gland           | Prostate                 | Salivary Glands            |
| Seminal Vesicle         | Skin                      | Spleen                   | Stomach - Forestomach      |
| Stomach - Glandular     | Testes                    | Thyroid Gland            | Trachea                    |
| Urinary Bladder         |                           |                          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                       |              |                          |                   |
|---------------------------------------|--------------|--------------------------|-------------------|
| Brain                                 | Thalamus     | Mineralization           | Minimal           |
| Kidney                                |              | Casts Protein            | Moderate          |
|                                       |              | Hyperplasia              | Lymphoid, Minimal |
|                                       | Renal Tubule | Regeneration             | Marked            |
| Liver                                 |              | Hepatocellular Adenoma   |                   |
|                                       |              | Hepatocellular Carcinoma | Multiple, Two     |
| Note: [ HEPATOCLR CARC ] TGLs = 21,23 |              |                          |                   |
| Note: [ HEPATOCLR ADEN ] TGLs = 22    |              |                          |                   |
| Thymus                                |              | Depletion Cellular       | Moderate          |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 678

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 738

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042443

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Pancreas                  | Parathyroid Gland        | Prostate                   | Salivary Glands         |
| Seminal Vesicle           | Skin                     | Spleen                     | Stomach - Forestomach   |
| Stomach - Glandular       | Testes                   | Thymus                     | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                               |                |                                   |                   |
|-------------------------------|----------------|-----------------------------------|-------------------|
| Adrenal Gland                 | Cortex         | Accessory Adrenal Cortical Nodule |                   |
| Brain                         | Thalamus       | Mineralization                    | Mild              |
| Kidney                        | Renal Tubule   | Carcinoma                         |                   |
|                               |                | Cyst                              |                   |
|                               |                | Hyperplasia                       | Lymphoid, Minimal |
|                               |                | Mineralization                    | Mild              |
|                               | Renal Tubule   | Regeneration                      | Mild              |
| Note: [ CARCINOMA ] TGLs = 21 |                |                                   |                   |
| Liver                         |                | Hyperplasia                       | Focal, Moderate   |
| Note: HYPERPLASIA TGLs = 2-22 |                |                                   |                   |
| Lung                          | Alveolar Epith | Hyperplasia                       | Mild              |
| Nose                          |                | Exudate                           |                   |
|                               | Glands         | Hyperplasia                       | Cystic, Minimal   |
| Pituitary Gland               | Pars Distalis  | Hyperplasia                       | Minimal           |
| Thyroid Gland                 | Follicle       | Cyst                              |                   |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 679

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042444

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Nose                      | Parathyroid Gland        | Pituitary Gland            | Prostate                |
| Salivary Glands           | Seminal Vesicle          | Skin                       | Stomach - Forestomach   |
| Testes                    | Thymus                   | Thyroid Gland              | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|               |                 |                        |                |
|---------------|-----------------|------------------------|----------------|
| Adrenal Gland | Cortex          | Clear Cell Focus       |                |
|               | Capsule, Cortex | Hyperplasia            | Moderate       |
|               | Cortex          | Hyperplasia            | Focal, Minimal |
| Brain         | Thalamus        | Mineralization         | Mild           |
| Kidney        |                 | Cyst                   |                |
|               |                 | Mineralization         | Moderate       |
|               | Renal Tubule    | Regeneration           | Moderate       |
| Liver         |                 | Hepatocellular Adenoma |                |
| Lymph Node    | Mesenteric      | Hemorrhage             | Minimal        |
|               | Mesenteric      | Hyperplasia            | Lymphoid, Mild |
| Pancreas      |                 | Focal Cellular Change  |                |
| Spleen        |                 | Angiectasis            | Mild           |
| Stomach       | Glandular       | Inflammation           | Subacute, Mild |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 680

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 683

**DOSE:** 0.0275% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042445

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    |
| Lymph Node - Mesenteric | Nose                      | Pancreas                 | Parathyroid Gland          |
| Pituitary Gland         | Prostate                  | Salivary Glands          | Seminal Vesicle            |
| Skin                    | Stomach - Forestomach     | Stomach - Glandular      | Testes                     |
| Thyroid Gland           | Trachea                   |                          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                    |              |                                  |                   |
|------------------------------------|--------------|----------------------------------|-------------------|
| Adrenal Gland                      |              |                                  |                   |
| Note: ONE ADRENAL GLAND ON SLIDE 5 |              |                                  |                   |
| Brain                              | Thalamus     | Mineralization                   | Minimal           |
| Kidney                             | Renal Tubule | Atrophy                          | Moderate          |
|                                    | Renal Tubule | Dilatation                       | Moderate          |
| Liver                              | Renal Tubule | Glomerulosclerosis               | Minimal           |
|                                    |              | Hyperplasia                      | Lymphoid, Mild    |
|                                    |              | Regeneration                     | Moderate          |
|                                    |              | Hepatocellular Adenoma           |                   |
|                                    |              | Hepatocellular Carcinoma         |                   |
|                                    |              | Hyperplasia                      | Focal, Moderate   |
| Note: HEPATOCLR CARC TGLs = 2-22   |              |                                  |                   |
| Note: HEPATOCLR ADEN TGLs = 1-21   |              |                                  |                   |
| Lung                               |              | Alveolar/Bronchiolar Adenoma     |                   |
| Note: ALV BRON ADEN TGLs = 3-2-1   |              |                                  |                   |
| Spleen                             |              | Hematopoietic Cell Proliferation | Minimal           |
| Thymus                             |              | Depletion Cellular               | Mild              |
| Urinary Bladder                    |              | Hyperplasia                      | Lymphoid, Minimal |

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 680

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 683

**DOSE:** 0.0275% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042445

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 681

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042446

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Nose                     | Pancreas                   | Parathyroid Gland       |
| Pituitary Gland           | Prostate                 | Seminal Vesicle            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Stomach - Glandular        | Testes                  |
| Thyroid Gland             | Trachea                  | Urinary Bladder            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                            |                       |                        |                   |
|----------------------------|-----------------------|------------------------|-------------------|
| Bone                       |                       | Hyperostosis           |                   |
| Note: HYPEROSTOSIS         | TGLs = 5-24           |                        |                   |
| Brain                      | Thalamus              | Mineralization         | Mild              |
| Kidney                     | Renal Tubule          | Dilatation             | Minimal           |
|                            |                       | Mineralization         | Minimal           |
|                            | Renal Tubule          | Regeneration           | Mild              |
| Liver                      |                       | Hepatocellular Adenoma | Multiple, Three   |
| Note: HEPATOCLR ADEN       | TGLs = 1-21,2-22,3-23 |                        |                   |
| Lymph Node                 |                       |                        |                   |
| Note: BRONCHIAL IS MISSING |                       |                        |                   |
| Salivary Glands            |                       | Hyperplasia            | Lymphoid, Minimal |
| Thymus                     |                       | Cyst                   |                   |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 682

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 688

**DOSE:** 0.0275% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042447

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Epididymis                |
| Esophagus                | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular | Nose                      |
| Pancreas                 | Parathyroid Gland          | Prostate                | Seminal Vesicle           |
| Skin                     | Stomach - Forestomach      | Stomach - Glandular     | Thymus                    |
| Trachea                  |                            |                         |                           |

**MISSING**

Mammary Gland

**INSUFFICIENT TISSUE**

Gallbladder

**OBSERVATIONS**

|                      |               |                          |                   |
|----------------------|---------------|--------------------------|-------------------|
| Adrenal Gland        | Cortex        | Clear Cell Focus         |                   |
|                      | Cortex        | Hyperplasia              | Focal, Mild       |
| Brain                | Thalamus      | Mineralization           | Minimal           |
| Kidney               | Renal Tubule  | Atrophy                  | Minimal           |
|                      |               | Cyst                     |                   |
|                      |               | Hyperplasia              | Lymphoid, Minimal |
|                      | Renal Tubule  | Regeneration             | Minimal           |
| Liver                |               | Clear Cell Focus         |                   |
|                      | Bile Duct     | Cyst                     |                   |
|                      |               | Hepatocellular Adenoma   |                   |
|                      |               | Hepatocellular Carcinoma |                   |
|                      |               | Hyperplasia              | Focal, Mild       |
| Note: HEPATOCLR CARC | TGLs = 3-23   |                          |                   |
| Note: HEPATOCLR ADEN | TGLs = 1-21   |                          |                   |
| Note: CYST           | TGLs = 2-22   |                          |                   |
| Lymph Node           | Mesenteric    | Hemorrhage               | Minimal           |
| Pituitary Gland      | Pars Distalis | Hyperplasia              | Mild              |
| Salivary Glands      |               | Hyperplasia              | Lymphoid, Minimal |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 682 | <b>TRT#:</b> 17               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 688 |
|                       | <b>DOSE:</b> 0.0275% CHLORINE | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87042447 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                 |                |                                  |                |
|-----------------|----------------|----------------------------------|----------------|
| Spleen          |                | Hematopoietic Cell Proliferation | Mild           |
| Testes          | Interstit Cell | Hyperplasia                      | Moderate       |
| Thyroid Gland   | Follicular Cel | Hyperplasia                      | Minimal        |
| Urinary Bladder |                | Hyperplasia                      | Lymphoid, Mild |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 683

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 675

**DOSE:** 0.0275% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042448

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                         |                            |
|-------------------------|---------------------------|-------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                    | Bone Marrow                |
| Brain                   | Epididymis                | Esophagus               | Gallbladder                |
| Heart                   | Intestine Large - Cecum   | Intestine Large - Colon | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lymph Node - Mandibular | Nose                       |
| Parathyroid Gland       | Pituitary Gland           | Prostate                | Salivary Glands            |
| Seminal Vesicle         | Skin                      | Stomach - Forestomach   | Thyroid Gland              |
| Trachea                 | Urinary Bladder           |                         |                            |

**MISSING**

|                          |               |
|--------------------------|---------------|
| Intestine Large - Rectum | Mammary Gland |
|--------------------------|---------------|

**OBSERVATIONS**

|                       |                    |                                  |                              |
|-----------------------|--------------------|----------------------------------|------------------------------|
| Harderian Gland       |                    | Carcinoma                        |                              |
| Note: CARCINOMA       | TGLs = 5-22        |                                  |                              |
| Islets, Pancreatic    |                    | Hyperplasia                      | Minimal                      |
| Kidney                |                    | Cyst                             |                              |
|                       | Renal Tubule       | Hyperplasia                      | Focal, Mild                  |
|                       | Renal Tubule       | Regeneration                     | Minimal                      |
| Note: [ HYPERPLASIA ] | TGLs = 5           |                                  |                              |
| Liver                 |                    | Hepatocellular Carcinoma         |                              |
| Note: HEPATOCLR CARC  | TGLs = 2-21        |                                  |                              |
| Lung                  |                    | Carcinoma                        | Metastatic (Harderian Gland) |
|                       |                    | Congestion                       | Moderate                     |
|                       |                    | Infiltration Cellular            | Histiocyte, Mild             |
| Note: CARCINOMA       | TGLs = 3-2-1,4-2-1 |                                  |                              |
| Lymph Node            | Mesenteric         | Hemorrhage                       | Moderate                     |
| Pancreas              |                    | Cytoplasmic Alteration           | Moderate                     |
| Spleen                |                    | Hematopoietic Cell Proliferation | Mild                         |
| Stomach               | Glandular          | Cyst                             |                              |
| Testes                | Seminif Tub        | Atrophy                          | Minimal                      |
| Thymus                |                    | Depletion Cellular               | Mild                         |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 683

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 675

**DOSE:** 0.0275% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042448

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 684

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 358

**DOSE:** 0.0275% CHLORINE

**DISP:** Natural Death

**HISTO:** A86037782

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    |
| Lymph Node - Mesenteric | Nose                      | Pancreas                 | Parathyroid Gland          |
| Pituitary Gland         | Prostate                  | Salivary Glands          | Seminal Vesicle            |
| Skin                    | Spleen                    | Stomach - Forestomach    | Stomach - Glandular        |
| Testes                  | Thymus                    | Thyroid Gland            | Trachea                    |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                      |               |                          |          |
|----------------------|---------------|--------------------------|----------|
| Blood Vessel         |               | Hemangioma               |          |
| Note: HEMANGIOMA     | TGLs = 4-22   |                          |          |
| Brain                | Thalamus      | Mineralization           | Mild     |
| Kidney               | Renal Tubule  | Dilatation               | Minimal  |
|                      |               | Mineralization           | Minimal  |
| Liver                |               | Hepatocellular Carcinoma |          |
|                      | Centrilobular | Necrosis                 | Marked   |
| Note: HEPATOCLR CARC | TGLs = 2-21   |                          |          |
| Lung                 |               | Congestion               | Mild     |
| Lymph Node           | Mediastinal   | Hemorrhage               | Moderate |
| Note: HEMORRHAGE     | TGLs = 3-2    |                          |          |
| Urinary Bladder      | Mucosa        | Hyperplasia              | Mild     |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 685

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 684

**DOSE:** 0.0275% CHLORINE

**DISP:** Natural Death

**HISTO:** A87042449

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Epididymis                |
| Esophagus                | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Nose                    | Pancreas                  |
| Parathyroid Gland        | Pituitary Gland            | Prostate                | Salivary Glands           |
| Seminal Vesicle          | Skin                       | Stomach - Forestomach   | Stomach - Glandular       |
| Testes                   | Thymus                     | Thyroid Gland           | Trachea                   |
| Urinary Bladder          |                            |                         |                           |

**MISSING**

Mammary Gland

**INSUFFICIENT TISSUE**

Gallbladder

**OBSERVATIONS**

|                          |              |                          |                    |
|--------------------------|--------------|--------------------------|--------------------|
| Adrenal Gland            | Cortex       | Hyperplasia              | Focal, Mild        |
| Brain                    | Thalamus     | Mineralization           | Minimal            |
| Islets, Pancreatic       |              | Hyperplasia              | Minimal            |
| Kidney                   | Renal Tubule | Dilatation               | Minimal            |
|                          | Renal Tubule | Mineralization           | Minimal            |
| Liver                    |              | Regeneration             | Mild               |
|                          |              | Hepatocellular Adenoma   |                    |
|                          |              | Hepatocellular Carcinoma |                    |
| Note: [ HEPATOCLR CARC ] | TGLs = 21    |                          |                    |
| Note: [ HEPATOCLR ADEN ] | TGLs = 22    |                          |                    |
| Lung                     |              | Hepatocellular Carcinoma | Metastatic (Liver) |
| Note: HEPATOCLR CARC     | TGLs = 3-2-1 |                          |                    |
| Spleen                   |              | Congestion               | Moderate           |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                             |                                  |                         |
|-----------------------|-----------------------------|----------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 686 | <b>TRT#:</b> 18             | <b>SEX:</b> Male                 | <b>DAY ON TEST:</b> 101 |
|                       | <b>DOSE:</b> 0.0275% 3 SSAC | <b>DISP:</b> Scheduled Sacrifice | <b>HISTO:</b> A85033896 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex     | Adrenal Gland - Medulla | Bone                      | Bone Marrow              |
| Brain                      | Epididymis              | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Kidney                     | Lung                    | Lymph Node - Mandibular   | Lymph Node - Mesenteric  |
| Nose                       | Pancreas                | Pituitary Gland           | Prostate                 |
| Salivary Glands            | Seminal Vesicle         | Skin                      | Spleen                   |
| Stomach - Forestomach      | Stomach - Glandular     | Testes                    | Thymus                   |
| Thyroid Gland              | Trachea                 | Urethra                   | Urinary Bladder          |

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**MISSING**

|               |                   |
|---------------|-------------------|
| Mammary Gland | Parathyroid Gland |
|---------------|-------------------|

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**OBSERVATIONS**

|       |            |                           |         |
|-------|------------|---------------------------|---------|
| Liver | Hepatocyte | Vacuolization Cytoplasmic | Minimal |
|-------|------------|---------------------------|---------|

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 687

**TRT#:** 18

**SEX:** Male

**DAY ON TEST:** 102

**DOSE:** 0.0275% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033897

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Bone                      | Bone Marrow              | Brain                      | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Kidney                     | Lung                    |
| Lymph Node - Mandibular   | Lymph Node - Mesenteric  | Nose                       | Pancreas                |
| Parathyroid Gland         | Pituitary Gland          | Prostate                   | Salivary Glands         |
| Seminal Vesicle           | Skin                     | Spleen                     | Stomach - Forestomach   |
| Stomach - Glandular       | Testes                   | Thymus                     | Thyroid Gland           |
| Trachea                   | Urinary Bladder          |                            |                         |

**MISSING**

|                         |               |
|-------------------------|---------------|
| Adrenal Gland - Medulla | Mammary Gland |
|-------------------------|---------------|

**INSUFFICIENT TISSUE**

Adrenal Gland - Cortex

**OBSERVATIONS**

|       |              |                  |
|-------|--------------|------------------|
| Liver | Inflammation | Chronic, Minimal |
|-------|--------------|------------------|

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 688

**TRT#:** 18

**SEX:** Male

**DAY ON TEST:** 102

**DOSE:** 0.0275% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033898

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Kidney                     |
| Liver                   | Lung                      | Lymph Node - Mandibular  | Lymph Node - Mesenteric    |
| Nose                    | Pancreas                  | Parathyroid Gland        | Pituitary Gland            |
| Prostate                | Salivary Glands           | Seminal Vesicle          | Skin                       |
| Spleen                  | Stomach - Forestomach     | Stomach - Glandular      | Testes                     |
| Thymus                  | Thyroid Gland             | Trachea                  | Urinary Bladder            |

**MISSING**

|            |               |
|------------|---------------|
| Epididymis | Mammary Gland |
|------------|---------------|

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 689

**TRT#:** 18

**SEX:** Male

**DAY ON TEST:** 100

**DOSE:** 0.0275% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033899

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Heart  
Intestine Small - Duodenum  
Liver  
Pancreas  
Salivary Glands  
Stomach - Forestomach  
Thyroid Gland

Adrenal Gland - Medulla  
Epididymis  
Intestine Large - Cecum  
Intestine Small - Jejunum  
Lung  
Parathyroid Gland  
Seminal Vesicle  
Stomach - Glandular  
Trachea

Bone  
Esophagus  
Intestine Large - Colon  
Islets, Pancreatic  
Lymph Node - Mandibular  
Pituitary Gland  
Skin  
Testes  
Urinary Bladder

Bone Marrow  
Gallbladder  
Intestine Large - Rectum  
Kidney  
Nose  
Prostate  
Spleen  
Thymus

**MISSING**

Intestine Small - Ileum

Lymph Node - Mesenteric

Mammary Gland

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 690

**TRT#:** 18

**SEX:** Male

**DAY ON TEST:** 101

**DOSE:** 0.0275% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033900

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex     | Adrenal Gland - Medulla | Bone                      | Bone Marrow              |
| Brain                      | Epididymis              | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Kidney                     | Liver                   | Lung                      | Lymph Node - Mandibular  |
| Lymph Node - Mesenteric    | Nose                    | Pancreas                  | Parathyroid Gland        |
| Pituitary Gland            | Prostate                | Salivary Glands           | Seminal Vesicle          |
| Skin                       | Spleen                  | Stomach - Forestomach     | Testes                   |
| Thymus                     | Thyroid Gland           | Trachea                   | Urinary Bladder          |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|         |           |      |
|---------|-----------|------|
| Stomach | Glandular | Cyst |
|---------|-----------|------|

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 691

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 458

**DOSE:** 0.0275% CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** A86037783

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex     | Adrenal Gland - Medulla | Bone                      | Bone Marrow              |
| Brain                      | Epididymis              | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   | Nose                     |
| Pancreas                   | Parathyroid Gland       | Pituitary Gland           | Prostate                 |
| Salivary Glands            | Seminal Vesicle         | Skin                      | Spleen                   |
| Stomach - Forestomach      | Stomach - Glandular     | Testes                    | Thymus                   |
| Thyroid Gland              | Trachea                 | Urinary Bladder           |                          |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|  |                        |              |         |
|--|------------------------|--------------|---------|
| Kidney                                     | Renal Tubule           | Dilatation   | Minimal |
|  | Renal Tubule           | Pigmentation | Mild    |
|  | Renal Tubule           | Regeneration | Minimal |
| Note: [ DILATATION ] TGLs = 5              |                        |              |         |
| Liver                                      | Hepatocellular Adenoma |              |         |
|  | Lobules                | Necrosis     | Marked  |
|  | Kupffer Cell           | Pigmentation | Mild    |
| Note: THE TUMOR IS INVADING BLOOD VESSELS. |                        |              |         |
| Note: NECROSIS TGLs = 1-21                 |                        |              |         |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 692

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0.0275% CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** A86037784

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Nose                       | Pancreas                |
| Parathyroid Gland         | Pituitary Gland          | Prostate                   | Salivary Glands         |
| Seminal Vesicle           | Skin                     | Spleen                     | Stomach - Forestomach   |
| Stomach - Glandular       | Testes                   | Thymus                     | Trachea                 |

**OBSERVATIONS**

|                                  |                 |                        |                  |
|----------------------------------|-----------------|------------------------|------------------|
| Adrenal Gland                    | Capsule, Cortex | Hyperplasia            | Mild             |
| Brain                            | Thalamus        | Mineralization         | Minimal          |
| Islets, Pancreatic               |                 | Hyperplasia            | Moderate         |
| Kidney                           | Renal Tubule    | Dilatation             | Mild             |
|                                  |                 | Inflammation           | Chronic, Minimal |
|                                  |                 | Mineralization         | Mild             |
|                                  | Renal Tubule    | Regeneration           | Mild             |
| Note: [ DILATATION ] TGLs = 5    |                 |                        |                  |
| Liver                            |                 | Hepatocellular Adenoma |                  |
| Note: HEPATOCLR ADEN TGLs = 2-22 |                 |                        |                  |
| Lung                             |                 | Inflammation           | Chronic, Minimal |
| Lymph Node                       | Mesenteric      | Hemorrhage             | Mild             |
| Mammary Gland                    |                 | Carcinoma              |                  |
| Note: CARCINOMA TGLs = 1-21      |                 |                        |                  |
| Thyroid Gland                    |                 | Degeneration           | Cystic, Minimal  |
| Urinary Bladder                  |                 | Inflammation           | Chronic, Minimal |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 693

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 457

**DOSE:** 0.0275% CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** A86037785

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    |
| Lymph Node - Mesenteric | Nose                      | Pancreas                 | Parathyroid Gland          |
| Pituitary Gland         | Prostate                  | Salivary Glands          | Seminal Vesicle            |
| Skin                    | Spleen                    | Stomach - Forestomach    | Stomach - Glandular        |
| Testes                  | Thymus                    | Trachea                  |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                    |              |                           |                         |
|--------------------|--------------|---------------------------|-------------------------|
| Brain              | Thalamus     | Mineralization            | Mild                    |
| Islets, Pancreatic |              | Hyperplasia               | Moderate                |
| Kidney             | Renal Tubule | Dilatation                | Minimal                 |
|                    | Renal Tubule | Regeneration              | Mild                    |
| Liver              |              | Inflammation              | Chronic Active, Minimal |
|                    | Lobules      | Necrosis                  | Minimal                 |
|                    | Hepatocyte   | Vacuolization Cytoplasmic | Mild                    |
| Thyroid Gland      |              | Degeneration              | Cystic, Mild            |
| Urinary Bladder    |              | Inflammation              | Chronic, Minimal        |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 694

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 458

**DOSE:** 0.0275% CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** A86037786

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    |
| Nose                    | Pancreas                  | Parathyroid Gland        | Pituitary Gland            |
| Prostate                | Seminal Vesicle           | Skin                     | Spleen                     |
| Stomach - Forestomach   | Stomach - Glandular       | Testes                   | Thymus                     |
| Trachea                 | Urinary Bladder           |                          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                 |              |                              |                   |
|-----------------|--------------|------------------------------|-------------------|
| Brain           | Thalamus     | Mineralization               | Minimal           |
| Kidney          | Renal Tubule | Dilatation                   | Minimal           |
| Liver           | Hepatocyte   | Cytomegaly                   | Mild              |
|                 | Hepatocyte   | Vacuolization Cytoplasmic    | Mild              |
| Lung            |              | Alveolar/Bronchiolar Adenoma |                   |
| Lymph Node      | Mesenteric   | Hemorrhage                   | Minimal           |
| Salivary Glands |              | Hyperplasia                  | Lymphoid, Minimal |
| Thyroid Gland   |              | Degeneration                 | Cystic, Mild      |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 695

**TRT#:** 17

**SEX:** Male

**DAY ON TEST:** 457

**DOSE:** 0.0275% CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** A86037787

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       |
| Lymph Node - Mandibular | Lymph Node - Mesenteric   | Nose                     | Pancreas                   |
| Parathyroid Gland       | Pituitary Gland           | Prostate                 | Seminal Vesicle            |
| Skin                    | Spleen                    | Stomach - Forestomach    | Testes                     |
| Thymus                  | Thyroid Gland             | Trachea                  | Urinary Bladder            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                 |              |                           |                   |
|-----------------|--------------|---------------------------|-------------------|
| Brain           | Thalamus     | Mineralization            | Mild              |
| Kidney          | Renal Tubule | Dilatation                | Minimal           |
|                 |              | Mineralization            | Mild              |
|                 | Renal Tubule | Regeneration              | Minimal           |
| Liver           | Hepatocyte   | Vacuolization Cytoplasmic | Mild              |
| Salivary Glands |              | Hyperplasia               | Lymphoid, Minimal |
| Stomach         | Glandular    | Inflammation              | Subacute, Mild    |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 696

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 688

**DOSE:** 0.0140% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042525

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Epididymis                |
| Esophagus                | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Nose                    | Pancreas                  |
| Parathyroid Gland        | Pituitary Gland            | Prostate                | Skin                      |
| Spleen                   | Stomach - Forestomach      | Stomach - Glandular     | Testes                    |
| Thymus                   | Thyroid Gland              | Trachea                 | Urinary Bladder           |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                          |                 |                              |                   |
|--------------------------|-----------------|------------------------------|-------------------|
| Adrenal Gland            | Capsule, Cortex | Hyperplasia                  | Mild              |
|                          | Cortex          | Hyperplasia                  | Focal, Minimal    |
| Brain                    | Thalamus        | Mineralization               | Minimal           |
| Gallbladder              |                 | Cyst                         |                   |
| Islets, Pancreatic       |                 | Hyperplasia                  | Mild              |
| Kidney                   |                 | Mineralization               | Mild              |
|                          | Renal Tubule    | Regeneration                 | Minimal           |
| Liver                    |                 | Hepatocellular Adenoma       |                   |
| Note: [ HEPATOCLR ADEN ] | TGLs = 21       |                              |                   |
| Lung                     |                 | Alveolar/Bronchiolar Adenoma |                   |
| Note: ALV BRON ADEN      | TGLs = 3-2-1    |                              |                   |
| Preputial Gland          |                 | Ectasia                      | Moderate          |
|                          |                 | Inflammation                 | Chronic, Mild     |
| Note: ECTASIA            | TGLs = 4-8      |                              |                   |
| Salivary Glands          |                 | Hyperplasia                  | Lymphoid, Minimal |
| Seminal Vesicle          |                 | Dilatation                   | Moderate          |
| Note: DILATATION         | TGLs = 1-7      |                              |                   |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 697

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 738

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042526

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Salivary Glands          | Skin                       | Spleen                  |
| Stomach - Forestomach     | Testes                   | Thymus                     | Thyroid Gland           |
| Trachea                   | Urinary Bladder          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|  |              |                        |               |
|--|--------------|------------------------|---------------|
| Adrenal Gland                          | Cortex       | Hyperplasia            | Focal, Mild   |
| Brain                                  | Thalamus     | Mineralization         | Mild          |
| Coagulating Gland                      |              | Dilatation             | Moderate      |
| Note: DILATATION TGLs = 3-7            |              |                        |               |
| Islets, Pancreatic                     |              | Hyperplasia            | Minimal       |
| Kidney                                 |              | Mineralization         | Moderate      |
|  | Renal Tubule | Regeneration           | Mild          |
| Liver                                  |              | Clear Cell Focus       |               |
|  |              | Hepatocellular Adenoma | Multiple, Two |
| Note: CLEAR CL FOCUS TGLs = 5-22       |              |                        |               |
| Note: HEPATOCLR ADEN TGLs = 4-21,6-23  |              |                        |               |
| Note: CLEAR CELL FOCUS ALSO ON SLIDE 6 |              |                        |               |
| Preputial Gland                        |              | Ectasia                | Marked        |
| Note: ECTASIA TGLs = 8-8-2             |              |                        |               |
| Seminal Vesicle                        |              | Dilatation             | Marked        |
|  |              | Hemorrhage             | Moderate      |
| Note: DILATATION TGLs = 1-7            |              |                        |               |
| Note: HEMORRHAGE TGLs = 2-7-1          |              |                        |               |
| Stomach                                | Glandular    | Cyst                   |               |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 697

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 738

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042526

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Glandular

Mineralization

Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 698 | <b>TRT#:</b> 21               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 737 |
|                       | <b>DOSE:</b> 0.0140% CHLORINE | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042527 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Skin                     | Stomach - Forestomach      | Stomach - Glandular     |
| Testes                    | Thyroid Gland            | Trachea                    | Urinary Bladder         |

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

|                      |              |   |                      |
|----------------------|--------------|---|----------------------|
| Adrenal Gland        | Cortex       | Hyperplasia                                   | Focal, Minimal       |
| Brain                | Thalamus     | Mineralization                                | Mild                 |
| Kidney               |              | Mineralization                                | Mild                 |
|                      | Renal Tubule | Regeneration                                  | Mild                 |
| Liver                |              | Angiectasis                                   | Mild                 |
|                      |              | Basophilic Focus                              |                      |
|                      |              | Hyperplasia                                   | Focal, Mild          |
| Lung                 |              | Alveolar/Bronchiolar Carcinoma                |                      |
|                      |              | Hyperplasia                                   | Lymphoid, Mild       |
|                      |              | Infiltration Cellular                         | Histiocyte, Moderate |
| Note: ALV BRON CARC  | TGLs = 3-2-1 |   |                      |
| Salivary Glands      |              | Hyperplasia                                   | Lymphoid, Minimal    |
| Seminal Vesicle      |              | Dilatation                                    | Moderate             |
| Note: DILATATION     | TGLs = 1-7   |   |                      |
| Spleen               |              | Lymphoma Malignant Undifferentiated Cell Type |                      |
| Note: LYMPH MAL UNDF | TGLs = 2-6   |   |                      |
| Thymus               |              | Cyst  |                      |

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**PRIMARY CAUSE OF DEATH** -

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Animal Note: ESOPHAGUS ON SLIDES 2 AND 3

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 699

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042528

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Epididymis                |
| Esophagus                | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Nose                    | Pancreas                  |
| Parathyroid Gland        | Pituitary Gland            | Prostate                | Seminal Vesicle           |
| Spleen                   | Stomach - Forestomach      | Stomach - Glandular     | Testes                    |
| Thymus                   | Thyroid Gland              | Trachea                 | Urinary Bladder           |

**MISSING**

|             |               |
|-------------|---------------|
| Gallbladder | Mammary Gland |
|-------------|---------------|

**OBSERVATIONS**

|   |              |                                |                    |
|---|--------------|--------------------------------|--------------------|
| Adrenal Gland                               | Cortex       | Hyperplasia                    | Focal, Minimal     |
| Brain                                       | Thalamus     | Mineralization                 | Moderate           |
| Islets, Pancreatic                          |              | Hyperplasia                    | Minimal            |
| Kidney                                      |              | Cyst                           |                    |
|   |              | Granuloma                      | Minimal            |
|   |              | Mineralization                 | Moderate           |
|   | Renal Tubule | Regeneration                   | Mild               |
| Liver                                       |              | Hepatocellular Adenoma         | Multiple, Two      |
|   |              | Hepatocellular Carcinoma       |                    |
| Note: [ HEPATOCLR ADEN ]                    |              |                                |                    |
| TGLs = 21,23                                |              |                                |                    |
| Note: [ HEPATOCLR CARC ]                    |              |                                |                    |
| TGLs = 22                                   |              |                                |                    |
| Lung  |              | Alveolar/Bronchiolar Carcinoma |                    |
|   |              | Infiltration Cellular          | Histiocyte, Marked |
| Note: PORTIONS OF ALV BRONC CARC ON SLIDE 2 |              |                                |                    |
| Note: INFILTRAT CELL                        |              |                                |                    |
| TGLs = 7-2-1                                |              |                                |                    |
| [ Infiltration Cellular TGLS = 6-2-1 ]      |              |                                |                    |
| Preputial Gland                             |              | Ectasia                        | Marked             |
|   |              | Inflammation                   | Chronic, Moderate  |
| Note: ECTASIA                               |              |                                |                    |
| TGLs = 1-8                                  |              |                                |                    |
| Note: INFLAMMATION                          |              |                                |                    |
| TGLs = 2-8                                  |              |                                |                    |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 699 | <b>TRT#:</b> 21               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 737 |
|                       | <b>DOSE:</b> 0.0140% CHLORINE | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042528 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                             |             |             |                   |
|-----------------------------|-------------|-------------|-------------------|
| Salivary Glands             |             | Hyperplasia | Lymphoid, Minimal |
| Skin                        | Subcut Tiss | Sarcoma     |                   |
| Note: [ SARCOMA ] TGLs = 24 |             |             |                   |

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 700

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 738

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042529

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    |
| Nose                    | Pancreas                  | Parathyroid Gland        | Pituitary Gland            |
| Prostate                | Salivary Glands           | Skin                     | Spleen                     |
| Stomach - Forestomach   | Stomach - Glandular       | Testes                   | Thymus                     |
| Thyroid Gland           | Trachea                   | Urinary Bladder          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                  |              |                              |                   |
|----------------------------------|--------------|------------------------------|-------------------|
| Brain                            | Thalamus     | Mineralization               | Mild              |
| Kidney                           |              | Hyperplasia                  | Lymphoid, Minimal |
|                                  |              | Mineralization               | Mild              |
|                                  | Renal Tubule | Regeneration                 | Mild              |
| Liver                            |              | Hepatocellular Adenoma       |                   |
|                                  |              | Hyperplasia                  | Focal, Marked     |
|                                  | Kupffer Cell | Pigmentation                 | Mild              |
| Note: HYPERPLASIA TGLs = 2-21    |              |                              |                   |
| Note: HEPATOCLR ADEN TGLs = 3-22 |              |                              |                   |
| Note: PIGMENT IS ON SLIDE 22     |              |                              |                   |
| Lung                             |              | Alveolar/Bronchiolar Adenoma |                   |
| Note: ALV BRON ADEN TGLs = 4-2-1 |              |                              |                   |
| Lymph Node                       | Mesenteric   | Hemorrhage                   | Minimal           |
| Seminal Vesicle                  |              | Dilatation                   | Moderate          |
| Note: DILATATION TGLs = 1-7      |              |                              |                   |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 701

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 691

**DOSE:** 0.0140% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042530

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Nose                    |
| Pancreas                  | Parathyroid Gland        | Prostate                   | Salivary Glands         |
| Skin                      | Stomach - Forestomach    | Stomach - Glandular        | Testes                  |
| Thymus                    | Trachea                  | Urinary Bladder            |                         |

**MISSING**

|               |                 |
|---------------|-----------------|
| Mammary Gland | Pituitary Gland |
|---------------|-----------------|

**OBSERVATIONS**

|                      |                  |                          |                   |
|----------------------|------------------|--------------------------|-------------------|
| Bone Marrow          |                  | Hypercellularity         | Mild              |
| Brain                | Thalamus         | Mineralization           | Minimal           |
| Islets, Pancreatic   |                  | Hyperplasia              | Mild              |
| Kidney               |                  | Casts Protein            | Moderate          |
|                      |                  | Cyst                     |                   |
|                      |                  | Glomerulosclerosis       | Minimal           |
|                      |                  | Hydronephrosis           | Mild              |
|                      | Transit Epithe   | Hyperplasia              | Moderate          |
|                      |                  | Hyperplasia              | Lymphoid, Mild    |
|                      |                  | Inflammation             | Suppurative, Mild |
|                      | Renal Tubule     | Regeneration             | Moderate          |
| Liver                |                  | Hepatocellular Adenoma   | Multiple, Two     |
|                      |                  | Hepatocellular Carcinoma |                   |
|                      |                  | Hyperplasia              | Focal, Mild       |
|                      |                  | Inflammation             | Chronic, Moderate |
|                      |                  | Mineralization           | Mild              |
|                      | Lobules          | Necrosis                 | Mild              |
| Note: HEPATOCLR CARC | TGLs = 1-21      |                          |                   |
| Note: HEPATOCLR ADEN | TGLs = 2-22,3-23 |                          |                   |
| Lung                 |                  | Hemorrhage               | Mild              |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 701

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 691

**DOSE:** 0.0140% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042530

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Seminal Vesicle

Inflammation

Chronic, Moderate

Spleen

Hematopoietic Cell Proliferation

Mild

Thyroid Gland

Degeneration

Cystic, Minimal

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 702

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042531

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Nose                    |
| Pancreas                  | Parathyroid Gland        | Pituitary Gland            | Prostate                |
| Seminal Vesicle           | Skin                     | Spleen                     | Stomach - Forestomach   |
| Stomach - Glandular       | Testes                   | Thymus                     | Thyroid Gland           |
| Trachea                   |                          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|  |                 |                              |                   |
|--|-----------------|------------------------------|-------------------|
| Adrenal Gland                            | Cortex          | Clear Cell Focus             |                   |
|  | Capsule, Cortex | Hyperplasia                  | Mild              |
|  | Cortex          | Hyperplasia                  | Focal, Minimal    |
| Brain                                    | Thalamus        | Mineralization               | Mild              |
| Islets, Pancreatic                       |                 | Hyperplasia                  | Mild              |
| Kidney                                   |                 | Mineralization               | Mild              |
|  | Renal Tubule    | Regeneration                 | Mild              |
| Liver                                    |                 | Clear Cell Focus             |                   |
|  |                 | Hepatocellular Adenoma       | Multiple, Three   |
|  | Hepatocyte      | Vacuolization Cytoplasmic    | Moderate          |
| Note: CLEAR CL FOCUS TGLs = 4-6,4-24     |                 |                              |                   |
| Note: [ HEPATOCLR ADEN ] TGLs = 21,22,23 |                 |                              |                   |
| Lung                                     |                 | Alveolar/Bronchiolar Adenoma |                   |
| Salivary Glands                          |                 | Hyperplasia                  | Lymphoid, Minimal |
| Urinary Bladder                          |                 | Hyperplasia                  | Lymphoid, Minimal |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 703

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042532

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Nose                     | Pancreas                   | Parathyroid Gland       |
| Pituitary Gland           | Prostate                 | Salivary Glands            | Seminal Vesicle         |
| Skin                      | Spleen                   | Stomach - Forestomach      | Stomach - Glandular     |
| Testes                    | Thymus                   | Trachea                    | Urinary Bladder         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|               |              |                              |                   |
|---------------|--------------|------------------------------|-------------------|
| Adrenal Gland | Cortex       | Clear Cell Focus             |                   |
|               | Cortex       | Hyperplasia                  | Focal, Moderate   |
| Brain         | Thalamus     | Mineralization               | Minimal           |
| Kidney        |              | Cyst                         |                   |
|               |              | Mineralization               | Moderate          |
|               | Renal Tubule | Regeneration                 | Mild              |
| Lung          |              | Alveolar/Bronchiolar Adenoma |                   |
|               |              | Hyperplasia                  | Lymphoid, Minimal |
| Thyroid Gland | Follicle     | Cyst                         |                   |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 704 | <b>TRT#:</b> 21               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 736 |
|                       | <b>DOSE:</b> 0.0140% CHLORINE | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042533 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Liver                    | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Nose                     | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Salivary Glands          | Seminal Vesicle            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Stomach - Glandular        | Testes                  |
| Thymus                    | Trachea                  | Urinary Bladder            |                         |

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

|                    |              |                                   |                   |
|--------------------|--------------|-----------------------------------|-------------------|
| Adrenal Gland      | Cortex       | Accessory Adrenal Cortical Nodule |                   |
| Brain              | Thalamus     | Mineralization                    | Minimal           |
| Islets, Pancreatic |              | Hyperplasia                       | Mild              |
| Kidney             |              | Cyst                              |                   |
|                    |              | Hyperplasia                       | Lymphoid, Minimal |
|                    |              | Mineralization                    | Moderate          |
|                    | Renal Tubule | Regeneration                      | Mild              |
| Pancreas           |              | Atrophy                           | Moderate          |
| Thyroid Gland      |              | Degeneration                      | Cystic, Moderate  |

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 705

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042534

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Medulla | Bone                      | Bone Marrow              | Brain                      |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    |
| Nose                    | Pancreas                  | Pituitary Gland          | Salivary Glands            |
| Skin                    | Spleen                    | Stomach - Forestomach    | Stomach - Glandular        |
| Testes                  | Thymus                    | Thyroid Gland            | Trachea                    |
| Urinary Bladder         |                           |                          |                            |

**MISSING**

Mammary Gland

**INSUFFICIENT TISSUE**

Parathyroid Gland

**OBSERVATIONS**

|  |              |                        |                   |
|--|--------------|------------------------|-------------------|
| Adrenal Gland                              | Cortex       | Hyperplasia            | Focal, Mild       |
| Coagulating Gland                          |              | Dilatation             | Marked            |
| Note: DILATATION TGLs = 2-7                |              |                        |                   |
| Islets, Pancreatic                         |              | Hyperplasia            | Minimal           |
| Kidney                                     | Renal Tubule | Cyst                   |                   |
|  |              | Dilatation             | Minimal           |
|  |              | Hyperplasia            | Lymphoid, Minimal |
|  |              | Mineralization         | Moderate          |
|  | Renal Tubule | Regeneration           | Moderate          |
| Liver                                      |              | Basophilic Focus       |                   |
|  |              | Hepatocellular Adenoma | Multiple, Three   |
| Note: HEPATOCLR ADEN TGLs = 6-23,7-24,8-25 |              |                        |                   |
| Note: BASOPH FOCUS TGLs = 4-21             |              |                        |                   |
| Lymph Node                                 | Mesenteric   | Hemorrhage             | Mild              |
| [ Hemorrhage TGLS = 9-5 ]                  |              |                        |                   |
| Prostate                                   |              | Hemorrhage             | Mild              |
| Note: HEMORRHAGE TGLs = 3-7                |              |                        |                   |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 705

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042534

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Seminal Vesicle

Dilatation

Moderate

Note: DILATATION TGLs = 1-7

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 706

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042535

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Medulla | Bone                      | Bone Marrow              | Brain                      |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    |
| Nose                    | Pancreas                  | Parathyroid Gland        | Pituitary Gland            |
| Prostate                | Salivary Glands           | Seminal Vesicle          | Skin                       |
| Spleen                  | Testes                    | Thymus                   | Thyroid Gland              |
| Trachea                 | Urinary Bladder           |                          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|   |                     |                              |                 |
|---|---------------------|------------------------------|-----------------|
| Adrenal Gland                                 | Capsule, Cortex     | Adenoma                      |                 |
| Kidney  |                     | Cyst                         |                 |
|   |                     | Mineralization               | Mild            |
|   | Renal Tubule        | Regeneration                 | Mild            |
| Liver   |                     | Hepatocellular Adenoma       | Multiple, Three |
|   |                     | Hyperplasia                  | Focal, Moderate |
| Note: HEPATOCLR ADEN TGLs = 3-23,4-24,5-25    |                     |                              |                 |
| Note: HYPERPLASIA TGLs = 9-26                 |                     |                              |                 |
| Lung  |                     | Alveolar/Bronchiolar Adenoma |                 |
| [ Alveolar/Bronchiolar Adenoma TGLS = 7-2-1 ] |                     |                              |                 |
| Lymph Node                                    | Mesenteric          | Hemorrhage                   | Mild            |
|   | Mesenteric          | Lymphoma Malignant Mixed     |                 |
| Note: LYMPH MAL MIXD TGLs = 6-5               |                     |                              |                 |
| Preputial Gland                               |                     | Ectasia                      | Moderate        |
| Note: ECTASIA TGLs = 1-21,2-22                |                     |                              |                 |
| Stomach                                       | Glandular           | Cyst                         |                 |
|   | Forestomach, Mucosa | Hyperplasia                  | Mild            |
| [ Cyst TGLS = 10-4-1 ]                        |                     |                              |                 |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 706

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042535

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 707

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 736

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042536

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Coagulating Gland       |
| Epididymis                | Esophagus                | Gallbladder                | Heart                   |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Skin                     | Spleen                     | Stomach - Forestomach   |
| Stomach - Glandular       | Testes                   | Thymus                     | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**MISSING**

|                         |               |
|-------------------------|---------------|
| Intestine Large - Cecum | Mammary Gland |
|-------------------------|---------------|

**OBSERVATIONS**

|                                       |                |                        |                    |
|---------------------------------------|----------------|------------------------|--------------------|
| Adrenal Gland                         | Cortex         | Hyperplasia            | Focal, Mild        |
| Brain                                 | Thalamus       | Mineralization         | Mild               |
| Kidney                                |                | Casts Protein          | Minimal            |
|                                       |                | Cyst                   |                    |
|                                       |                | Hyperplasia            | Lymphoid, Moderate |
|                                       |                | Mineralization         | Mild               |
|                                       | Renal Tubule   | Regeneration           | Mild               |
| Liver                                 |                | Hepatocellular Adenoma | Multiple, Two      |
|                                       |                | Hyperplasia            | Focal, Mild        |
| Note: TWO ADENOMAS ON SLIDE 22        |                |                        |                    |
| Note: [ HEPATOCLR ADEN ] TGLs = 21,22 |                |                        |                    |
| Lymph Node                            | Mesenteric     | Hemorrhage             | Minimal            |
| Note: HEMORRHAGE TGLs = 5-5           |                |                        |                    |
| Salivary Glands                       |                | Hyperplasia            | Lymphoid, Minimal  |
| Seminal Vesicle                       |                | Dilatation             | Moderate           |
| Note: DILATATION TGLs = 1-7           |                |                        |                    |
| Thyroid Gland                         | Follicular Cel | Hyperplasia            | Minimal            |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 708

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042537

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Pancreas                |
| Parathyroid Gland         | Prostate                 | Salivary Glands            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Stomach - Glandular        | Testes                  |
| Thymus                    | Trachea                  | Urinary Bladder            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|   |                           |   |                                  |
|---|---------------------------|---|----------------------------------|
| Adrenal Gland                           | Capsule, Cortex<br>Cortex | Hyperplasia<br>Hyperplasia                                | Mild<br>Focal, Moderate          |
| Brain                                   | Thalamus                  | Mineralization  | Minimal                          |
| Islets, Pancreatic                      |                           | Hyperplasia   | Marked                           |
| Note: HYPERPLASIA TGLs = 6-7-1          |                           |   |                                  |
| Kidney                                  |                           | Hydronephrosis<br>Mineralization                          | Mild<br>Moderate                 |
|   | Renal Tubule              | Regeneration  | Moderate                         |
| Note: HYDRONEPHROSIS TGLs = 7-5         |                           |   |                                  |
| Liver                                   |                           | Clear Cell Focus<br>Hepatocellular Adenoma<br>Hyperplasia | Multiple, Two<br>Focal, Moderate |
| Note: HYPERPLASIA TGLs = 8-23           |                           |   |                                  |
| Note: HEPATOCLR ADEN TGLs = 3-21,4-22   |                           |   |                                  |
| Note: FOCAL HYPERPLASIA ALSO ON SLIDE 6 |                           |   |                                  |
| Lung                                    |                           | Alveolar/Bronchiolar Carcinoma<br>Infiltration Cellular   | Histiocyte, Mild                 |
| Note: ALV BRON CARC TGLs = 5-2-1        |                           |   |                                  |
| Nose                                    |                           | Exudate<br>Hyperplasia                                    | Cystic, Minimal                  |
|   | Glands                    |   |                                  |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 708 | <b>TRT#:</b> 21               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 733 |
|                       | <b>DOSE:</b> 0.0140% CHLORINE | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042537 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                  |                |             |          |
|------------------|----------------|-------------|----------|
| Pituitary Gland  | Pars Distalis  | Cyst        |          |
| Seminal Vesicle  |                | Dilatation  | Marked   |
| Note: DILATATION | TGLs = 1-7     |             |          |
| Thyroid Gland    | Follicular Cel | Hyperplasia | Minimal  |
| Tooth            |                | Dysplasia   | Moderate |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 709

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042538

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                         |
|----------------------------|-------------------------|---------------------------|-------------------------|
| Adrenal Gland - Medulla    | Bone                    | Bone Marrow               | Epididymis              |
| Esophagus                  | Gallbladder             | Heart                     | Intestine Large - Cecum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Lung                    |
| Lymph Node - Mandibular    | Lymph Node - Mesenteric | Nose                      | Pancreas                |
| Parathyroid Gland          | Pituitary Gland         | Prostate                  | Salivary Glands         |
| Skin                       | Stomach - Forestomach   | Stomach - Glandular       | Testes                  |
| Thymus                     | Thyroid Gland           | Trachea                   | Urinary Bladder         |

**MISSING**

|                         |                          |               |
|-------------------------|--------------------------|---------------|
| Intestine Large - Colon | Intestine Large - Rectum | Mammary Gland |
|-------------------------|--------------------------|---------------|

**OBSERVATIONS**

|   |              |                        |                   |
|---|--------------|------------------------|-------------------|
| Adrenal Gland   | Cortex       | Hyperplasia            | Focal, Minimal    |
| Brain   | Thalamus     | Mineralization         | Mild              |
| Islets, Pancreatic  |              | Hyperplasia            | Moderate          |
| Kidney  | Renal Tubule | Atrophy                | Minimal           |
|   |              | Cyst                   |                   |
|   |              | Hyperplasia            | Lymphoid, Minimal |
|   |              | Mineralization         | Mild              |
|   | Renal Tubule | Regeneration           | Mild              |
| Liver   |              | Clear Cell Focus       |                   |
|   |              | Hepatocellular Adenoma | Four, Multiple    |
| Note: HEPATOCLR ADEN TGLs = 2-22,3-23,5-25<br>Note: CLEAR CL FOCUS TGLs = 1-21,5-25<br>Note: HEPATOCELLULAR ADENOMA ALSO ON SLIDE 6 |              |                        |                   |
| Seminal Vesicle   |              | Dilatation             | Mild              |
| Spleen  | Lymph Follic | Hyperplasia            | Mild              |
| Tooth   |              | Dysplasia              | Mild              |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 710

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042539

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                            |                         |                           |
|-------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla | Bone                       | Bone Marrow             | Epididymis                |
| Esophagus               | Gallbladder                | Heart                   | Intestine Large - Cecum   |
| Intestine Large - Colon | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic      | Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   |
| Nose                    | Pancreas                   | Parathyroid Gland       | Pituitary Gland           |
| Prostate                | Seminal Vesicle            | Skin                    | Spleen                    |
| Stomach - Forestomach   | Stomach - Glandular        | Testes                  | Thymus                    |
| Thyroid Gland           | Trachea                    | Urinary Bladder         |                           |

**MISSING**

|                          |               |
|--------------------------|---------------|
| Intestine Large - Rectum | Mammary Gland |
|--------------------------|---------------|

**OBSERVATIONS**

|                                  |              |                  |                   |
|----------------------------------|--------------|------------------|-------------------|
| Adrenal Gland                    | Cortex       | Hyperplasia      | Focal, Mild       |
| Brain                            | Thalamus     | Mineralization   | Mild              |
| Kidney                           | Renal Tubule | Atrophy          | Minimal           |
|                                  |              | Casts Protein    | Minimal           |
|                                  |              | Hyperplasia      | Lymphoid, Minimal |
|                                  |              | Mineralization   | Mild              |
|                                  | Renal Tubule | Regeneration     | Mild              |
| Liver                            |              | Clear Cell Focus |                   |
| Note: CLEAR CL FOCUS TGLs = 2-22 |              |                  |                   |
| Salivary Glands                  |              | Hyperplasia      | Lymphoid, Minimal |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 711

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042540

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Epididymis                |
| Esophagus                | Gallbladder                | Heart                   | Intestine Large - Cecum   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular | Nose                      |
| Pancreas                 | Parathyroid Gland          | Prostate                | Salivary Glands           |
| Skin                     | Spleen                     | Stomach - Forestomach   | Stomach - Glandular       |
| Testes                   | Thyroid Gland              | Trachea                 | Urinary Bladder           |

**MISSING**

|                         |               |
|-------------------------|---------------|
| Intestine Large - Colon | Mammary Gland |
|-------------------------|---------------|

**OBSERVATIONS**

|                                  |               |                        |                  |
|----------------------------------|---------------|------------------------|------------------|
| Adrenal Gland                    | Cortex        | Hyperplasia            | Focal, Mild      |
| Brain                            | Thalamus      | Mineralization         | Minimal          |
| Coagulating Gland                |               | Dilatation             | Marked           |
| Note: DILATATION TGLs = 2-7      |               |                        |                  |
| Kidney                           |               | Cyst                   |                  |
|                                  |               | Mineralization         | Mild             |
|                                  | Renal Tubule  | Regeneration           | Mild             |
| Liver                            |               | Clear Cell Focus       |                  |
| Note: CLEAR CL FOCUS TGLs = 5-22 |               | Hepatocellular Adenoma |                  |
| Note: HEPATOCLR ADEN TGLs = 4-21 |               |                        |                  |
| Lymph Node                       | Mesenteric    | Hemorrhage             | Mild             |
|                                  | Mesenteric    | Hyperplasia            | Lymphoid, Marked |
| Note: HEMORRHAGE TGLs = 3-5      |               |                        |                  |
| Pituitary Gland                  | Pars Distalis | Cyst                   |                  |
| Seminal Vesicle                  |               | Dilatation             | Marked           |
| Note: DILATATION TGLs = 1-7      |               |                        |                  |
| Thymus                           |               | Cyst                   |                  |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 712 | <b>TRT#:</b> 21               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 733 |
|                       | <b>DOSE:</b> 0.0140% CHLORINE | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042541 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Medulla | Bone                      | Bone Marrow              | Brain                      |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       |
| Lymph Node - Mandibular | Lymph Node - Mesenteric   | Nose                     | Pancreas                   |
| Parathyroid Gland       | Pituitary Gland           | Prostate                 | Salivary Glands            |
| Skin                    | Spleen                    | Stomach - Glandular      | Testes                     |
| Thymus                  | Thyroid Gland             | Trachea                  | Urinary Bladder            |

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

|                      |              |                         |               |
|----------------------|--------------|-------------------------|---------------|
| Adrenal Gland        | Cortex       | Hyperplasia             | Focal, Mild   |
| Kidney               |              | Cyst                    |               |
|                      |              | Mineralization          | Moderate      |
|                      | Renal Tubule | Regeneration            | Mild          |
| Liver                |              | Mixed Cell Focus        |               |
| Note: MIXED CL FOCUS | TGLs = 2-21  |                         |               |
| Preputial Gland      |              | Inflammation            | Chronic, Mild |
| Seminal Vesicle      |              | Dilatation              | Mild          |
| Note: DILATATION     | TGLs = 1-7   |                         |               |
| Stomach              | Forestomach  | Squamous Cell Papilloma |               |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 713

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042542

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Nose                       | Pancreas                |
| Parathyroid Gland         | Pituitary Gland          | Salivary Glands            | Seminal Vesicle         |
| Skin                      | Stomach - Forestomach    | Stomach - Glandular        | Testes                  |
| Thymus                    | Trachea                  | Urinary Bladder            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|  |              |                                  |                   |
|--|--------------|----------------------------------|-------------------|
| Adrenal Gland                                      | Cortex       | Hyperplasia                      | Focal, Moderate   |
| Brain  | Thalamus     | Mineralization                   | Moderate          |
| Islets, Pancreatic                                 |              | Hyperplasia                      | Moderate          |
| Kidney   | Renal Tubule | Atrophy                          | Mild              |
|  |              | Cyst                             |                   |
|  |              | Mineralization                   | Moderate          |
|  | Renal Tubule | Regeneration                     | Minimal           |
| Note: MINERALIZATION IS MAINLY AT TIP OF PAPANILIA |              |                                  |                   |
| Liver  |              | Basophilic Focus                 |                   |
|  |              | Clear Cell Focus                 |                   |
|  |              | Hepatocellular Adenoma           |                   |
|  |              | Hepatocellular Carcinoma         |                   |
|  |              | Hyperplasia                      | Focal, Moderate   |
| Note: CLEAR CL FOCUS TGLs = 3-22,3-22-1            |              |                                  |                   |
| Note: HYPERPLASIA TGLs = 5-24                      |              |                                  |                   |
| Note: HEPATOCLR ADEN TGLs = 2-21                   |              |                                  |                   |
| Note: HEPATOCLR CARC TGLs = 4-23                   |              |                                  |                   |
| Lung   |              | Alveolar/Bronchiolar Adenoma     |                   |
|  |              | Hyperplasia                      | Lymphoid, Minimal |
| Lymph Node   | Mesenteric   | Hematopoietic Cell Proliferation | Mild              |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |  |   |  |
|-----------------------|--|---|--|
| <b>ANIMAL ID:</b> 713 | <b>TRT#:</b> 21<br><b>DOSE:</b> 0.0140% CHLORINE | <b>SEX:</b> Male<br><b>DISP:</b> Terminal Sacrifice | <b>DAY ON TEST:</b> 733<br><b>HISTO:</b> A87042542 |
|-----------------------|--|---|--|

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                                 |            |                                  |                  |
|---------------------------------|------------|----------------------------------|------------------|
| Preputial Gland                 | Mesenteric | Hemorrhage                       | Mild             |
| Prostate                        |            | Inflammation                     | Chronic, Minimal |
| Spleen                          |            | Inflammation                     | Chronic, Minimal |
| Note: HEMA CELL PROL TGLs = 1-6 |            | Hematopoietic Cell Proliferation | Minimal          |
| Thyroid Gland                   |            | Degeneration                     | Cystic, Mild     |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 714

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042543

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Nose                    |
| Pancreas                  | Parathyroid Gland        | Pituitary Gland            | Prostate                |
| Salivary Glands           | Seminal Vesicle          | Skin                       | Stomach - Forestomach   |
| Stomach - Glandular       | Testes                   | Thymus                     | Thyroid Gland           |
| Trachea                   | Urinary Bladder          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                      |                    |                                   |                      |
|----------------------|--------------------|-----------------------------------|----------------------|
| Adrenal Gland        | Cortex             | Accessory Adrenal Cortical Nodule |                      |
|                      | Cortex             | Clear Cell Focus                  |                      |
| Brain                | Thalamus           | Mineralization                    | Moderate             |
| Kidney               | Renal Tubule       | Atrophy                           | Moderate             |
|                      |                    | Mineralization                    | Mild                 |
|                      | Renal Tubule       | Regeneration                      | Mild                 |
| Liver                |                    | Hepatocellular Adenoma            |                      |
| Note: HEPATOCLR ADEN | TGLs = 1-21        |                                   |                      |
| Lung                 |                    | Alveolar/Bronchiolar Carcinoma    | Multiple, Three      |
|                      |                    | Infiltration Cellular             | Histiocyte, Moderate |
| Note: ALV BRON CARC  | TGLs = 2-2,3-2,4-2 |                                   |                      |
| Lymph Node           | Mesenteric         | Hemorrhage                        | Mild                 |
| Spleen               | Lymph Follic       | Atrophy                           | Mild                 |
|                      | Red Pulp           | Atrophy                           | Mild                 |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 715

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042544

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Liver                    | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Skin                     | Spleen                     | Stomach - Forestomach   |
| Stomach - Glandular       | Testes                   | Thymus                     | Thyroid Gland           |
| Trachea                   | Urinary Bladder          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                  |              |                              |                   |
|----------------------------------|--------------|------------------------------|-------------------|
| Adrenal Gland                    | Cortex       | Adenoma                      |                   |
|                                  | Cortex       | Hyperplasia                  | Focal, Minimal    |
| Brain                            | Thalamus     | Mineralization               | Mild              |
| Coagulating Gland                |              | Dilatation                   | Moderate          |
| Note: DILATATION TGLs = 2-7      |              |                              |                   |
| Islets, Pancreatic               |              | Hyperplasia                  | Minimal           |
| Kidney                           |              | Cyst                         |                   |
|                                  |              | Mineralization               | Moderate          |
|                                  | Renal Tubule | Regeneration                 | Moderate          |
| Lung                             |              | Alveolar/Bronchiolar Adenoma |                   |
| Note: ALV BRON ADEN TGLs = 1-2-1 |              |                              |                   |
| Salivary Glands                  |              | Hyperplasia                  | Lymphoid, Minimal |
| Seminal Vesicle                  |              | Dilatation                   | Moderate          |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 716

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042545

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      |
| Lung                    | Lymph Node - Mandibular   | Lymph Node - Mesenteric  | Nose                       |
| Pancreas                | Parathyroid Gland         | Pituitary Gland          | Prostate                   |
| Salivary Glands         | Seminal Vesicle           | Skin                     | Spleen                     |
| Stomach - Forestomach   | Stomach - Glandular       | Testes                   | Thymus                     |
| Trachea                 | Urinary Bladder           |                          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                          |                |                |              |
|--------------------------|----------------|----------------|--------------|
| Brain                    | Thalamus       | Mineralization | Moderate     |
| Kidney                   |                | Mineralization | Mild         |
|                          | Renal Tubule   | Regeneration   | Mild         |
| Preputial Gland          |                | Ectasia        | Moderate     |
| Note: ECTASIA TGLs = 1-8 |                |                |              |
| Thyroid Gland            | Follicular Cel | Adenoma        |              |
| Note: ADENOMA TGLs = 2-3 |                | Degeneration   | Cystic, Mild |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 717

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042546

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Salivary Glands          | Seminal Vesicle            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Testes                     | Thymus                  |
| Thyroid Gland             | Trachea                  | Urinary Bladder            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                     |              |                  |                    |
|-------------------------------------|--------------|------------------|--------------------|
| Adrenal Gland                       | Cortex       | Hyperplasia      | Focal, Mild        |
| Brain                               | Thalamus     | Mineralization   | Mild               |
| Islets, Pancreatic                  |              | Hyperplasia      | Mild               |
| Kidney                              |              | Casts Protein    | Minimal            |
|                                     |              | Cyst             |                    |
|                                     |              | Mineralization   | Moderate           |
|                                     | Renal Tubule | Regeneration     | Moderate           |
| Liver                               |              | Clear Cell Focus |                    |
|                                     |              | Hyperplasia      | Focal, Mild        |
| Note: FOCAL HYPERPLASIA ON SLIDE 21 |              |                  |                    |
| Note: CLEAR CL FOCUS TGLs = 1-21    |              |                  |                    |
| Preputial Gland                     |              | Ectasia          | Moderate           |
| Note: ECTASIA TGLs = 3-8-2          |              |                  |                    |
| Stomach                             | Glandular    | Inflammation     | Subacute, Moderate |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 718

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 0.0140% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042547

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    |
| Nose                    | Pancreas                  | Parathyroid Gland        | Pituitary Gland            |
| Salivary Glands         | Skin                      | Spleen                   | Stomach - Forestomach      |
| Stomach - Glandular     | Testes                    | Thymus                   | Thyroid Gland              |
| Trachea                 | Urinary Bladder           |                          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|   |              |                          |                   |
|---|--------------|--------------------------|-------------------|
| Brain   | Thalamus     | Mineralization           | Moderate          |
| Islets, Pancreatic                              |              | Hyperplasia              | Mild              |
| Kidney  |              | Hyperplasia              | Lymphoid, Minimal |
|   |              | Mineralization           | Mild              |
|   | Renal Tubule | Regeneration             | Minimal           |
| Liver   |              | Hepatocellular Adenoma   |                   |
|   |              | Hepatocellular Carcinoma |                   |
|   |              | Hyperplasia              | Focal, Moderate   |
| Note: HYPERPLASIA TGLs = 5-23                   |              |                          |                   |
| Note: HEPATOCLR ADEN TGLs = 3-21                |              |                          |                   |
| Note: HEPATOCLR CARC TGLs = 4-22                |              |                          |                   |
| Lymph Node                                      | Mesenteric   | Hemorrhage               | Minimal           |
| Prostate  |              | Inflammation             | Chronic, Minimal  |
| Seminal Vesicle                                 |              | Dilatation               | Mild              |
|   |              | Inflammation             | Chronic, Minimal  |
| Note: INFLAMMATION TGLs = 2-7                   |              |                          |                   |
| Note: SECRETION APPEARS DEGENERATED ON ONE SIDE |              |                          |                   |
| Note: DILATATION TGLs = 1-7                     |              |                          |                   |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 718

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 732

**DOSE:** 0.0140% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042547

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 719

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 540

**DOSE:** 0.0140% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042548

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    |
| Nose                    | Pancreas                  | Parathyroid Gland        | Pituitary Gland            |
| Prostate                | Salivary Glands           | Seminal Vesicle          | Stomach - Forestomach      |
| Stomach - Glandular     | Testes                    | Trachea                  | Urinary Bladder            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|  |             |                                  |                  |
|--|-------------|----------------------------------|------------------|
| Brain                                    | Thalamus    | Mineralization                   | Minimal          |
| Kidney                                   |             | Mineralization                   | Minimal          |
| Liver                                    |             | Hemangiosarcoma                  |                  |
|  | Lobules     | Necrosis                         | Moderate         |
| Note: HEMANGIOSARCOMA ALSO ON SLIDE 6    |             |                                  |                  |
| Note: HEMANGIOSARC TGLs = 4-23,5-21,6-22 |             |                                  |                  |
| Lung                                     |             | Thrombosis                       |                  |
| Lymph Node                               | Mesenteric  | Hematopoietic Cell Proliferation | Mild             |
|  | Mesenteric  | Hemorrhage                       | Minimal          |
| Note: HEMORRHAGE TGLs = 7-5              |             |                                  |                  |
| Note: HEMA CELL PROL TGLs = 7-5          |             |                                  |                  |
| Skin                                     | Subcut Tiss | Edema                            | Moderate         |
| Note: EDEMA TGLs = 1-8                   |             |                                  |                  |
| Spleen                                   |             | Hematopoietic Cell Proliferation | Moderate         |
| Note: HEMA CELL PROL TGLs = 3-6          |             |                                  |                  |
| Thymus                                   |             | Depletion Cellular               | Moderate         |
| Thyroid Gland                            |             | Degeneration                     | Cystic, Moderate |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 720

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 648

**DOSE:** 0.0140% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042549

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                            |                         |                           |
|-------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla    | Bone                    | Epididymis                |
| Esophagus               | Gallbladder                | Heart                   | Intestine Large - Cecum   |
| Intestine Large - Colon | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic      | Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   |
| Nose                    | Pancreas                   | Prostate                | Salivary Glands           |
| Seminal Vesicle         | Stomach - Forestomach      | Stomach - Glandular     | Testes                    |
| Thyroid Gland           | Trachea                    | Urinary Bladder         |                           |

**MISSING**

|                          |               |                   |
|--------------------------|---------------|-------------------|
| Intestine Large - Rectum | Mammary Gland | Parathyroid Gland |
|--------------------------|---------------|-------------------|

**OBSERVATIONS**

|                      |               |                          |             |
|----------------------|---------------|--------------------------|-------------|
| Bone Marrow          |               | Hypercellularity         | Moderate    |
| Brain                | Thalamus      | Mineralization           | Mild        |
| Harderian Gland      |               | Adenoma                  |             |
| Note: ADENOMA        | TGLs = 5-25   |                          |             |
| Kidney               | Renal Tubule  | Atrophy                  | Moderate    |
|                      |               | Casts Protein            | Moderate    |
|                      | Renal Tubule  | Regeneration             | Moderate    |
| Liver                |               | Hepatocellular Carcinoma |             |
|                      |               | Hyperplasia              | Focal, Mild |
| Note: HEPATOCLR CARC | TGLs = 4-24   |                          |             |
| Note: HYPERPLASIA    | TGLs = 6-26   |                          |             |
| Mesentery            |               | Hemangiosarcoma          |             |
| Note: HEMANGIOSARC   | TGLs = 2-22   |                          |             |
| Pituitary Gland      | Pars Distalis | Cyst                     |             |
| Skin                 | Subcut Tiss   | Hemangiosarcoma          |             |
| Note: HEMANGIOSARC   | TGLs = 1-21   |                          |             |
| Spleen               |               | Hemangiosarcoma          |             |
| Note: HEMANGIOSARC   | TGLs = 3-23   |                          |             |
| Thymus               |               | Depletion Cellular       | Mild        |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 720

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 648

**DOSE:** 0.0140% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042549

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 726

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 457

**DOSE:** 0.0140% CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** A86037793

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**OBSERVATIONS**

Kidney

Renal Tubule

Dilatation

Minimal

Inflammation

Chronic, Minimal

Mineralization

Minimal

Renal Tubule

Regeneration

Minimal

Note: [ MINERALIZATION ] TGLs = 5

Note: [ DILATATION ] TGLs = 5

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 727

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0.0140% CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** A86037794

---

**OBSERVATIONS**

Kidney

Renal Tubule

Dilatation

Minimal

Mineralization

Minimal

Renal Tubule

Regeneration

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 728

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 458

**DOSE:** 0.0140% CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** A86037795

**OBSERVATIONS**

Kidney

Renal Tubule

Casts Protein

Minimal

Dilatation

Minimal

Mineralization

Minimal

Regeneration

Mild

Note: [ DILATATION ] TGLs = 5

Note: [ MINERALIZATION ] TGLs = 5

Liver

Hepatocyte

Hepatocellular Carcinoma

Vacuolization Cytoplasmic

Mild

Note: HEPATOCLR CARC TGLs = 2-21

Lung

Alveolar/Bronchiolar Adenoma

Note: ALV BRON ADEN TGLs = 1-2

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 729

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0.0140% CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** A86037796

---

**OBSERVATIONS**

Kidney

Renal Tubule

Dilatation

Minimal

Inflammation

Chronic, Minimal

Mineralization

Minimal

Regeneration

Moderate

Note: [ DILATATION ] TGLs = 5

Lung

Alveolar/Bronchiolar Adenoma

Note: ALV BRON ADEN TGLs = 1-2

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 730

**TRT#:** 21

**SEX:** Male

**DAY ON TEST:** 458

**DOSE:** 0.0140% CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** A86037797

**OBSERVATIONS**

Kidney

Renal Tubule

Dilatation

Mild

Mineralization

Mild

Renal Tubule

Regeneration

Mild

Note: [ DILATATION ] TGLs = 5.1

Mesentery

Fat

Fungus

Fat

Inflammation

Pyogranulomat, Marked

Fat

Necrosis

Marked

Note: NECROSIS TGLs = 1-21

Note: INFLAMMATION TGLs = 1-21

Note: FUNGUS TGLs = 1-21

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 731

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 638

**DOSE:** 0.00700%CHLORINE

**DISP:** Natural Death

**HISTO:** A87042644

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                         |                          |                            |
|---------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Medulla   | Bone                    | Bone Marrow              | Brain                      |
| Epididymis                | Esophagus               | Gallbladder              | Heart                      |
| Intestine Large - Cecum   | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Jejunum | Lymph Node - Mandibular | Nose                     | Pancreas                   |
| Parathyroid Gland         | Pituitary Gland         | Prostate                 | Seminal Vesicle            |
| Skin                      | Stomach - Forestomach   | Stomach - Glandular      | Testes                     |
| Thymus                    | Trachea                 | Urinary Bladder          |                            |

**MISSING**

|                         |               |
|-------------------------|---------------|
| Intestine Small - Ileum | Mammary Gland |
|-------------------------|---------------|

**OBSERVATIONS**

|                                  |               |                                  |                   |
|----------------------------------|---------------|----------------------------------|-------------------|
| Adrenal Gland                    | Cortex        | Basophilic Focus                 |                   |
| Islets, Pancreatic               |               | Hyperplasia                      | Moderate          |
| Kidney                           | Renal Tubule  | Atrophy                          | Minimal           |
|                                  |               | Hyperplasia                      | Lymphoid, Minimal |
|                                  |               | Mineralization                   | Mild              |
|                                  | Renal Tubule  | Regeneration                     | Minimal           |
| Liver                            |               | Hemangiosarcoma                  |                   |
|                                  |               | Hepatocellular Adenoma           |                   |
|                                  | Centrilobular | Necrosis                         | Moderate          |
| Note: HEMANGIOSARC TGLs = 1-21   |               |                                  |                   |
| Note: HEPATOCLR ADEN TGLs = 3-22 |               |                                  |                   |
| Lung                             |               | Congestion                       | Mild              |
| Lymph Node                       | Mesenteric    | Hematopoietic Cell Proliferation | Minimal           |
|                                  | Mesenteric    | Hemorrhage                       | Moderate          |
| Note: HEMA CELL PROL TGLs = 2-5  |               |                                  |                   |
| Note: HEMORRHAGE TGLs = 2-5      |               |                                  |                   |
| Salivary Glands                  |               | Hyperplasia                      | Lymphoid, Minimal |
| Spleen                           |               | Hematopoietic Cell Proliferation | Minimal           |
| Thyroid Gland                    |               | Degeneration                     | Cystic, Moderate  |

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 731

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 638

**DOSE:** 0.00700%CHLORINE

**DISP:** Natural Death

**HISTO:** A87042644

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 732

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 682

**DOSE:** 0.00700%CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042645

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    | Nose                    |
| Pancreas                  | Parathyroid Gland        | Pituitary Gland            | Prostate                |
| Salivary Glands           | Seminal Vesicle          | Skin                       | Spleen                  |
| Stomach - Forestomach     | Stomach - Glandular      | Testes                     | Thyroid Gland           |
| Trachea                   | Urinary Bladder          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|   |                 |                          |                 |
|---|-----------------|--------------------------|-----------------|
| Adrenal Gland   | Capsule, Cortex | Adenoma                  |                 |
|   | Cortex          | Hyperplasia              | Focal, Mild     |
| Brain   | Thalamus        | Mineralization           | Mild            |
| Islets, Pancreatic  |                 | Hyperplasia              | Mild            |
| Kidney  |                 | Mineralization           | Mild            |
|   | Renal Tubule    | Regeneration             | Mild            |
| Liver   |                 | Hepatocellular Adenoma   | Multiple, Three |
|   |                 | Hepatocellular Carcinoma |                 |
|   |                 | Hyperplasia              | Focal, Moderate |
|   |                 | Mixed Cell Focus         |                 |
|   | Lobules         | Necrosis                 | Marked          |
| Note: NECROSIS ALSO PRESENT ON SLIDES 6 AND 24<br>Note: NECROSIS TGLs = 6-25<br>Note: HEPATOCLR ADEN TGLs = 2-21,3-22,4-23<br>Note: HYPERPLASIA TGLs = 8-26<br>Note: HEPATOCLR CARC TGLs = 5-24<br>[ Necrosis TGLs = 8-26 ] |                 |                          |                 |
| Lymph Node  | Mesenteric      | Hemorrhage               | Minimal         |
| Note: HEMORRHAGE TGLs = 7-5   |                 |                          |                 |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 732

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 682

**DOSE:** 0.00700%CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042645

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Thymus

Depletion Cellular

Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 733

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042646

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      |
| Lymph Node - Mandibular | Lymph Node - Mesenteric   | Pancreas                 | Parathyroid Gland          |
| Pituitary Gland         | Prostate                  | Skin                     | Spleen                     |
| Stomach - Forestomach   | Stomach - Glandular       | Testes                   | Thymus                     |
| Thyroid Gland           | Trachea                   | Urinary Bladder          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|  |              |                |                |
|--|--------------|----------------|----------------|
| Brain                                      | Thalamus     | Mineralization | Mild           |
| Kidney                                     |              | Cyst           |                |
|  |              | Mineralization | Mild           |
|  | Renal Tubule | Regeneration   | Moderate       |
| Note: CYST TGLs = 3-5                      |              |                |                |
| Lung                                       |              | Hyperplasia    | Lymphoid, Mild |
| Nose                                       |              | Exudate        |                |
| Preputial Gland                            |              | Ectasia        | Moderate       |
| Note: EXCESSIVE KERATIN WITHIN CYSTIC AREA |              |                |                |
| Note: ECTASIA TGLs = 1-8-1                 |              |                |                |
| Salivary Glands                            |              | Hyperplasia    | Lymphoid, Mild |
| Seminal Vesicle                            |              | Dilatation     | Moderate       |
| Note: DILATATION TGLs = 2-7                |              |                |                |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 734 | <b>TRT#:</b> 25               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 640 |
|                       | <b>DOSE:</b> 0.00700%CHLORINE | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87042647 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Salivary Glands          | Seminal Vesicle            | Skin                    |
| Spleen                    | Stomach - Glandular      | Trachea                    | Urinary Bladder         |

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**MISSING**

Mammary Gland

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**OBSERVATIONS**

|   |                     |                                   |                  |
|---|---------------------|-----------------------------------|------------------|
| Adrenal Gland                           | Cortex              | Accessory Adrenal Cortical Nodule |                  |
|   | Capsule, Cortex     | Hyperplasia                       | Mild             |
| Brain                                   | Thalamus            | Mineralization                    | Mild             |
| Islets, Pancreatic                      |                     | Hyperplasia                       | Mild             |
| Kidney                                  |                     | Casts Protein                     | Minimal          |
|   |                     | Mineralization                    | Moderate         |
|   | Renal Tubule        | Regeneration                      | Minimal          |
| Liver                                   |                     | Hyperplasia                       | Focal, Moderate  |
| Note: HYPERPLASIA                       | TGLs = 1-21         |                                   |                  |
| Note: FOCAL HYPERPLASIA ALSO ON SLIDE 6 |                     |                                   |                  |
| Stomach                                 | Forestomach, Mucosa | Hyperplasia                       | Mild             |
| Testes                                  | Seminif Tub         | Atrophy                           | Minimal          |
| Thymus                                  |                     | Depletion Cellular                | Mild             |
| Thyroid Gland                           |                     | Degeneration                      | Cystic, Moderate |

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 735

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042648

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Nose                     | Pancreas                   | Pituitary Gland         |
| Prostate                  | Salivary Glands          | Skin                       | Spleen                  |
| Stomach - Forestomach     | Stomach - Glandular      | Testes                     | Thyroid Gland           |
| Trachea                   | Urinary Bladder          |                            |                         |

**MISSING**

|               |                   |
|---------------|-------------------|
| Mammary Gland | Parathyroid Gland |
|---------------|-------------------|

**OBSERVATIONS**

|  |                  |                                   |                   |
|--|------------------|-----------------------------------|-------------------|
| Adrenal Gland                                      | Cortex           | Accessory Adrenal Cortical Nodule |                   |
|  | Capsule, Cortex  | Hyperplasia                       | Moderate          |
|  | Cortex           | Hyperplasia                       | Focal, Minimal    |
| Brain  | Thalamus         | Mineralization                    | Minimal           |
| Kidney   | Renal Tubule     | Atrophy                           | Minimal           |
|  |                  | Cyst                              |                   |
|  | Renal Tubule     | Hyperplasia                       | Focal, Minimal    |
|  |                  | Hyperplasia                       | Lymphoid, Minimal |
|  |                  | Mineralization                    | Mild              |
|  | Renal Tubule     | Regeneration                      | Mild              |
| Liver  |                  | Clear Cell Focus                  |                   |
|  |                  | Hyperplasia                       | Focal, Mild       |
| Note: CLEAR CL FOCUS                               | TGLs = 2-21,3-22 |                                   |                   |
| Seminal Vesicle                                    |                  | Dilatation                        | Marked            |
| Note: SECRETION OF ONE VESICLE APPEARS DEGENERATED |                  |                                   |                   |
| Note: DILATATION                                   | TGLs = 1-7       |                                   |                   |
| Thymus   |                  | Cyst                              |                   |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:12  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 736

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042649

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Medulla    | Bone                    | Bone Marrow               | Epididymis               |
| Esophagus                  | Gallbladder             | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Lung                     |
| Nose                       | Pancreas                | Parathyroid Gland         | Pituitary Gland          |
| Salivary Glands            | Skin                    | Spleen                    | Stomach - Forestomach    |
| Stomach - Glandular        | Testes                  | Thyroid Gland             | Trachea                  |
| Urinary Bladder            |                         |                           |                          |

**MISSING**

|                         |               |          |
|-------------------------|---------------|----------|
| Intestine Large - Cecum | Mammary Gland | Prostate |
|-------------------------|---------------|----------|

**INSUFFICIENT TISSUE**

Lymph Node - Mandibular

**OBSERVATIONS**

|  |              |                        |                  |
|--|--------------|------------------------|------------------|
| Adrenal Gland                              | Cortex       | Clear Cell Focus       |                  |
| Brain                                      | Thalamus     | Mineralization         | Mild             |
| Heart                                      | Myocardium   | Inflammation           | Chronic, Minimal |
| Islets, Pancreatic                         |              | Hyperplasia            | Moderate         |
| Kidney                                     | Renal Tubule | Atrophy                | Mild             |
|  | Renal Tubule | Mineralization         | Mild             |
|  |              | Regeneration           | Mild             |
| Liver                                      |              | Hepatocellular Adenoma | Five, Multiple   |
|  |              | Hyperplasia            | Focal, Moderate  |
| Note: HEPATOCLR ADEN TGLs = 5-22,6-23,9-24 |              |                        |                  |
| Note: HYPERPLASIA TGLs = 9-24              |              |                        |                  |
| Note: THREE ADENOMAS ON SLIDE 24           |              |                        |                  |
| Lymph Node                                 | Mesenteric   | Hemorrhage             | Mild             |
| Preputial Gland                            |              | Inflammation           | Chronic, Mild    |
| Note: INFLAMMATION TGLs = 2-8              |              |                        |                  |
| Seminal Vesicle                            |              | Dilatation             | Mild             |
| Note: DILATATION TGLs = 3-7                |              |                        |                  |
| Thymus                                     |              | Cyst                   |                  |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 736

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042649

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 737

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 562

**DOSE:** 0.00700%CHLORINE

**DISP:** Natural Death

**HISTO:** A87042650

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                           |                         |                          |
|----------------------------|---------------------------|-------------------------|--------------------------|
| Adrenal Gland - Cortex     | Adrenal Gland - Medulla   | Bone                    | Bone Marrow              |
| Brain                      | Epididymis                | Esophagus               | Gallbladder              |
| Heart                      | Intestine Large - Cecum   | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Jejunum | Islets, Pancreatic      | Lung                     |
| Lymph Node - Mandibular    | Lymph Node - Mesenteric   | Nose                    | Pancreas                 |
| Parathyroid Gland          | Pituitary Gland           | Prostate                | Salivary Glands          |
| Seminal Vesicle            | Skin                      | Stomach - Forestomach   | Stomach - Glandular      |
| Testes                     | Thyroid Gland             | Trachea                 | Urinary Bladder          |

**MISSING**

|                         |               |
|-------------------------|---------------|
| Intestine Small - Ileum | Mammary Gland |
|-------------------------|---------------|

**OBSERVATIONS**

|  |                  |                                  |          |
|--|------------------|----------------------------------|----------|
| Kidney                                   |                  | Casts Protein                    | Minimal  |
|  | Renal Tubule     | Regeneration                     | Minimal  |
| Liver                                    |                  | Basophilic Focus                 |          |
|  | Lobules          | Hepatocellular Carcinoma         |          |
|  |                  | Necrosis                         | Marked   |
| Note: NECROSIS                           | TGLs = 3-21,5-23 |                                  |          |
| Note: MOST SEVERE NECROSIS IS ON SLIDE 6 |                  |                                  |          |
| Note: BASOPH FOCUS                       | TGLs = 3-21      |                                  |          |
| Note: HEPATOCLR CARC                     | TGLs = 4-22      |                                  |          |
| Preputial Gland                          |                  | Ectasia                          | Moderate |
| Note: ECTASIA                            | TGLs = 1-8       |                                  |          |
| Spleen                                   | Lymph Follic     | Atrophy                          | Moderate |
|  |                  | Hematopoietic Cell Proliferation | Mild     |
| Thymus                                   |                  | Depletion Cellular               | Moderate |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 738

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 723

**DOSE:** 0.00700%CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042651

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Salivary Glands          | Spleen                     | Stomach - Forestomach   |
| Stomach - Glandular       | Testes                   | Thyroid Gland              | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**MISSING**

Mammary Gland                      Skin

**OBSERVATIONS**

|                                      |                 |                           |               |
|--------------------------------------|-----------------|---------------------------|---------------|
| Adrenal Gland                        | Capsule, Cortex | Hyperplasia               | Moderate      |
| Brain                                | Thalamus        | Mineralization            | Mild          |
| Islets, Pancreatic                   |                 | Adenoma                   |               |
| Note: [ ADENOMA    ] TGLs = 5.1      |                 |                           |               |
| Kidney                               |                 | Cyst                      |               |
|                                      | Renal Tubule    | Dilatation                | Moderate      |
|                                      |                 | Mineralization            | Moderate      |
|                                      | Renal Tubule    | Regeneration              | Moderate      |
| Note: REGENERATION    TGLs = 5-5     |                 |                           |               |
| Note: DILATATION       TGLs = 2-5    |                 |                           |               |
| Note: CYST             TGLs = 5-5    |                 |                           |               |
| Liver                                |                 | Hepatocellular Adenoma    | Multiple, Two |
|                                      | Lobules         | Necrosis                  | Mild          |
|                                      | Hepatocyte      | Vacuolization Cytoplasmic | Mild          |
| Note: [ HEPATOCLR ADEN ] TGLs = 6,21 |                 |                           |               |
| Note: VACUOLIZ CYTO    TGLs = 4-6    |                 |                           |               |
| Seminal Vesicle                      |                 | Dilatation                | Marked        |
| Note: DILATATION       TGLs = 1-7    |                 |                           |               |
| Thymus                               |                 | Cyst                      |               |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 738

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 723

**DOSE:** 0.00700%CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042651

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Depletion Cellular

Moderate

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 739

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 688

**DOSE:** 0.00700%CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042652

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                          |                            |                         |
|-------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus               | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Lung                    | Lymph Node - Mandibular  | Nose                       | Pancreas                |
| Parathyroid Gland       | Pituitary Gland          | Prostate                   | Salivary Glands         |
| Skin                    | Stomach - Forestomach    | Stomach - Glandular        | Testes                  |
| Trachea                 | Urinary Bladder          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|  |                           |                                  |                            |
|--|---------------------------|----------------------------------|----------------------------|
| Adrenal Gland                          | Capsule, Cortex<br>Cortex | Hyperplasia<br>Hyperplasia       | Moderate<br>Focal, Minimal |
| Note: [ HYPERPLASIA ] TGLs = 10        |                           |                                  |                            |
| Brain                                  | Thalamus                  | Mineralization                   | Minimal                    |
| Intestine Small                        | Jejunum                   | Lymphoma Malignant Mixed         |                            |
| Note: LYMPH MAL MIXD TGLs = 7-24       |                           |                                  |                            |
| Islets, Pancreatic                     |                           | Hyperplasia                      | Mild                       |
| Kidney                                 | Renal Tubule              | Atrophy                          | Mild                       |
|  |                           | Mineralization                   | Mild                       |
|  | Renal Tubule              | Necrosis                         | Minimal                    |
|  | Renal Tubule              | Regeneration                     | Mild                       |
| Liver                                  |                           | Hepatocellular Adenoma           | Multiple, Two              |
|  |                           | Hyperplasia                      | Focal, Moderate            |
| Note: HYPERPLASIA TGLs = 9-25          |                           |                                  |                            |
| Note: HEPATOCLR ADEN TGLs = 9-25,11-26 |                           |                                  |                            |
| Lymph Node                             | Mesenteric                | Hematopoietic Cell Proliferation | Mild                       |
|  | Mesenteric                | Hemorrhage                       | Mild                       |
|  | Iliac                     | Lymphoma Malignant Mixed         |                            |
|  | Mediastinal               | Lymphoma Malignant Mixed         |                            |
|  | Mesenteric                | Lymphoma Malignant Mixed         |                            |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 739 | <b>TRT#:</b> 25               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 688 |
|                       | <b>DOSE:</b> 0.00700%CHLORINE | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87042652 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|            |                          |
|------------|--------------------------|
| Pancreatic | Lymphoma Malignant Mixed |
| Renal      | Lymphoma Malignant Mixed |

Note: LYMPH MAL MIXD TGLs = 10-2-1  
Note: LYMPH MAL MIXD TGLs = 4-21  
[ Lymphoma Malignant Mixed TGLS = 5-22 ]  
[ Lymphoma Malignant Mixed TGLS = 8-5 ]  
[ Lymphoma Malignant Mixed TGLS = 6-23 ]

|                                 |                          |                 |
|---------------------------------|--------------------------|-----------------|
| Seminal Vesicle                 | Dilatation               | Moderate        |
| Note: DILATATION TGLs = 1-7     |                          |                 |
| Spleen                          | Lymphoma Malignant Mixed |                 |
| Note: LYMPH MAL MIXD TGLs = 2-6 |                          |                 |
| Thymus                          | Lymphoma Malignant Mixed |                 |
| Thyroid Gland                   | Degeneration             | Cystic, Minimal |

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 740

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 562

**DOSE:** 0.00700%CHLORINE

**DISP:** Natural Death

**HISTO:** A87042653

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lymph Node - Mandibular  | Lymph Node - Mesenteric    |
| Pancreas                | Parathyroid Gland         | Pituitary Gland          | Prostate                   |
| Salivary Glands         | Seminal Vesicle           | Skin                     | Stomach - Forestomach      |
| Stomach - Glandular     | Testes                    | Thymus                   | Thyroid Gland              |
| Trachea                 | Urinary Bladder           |                          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                      |                  |                                  |                 |
|----------------------|------------------|----------------------------------|-----------------|
| Brain                | Thalamus         | Mineralization                   | Minimal         |
| Islets, Pancreatic   |                  | Hyperplasia                      | Moderate        |
| Kidney               | Transit Epithe   | Hyperplasia                      | Minimal         |
|                      |                  | Mineralization                   | Mild            |
|                      | Renal Tubule     | Regeneration                     | Minimal         |
| Liver                |                  | Clear Cell Focus                 |                 |
|                      |                  | Hepatocellular Adenoma           |                 |
| Note: HEPATOCLR ADEN | TGLs = 5-22      |                                  |                 |
| Note: CLEAR CL FOCUS | TGLs = 6-23      |                                  |                 |
| Lung                 |                  | Alveolar/Bronchiolar Adenoma     |                 |
| Nose                 |                  | Exudate                          |                 |
|                      | Glands           | Hyperplasia                      | Cystic, Minimal |
| Spleen               |                  | Hemangiosarcoma                  |                 |
|                      |                  | Hematopoietic Cell Proliferation | Moderate        |
| Note: HEMA CELL PROL | TGLs = 3-21      |                                  |                 |
| Note: HEMANGIOSARC   | TGLs = 3-21,4-21 |                                  |                 |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 741

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042654

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Nose                    |
| Pancreas                  | Parathyroid Gland        | Pituitary Gland            | Prostate                |
| Skin                      | Spleen                   | Stomach - Forestomach      | Stomach - Glandular     |
| Testes                    | Thymus                   | Thyroid Gland              | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|  |              |                                   |                   |
|--|--------------|-----------------------------------|-------------------|
| Adrenal Gland                          | Cortex       | Accessory Adrenal Cortical Nodule |                   |
|  | Cortex       | Hyperplasia                       | Focal, Mild       |
| Brain                                  | Thalamus     | Mineralization                    | Moderate          |
| Kidney                                 |              | Casts Protein                     | Minimal           |
|  |              | Granuloma                         | Minimal           |
|  |              | Mineralization                    | Moderate          |
|  | Renal Tubule | Regeneration                      | Moderate          |
| Liver                                  |              | Hepatocellular Adenoma            | Multiple, Two     |
|  |              | Hyperplasia                       | Focal, Moderate   |
| Note: FOCAL HYPERPLASIA IS ON SLIDE 22 |              |                                   |                   |
| Note: HEPATOCLR ADEN TGLs = 1-21,4-22  |              |                                   |                   |
| Lung                                   |              | Alveolar/Bronchiolar Carcinoma    |                   |
| Note: ALV BRON CARC TGLs = 2-2-1       |              |                                   |                   |
| Lymph Node                             | Mesenteric   | Hemorrhage                        | Moderate          |
| Salivary Glands                        |              | Hyperplasia                       | Lymphoid, Minimal |
| Seminal Vesicle                        |              | Dilatation                        | Mild              |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 742

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042655

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Salivary Glands          | Seminal Vesicle            | Skin                    |
| Stomach - Forestomach     | Testes                   | Thyroid Gland              | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                  |              |                                  |                   |
|----------------------------------|--------------|----------------------------------|-------------------|
| Bone Marrow                      |              | Hypercellularity                 | Moderate          |
| Brain                            | Thalamus     | Mineralization                   | Moderate          |
| Kidney                           | Renal Tubule | Atrophy                          | Minimal           |
|                                  |              | Cyst                             |                   |
|                                  |              | Mineralization                   | Moderate          |
|                                  | Renal Tubule | Regeneration                     | Moderate          |
| Liver                            |              | Hepatoblastoma                   |                   |
|                                  |              | Hepatocellular Adenoma           |                   |
|                                  |              | Hepatocellular Carcinoma         | Multiple, Two     |
|                                  |              | Inflammation                     | Chronic, Moderate |
|                                  | Lobules      | Necrosis                         | Moderate          |
| Note: HEPATOBLASTOMA TGLs = 2-21 |              |                                  |                   |
| Note: NECROSIS TGLs = 5-24,6-25  |              |                                  |                   |
| Lymph Node                       | Mesenteric   | Hemorrhage                       | Moderate          |
| Spleen                           |              | Hematopoietic Cell Proliferation | Mild              |
| Stomach                          | Glandular    | Cyst                             |                   |
| Thymus                           |              | Depletion Cellular               | Moderate          |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 743

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042656

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Salivary Glands           | Skin                     | Spleen                     | Stomach - Forestomach   |
| Stomach - Glandular       | Testes                   | Thymus                     | Thyroid Gland           |
| Trachea                   | Urinary Bladder          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                      |              |                        |                  |
|----------------------|--------------|------------------------|------------------|
| Adrenal Gland        | Cortex       | Hyperplasia            | Focal, Mild      |
| Brain                | Thalamus     | Mineralization         | Moderate         |
| Islets, Pancreatic   |              | Hyperplasia            | Minimal          |
| Kidney               |              | Cyst                   |                  |
|                      |              | Mineralization         | Moderate         |
|                      | Renal Tubule | Regeneration           | Mild             |
| Liver                |              | Clear Cell Focus       |                  |
|                      |              | Hepatocellular Adenoma |                  |
|                      |              | Hyperplasia            | Focal, Moderate  |
| Note: HEPATOCLR ADEN | TGLs = 3-21  |                        |                  |
| Note: HYPERPLASIA    | TGLs = 3-21  |                        |                  |
| Preputial Gland      |              | Ectasia                | Moderate         |
| Note: ECTASIA        | TGLs = 2-8   |                        |                  |
| Prostate             |              | Inflammation           | Chronic, Minimal |
| Seminal Vesicle      |              | Dilatation             | Moderate         |
| Note: DILATATION     | TGLs = 1-7   |                        |                  |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 744

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 666

**DOSE:** 0.00700%CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042657

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lymph Node - Mesenteric  | Parathyroid Gland          |
| Pituitary Gland         | Prostate                  | Salivary Glands          | Spleen                     |
| Stomach - Forestomach   | Testes                    | Trachea                  | Urinary Bladder            |

**MISSING**

|                   |               |
|-------------------|---------------|
| Coagulating Gland | Mammary Gland |
|-------------------|---------------|

**OBSERVATIONS**

|   |              |                    |                   |
|---|--------------|--------------------|-------------------|
| Brain                                   | Thalamus     | Mineralization     | Moderate          |
| Islets, Pancreatic                      |              | Hyperplasia        | Mild              |
| Kidney                                  |              | Mineralization     | Moderate          |
|   | Renal Tubule | Regeneration       | Mild              |
| Liver                                   |              | Hyperplasia        | Focal, Moderate   |
| Note: HYPERPLASIA TGLs = 5-22           |              |                    |                   |
| Note: FOCAL HYPERPLASIA ALSO ON SLIDE 6 |              |                    |                   |
| Lung                                    |              | Hemorrhage         | Moderate          |
| Lymph Node                              | Mandibular   | Hyperplasia        | Plasma Cell, Mild |
| Nose                                    |              | Exudate            |                   |
| Pancreas                                |              | Atrophy            | Mild              |
| Seminal Vesicle                         |              | Dilatation         | Marked            |
| Note: DILATATION TGLs = 2-7             |              |                    |                   |
| Skin                                    | Subcut Tiss  | Melanoma Malignant |                   |
| Note: MELANOMA MAL TGLs = 4-21          |              |                    |                   |
| Stomach                                 | Glandular    | Cyst               |                   |
| Thymus                                  |              | Depletion Cellular | Marked            |
| Thyroid Gland                           |              | Degeneration       | Cystic, Moderate  |
| Tooth                                   |              | Dysplasia          | Moderate          |
| Note: DYSPLASIA TGLs = 1-9              |              |                    |                   |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 744

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 666

**DOSE:** 0.00700%CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042657

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: INFUSION ARTIFACT IN URINARY BLADDER

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 745

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042658

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Mesentery               |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Salivary Glands          | Skin                       | Spleen                  |
| Stomach - Forestomach     | Stomach - Glandular      | Testes                     | Thymus                  |
| Thyroid Gland             | Trachea                  | Urinary Bladder            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                          |              |                              |                  |
|--------------------------|--------------|------------------------------|------------------|
| Adrenal Gland            | Cortex       | Hyperplasia                  | Focal, Minimal   |
| Brain                    | Thalamus     | Mineralization               | Mild             |
| Coagulating Gland        |              | Dilatation                   | Mild             |
| Note: DILATATION         | TGLs = 7-7   |                              |                  |
| Islets, Pancreatic       |              | Hyperplasia                  | Mild             |
| Kidney                   |              | Casts Protein                | Minimal          |
|                          | Renal Tubule | Dilatation                   | Minimal          |
|                          |              | Mineralization               | Mild             |
|                          | Renal Tubule | Regeneration                 | Minimal          |
| Liver                    |              | Hepatocellular Adenoma       | Multiple, Two    |
|                          |              | Inflammation                 | Chronic, Minimal |
|                          | Hepatocyte   | Karyomegaly                  | Mild             |
|                          | Lobules      | Necrosis                     | Marked           |
| Note: NECROSIS           | TGLs = 2-21  |                              |                  |
| Note: [ HEPATOCLR ADEN ] | TGLs = 6,6.1 |                              |                  |
| Lung                     |              | Alveolar/Bronchiolar Adenoma |                  |
|                          |              | Infiltration Cellular        | Histiocyte, Mild |
| Note: [ ALV BRON ADEN ]  | TGLs = 2.1   |                              |                  |
| Seminal Vesicle          |              | Dilatation                   | Moderate         |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 745

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042658

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: DILATATION TGLs = 1-7

Tooth

Dysplasia

Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 746

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042659

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Salivary Glands          | Seminal Vesicle            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Stomach - Glandular        | Testes                  |
| Thymus                    | Trachea                  | Urinary Bladder            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|   |                 |                          |                   |
|---|-----------------|--------------------------|-------------------|
| Adrenal Gland   | Capsule, Cortex | Hyperplasia              | Moderate          |
| Brain   | Thalamus        | Mineralization           | Minimal           |
| Kidney  |                 | Hyperplasia              | Lymphoid, Minimal |
|   |                 | Mineralization           | Mild              |
|   | Renal Tubule    | Regeneration             | Mild              |
| Liver   |                 | Clear Cell Focus         |                   |
|   |                 | Hepatocellular Adenoma   | Multiple, Two     |
|   |                 | Hepatocellular Carcinoma |                   |
| <p>Note: CLEAR CELL FOCUS IS ON SLIDE 22</p> <p>Note: HEPATOCLR CARC TGLs = 2-21</p> <p>Note: HEPATOCLR ADEN TGLs = 3-22,4-23</p> |                 |                          |                   |
| Lymph Node  | Mesenteric      | Hemorrhage               | Minimal           |
| Preputial Gland   |                 | Ectasia                  | Moderate          |
| Note: ECTASIA TGLs = 1-8  |                 |                          |                   |
| Thyroid Gland   | Follicular Cel  | Adenoma                  |                   |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 747

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 730

**DOSE:** 0.00700%CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87042660

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                          |                            |                         |
|-------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Epididymis              | Esophagus                | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Islets, Pancreatic      | Lung                     | Lymph Node - Mandibular    | Nose                    |
| Pancreas                | Parathyroid Gland        | Pituitary Gland            | Prostate                |
| Seminal Vesicle         | Skin                     | Stomach - Forestomach      | Stomach - Glandular     |
| Testes                  | Trachea                  | Urinary Bladder            |                         |

**MISSING**

|             |               |        |
|-------------|---------------|--------|
| Gallbladder | Mammary Gland | Thymus |
|-------------|---------------|--------|

**OBSERVATIONS**

|                                    |            |                                  |                    |
|------------------------------------|------------|----------------------------------|--------------------|
| Brain                              | Thalamus   | Mineralization                   | Mild               |
| Intestine Small                    | Jejunum    | Carcinoma                        |                    |
| Note: CARCINOMA    TGLs = 5-22     |            |                                  |                    |
| Kidney                             |            | Cyst                             |                    |
|                                    |            | Hyperplasia                      | Lymphoid, Moderate |
|                                    |            | Mineralization                   | Minimal            |
| Note: HYPERPLASIA    TGLs = 3-5    |            |                                  |                    |
| Liver                              |            | Hemangiosarcoma                  |                    |
| Note: HEMANGIOSARC    TGLs = 4-21  |            |                                  |                    |
| Lymph Node                         | Mesenteric | Hemangiosarcoma                  |                    |
| Salivary Glands                    |            | Hyperplasia                      | Lymphoid, Minimal  |
| Spleen                             |            | Hematopoietic Cell Proliferation | Marked             |
| Note: HEMA CELL PROL    TGLs = 2-6 |            |                                  |                    |
| Thyroid Gland                      |            | Degeneration                     | Cystic, Mild       |

**PRIMARY CAUSE OF DEATH**    -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 748

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 733

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042661

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Epididymis                | Esophagus                | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Salivary Glands          | Skin                       | Spleen                  |
| Stomach - Forestomach     | Testes                   | Thymus                     | Thyroid Gland           |
| Trachea                   | Urinary Bladder          |                            |                         |

**MISSING**

Mammary Gland                      Tooth

**OBSERVATIONS**

|   |              |                              |                    |
|---|--------------|------------------------------|--------------------|
| Brain                                   | Thalamus     | Mineralization               | Minimal            |
| Gallbladder                             |              | Cyst                         |                    |
| Islets, Pancreatic                      |              | Hyperplasia                  | Mild               |
| Kidney                                  |              | Cyst                         |                    |
|   | Renal Tubule | Mineralization               | Minimal            |
|   |              | Regeneration                 | Mild               |
| Liver                                   |              | Hyperplasia                  | Focal, Moderate    |
| Note: FOCAL HYPERPLASIA ALSO ON SLIDE 6 |              |                              |                    |
| Note: HYPERPLASIA    TGLs = 3-21        |              |                              |                    |
| Lung                                    |              | Alveolar/Bronchiolar Adenoma | Multiple, Two      |
| Note: ALV BRON ADEN    TGLs = 5-2,6-2   |              |                              |                    |
| Lymph Node                              | Mesenteric   | Hemorrhage                   | Minimal            |
|   | Mandibular   | Hyperplasia                  | Lymphoid, Moderate |
| Nose                                    |              | Exudate                      |                    |
| Preputial Gland                         |              | Ectasia                      | Moderate           |
| Note: ECTASIA        TGLs = 1-8-1       |              |                              |                    |
| Seminal Vesicle                         |              | Fibrosis                     | Mild               |
|   |              | Inflammation                 | Chronic, Mild      |
| Note: INFLAMMATION    TGLs = 2-7        |              |                              |                    |
| Note: SECRETION APPEARS DEGENERATED     |              |                              |                    |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 748 | <b>TRT#:</b> 25               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 733 |
|                       | <b>DOSE:</b> 0.00700%CHLORINE | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042661 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                               |                   |             |      |
|-------------------------------|-------------------|-------------|------|
| Note: FIBROSIS                | TGLs = 2-7        |             |      |
| Stomach                       | Glandular         | Cyst        |      |
|                               | Glandular, Mucosa | Hyperplasia | Mild |
| <b>PRIMARY CAUSE OF DEATH</b> | -                 |             |      |

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 749

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042662

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Epididymis                |
| Esophagus                | Gallbladder                | Heart                   | Intestine Large - Cecum   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lymph Node - Mandibular    | Nose                    | Parathyroid Gland         |
| Pituitary Gland          | Prostate                   | Salivary Glands         | Seminal Vesicle           |
| Skin                     | Spleen                     | Stomach - Forestomach   | Stomach - Glandular       |
| Testes                   | Trachea                    | Urinary Bladder         |                           |

**MISSING**

|                         |                         |               |
|-------------------------|-------------------------|---------------|
| Intestine Large - Colon | Lymph Node - Mesenteric | Mammary Gland |
|-------------------------|-------------------------|---------------|

**INSUFFICIENT TISSUE**

Thymus

**OBSERVATIONS**

|                   |                 |                |                 |
|-------------------|-----------------|----------------|-----------------|
| Adrenal Gland     | Capsule, Cortex | Hyperplasia    | Mild            |
|                   | Cortex          | Hyperplasia    | Focal, Moderate |
| Brain             | Thalamus        | Mineralization | Mild            |
| Kidney            |                 | Mineralization | Mild            |
|                   | Renal Tubule    | Regeneration   | Mild            |
| Liver             |                 | Angiectasis    | Mild            |
|                   |                 | Hyperplasia    | Focal, Mild     |
| Note: HYPERPLASIA | TGLs = 2-22     |                |                 |
| Lung              |                 | Hemorrhage     | Mild            |
| Pancreas          |                 | Atrophy        | Minimal         |
| Thyroid Gland     |                 | Degeneration   | Cystic, Minimal |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 750

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042663

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    |
| Lymph Node - Mesenteric | Pancreas                  | Parathyroid Gland        | Pituitary Gland            |
| Prostate                | Salivary Glands           | Seminal Vesicle          | Skin                       |
| Spleen                  | Stomach - Forestomach     | Stomach - Glandular      | Testes                     |
| Thyroid Gland           | Trachea                   | Urinary Bladder          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                      |                  |                           |                   |
|----------------------|------------------|---------------------------|-------------------|
| Brain                | Thalamus         | Mineralization            | Mild              |
| Islets, Pancreatic   |                  | Hyperplasia               | Mild              |
| Kidney               |                  | Cyst                      |                   |
|                      |                  | Hyperplasia               | Lymphoid, Minimal |
|                      |                  | Mineralization            | Moderate          |
|                      | Renal Tubule     | Regeneration              | Mild              |
| Liver                |                  | Basophilic Focus          |                   |
|                      |                  | Clear Cell Focus          |                   |
|                      |                  | Hepatocellular Adenoma    |                   |
|                      | Hepatocyte       | Vacuolization Cytoplasmic | Moderate          |
| Note: HEPATOCLR ADEN | TGLs = 1-21      |                           |                   |
| Note: CLEAR CL FOCUS | TGLs = 2-22,3-23 |                           |                   |
| Note: BASOPH FOCUS   | TGLs = 2-22      |                           |                   |
| Nose                 |                  | Exudate                   |                   |
|                      | Glands           | Hyperplasia               | Cystic, Minimal   |
| Thymus               |                  | Cyst                      |                   |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 751

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042664

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Epididymis              | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lymph Node - Mesenteric  | Nose                       |
| Pancreas                | Parathyroid Gland         | Pituitary Gland          | Prostate                   |
| Seminal Vesicle         | Skin                      | Stomach - Forestomach    | Stomach - Glandular        |
| Testes                  | Thyroid Gland             | Trachea                  | Urinary Bladder            |

**MISSING**

|               |        |
|---------------|--------|
| Mammary Gland | Thymus |
|---------------|--------|

**OBSERVATIONS**

|                                  |              |                              |                   |
|----------------------------------|--------------|------------------------------|-------------------|
| Brain                            |              | Cyst                         |                   |
|                                  | Thalamus     | Mineralization               | Mild              |
| Islets, Pancreatic               |              | Hyperplasia                  | Mild              |
| Kidney                           |              | Mineralization               | Moderate          |
|                                  | Renal Tubule | Regeneration                 | Mild              |
| Liver                            |              | Hepatocellular Adenoma       |                   |
| Note: HEPATOCLR ADEN TGLs = 2-21 |              |                              |                   |
| Lung                             |              | Alveolar/Bronchiolar Adenoma |                   |
| Note: [ ALV BRON ADEN ] TGLs = 2 |              |                              |                   |
| Lymph Node                       | Mandibular   | Hyperplasia                  | Lymphoid, Mild    |
| Salivary Glands                  |              | Hyperplasia                  | Lymphoid, Minimal |
| Spleen                           | Lymph Follic | Hyperplasia                  | Mild              |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 752

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042665

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Prostate                  | Salivary Glands          | Seminal Vesicle            | Skin                    |
| Stomach - Forestomach     | Stomach - Glandular      | Testes                     | Thymus                  |
| Trachea                   | Urinary Bladder          |                            |                         |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                      |                |                                   |                                     |
|--------------------------------------|----------------|-----------------------------------|-------------------------------------|
| Adrenal Gland                        | Cortex         | Accessory Adrenal Cortical Nodule |                                     |
| Brain                                | Thalamus       | Mineralization                    | Minimal                             |
| Kidney                               | Renal Tubule   | Atrophy                           | Minimal                             |
|                                      |                | Mineralization                    | Mild                                |
| Liver                                | Renal Tubule   | Regeneration                      | Moderate                            |
|                                      |                | Hemangiosarcoma                   | Metastatic (Uncertain Primary Site) |
|                                      |                | Hepatocellular Adenoma            |                                     |
|                                      |                |                                   |                                     |
|                                      |                |                                   |                                     |
| Note: [ HEPATOCLR ADEN ] TGLs = 21.1 |                |                                   |                                     |
| Lymph Node                           | Mesenteric     | Hematopoietic Cell Proliferation  | Mild                                |
|                                      | Mesenteric     | Hemorrhage                        | Moderate                            |
|                                      |                |                                   |                                     |
| Note: HEMA CELL PROL TGLs = 4-5      |                |                                   |                                     |
| Note: HEMORRHAGE TGLs = 4-5          |                |                                   |                                     |
| Spleen                               |                | Hemangiosarcoma                   |                                     |
| Note: HEMANGIOSARC TGLs = 1-6,2-6    |                |                                   |                                     |
| Thyroid Gland                        | Follicular Cel | Hyperplasia                       | Minimal                             |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 753

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 734

**DOSE:** 0.00700%CHLORINE

**DISP:** Natural Death

**HISTO:** A87042666

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Epididymis              | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular | Nose                      |
| Pancreas                 | Parathyroid Gland          | Pituitary Gland         | Prostate                  |
| Salivary Glands          | Seminal Vesicle            | Skin                    | Stomach - Forestomach     |
| Stomach - Glandular      | Testes                     | Thyroid Gland           | Trachea                   |
| Urinary Bladder          |                            |                         |                           |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                      |              |                                  |                   |
|----------------------|--------------|----------------------------------|-------------------|
| Adrenal Gland        | Cortex       | Hyperplasia                      | Focal, Minimal    |
| Bone Marrow          |              | Histiocytic Sarcoma              |                   |
| Brain                | Thalamus     | Mineralization                   | Minimal           |
| Kidney               | Renal Tubule | Atrophy                          | Minimal           |
|                      | Renal Tubule | Cyst                             |                   |
|                      |              | Dilatation                       | Mild              |
|                      |              | Hyperplasia                      | Lymphoid, Minimal |
|                      |              | Mineralization                   | Moderate          |
|                      | Renal Tubule | Regeneration                     | Moderate          |
| Liver                |              | Hepatocellular Adenoma           |                   |
|                      |              | Hepatodiaphragmatic Nodule       |                   |
|                      |              | Histiocytic Sarcoma              |                   |
| Note: ANOM HEPAT LOB | TGLs = 4-22  |                                  |                   |
| Note: HEPATOCLR ADEN | TGLs = 3-21  |                                  |                   |
| Lymph Node           | Mesenteric   | Hemorrhage                       | Mild              |
|                      | Mesenteric   | Histiocytic Sarcoma              |                   |
| Note: HEMORRHAGE     | TGLs = 2-5   |                                  |                   |
| Spleen               |              | Hematopoietic Cell Proliferation | Mild              |
|                      |              | Histiocytic Sarcoma              |                   |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 753

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 734

**DOSE:** 0.00700%CHLORINE

**DISP:** Natural Death

**HISTO:** A87042666

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: HEMA CELL PROL TGLs = 1-6

Thymus

Cyst

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 754

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042667

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Epididymis              |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lung                     | Nose                       | Pancreas                |
| Parathyroid Gland         | Pituitary Gland          | Prostate                   | Salivary Glands         |
| Skin                      | Spleen                   | Stomach - Glandular        | Testes                  |
| Trachea                   | Urinary Bladder          |                            |                         |

**MISSING**

Mammary Gland

**INSUFFICIENT TISSUE**

Lymph Node - Mandibular

**OBSERVATIONS**

|                          |              |                        |                   |
|--------------------------|--------------|------------------------|-------------------|
| Adrenal Gland            | Cortex       | Basophilic Focus       |                   |
|                          | Cortex       | Hyperplasia            | Focal, Minimal    |
| Brain                    | Thalamus     | Mineralization         | Minimal           |
| Coagulating Gland        |              | Dilatation             | Marked            |
| Note: DILATATION         | TGLs = 5-7   |                        |                   |
| Harderian Gland          |              | Adenoma                |                   |
| Note: ADENOMA            | TGLs = 4-9   |                        |                   |
| Islets, Pancreatic       |              | Hyperplasia            | Moderate          |
| Kidney                   | Renal Tubule | Atrophy                | Mild              |
|                          |              | Cyst                   |                   |
|                          |              | Hyperplasia            | Lymphoid, Minimal |
|                          |              | Mineralization         | Mild              |
|                          | Renal Tubule | Regeneration           | Mild              |
| Liver                    |              | Clear Cell Focus       |                   |
|                          |              | Hepatocellular Adenoma | Multiple, Two     |
|                          |              | Hyperplasia            | Focal, Moderate   |
| Note: [ HEPATOCLR ADEN ] | TGLs = 21,22 |                        |                   |
| Note: HYPERPLASIA        | TGLs = 7-22  |                        |                   |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 754 | <b>TRT#:</b> 25               | <b>SEX:</b> Male                | <b>DAY ON TEST:</b> 737 |
|                       | <b>DOSE:</b> 0.00700%CHLORINE | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87042667 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: FOCAL HYPERPLASIA ALSO ON SLIDE 6

Note: CLEAR CL FOCUS TGLs = 7-22

|                 |            |                                  |                  |
|-----------------|------------|----------------------------------|------------------|
| Lymph Node      | Mesenteric | Hematopoietic Cell Proliferation | Minimal          |
|                 | Mesenteric | Hemorrhage                       | Moderate         |
| Seminal Vesicle |            | Dilatation                       | Moderate         |
|                 |            | Inflammation                     | Chronic, Minimal |

Note: DILATATION TGLs = 1-7

Note: INFLAMMATION TGLs = 2-7

|               |             |                         |                |
|---------------|-------------|-------------------------|----------------|
| Stomach       | Forestomach | Squamous Cell Papilloma |                |
|               |             | Cyst                    |                |
| Thymus        |             | Inflammation            | Subacute, Mild |
| Thyroid Gland |             | Dysplasia               | Marked         |
| Tooth         |             |                         |                |

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PRIMARY CAUSE OF DEATH -

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Animal Note: ESOPHAGUS PRESENT ON SLIDE 2

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 755

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 737

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87042668

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Medulla | Bone                      | Bone Marrow              | Epididymis                 |
| Esophagus               | Gallbladder               | Harderian Gland          | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lymph Node - Mandibular  | Nose                       |
| Pancreas                | Parathyroid Gland         | Pituitary Gland          | Prostate                   |
| Salivary Glands         | Seminal Vesicle           | Skin                     | Spleen                     |
| Stomach - Forestomach   | Stomach - Glandular       | Testes                   | Thymus                     |
| Trachea                 | Urinary Bladder           |                          |                            |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                                  |                 |                              |          |
|----------------------------------|-----------------|------------------------------|----------|
| Adrenal Gland                    | Capsule, Cortex | Hyperplasia                  | Moderate |
| Brain                            | Thalamus        | Mineralization               | Minimal  |
| Islets, Pancreatic               |                 | Hyperplasia                  | Moderate |
| Kidney                           | Renal Tubule    | Atrophy                      | Mild     |
|                                  |                 | Cyst                         |          |
|                                  |                 | Mineralization               | Moderate |
|                                  | Papilla         | Necrosis                     | Moderate |
|                                  | Renal Tubule    | Regeneration                 | Moderate |
| Liver                            |                 | Hepatocellular Adenoma       |          |
| Lung                             |                 | Alveolar/Bronchiolar Adenoma |          |
| Note: ALV BRON ADEN TGLs = 2-2-1 |                 |                              |          |
| Lymph Node                       | Mesenteric      | Hemorrhage                   | Minimal  |
| Thyroid Gland                    | Follicular Cel  | Hyperplasia                  | Minimal  |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 756

**TRT#:** 26

**SEX:** Male

**DAY ON TEST:** 100

**DOSE:** 0.00700% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** 39565

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**OBSERVATIONS**

Kidney

Renal Tubule

Regeneration

Minimal

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 761

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 458

**DOSE:** 0.00700%CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** 37804

---

**OBSERVATIONS**

Kidney

Renal Tubule

Dilatation

Minimal

Mineralization

Mild

Renal Tubule

Regeneration

Minimal

Note: [ MINERALIZATION ] TGLs = 5.1

[ Mineralization TGLS = 5.1 ]

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 762

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 457

**DOSE:** 0.00700%CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** 37805

---

**OBSERVATIONS**

Kidney

Renal Tubule

Dilatation

Minimal

Mineralization

Mild

Renal Tubule

Regeneration

Mild

[ Dilatation TGLS = 5 ]

[ Mineralization TGLS = 5 ]

[ Regeneration TGLS = 5 ]

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 763

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0.00700%CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** 37806

---

**OBSERVATIONS**

Kidney

Renal Tubule

Dilatation

Minimal

Mineralization

Mild

Renal Tubule

Regeneration

Minimal

[ Dilatation TGLS = 5 ]

[ Mineralization TGLS = 5 ]

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 764

**TRT#:** 25  
**DOSE:** 0.00700%CHLORINE

**SEX:** Male  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:** 458  
**HISTO:** 37807

---

**OBSERVATIONS**

Kidney

Casts Protein  
Cyst  
Inflammation  
Mineralization  
Regeneration

Minimal  
Mild  
Chronic, Mild  
Mild  
Mild

Renal Tubule

[ Casts Protein TGLS = 5 ]  
[ Cyst TGLS = 5 ]  
[ Inflammation TGLS = 5 ]  
[ Regeneration TGLS = 5.1 ]

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 765

**TRT#:** 25

**SEX:** Male

**DAY ON TEST:** 456

**DOSE:** 0.00700%CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** 37808

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**OBSERVATIONS**

Kidney

Renal Tubule

Dilatation

Minimal

Mineralization

Mild

Renal Tubule

Regeneration

Minimal

[ Dilatation TGLS = 5 ]

[ Mineralization TGLS = 5 ]

[ Regeneration TGLS = 5 ]

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 246

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87043359

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      | Lung                    |
| Lymph Node - Mandibular   | Mammary Gland            | Nose                       | Parathyroid Gland       |
| Pituitary Gland           | Salivary Glands          | Skin                       | Stomach - Forestomach   |
| Thymus                    | Thyroid Gland            | Trachea                    | Urinary Bladder         |

**OBSERVATIONS**

|                                 |              |                          |                       |
|---------------------------------|--------------|--------------------------|-----------------------|
| Brain                           | Thalamus     | Mineralization           | Minimal               |
| Kidney                          |              | Hyperplasia              | Lymphoid, Minimal     |
|                                 | Renal Tubule | Regeneration             | Minimal               |
| Lymph Node                      | Mesenteric   | Hyperplasia              | Plasma Cell, Moderate |
| Ovary                           |              | Hemangioma               |                       |
| Pancreas                        |              | Hyperplasia              | Lymphoid, Minimal     |
| Spleen                          |              | Lymphoma Malignant Mixed |                       |
| Note: LYMPH MAL MIXD TGLs = 2-6 |              |                          |                       |
| Stomach                         | Glandular    | Cyst                     |                       |
| Uterus                          |              | Hyperplasia              | Cystic, Moderate      |
| Note: HYPERPLASIA TGLs = 1-7    |              |                          |                       |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                              |                            |                         |
|-----------------------|------------------------------|----------------------------|-------------------------|
| <b>ANIMAL ID:</b> 247 | <b>TRT#:</b> 3               | <b>SEX:</b> Female         | <b>DAY ON TEST:</b> 581 |
|                       | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Natural Death | <b>HISTO:</b> A87043360 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                         |                          |                            |                           |
|-------------------------|--------------------------|----------------------------|---------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla  | Bone                       | Bone Marrow               |
| Esophagus               | Gallbladder              | Heart                      | Intestine Large - Cecum   |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Jejunum |
| Islets, Pancreatic      | Liver                    | Lung                       | Lymph Node - Mandibular   |
| Lymph Node - Mesenteric | Mammary Gland            | Nose                       | Ovary                     |
| Parathyroid Gland       | Pituitary Gland          | Salivary Glands            | Skin                      |
| Spleen                  | Stomach - Forestomach    | Trachea                    | Urinary Bladder           |

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**MISSING**

|                         |        |
|-------------------------|--------|
| Intestine Small - Ileum | Thymus |
|-------------------------|--------|

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**OBSERVATIONS**

|               |              |                        |                  |
|---------------|--------------|------------------------|------------------|
| Brain         | Thalamus     | Mineralization         | Mild             |
| Kidney        | Renal Tubule | Regeneration           | Moderate         |
| Pancreas      |              | Cytoplasmic Alteration | Mild             |
| Stomach       | Glandular    | Erosion                | Mild             |
| Thyroid Gland |              | Degeneration           | Cystic, Minimal  |
| Uterus        |              | Hyperplasia            | Cystic, Moderate |

Note: HYPERPLASIA TGLs = 1-7

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 248

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 561

**DOSE:** VEHICLE CONTROL

**DISP:** Moribund Sacrifice

**HISTO:** A87043361

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                         |                           |                         |
|--------------------------|-------------------------|---------------------------|-------------------------|
| Adrenal Gland - Cortex   | Adrenal Gland - Medulla | Bone                      | Esophagus               |
| Gallbladder              | Heart                   | Intestine Large - Cecum   | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic      |
| Lung                     | Lymph Node - Mandibular | Lymph Node - Mesenteric   | Mammary Gland           |
| Nose                     | Ovary                   | Parathyroid Gland         | Pituitary Gland         |
| Skin                     | Stomach - Glandular     | Trachea                   | Urinary Bladder         |

**MISSING**

Intestine Small - Duodenum

**OBSERVATIONS**

|                                  |                     |                                  |                       |
|----------------------------------|---------------------|----------------------------------|-----------------------|
| Bone Marrow                      |                     | Hypercellularity                 | Moderate              |
| Brain                            | Thalamus            | Mineralization                   | Moderate              |
| Kidney                           |                     | Hyperplasia                      | Lymphoid, Minimal     |
| Liver                            |                     | Hepatocellular Adenoma           |                       |
| Note: HEPATOCLR ADEN TGLs = 5-21 |                     |                                  |                       |
| Lymph Node                       | Iliac               | Hyperplasia                      | Plasma Cell, Marked   |
|                                  | Renal               | Hyperplasia                      | Plasma Cell, Moderate |
| Note: HYPERPLASIA TGLs = 7-23    |                     |                                  |                       |
| Note: HYPERPLASIA TGLs = 6-22    |                     |                                  |                       |
| Pancreas                         |                     | Inflammation                     | Subacute, Moderate    |
| Salivary Glands                  |                     | Hyperplasia                      | Lymphoid, Minimal     |
| Spleen                           |                     | Hematopoietic Cell Proliferation | Moderate              |
| Note: HEMA CELL PROL TGLs = 3-6  |                     |                                  |                       |
| Stomach                          | Forestomach, Mucosa | Hyperplasia                      | Mild                  |
|                                  | Forestomach         | Inflammation                     | Suppurative, Mild     |
| Thymus                           |                     | Depletion Cellular               | Moderate              |
| Thyroid Gland                    |                     | Degeneration                     | Cystic, Moderate      |
| Uterus                           |                     | Hydrometra                       | Moderate              |
|                                  |                     | Hyperplasia                      | Cystic, Moderate      |
|                                  |                     | Inflammation                     | Suppurative, Moderate |
|                                  |                     | Leiomyosarcoma                   |                       |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 248

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 561

**DOSE:** VEHICLE CONTROL

**DISP:** Moribund Sacrifice

**HISTO:** A87043361

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: HYDROMETRA TGLs = 1-7

Note: LEIOMYOSAR TGLs = 2-7

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                              |                                 |                         |
|-----------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 249 | <b>TRT#:</b> 3               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 736 |
|                       | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87043362 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                         |                            |                         |                           |
|-------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla    | Bone                    | Bone Marrow               |
| Brain                   | Esophagus                  | Heart                   | Intestine Large - Cecum   |
| Intestine Large - Colon | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic      | Liver                      | Lung                    | Lymph Node - Mandibular   |
| Lymph Node - Mesenteric | Mammary Gland              | Nose                    | Pancreas                  |
| Parathyroid Gland       | Skin                       | Spleen                  | Stomach - Forestomach     |
| Stomach - Glandular     | Thymus                     | Trachea                 |                           |

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**MISSING**

|                          |       |
|--------------------------|-------|
| Intestine Large - Rectum | Ovary |
|--------------------------|-------|

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**OBSERVATIONS**

|                 |                |              |                   |
|-----------------|----------------|--------------|-------------------|
| Gallbladder     |                | Cyst         |                   |
| Kidney          |                | Hyperplasia  | Lymphoid, Minimal |
|                 | Renal Tubule   | Regeneration | Minimal           |
|                 | Pars Distalis  | Adenoma      |                   |
| Pituitary Gland |                | Hyperplasia  | Lymphoid, Mild    |
| Salivary Glands |                | Hyperplasia  | Minimal           |
| Thyroid Gland   | Follicular Cel | Hyperplasia  | Lymphoid, Mild    |
| Urinary Bladder |                | Hyperplasia  | Cystic, Mild      |
| Uterus          |                | Hyperplasia  |                   |

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 250

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87043363

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mesenteric    | Mammary Gland           |
| Pancreas                  | Parathyroid Gland        | Skin                       | Spleen                  |
| Stomach - Forestomach     | Stomach - Glandular      | Thymus                     | Thyroid Gland           |
| Trachea                   | Urinary Bladder          |                            |                         |

**OBSERVATIONS**

|                   |               |                |                    |
|-------------------|---------------|----------------|--------------------|
| Brain             | Thalamus      | Mineralization | Mild               |
| Kidney            |               | Hyperplasia    | Lymphoid, Moderate |
|                   | Renal Tubule  | Regeneration   | Minimal            |
| Liver             |               | Hyperplasia    | Focal, Mild        |
|                   |               | Hyperplasia    | Lymphoid, Minimal  |
| Note: HYPERPLASIA | TGLs = 3-21   |                |                    |
| Lung              |               | Hyperplasia    | Lymphoid, Minimal  |
| Lymph Node        | Mandibular    | Hyperplasia    | Lymphoid, Mild     |
| Nose              |               | Exudate        |                    |
|                   | Glands        | Hyperplasia    | Cystic, Minimal    |
| Ovary             |               | Cyst           |                    |
| Pituitary Gland   | Pars Distalis | Adenoma        |                    |
|                   | Pars Distalis | Hyperplasia    | Mild               |
| Salivary Glands   |               | Hyperplasia    | Lymphoid, Minimal  |
| Uterus            |               | Hyperplasia    | Cystic, Marked     |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 251

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87043364

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex     | Adrenal Gland - Medulla | Bone                      | Esophagus                |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Lung                       | Mammary Gland           | Nose                      | Parathyroid Gland        |
| Pituitary Gland            | Salivary Glands         | Skin                      | Stomach - Forestomach    |
| Stomach - Glandular        | Trachea                 | Urinary Bladder           |                          |

**INSUFFICIENT TISSUE**

Gallbladder

**OBSERVATIONS**

|  |                           |                      |                 |
|--|---------------------------|----------------------|-----------------|
| Bone Marrow  |                           | Fibrous Histiocytoma |                 |
| Note: FIB HISTIOCYT IS MALIGNANT-MULTIPLE ORGANS     |                           |                      |                 |
| Brain  | Thalamus                  | Mineralization       | Mild            |
| Kidney   |                           | Casts Protein        | Minimal         |
|  | Renal Tubule              | Fibrous Histiocytoma |                 |
|  |                           | Regeneration         | Minimal         |
| Note: MALIGNANT FIBROUS HISTIOCYTOMA-MULTIPLE ORGANS |                           |                      |                 |
| Liver  |                           | Fibrous Histiocytoma |                 |
|  | Lobules                   | Hyperplasia          | Focal, Moderate |
|  |                           | Necrosis             | Minimal         |
| Note: HYPERPLASIA TGLs = 9-24                        |                           |                      |                 |
| Note: FIB HISTIOCYT IS MALIGNANT-MULTIPLE ORGANS     |                           |                      |                 |
| Lymph Node   | Iliac                     | Angiectasis          | Marked          |
|  | Iliac, Mediastinal, Renal | Fibrous Histiocytoma |                 |
| Note: [ ANGIECTASIS ] TGLs = 23                      |                           |                      |                 |
| Mesentery  | Fat                       | Necrosis             | Marked          |
| Note: NECROSIS TGLs = 1-21                           |                           |                      |                 |
| Ovary  |                           | Cyst                 |                 |
| Pancreas   |                           | Fibrous Histiocytoma |                 |
| Note: FIB HISTIOCYT IS MALIGNANT-MULTIPLE ORGANS     |                           |                      |                 |
| Spleen   |                           | Fibrous Histiocytoma |                 |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                              |                                 |                         |
|-----------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 251 | <b>TRT#:</b> 3               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 736 |
|                       | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87043364 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|  |  |   |
|--|--|---|
| Note: FIB HISTIOCYT IS MALIGNANT-MULTIPLE ORGANS<br>Note: HEMA CELL PROL TGLs = 2-6<br>Thymus<br>Note: FIB HISTIOCYT IS MALIGNANT-MULTIPLE ORGANS<br>Thyroid Gland<br>Uterus | Hematopoietic Cell Proliferation<br><br>Fibrous Histiocytoma<br><br>Degeneration<br>Angiectasis<br>Hyperplasia | Marked<br><br><br><br>Cystic, Minimal<br>Mild<br>Cystic, Mild |
|--|--|---|

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 252

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87043365

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                           |                         |
|--------------------------|----------------------------|---------------------------|-------------------------|
| Adrenal Gland - Cortex   | Adrenal Gland - Medulla    | Bone                      | Bone Marrow             |
| Esophagus                | Heart                      | Intestine Large - Cecum   | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Jejunum | Islets, Pancreatic      |
| Lung                     | Lymph Node - Mandibular    | Mammary Gland             | Nose                    |
| Ovary                    | Pancreas                   | Parathyroid Gland         | Pituitary Gland         |
| Salivary Glands          | Skin                       | Spleen                    | Stomach - Forestomach   |
| Thymus                   | Thyroid Gland              | Trachea                   | Urinary Bladder         |

**OBSERVATIONS**

|   |              |                          |                   |
|---|--------------|--------------------------|-------------------|
| Brain                                   | Thalamus     | Mineralization           | Minimal           |
| Gallbladder                             |              | Cyst                     |                   |
| Intestine Small                         | Ileum        | Lymphoma Malignant Mixed |                   |
| Note: LYMPH MAL MIXD TGLs = 3-22        |              |                          |                   |
| Kidney                                  | Renal Tubule | Mineralization           | Mild              |
|   |              | Regeneration             | Mild              |
| Liver                                   |              | Hyperplasia              | Lymphoid, Minimal |
|   |              | Hyperplasia              | Focal, Mild       |
| Note: HYPERPLASIA TGLs = 4-23           |              |                          |                   |
| Note: FOCAL HYPERPLASIA ALSO ON SLIDE 6 |              |                          |                   |
| Lymph Node                              | Mesenteric   | Hyperplasia              | Plasma Cell, Mild |
| Mesentery                               | Fat          | Necrosis                 | Mild              |
| Note: NECROSIS TGLs = 2-21              |              |                          |                   |
| Stomach                                 | Glandular    | Cyst                     |                   |
| Uterus                                  |              | Hydrometra               | Marked            |
|   |              | Hyperplasia              | Cystic, Moderate  |
| Note: HYDROMETRA TGLs = 1-7             |              |                          |                   |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 253

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 698

**DOSE:** VEHICLE CONTROL

**DISP:** Moribund Sacrifice

**HISTO:** A87043366

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex   | Adrenal Gland - Medulla    | Bone                    | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Mammary Gland           | Nose                      |
| Parathyroid Gland        | Salivary Glands            | Skin                    | Stomach - Forestomach     |
| Stomach - Glandular      | Thyroid Gland              | Trachea                 |                           |

**OBSERVATIONS**

|             |              |                          |         |  |
|-------------|--------------|--------------------------|---------|--|
| Bone Marrow |              | Hypercellularity         | Mild    |  |
| Brain       | Thalamus     | Mineralization           | Minimal |  |
| Kidney      | Renal Tubule | Atrophy                  | Mild    |  |
|             | Renal Tubule | Regeneration             | Mild    |  |
| Liver       |              | Lymphoma Malignant Mixed |         |  |
| Lymph Node  | Iliac        | Angiectasis              | Marked  |  |
|             | Axillary     | Lymphoma Malignant Mixed |         |  |
|             | Iliac        | Lymphoma Malignant Mixed |         |  |
|             | Mandibular   | Lymphoma Malignant Mixed |         |  |
|             | Mediastinal  | Lymphoma Malignant Mixed |         |  |
|             | Mesenteric   | Lymphoma Malignant Mixed |         |  |
|             | Pancreatic   | Lymphoma Malignant Mixed |         |  |
|             | Renal        | Lymphoma Malignant Mixed |         |  |
|             |              |                          |         |  |
|             |              |                          |         |  |
| Ovary       |              | Angiectasis              | Mild    |  |
| Pancreas    |              | Lymphoma Malignant Mixed |         |  |

Note: LYMPH MAL MIXD TGLs = 1-8

Note: LYMPH MAL MIXD TGLs = 10-2

Note: LYMPH MAL MIXD TGLs = 6-5

[ Lymphoma Malignant Mixed TGLS = 4-22 ]

[ Lymphoma Malignant Mixed TGLS = 2-21 ]

[ Lymphoma Malignant Mixed TGLS = 8-23 ]

[ Lymphoma Malignant Mixed TGLS = 9-24 ]

[ Lymphoma Malignant Mixed TGLS = 8-23 ]

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                              |                                 |                         |
|-----------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 253 | <b>TRT#:</b> 3               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 698 |
|                       | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87043366 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                      |               |                                  |                  |
|----------------------|---------------|----------------------------------|------------------|
| Pituitary Gland      | Pars Distalis | Adenoma                          |                  |
| Spleen               |               | Hematopoietic Cell Proliferation | Moderate         |
|                      |               | Lymphoma Malignant Mixed         |                  |
| Note: LYMPH MAL MIXD | TGLs = 5-6    |                                  |                  |
| Note: HEMA CELL PROL | TGLs = 5-6    |                                  |                  |
| Thymus               |               | Lymphoma Malignant Mixed         |                  |
| Urinary Bladder      |               | Hyperplasia                      | Lymphoid, Mild   |
| Uterus               |               | Hyperplasia                      | Cystic, Moderate |
| Note: HYPERPLASIA    | TGLs = 3-7    |                                  |                  |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 254

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87043367

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Medulla    | Bone                    | Bone Marrow               | Esophagus                |
| Gallbladder                | Heart                   | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Kidney                     | Lymph Node - Mandibular | Lymph Node - Mesenteric   | Mammary Gland            |
| Nose                       | Pancreas                | Parathyroid Gland         | Pituitary Gland          |
| Salivary Glands            | Skin                    | Spleen                    | Stomach - Forestomach    |
| Stomach - Glandular        | Thymus                  | Thyroid Gland             | Trachea                  |

**MISSING**

|                         |                 |
|-------------------------|-----------------|
| Intestine Large - Cecum | Urinary Bladder |
|-------------------------|-----------------|

**OBSERVATIONS**

|                   |            |                           |                   |
|-------------------|------------|---------------------------|-------------------|
| Adrenal Gland     | Cortex     | Hyperplasia               | Focal, Mild       |
| Brain             | Thalamus   | Mineralization            | Moderate          |
| Liver             | Hepatocyte | Hyperplasia               | Lymphoid, Minimal |
|                   |            | Vacuolization Cytoplasmic | Mild              |
| Lung              |            | Hyperplasia               | Lymphoid, Minimal |
| Ovary             |            | Cyst                      |                   |
| Note: CYST        | TGLs = 1-7 |                           |                   |
| Uterus            |            | Hydrometra                | Moderate          |
|                   |            | Hyperplasia               | Cystic, Moderate  |
| Note: HYPERPLASIA | TGLs = 2-7 |                           |                   |
| Note: HYDROMETRA  | TGLs = 1-7 |                           |                   |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 255

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87043368

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                          |                            |                         |
|-------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus               | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Islets, Pancreatic      | Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Mammary Gland           |
| Nose                    | Ovary                    | Parathyroid Gland          | Pituitary Gland         |
| Salivary Glands         | Skin                     | Spleen                     | Stomach - Forestomach   |
| Trachea                 | Urinary Bladder          |                            |                         |

**OBSERVATIONS**

|                                  |              |                          |                 |
|----------------------------------|--------------|--------------------------|-----------------|
| Brain                            | Thalamus     | Mineralization           | Moderate        |
| Intestine Small                  | Jejunum      | Lymphoma Malignant Mixed |                 |
| Note: LYMPH MAL MIXD TGLs = 3-22 |              |                          |                 |
| Kidney                           |              | Hyperplasia              | Lymphoid, Mild  |
|                                  |              | Mineralization           | Minimal         |
|                                  | Renal Tubule | Regeneration             | Minimal         |
| Liver                            |              | Hepatocellular Adenoma   |                 |
| Note: HEPATOCLR ADEN TGLs = 2-21 |              | Hyperplasia              | Focal, Moderate |
| Note: HYPERPLASIA TGLs = 4-23    |              |                          |                 |
| Lung                             |              | Hyperplasia              | Lymphoid, Mild  |
| Pancreas                         |              | Hyperplasia              | Lymphoid, Mild  |
| Stomach                          | Glandular    | Inflammation             | Subacute, Mild  |
| Thymus                           |              | Cyst                     |                 |
| Thyroid Gland                    | Follicle     | Cyst                     |                 |
| Uterus                           |              | Hyperplasia              | Cystic, Marked  |
| Note: HYPERPLASIA TGLs = 1-7     |              |                          |                 |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 256

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87043369

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       |
| Lymph Node - Mandibular | Lymph Node - Mesenteric   | Mammary Gland            | Nose                       |
| Pancreas                | Parathyroid Gland         | Pituitary Gland          | Salivary Glands            |
| Skin                    | Stomach - Forestomach     | Stomach - Glandular      | Thymus                     |
| Trachea                 |                           |                          |                            |

**INSUFFICIENT TISSUE**

Ovary

**OBSERVATIONS**

|                      |              |                                  |                   |
|----------------------|--------------|----------------------------------|-------------------|
| Kidney               |              | Metaplasia                       | Osseous, Moderate |
|                      |              | Mineralization                   | Minimal           |
|                      | Renal Tubule | Regeneration                     | Minimal           |
| Liver                |              | Hepatocellular Adenoma           |                   |
|                      |              | Hyperplasia                      | Focal, Minimal    |
| Note: HEPATOCLR ADEN | TGLs = 4-21  |                                  |                   |
| Spleen               |              | Hematopoietic Cell Proliferation | Mild              |
| Note: HEMA CELL PROL | TGLs = 3-6   |                                  |                   |
| Thyroid Gland        |              | Degeneration                     | Cystic, Mild      |
| Urinary Bladder      |              | Hyperplasia                      | Lymphoid, Minimal |
| Uterus               |              | Hydrometra                       | Marked            |
|                      |              | Hyperplasia                      | Cystic, Moderate  |
| Note: HYDROMETRA     | TGLs = 1-7   |                                  |                   |
| Note: HYPERPLASIA    | TGLs = 2-7   |                                  |                   |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 257

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87043370

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Bone                     | Bone Marrow                | Brain                   |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Mammary Gland             | Nose                     | Pancreas                   | Parathyroid Gland       |
| Salivary Glands           | Skin                     | Spleen                     | Stomach - Forestomach   |
| Stomach - Glandular       | Thymus                   | Thyroid Gland              | Trachea                 |

**OBSERVATIONS**

|                                       |               |                        |                   |
|---------------------------------------|---------------|------------------------|-------------------|
| Adrenal Gland                         | Medulla       | Hyperplasia            | Minimal           |
| Islets, Pancreatic                    |               | Hyperplasia            | Marked            |
| Kidney                                |               | Mineralization         | Minimal           |
|                                       | Renal Tubule  | Regeneration           | Minimal           |
| Liver                                 |               | Hepatocellular Adenoma | Multiple, Two     |
| Note: HEPATOCLR ADEN TGLs = 1-21,3-22 |               |                        |                   |
| Ovary                                 |               | Angiectasis            | Mild              |
|                                       |               | Cyst                   |                   |
| Pituitary Gland                       | Pars Distalis | Angiectasis            | Moderate          |
|                                       | Pars Distalis | Hyperplasia            | Mild              |
| Note: [ HYPERPLASIA ] TGLs = 1        |               |                        |                   |
| Note: [ ANGIECTASIS ] TGLs = 1        |               |                        |                   |
| Urinary Bladder                       |               | Hyperplasia            | Lymphoid, Minimal |
| Uterus                                |               | Hyperplasia            | Cystic, Mild      |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 258

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87043371

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex   | Adrenal Gland - Medulla    | Bone                    | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   |
| Mammary Gland            | Nose                       | Parathyroid Gland       | Pituitary Gland           |
| Salivary Glands          | Skin                       | Stomach - Forestomach   | Stomach - Glandular       |
| Thymus                   | Trachea                    | Urinary Bladder         |                           |

**OBSERVATIONS**

|                        |                  |                                  |                   |
|------------------------|------------------|----------------------------------|-------------------|
| Bone Marrow            |                  | Hypercellularity                 | Mild              |
| Brain                  | Thalamus         | Mineralization                   | Minimal           |
| Kidney                 |                  | Hyperplasia                      | Lymphoid, Mild    |
|                        | Renal Tubule     | Regeneration                     | Minimal           |
| Liver                  |                  | Hepatocellular Adenoma           |                   |
|                        | Lobules          | Necrosis                         | Minimal           |
| Note: HEPATOCLR ADEN   | TGLs = 4-22      |                                  |                   |
| Ovary                  |                  | Teratoma Benign                  |                   |
| Note: [ TERATOMA BGN ] | TGLs = 7.2,7.2.1 |                                  |                   |
| Pancreas               |                  | Atrophy                          | Mild              |
|                        |                  | Hyperplasia                      | Lymphoid, Mild    |
| Spleen                 |                  | Hemangiosarcoma                  |                   |
|                        |                  | Hematopoietic Cell Proliferation | Mild              |
|                        |                  | Pigmentation                     | Hemosiderin, Mild |
| Note: HEMANGIOSARC     | TGLs = 3-21      |                                  |                   |
| Thyroid Gland          | Follicle         | Cyst                             |                   |
|                        | Follicular Cel   | Hyperplasia                      | Mild              |
| Uterus                 |                  | Hyperplasia                      | Cystic, Moderate  |
|                        |                  | Sarcoma                          |                   |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 259

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 588

**DOSE:** VEHICLE CONTROL

**DISP:** Moribund Sacrifice

**HISTO:** A87043372

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                         |                          |                            |
|-------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Medulla | Bone Marrow             | Esophagus                | Gallbladder                |
| Heart                   | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Islets, Pancreatic      | Lung                    | Mammary Gland            | Nose                       |
| Pancreas                | Parathyroid Gland       | Pituitary Gland          | Salivary Glands            |
| Trachea                 |                         |                          |                            |

**OBSERVATIONS**

|  |                        |                                   |                    |
|--|------------------------|-----------------------------------|--------------------|
| Adrenal Gland                                      | Cortex                 | Accessory Adrenal Cortical Nodule |                    |
| Blood Vessel                                       |                        | Necrosis                          | Fibrinoid, Marked  |
| Note: NECROSIS INVOLVES VESSELS IN SEVERAL ORGANS. |                        |                                   |                    |
| Bone   |                        | Hyperostosis                      | Mild               |
| Brain  | Thalamus               | Mineralization                    | Minimal            |
| Intestine Large                                    | Cecum                  | Edema                             | Mild               |
| Intestine Small                                    | Artery, Ileum, Jejunum | Necrosis                          | Fibrinoid, Marked  |
| Kidney   | Renal Tubule           | Atrophy                           | Mild               |
|  |                        | Casts Protein                     | Moderate           |
|  | Renal Tubule           | Dilatation                        | Moderate           |
|  |                        | Glomerulosclerosis                | Mild               |
|  |                        | Hydronephrosis                    | Mild               |
|  |                        | Hyperplasia                       | Lymphoid, Mild     |
|  | Renal Tubule           | Regeneration                      | Moderate           |
| Note: DILATATION TGLs = 8-5                        |                        |                                   |                    |
| Note: REGENERATION TGLs = 8-5                      |                        |                                   |                    |
| Note: GLMSCLEROSIS TGLs = 8-5                      |                        |                                   |                    |
| Note: HYDRONEPHROSIS TGLs = 9-22                   |                        |                                   |                    |
| Liver  | Artery                 | Necrosis                          | Fibrinoid, Marked  |
| Lymph Node   | Mandibular             | Hyperplasia                       | Lymphoid, Moderate |
|  | Mesenteric             | Hyperplasia                       | Lymphoid, Mild     |
|  | Artery                 | Necrosis                          | Fibrinoid, Marked  |
| Note: HYPERPLASIA TGLs = 2-8                       |                        |                                   |                    |
| Note: HYPERPLASIA TGLs = 11-5                      |                        |                                   |                    |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                              |                                 |                         |
|-----------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 259 | <b>TRT#:</b> 3               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 588 |
|                       | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87043372 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                   |              |                                  |                   |
|-------------------|--------------|----------------------------------|-------------------|
| Mesentery         | Artery       | Necrosis                         | Fibrinoid, Marked |
| Ovary             | Artery       | Necrosis                         | Fibrinoid, Marked |
| Skin              | Subcut Tiss  | Edema                            | Moderate          |
| Note: EDEMA       | TGLs = 1-8   |                                  |                   |
| Spleen            |              | Hematopoietic Cell Proliferation | Minimal           |
| Stomach           | Forestomach  | Edema                            | Mild              |
|                   | Glandular    | Edema                            | Mild              |
| Thymus            |              | Cyst                             |                   |
|                   |              | Ectopic Parathyroid Gland        |                   |
|                   |              | Hyperplasia                      | Lymphoid, Marked  |
|                   | Artery       | Necrosis                         | Fibrinoid, Marked |
| Note: HYPERPLASIA | TGLs = 16-24 |                                  |                   |
| Thyroid Gland     |              | Degeneration                     | Cystic, Moderate  |
| Urinary Bladder   |              | Hyperplasia                      | Lymphoid, Mild    |
| Uterus            |              | Hyperplasia                      | Cystic, Mild      |
| Note: HYPERPLASIA | TGLs = 6-7   |                                  |                   |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                              |                                 |                         |
|-----------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 260 | <b>TRT#:</b> 3               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 734 |
|                       | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87043373 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Mammary Gland            | Nose                       | Ovary                   |
| Pancreas                  | Parathyroid Gland        | Pituitary Gland            | Salivary Glands         |
| Skin                      | Spleen                   | Stomach - Forestomach      | Thymus                  |
| Trachea                   |                          |                            |                         |

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**OBSERVATIONS**

|                                 |                |                |                   |
|---------------------------------|----------------|----------------|-------------------|
| Brain                           | Thalamus       | Mineralization | Mild              |
| Kidney                          | Renal Tubule   | Atrophy        | Mild              |
|                                 |                | Casts Protein  | Minimal           |
| Lung                            |                | Hyperplasia    | Lymphoid, Minimal |
| Mesentery                       | Fat            | Necrosis       | Moderate          |
| Note: NECROSIS      TGLs = 1-21 |                |                |                   |
| Stomach                         | Glandular      | Cyst           |                   |
| Thyroid Gland                   | Follicular Cel | Hyperplasia    | Minimal           |
|                                 |                | Inflammation   | Subacute, Minimal |
| Urinary Bladder                 |                | Hyperplasia    | Lymphoid, Mild    |
| Uterus                          |                | Hyperplasia    | Cystic, Moderate  |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 261

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 694

**DOSE:** VEHICLE CONTROL

**DISP:** Natural Death

**HISTO:** A87043374

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Mammary Gland             | Nose                     | Pancreas                   | Parathyroid Gland       |
| Pituitary Gland           | Skin                     | Spleen                     | Stomach - Forestomach   |
| Stomach - Glandular       | Thymus                   | Trachea                    |                         |

**OBSERVATIONS**

|                 |                |                  |                    |
|-----------------|----------------|------------------|--------------------|
| Brain           | Thalamus       | Mineralization   | Mild               |
| Kidney          | Renal Tubule   | Dilatation       | Minimal            |
|                 | Renal Tubule   | Hyperplasia      | Lymphoid, Minimal  |
| Liver           |                | Regeneration     | Minimal            |
|                 |                | Basophilic Focus | Moderate           |
|                 |                | Inflammation     | Subacute, Moderate |
| Lung            |                | Congestion       | Mild               |
|                 | Alveolar Epith | Hyperplasia      | Moderate           |
| Ovary           |                | Angiectasis      | Mild               |
|                 |                | Hyperplasia      | Lymphoid, Minimal  |
| Salivary Glands |                | Hyperplasia      | Minimal            |
| Thyroid Gland   | Follicular Cel | Hyperplasia      | Lymphoid, Minimal  |
| Urinary Bladder |                | Angiectasis      | Marked             |
| Uterus          |                | Hydrometra       | Marked             |
|                 |                | Hyperplasia      | Cystic, Minimal    |
|                 |                |                  |                    |

Note: [ BASOPH FOCUS ] TGLs = 21

Note: [ HYPERPLASIA ] TGLs = 2

Note: HYDROMETRA TGLs = 1-7

Note: ANGIECTASIS TGLs = 2-7-1

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 262

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 659

**DOSE:** VEHICLE CONTROL

**DISP:** Moribund Sacrifice

**HISTO:** A87043375

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex     | Adrenal Gland - Medulla | Bone                      | Esophagus                |
| Gallbladder                | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   | Mammary Gland            |
| Nose                       | Ovary                   | Parathyroid Gland         | Skin                     |
| Stomach - Forestomach      | Trachea                 |                           |                          |

**INSUFFICIENT TISSUE**

Pituitary Gland

**OBSERVATIONS**

|  |                |                                  |                       |
|--|----------------|----------------------------------|-----------------------|
| Bone Marrow  |                | Hypercellularity                 | Moderate              |
| Brain  | Thalamus       | Mineralization                   | Moderate              |
| Heart  | Myocardium     | Inflammation                     | Subacute, Moderate    |
|  | Myocardium     | Mineralization                   | Minimal               |
| Kidney   | Renal Tubule   | Dilatation                       | Moderate              |
|  |                | Hydronephrosis                   | Marked                |
|  | Transit Epithe | Hyperplasia                      | Marked                |
|  |                | Inflammation                     | Suppurative, Moderate |
|  |                | Mineralization                   | Moderate              |
|  | Papilla        | Necrosis                         | Marked                |
|  | Renal Tubule   | Necrosis                         | Marked                |
| <p>Note: MINERALIZATION TGLs = 6-5<br/>           Note: DILATATION TGLs = 4-5<br/>           Note: NECROSIS TGLs = 4-5<br/>           Note: HYDRONEPHROSIS TGLs = 5-5<br/>           Note: [ NECROSIS ] TGLs = 5</p> |                |                                  |                       |
| Liver  |                | Basophilic Focus                 | Marked                |
|  |                | Hematopoietic Cell Proliferation | Minimal               |
|  |                | Hepatocellular Carcinoma         |                       |
| <p>Note: [ BASOPH FOCUS ] TGLs = 22<br/>           Note: [ HEPATOCLR CARC ] TGLs = 23</p>  |                |                                  |                       |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 262

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 659

**DOSE:** VEHICLE CONTROL

**DISP:** Moribund Sacrifice

**HISTO:** A87043375

**ORGAN AND ACCOUNTABLE SITE STATUS**

|   |              |   |  |
|---|--------------|---|--|
| Lymph Node<br>Note: HYPERPLASIA TGLs = 9-24 | Iliac        | Hyperplasia                                 | Plasma Cell, Moderate                            |
| Pancreas                                    |              | Atrophy<br>Cytoplasmic Alteration           | Minimal<br>Moderate                              |
| Salivary Glands                             |              | Hyperplasia                                 | Lymphoid, Minimal                                |
| Spleen                                      | Lymph Follic | Atrophy<br>Hematopoietic Cell Proliferation | Mild<br>Moderate                                 |
| Stomach                                     | Glandular    | Edema                                       | Mild   |
| Thymus                                      |              | Depletion Cellular                          | Moderate   |
| Thyroid Gland                               |              | Degeneration                                | Cystic, Minimal                                  |
| Ureter                                      |              | Dilatation<br>Inflammation                  | Moderate<br>Suppurative, Moderate                |
| Note: DILATATION TGLs = 1-21                |              |   |  |
| Urinary Bladder                             | Mucosa       | Hyperplasia<br>Hyperplasia<br>Inflammation  | Mild<br>Lymphoid, Moderate<br>Subacute, Moderate |
| Uterus                                      |              | Hyperplasia                                 | Cystic, Mild                                     |
| Note: HYPERPLASIA TGLs = 3-7                |              |   |  |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 263

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87043376

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Kidney                     | Lymph Node - Mandibular | Lymph Node - Mesenteric   |
| Mammary Gland            | Nose                       | Ovary                   | Pancreas                  |
| Parathyroid Gland        | Pituitary Gland            | Salivary Glands         | Skin                      |
| Stomach - Glandular      | Thymus                     | Thyroid Gland           | Trachea                   |

**OBSERVATIONS**

|                      |             |                                  |                    |
|----------------------|-------------|----------------------------------|--------------------|
| Adrenal Gland        | Cortex      | Hyperplasia                      | Focal, Minimal     |
| Brain                | Thalamus    | Mineralization                   | Moderate           |
| Liver                |             | Hepatocellular Adenoma           |                    |
|                      |             | Hepatocellular Carcinoma         |                    |
|                      |             | Hyperplasia                      | Focal, Mild        |
| Note: HEPATOCLR ADEN | TGLs = 6-22 |                                  |                    |
| Note: HEPATOCLR CARC | TGLs = 4-21 |                                  |                    |
| Lung                 |             | Hepatocellular Carcinoma         | Metastatic (Liver) |
|                      |             | Hyperplasia                      | Lymphoid, Minimal  |
| Spleen               |             | Hematopoietic Cell Proliferation | Moderate           |
| Note: HEMA CELL PROL | TGLs = 3-6  |                                  |                    |
| Stomach              | Forestomach | Hemangioma                       |                    |
| Note: HEMANGIOMA     | TGLs = 5-4  |                                  |                    |
| Urinary Bladder      |             | Hyperplasia                      | Lymphoid, Mild     |
| Uterus               |             | Angiectasis                      | Mild               |
|                      |             | Hyperplasia                      | Cystic, Moderate   |
| Note: HYPERPLASIA    | TGLs = 2-7  |                                  |                    |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 264

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87043377

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Liver                      | Lung                    | Lymph Node - Mandibular   |
| Lymph Node - Mesenteric  | Nose                       | Ovary                   | Pancreas                  |
| Parathyroid Gland        | Salivary Glands            | Spleen                  | Stomach - Forestomach     |
| Stomach - Glandular      | Trachea                    | Urinary Bladder         |                           |

**MISSING**

Mammary Gland

**OBSERVATIONS**

|                              |               |                                   |                   |
|------------------------------|---------------|-----------------------------------|-------------------|
| Adrenal Gland                | Cortex        | Accessory Adrenal Cortical Nodule |                   |
| Brain                        | Thalamus      | Mineralization                    | Moderate          |
| Kidney                       |               | Hyperplasia                       | Lymphoid, Minimal |
|                              | Renal Tubule  | Regeneration                      | Minimal           |
| Pituitary Gland              | Pars Distalis | Hyperplasia                       | Minimal           |
| Skin                         | Subcut Tiss   | Sarcoma                           |                   |
| Note: [ SARCOMA ] TGLs = 21  |               |                                   |                   |
| Thymus                       |               | Cyst                              |                   |
| Thyroid Gland                |               | Degeneration                      | Cystic, Mild      |
| Uterus                       |               | Hyperplasia                       | Cystic, Moderate  |
| Note: HYPERPLASIA TGLs = 2-7 |               |                                   |                   |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 265

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87043378

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                         |
|----------------------------|-------------------------|---------------------------|-------------------------|
| Adrenal Gland - Medulla    | Bone                    | Bone Marrow               | Esophagus               |
| Gallbladder                | Heart                   | Intestine Large - Cecum   | Intestine Large - Colon |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic      |
| Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   | Mammary Gland           |
| Nose                       | Ovary                   | Pancreas                  | Parathyroid Gland       |
| Skin                       | Stomach - Forestomach   | Stomach - Glandular       | Thymus                  |
| Trachea                    | Urinary Bladder         |                           |                         |

**MISSING**

Intestine Large - Rectum

**OBSERVATIONS**

|   |               |                                  |                    |
|---|---------------|----------------------------------|--------------------|
| Adrenal Gland                                     | Cortex        | Clear Cell Focus                 |                    |
| Brain   | Thalamus      | Mineralization                   | Mild               |
| Kidney  |               | Casts Protein                    | Minimal            |
|   | Renal Tubule  | Hyperplasia                      | Lymphoid, Minimal  |
|   |               | Regeneration                     | Minimal            |
| Liver   |               | Hematopoietic Cell Proliferation | Minimal            |
| Mammary Gland                                     |               |                                  |                    |
| Note: MAMMARY GLAND IS ADJACENT TO SALIVARY GLAND |               |                                  |                    |
| Pituitary Gland                                   | Pars Intermed | Adenoma                          |                    |
| Note: [ ADENOMA ] TGLs = 1                        |               |                                  |                    |
| Salivary Glands                                   |               | Hyperplasia                      | Lymphoid, Moderate |
| Note: [ HYPERPLASIA ] TGLs = 8                    |               |                                  |                    |
| Spleen  |               | Hematopoietic Cell Proliferation | Minimal            |
| Thyroid Gland                                     |               | Degeneration                     | Cystic, Minimal    |
| Uterus  |               | Hyperplasia                      | Cystic, Moderate   |
| Note: HYPERPLASIA TGLs = 1-7                      |               |                                  |                    |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 266

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 695

**DOSE:** VEHICLE CONTROL

**DISP:** Moribund Sacrifice

**HISTO:** A87043379

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mesenteric |
| Mammary Gland             | Nose                     | Pancreas                   | Parathyroid Gland       |
| Pituitary Gland           | Salivary Glands          | Skin                       | Stomach - Forestomach   |
| Stomach - Glandular       | Thyroid Gland            | Trachea                    | Urinary Bladder         |

**INSUFFICIENT TISSUE**

Lymph Node - Mandibular

**OBSERVATIONS**

|                                       |          |                |                   |
|---------------------------------------|----------|----------------|-------------------|
| Brain                                 | Thalamus | Mineralization | Moderate          |
| Intest Small                          |          |                |                   |
| Note: DUODENUM IS ATTACHED TO STOMACH |          |                |                   |
| Kidney                                |          | Hyperplasia    | Lymphoid, Minimal |
|                                       |          | Mineralization | Minimal           |
| Liver                                 |          | Inflammation   | Subacute, Minimal |
| Mesentery                             | Fat      | Necrosis       | Marked            |
| Note: NECROSIS TGLs = 2-21            |          |                |                   |
| Ovary                                 |          | Angiectasis    | Mild              |
| Spleen                                |          | Pigmentation   | Hemosiderin, Mild |
| Thymus                                |          | Cyst           |                   |
| Uterus                                |          | Hydrometra     | Marked            |
|                                       |          | Hyperplasia    | Cystic, Marked    |
|                                       |          | Metaplasia     | Squamous, Mild    |
| Note: HYDROMETRA TGLs = 3-7           |          |                |                   |
| Note: HYPERPLASIA TGLs = 4-7          |          |                |                   |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 267

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87043380

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   |
| Mammary Gland            | Nose                       | Pituitary Gland         | Salivary Glands           |
| Skin                     | Spleen                     | Stomach - Forestomach   | Stomach - Glandular       |
| Thyroid Gland            | Trachea                    | Urinary Bladder         |                           |

**MISSING**

Parathyroid Gland

**OBSERVATIONS**

|                                       |              |                                   |                |
|---------------------------------------|--------------|-----------------------------------|----------------|
| Adrenal Gland                         | Cortex       | Accessory Adrenal Cortical Nodule |                |
| Brain                                 | Thalamus     | Mineralization                    | Minimal        |
| Kidney                                |              | Mineralization                    | Minimal        |
|                                       | Renal Tubule | Regeneration                      | Minimal        |
| Liver                                 |              | Clear Cell Focus                  |                |
|                                       |              | Hepatocellular Adenoma            |                |
|                                       |              | Mixed Cell Focus                  |                |
| Note: MIXED CL FOCUS                  | TGLs = 4-22  |                                   |                |
| Note: HEPATOCLR ADEN                  | TGLs = 3-21  |                                   |                |
| Ovary                                 |              | Angiectasis                       | Mild           |
|                                       |              | Cyst                              |                |
| Note: CYST                            | TGLs = 2-7   |                                   |                |
| Pancreas                              |              | Focal Cellular Change             |                |
| Note: FOCAL CELL CHANGE IS ON SLIDE 4 |              |                                   |                |
| Thymus                                |              | Cyst                              |                |
| Uterus                                |              | Hydrometra                        | Marked         |
|                                       |              | Hyperplasia                       | Cystic, Marked |
| Note: HYDROMETRA                      | TGLs = 1-7   |                                   |                |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 268

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 695

**DOSE:** VEHICLE CONTROL

**DISP:** Moribund Sacrifice

**HISTO:** A87043381

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex   | Adrenal Gland - Medulla    | Bone                    | Bone Marrow               |
| Esophagus                | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric | Mammary Gland             |
| Parathyroid Gland        | Salivary Glands            | Skin                    | Stomach - Forestomach     |
| Stomach - Glandular      | Thymus                     | Trachea                 |                           |

**OBSERVATIONS**

|                                 |               |                       |                 |
|---------------------------------|---------------|-----------------------|-----------------|
| Brain                           | Thalamus      | Mineralization        | Mild            |
| Gallbladder                     |               | Cyst                  |                 |
| Kidney                          |               | Leukemia Erythrocytic |                 |
| Liver                           |               | Hyperplasia           | Focal, Marked   |
|                                 |               | Leukemia Erythrocytic |                 |
| Note: [ HYPERPLASIA ] TGLs = 21 |               |                       |                 |
| Note: LEUKEMIA ERYTH TGLs = 2-6 |               |                       |                 |
| Lung                            |               | Hemorrhage            | Mild            |
|                                 |               | Leukemia Erythrocytic |                 |
| Note: LEUKEMIA ERYTH TGLs = 4-2 |               |                       |                 |
| Note: HEMORRHAGE TGLs = 4-2     |               |                       |                 |
| Mesentery                       | Fat           | Necrosis              | Mild            |
| Note: NECROSIS TGLs = 5-22      |               |                       |                 |
| Nose                            | Glands        | Hyperplasia           | Cystic, Minimal |
| Ovary                           |               | Leukemia Erythrocytic |                 |
| Pancreas                        |               | Leukemia Erythrocytic |                 |
| Pituitary Gland                 | Pars Distalis | Angiectasis           | Mild            |
| Spleen                          |               | Leukemia Erythrocytic |                 |
| Note: LEUKEMIA ERYTH TGLs = 3-6 |               |                       |                 |
| Thyroid Gland                   |               | Degeneration          | Cystic, Minimal |
| Urinary Bladder                 |               | Leukemia Erythrocytic |                 |
| Uterus                          |               | Hyperplasia           | Cystic, Mild    |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 269      **TRT#:** 3      **SEX:** Female      **DAY ON TEST:** 734  
**DOSE:** VEHICLE CONTROL      **DISP:** Terminal Sacrifice      **HISTO:** A87043382

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Brain                   |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mesenteric  | Mammary Gland              | Nose                    |
| Pancreas                  | Parathyroid Gland        | Pituitary Gland            | Salivary Glands         |
| Skin                      | Stomach - Forestomach    | Stomach - Glandular        | Trachea                 |

**OBSERVATIONS**

|                      |                |                                   |                             |
|----------------------|----------------|-----------------------------------|-----------------------------|
| Adrenal Gland        | Cortex         | Accessory Adrenal Cortical Nodule |                             |
| Islets, Pancreatic   |                | Hyperplasia                       | Minimal                     |
| Kidney               |                | Casts Protein                     | Minimal                     |
|                      |                | Hyperplasia                       | Lymphoid, Mild              |
|                      |                | Mineralization                    | Minimal                     |
| Liver                |                | Hepatocellular Adenoma            |                             |
|                      |                | Hepatocellular Carcinoma          |                             |
|                      |                | Hyperplasia                       | Lymphoid, Minimal           |
| Note: HEPATOCLR ADEN | TGLs = 5-22    |                                   |                             |
| Note: HEPATOCLR CARC | TGLs = 6-23    |                                   |                             |
| Lung                 |                | Hyperplasia                       | Lymphoid, Mild              |
| Lymph Node           | Mandibular     | Hyperplasia                       | Lymphoid, Minimal, Moderate |
| Mesentery            | Fat            | Necrosis                          | Moderate                    |
| Note: NECROSIS       | TGLs = 4-21    |                                   |                             |
| Ovary                |                | Adenoma                           |                             |
| Spleen               |                | Hematopoietic Cell Proliferation  | Minimal                     |
|                      | Lymph Follic   | Hyperplasia                       | Moderate                    |
| Note: HYPERPLASIA    | TGLs = 3-6     |                                   |                             |
| Note: HEMA CELL PROL | TGLs = 3-6     |                                   |                             |
| Thymus               |                | Hyperplasia                       | Lymphoid, Moderate          |
| Thyroid Gland        | Follicular Cel | Hyperplasia                       | Minimal                     |
| Urinary Bladder      |                | Hyperplasia                       | Lymphoid, Minimal           |
| Uterus               |                | Hydrometra                        | Mild                        |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 269

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87043382

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Hyperplasia

Cystic, Moderate

Note: HYDROMETRA TGLs = 2-7

Note: HYPERPLASIA TGLs = 1-7

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                              |                                 |                         |
|-----------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 270 | <b>TRT#:</b> 3               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 735 |
|                       | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87043383 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      |
| Lung                    | Lymph Node - Mandibular   | Lymph Node - Mesenteric  | Mammary Gland              |
| Nose                    | Pancreas                  | Parathyroid Gland        | Pituitary Gland            |
| Salivary Glands         | Skin                      | Spleen                   | Stomach - Forestomach      |
| Stomach - Glandular     | Thymus                    | Trachea                  | Urinary Bladder            |

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**OBSERVATIONS**

|               |              |                |                  |
|---------------|--------------|----------------|------------------|
| Kidney        |              | Mineralization | Mild             |
|               | Renal Tubule | Regeneration   | Minimal          |
| Ovary         |              | Angiectasis    | Mild             |
| Thyroid Gland |              | Degeneration   | Cystic, Mild     |
| Uterus        |              | Hyperplasia    | Cystic, Moderate |

Note: HYPERPLASIA TGLs = 1-7

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 271

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 97

**DOSE:** VEHICLE 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033851

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Intestine Large - Cecum  
Intestine Small - Jejunum  
Lung  
Nose  
Pituitary Gland  
Stomach - Forestomach  
Trachea

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Colon  
Islets, Pancreatic  
Lymph Node - Mandibular  
Ovary  
Salivary Glands  
Stomach - Glandular  
Urinary Bladder

Bone  
Gallbladder  
Intestine Small - Duodenum  
Kidney  
Lymph Node - Mesenteric  
Pancreas  
Skin  
Thymus  
Uterus

Bone Marrow  
Heart  
Intestine Small - Ileum  
Liver  
Mammary Gland  
Parathyroid Gland  
Spleen  
Thyroid Gland

**MISSING**

Intestine Large - Rectum

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 272

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 99

**DOSE:** VEHICLE 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033852

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      |
| Lung                    | Lymph Node - Mandibular   | Lymph Node - Mesenteric  | Mammary Gland              |
| Nose                    | Ovary                     | Pancreas                 | Parathyroid Gland          |
| Pituitary Gland         | Salivary Glands           | Skin                     | Spleen                     |
| Stomach - Forestomach   | Stomach - Glandular       | Thymus                   | Thyroid Gland              |
| Trachea                 | Urinary Bladder           | Uterus                   |                            |

**OBSERVATIONS**

|        |              |              |         |
|--------|--------------|--------------|---------|
| Kidney | Renal Tubule | Regeneration | Minimal |
|--------|--------------|--------------|---------|

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 273

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 98

**DOSE:** VEHICLE 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033853

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Liver  
Nose  
Pituitary Gland  
Stomach - Forestomach  
Trachea

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mandibular  
Ovary  
Salivary Glands  
Stomach - Glandular  
Urinary Bladder

Bone  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mesenteric  
Pancreas  
Skin  
Thymus  
Uterus

Bone Marrow  
Heart  
Intestine Small - Duodenum  
Kidney  
Mammary Gland  
Parathyroid Gland  
Spleen  
Thyroid Gland

**OBSERVATIONS**

Lung

Hemorrhage

Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 274

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 98

**DOSE:** VEHICLE 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033854

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Intestine Large - Colon  
Islets, Pancreatic  
Lymph Node - Mandibular  
Pancreas  
Spleen  
Thyroid Gland

Adrenal Gland - Medulla  
Esophagus  
Intestine Small - Duodenum  
Kidney  
Mammary Gland  
Parathyroid Gland  
Stomach - Forestomach  
Trachea

Bone  
Heart  
Intestine Small - Ileum  
Liver  
Nose  
Salivary Glands  
Stomach - Glandular  
Urinary Bladder

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Jejunum  
Lung  
Ovary  
Skin  
Thymus  
Uterus

**MISSING**

Gallbladder

Intestine Large - Rectum

Lymph Node - Mesenteric

Pituitary Gland

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 275

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 97

**DOSE:** VEHICLE 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033855

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mandibular  
Ovary  
Salivary Glands  
Stomach - Glandular  
Urinary Bladder

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mesenteric  
Pancreas  
Skin  
Thymus  
Uterus

Bone  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Mammary Gland  
Parathyroid Gland  
Spleen  
Thyroid Gland

Bone Marrow  
Heart  
Intestine Small - Duodenum  
Kidney  
Nose  
Pituitary Gland  
Stomach - Forestomach  
Trachea

**OBSERVATIONS**

Liver  
Lung

Inflammation  
Hemorrhage  
Inflammation

Acute, Minimal  
Minimal  
Chronic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 276

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 455

**DOSE:** VEHICLE CONTROL

**DISP:** Scheduled Sacrifice

**HISTO:** A86037668

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Mammary Gland            | Nose                       | Ovary                   |
| Pancreas                  | Parathyroid Gland        | Salivary Glands            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Thymus                     | Thyroid Gland           |
| Trachea                   |                          |                            |                         |

**OBSERVATIONS**

|                 |               |                |                   |
|-----------------|---------------|----------------|-------------------|
| Brain           | Thalamus      | Mineralization | Minimal           |
| Kidney          |               | Hyperplasia    | Lymphoid, Mild    |
| Liver           |               | Inflammation   | Chronic, Minimal  |
| Pituitary Gland | Pars Distalis | Hyperplasia    | Minimal           |
| Stomach         | Glandular     | Cyst           |                   |
| Urinary Bladder |               | Hyperplasia    | Lymphoid, Minimal |
| Uterus          |               | Hyperplasia    | Cystic, Mild      |

Note: HYPERPLASIA TGLs = 1-7

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                              |                                  |                         |
|-----------------------|------------------------------|----------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 277 | <b>TRT#:</b> 3               | <b>SEX:</b> Female               | <b>DAY ON TEST:</b> 456 |
|                       | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Scheduled Sacrifice | <b>HISTO:</b> A86037669 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Medulla    | Bone                    | Bone Marrow               | Esophagus                |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Liver                      | Lung                    | Lymph Node - Mandibular   | Lymph Node - Mesenteric  |
| Mammary Gland              | Nose                    | Ovary                     | Pancreas                 |
| Parathyroid Gland          | Pituitary Gland         | Skin                      | Spleen                   |
| Stomach - Forestomach      | Stomach - Glandular     | Thymus                    | Trachea                  |

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**OBSERVATIONS**

|                 |                 |                |                   |
|-----------------|-----------------|----------------|-------------------|
| Adrenal Gland   | Capsule, Cortex | Hyperplasia    | Minimal           |
|                 | Cortex          | Hyperplasia    | Focal, Mild       |
| Brain           | Thalamus        | Mineralization | Minimal           |
| Gallbladder     |                 | Inflammation   | Chronic, Minimal  |
| Kidney          |                 | Hyperplasia    | Lymphoid, Minimal |
|                 | Renal Tubule    | Regeneration   | Minimal           |
| Salivary Glands |                 | Hyperplasia    | Lymphoid, Mild    |
| Thyroid Gland   |                 | Degeneration   | Cystic, Minimal   |
| Urinary Bladder |                 | Hyperplasia    | Lymphoid, Minimal |
| Uterus          |                 | Hyperplasia    | Cystic, Moderate  |

Note: HYPERPLASIA TGLs = 1-7

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 278

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** VEHICLE CONTROL

**DISP:** Scheduled Sacrifice

**HISTO:** A86037670

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   |
| Mammary Gland            | Nose                       | Ovary                   | Pancreas                  |
| Parathyroid Gland        | Pituitary Gland            | Salivary Glands         | Skin                      |
| Spleen                   | Stomach - Forestomach      | Stomach - Glandular     | Thyroid Gland             |
| Trachea                  | Urinary Bladder            |                         |                           |

**OBSERVATIONS**

|   |              |                                   |                         |
|---|--------------|-----------------------------------|-------------------------|
| Adrenal Gland   | Cortex       | Accessory Adrenal Cortical Nodule |                         |
| Brain   | Thalamus     | Mineralization                    | Mild                    |
| Kidney  |              | Hyperplasia                       | Lymphoid, Minimal       |
|   |              | Mineralization                    | Minimal                 |
|   | Renal Tubule | Regeneration                      | Minimal                 |
| Liver   |              | Hemorrhage                        | Minimal                 |
|   |              | Infiltration Cellular             | Mononuclear CI, Minimal |
| Note: HEMORRHAGE & CELLULAR INFILTRATION OCCUR AT SAME SITES. |              |                                   |                         |
| Thymus  |              | Cyst                              |                         |
| Uterus  |              | Hyperplasia                       | Cystic, Moderate        |
|   |              | Inflammation                      | Suppurative, Mild       |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 279

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 455

**DOSE:** VEHICLE CONTROL

**DISP:** Scheduled Sacrifice

**HISTO:** A86037671

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mesenteric  
Pancreas  
Spleen  
Thyroid Gland

Adrenal Gland - Medulla  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Mammary Gland  
Parathyroid Gland  
Stomach - Forestomach  
Trachea

Bone  
Heart  
Intestine Small - Duodenum  
Lung  
Nose  
Pituitary Gland  
Stomach - Glandular  
Urinary Bladder

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mandibular  
Ovary  
Skin  
Thymus

**OBSERVATIONS**

Brain  
Thalamus  
Note: THE CYST IS ON THE MID-LINE OF THE CEREBRUM;  
Note: IT CONTAINS MINERALIZED MATERIAL AND CHOLESTEROL CLEFTS.  
Kidney  
Liver  
Hepatocyte  
Salivary Glands  
Uterus  
Note: [ HYPERPLASIA ] TGLs = 7

Cyst  
Mineralization  
Mild  
Hyperplasia  
Inflammation  
Vacuolization Cytoplasmic  
Hyperplasia  
Hyperplasia  
Lymphoid, Mild  
Subacute, Minimal  
Minimal  
Lymphoid, Mild  
Cystic, Moderate

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                              |                                  |                         |
|-----------------------|------------------------------|----------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 280 | <b>TRT#:</b> 3               | <b>SEX:</b> Female               | <b>DAY ON TEST:</b> 456 |
|                       | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Scheduled Sacrifice | <b>HISTO:</b> A86037672 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Mammary Gland            | Nose                       | Ovary                   |
| Pancreas                  | Parathyroid Gland        | Pituitary Gland            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Trachea                    | Urinary Bladder         |

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**OBSERVATIONS**

|                 |                |                |                   |
|-----------------|----------------|----------------|-------------------|
| Brain           | Thalamus       | Mineralization | Minimal           |
| Kidney          | Renal Tubule   | Regeneration   | Minimal           |
| Liver           |                | Inflammation   | Subacute, Minimal |
| Salivary Glands |                | Hyperplasia    | Lymphoid, Minimal |
| Stomach         | Glandular      | Inflammation   | Subacute, Mild    |
| Thymus          |                | Cyst           |                   |
| Thyroid Gland   | Follicular Cel | Adenoma        |                   |
|                 |                | Degeneration   | Cystic, Minimal   |
|                 |                | Hyperplasia    | Cystic, Moderate  |

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Note: HYPERPLASIA TGLs = 1-7

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 281

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043405

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    |
| Lymph Node - Mesenteric | Mammary Gland             | Nose                     | Pancreas                   |
| Parathyroid Gland       | Pituitary Gland           | Salivary Glands          | Skin                       |
| Spleen                  | Stomach - Forestomach     | Stomach - Glandular      | Thymus                     |
| Trachea                 |                           |                          |                            |

**OBSERVATIONS**

|                                  |              |                        |                   |
|----------------------------------|--------------|------------------------|-------------------|
| Kidney                           | Renal Tubule | Atrophy                | Mild              |
|                                  |              | Casts Protein          | Minimal           |
|                                  |              | Hyperplasia            | Lymphoid, Minimal |
|                                  | Renal Tubule | Regeneration           | Minimal           |
|                                  |              | Hepatocellular Adenoma |                   |
| Liver                            |              |                        |                   |
| Note: HEPATOCLR ADEN TGLs = 2-21 |              |                        |                   |
| Lung                             |              | Hyperplasia            | Lymphoid, Minimal |
| Ovary                            |              | Cyst                   |                   |
| Note: CYST TGLs = 1-7-1          |              |                        |                   |
| Thyroid Gland                    |              | Degeneration           | Cystic, Minimal   |
| Urinary Bladder                  |              | Hyperplasia            | Lymphoid, Minimal |
| Uterus                           |              | Hyperplasia            | Cystic, Mild      |
| Note: HYPERPLASIA TGLs = 3-7     |              |                        |                   |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 282

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043406

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Brain                   |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Mammary Gland            | Nose                       | Ovary                   |
| Pancreas                  | Parathyroid Gland        | Pituitary Gland            | Skin                    |
| Stomach - Forestomach     | Thymus                   | Trachea                    | Urinary Bladder         |

**OBSERVATIONS**

|   |              |                                  |                    |
|---|--------------|----------------------------------|--------------------|
| Bone Marrow   |              | Hypercellularity                 |                    |
| Harderian Gland   |              | Cyst                             |                    |
| Note: CYST      TGLs = 4-21                             |              |                                  |                    |
| Kidney  | Renal Tubule | Atrophy                          | Moderate           |
|   |              | Mineralization                   | Minimal            |
|   | Renal Tubule | Regeneration                     | Minimal            |
| Lung  |              | Hemorrhage                       | Mild               |
|   |              | Infiltration Cellular            | Histiocyte, Marked |
| Note: MOST HISTIOCYTES CONTAIN HEMOSIDERIN LIKE PIGMENT |              |                                  |                    |
| Note: INFILTRAT CELL      TGLs = 3-2                    |              |                                  |                    |
| Note: HEMORRHAGE      TGLs = 3-2                        |              |                                  |                    |
| Salivary Glands   |              | Hyperplasia                      | Lymphoid, Moderate |
| Spleen  |              | Hematopoietic Cell Proliferation | Moderate           |
| Note: HEMA CELL PROL      TGLs = 2-6                    |              |                                  |                    |
| Stomach   | Glandular    | Inflammation                     | Subacute, Moderate |
| Thyroid Gland   |              | Degeneration                     | Cystic, Moderate   |
| Uterus  |              | Hyperplasia                      | Cystic, Moderate   |
| Note: HYPERPLASIA      TGLs = 1-7                       |              |                                  |                    |

**PRIMARY CAUSE OF DEATH**      -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 283

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043407

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Mammary Gland             | Nose                     | Pancreas                   | Parathyroid Gland       |
| Pituitary Gland           | Salivary Glands          | Skin                       | Spleen                  |
| Stomach - Forestomach     | Thyroid Gland            | Trachea                    |                         |

**OBSERVATIONS**

|                 |              |                |                    |
|-----------------|--------------|----------------|--------------------|
| Brain           | Thalamus     | Mineralization | Minimal            |
| Kidney          | Renal Tubule | Atrophy        | Moderate           |
|                 |              | Hyperplasia    | Lymphoid, Moderate |
|                 |              | Metaplasia     | Osseous, Minimal   |
| Liver           |              | Hyperplasia    | Lymphoid, Minimal  |
| Lung            |              | Hyperplasia    | Lymphoid, Minimal  |
| Ovary           |              | Angiectasis    | Mild               |
| Stomach         | Glandular    | Cyst           |                    |
| Thymus          |              | Angiectasis    | Mild               |
| Urinary Bladder |              | Hyperplasia    | Lymphoid, Mild     |
| Uterus          |              | Angiectasis    | Mild               |
|                 |              | Hemorrhage     | Mild               |
|                 |              | Hyperplasia    | Cystic, Moderate   |

Note: HYPERPLASIA TGLs = 1-7

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 284

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043408

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mesenteric  
Parathyroid Gland  
Stomach - Forestomach  
Urinary Bladder

Bone  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Mammary Gland  
Pituitary Gland  
Thymus

Bone Marrow  
Heart  
Intestine Small - Duodenum  
Liver  
Nose  
Skin  
Thyroid Gland

Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mandibular  
Pancreas  
Spleen  
Trachea

**OBSERVATIONS**

Adrenal Gland  
Kidney  
  
Lung  
  
Ovary  
Salivary Glands  
Stomach  
Uterus

Cortex  
  
Renal Tubule  
Alveolar Epith  
  
  
Glandular

Accessory Adrenal Cortical Nodule  
Hyperplasia  
Regeneration  
Hyperplasia  
Infiltration Cellular  
Cyst  
Hyperplasia  
Cyst  
Hyperplasia

Lymphoid, Minimal  
Minimal  
Minimal  
Histiocyte, Minimal  
  
Lymphoid, Mild  
  
Cystic, Moderate

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 285

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043409

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Kidney                     |
| Lung                    | Lymph Node - Mandibular   | Mammary Gland            | Nose                       |
| Pancreas                | Pituitary Gland           | Salivary Glands          | Skin                       |
| Stomach - Forestomach   | Stomach - Glandular       | Thymus                   | Thyroid Gland              |
| Trachea                 | Urinary Bladder           |                          |                            |

**MISSING**

Parathyroid Gland

**OBSERVATIONS**

|   |            |                                  |               |
|---|------------|----------------------------------|---------------|
| Esophagus                                       |            |                                  |               |
| Note: ESOPHAGUS ON SLIDE 4                      |            |                                  |               |
| Liver   |            | Inflammation                     | Chronic, Mild |
| Lymph Node                                      | Mesenteric | Lymphoma Malignant Mixed         |               |
|   | Renal      | Lymphoma Malignant Mixed         |               |
| Note: MEDIASTINAL IS MISSING                    |            |                                  |               |
| Note: LYMPH MAL MIXD TGLs = 4-21                |            |                                  |               |
| [ Lymphoma Malignant Mixed TGLS = 3-5 ]         |            |                                  |               |
| Ovary   |            | Cyst                             |               |
| Spleen  |            | Hematopoietic Cell Proliferation | Mild          |
|   |            | Lymphoma Malignant Mixed         |               |
| [ Hematopoietic Cell Proliferation TGLS = 2-6 ] |            |                                  |               |
| [ Lymphoma Malignant Mixed TGLS = 2-6 ]         |            |                                  |               |
| Uterus  |            | Hyperplasia                      | Cystic, Mild  |
| Note: HYPERPLASIA TGLs = 1-7                    |            |                                  |               |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 286

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043410

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Brain                   |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Mammary Gland           |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Skin                      | Stomach - Glandular      | Thymus                     | Thyroid Gland           |
| Trachea                   |                          |                            |                         |

**OBSERVATIONS**

|                               |              |                  |                   |
|-------------------------------|--------------|------------------|-------------------|
| Adrenal Gland                 | Cortex       | Clear Cell Focus |                   |
| Kidney                        |              | Hyperplasia      | Lymphoid, Minimal |
|                               | Renal Tubule | Regeneration     | Minimal           |
| Liver                         |              | Hyperplasia      | Focal, Mild       |
| Note: HYPERPLASIA TGLs = 3-21 |              |                  |                   |
| Lung                          |              | Hyperplasia      | Lymphoid, Minimal |
| Lymph Node                    | Mesenteric   | Hyperplasia      | Plasma Cell, Mild |
| Ovary                         |              | Angiectasis      | Mild              |
|                               |              | Cyst             |                   |
| Note: CYST TGLs = 1-7         |              |                  |                   |
| Salivary Glands               |              | Hyperplasia      | Lymphoid, Minimal |
| Spleen                        | Lymph Follic | Hyperplasia      | Mild              |
| Stomach                       | Forestomach  | Diverticulum     | Mild              |
| Urinary Bladder               |              | Hyperplasia      | Lymphoid, Minimal |
| Uterus                        |              | Hyperplasia      | Cystic, Moderate  |
| Note: HYPERPLASIA TGLs = 2-7  |              |                  |                   |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 287

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043411

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Brain                   |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Mammary Gland            | Nose                       | Ovary                   |
| Pancreas                  | Parathyroid Gland        | Pituitary Gland            | Salivary Glands         |
| Spleen                    | Stomach - Forestomach    | Stomach - Glandular        | Thyroid Gland           |
| Trachea                   |                          |                            |                         |

**INSUFFICIENT TISSUE**

Skin

**OBSERVATIONS**

|                 |              |                                   |                  |
|-----------------|--------------|-----------------------------------|------------------|
| Adrenal Gland   | Cortex       | Accessory Adrenal Cortical Nodule |                  |
|                 | Cortex       | Basophilic Focus                  |                  |
| Kidney          |              | Casts Protein                     | Minimal          |
|                 | Renal Tubule | Regeneration                      | Minimal          |
| Liver           | Lobules      | Necrosis                          | Minimal          |
| Thymus          |              | Cyst                              |                  |
| Urinary Bladder |              | Hyperplasia                       | Lymphoid, Mild   |
| Uterus          |              | Hyperplasia                       | Cystic, Moderate |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                            |                         |
|-----------------------|-------------------------------|----------------------------|-------------------------|
| <b>ANIMAL ID:</b> 288 | <b>TRT#:</b> 7                | <b>SEX:</b> Female         | <b>DAY ON TEST:</b> 63  |
|                       | <b>DOSE:</b> 0.0200% CHLORAMI | <b>DISP:</b> Natural Death | <b>HISTO:</b> A85033605 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                         |                          |                            |                    |
|-------------------------|--------------------------|----------------------------|--------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla  | Bone                       | Bone Marrow        |
| Brain                   | Esophagus                | Gallbladder                | Heart              |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Islets, Pancreatic |
| Liver                   | Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Mammary Gland      |
| Nose                    | Ovary                    | Pancreas                   | Parathyroid Gland  |
| Pituitary Gland         | Salivary Glands          | Skin                       | Spleen             |
| Stomach - Forestomach   | Stomach - Glandular      | Thyroid Gland              | Tooth              |
| Trachea                 | Urinary Bladder          | Uterus                     |                    |

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**AUTO PRECLUDES DIAG.**

|                         |                         |                           |
|-------------------------|-------------------------|---------------------------|
| Intestine Large - Cecum | Intestine Small - Ileum | Intestine Small - Jejunum |
|-------------------------|-------------------------|---------------------------|

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**OBSERVATIONS**

|        |                    |          |
|--------|--------------------|----------|
| Kidney | Amyloid Deposition | Moderate |
| Lung   | Congestion         | Mild     |
| Thymus | Depletion Cellular | Moderate |

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-02  
Test Type: CHRONIC  
Route: DOSED WATER  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Chloraminated water  
CAS Number: CHLORAMINEMX

Date Report Requested: 10/20/2014  
Time Report Requested: 00:10:13  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 289

TRT#: 7

SEX: Female

DAY ON TEST: 734

DOSE: 0.0200% CHLORAMI

DISP: Terminal Sacrifice

HISTO: A87043412

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Mammary Gland             | Nose                     | Ovary                      | Pancreas                |
| Parathyroid Gland         | Pituitary Gland          | Salivary Glands            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Stomach - Glandular        | Thymus                  |
| Thyroid Gland             | Trachea                  | Urinary Bladder            |                         |

OBSERVATIONS

|   |              |                       |                     |
|---|--------------|-----------------------|---------------------|
| Brain   | Thalamus     | Mineralization        | Minimal             |
| Kidney  | Renal Tubule | Atrophy               | Moderate            |
|   |              | Hemorrhage            | Moderate            |
|   |              | Mineralization        | Mild                |
|   | Renal Tubule | Regeneration          | Minimal             |
| Note: HEMORRHAGE IS IN PELVIS; BLOOD IS OLD AND DEGENERATED |              |                       |                     |
| Liver   |              | Hyperplasia           | Focal, Moderate     |
|   |              | Inflammation          | Subacute, Minimal   |
| Note: HYPERPLASIA TGLs = 2-22                               |              |                       |                     |
| Lung  |              | Infiltration Cellular | Histiocyte, Minimal |
| Mesentery   | Fat          | Necrosis              | Marked              |
| Note: NECROSIS TGLs = 1-21                                  |              |                       |                     |
| Uterus  |              | Hyperplasia           | Cystic, Moderate    |

PRIMARY CAUSE OF DEATH

-

Animal Note: INFUSION ARTIFACT IN URINARY BLADDER

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 290

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043413

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      | Lung                    |
| Lymph Node - Mandibular   | Lymph Node - Mesenteric  | Mammary Gland              | Nose                    |
| Pancreas                  | Parathyroid Gland        | Pituitary Gland            | Salivary Glands         |
| Spleen                    | Stomach - Forestomach    | Stomach - Glandular        | Thymus                  |
| Trachea                   |                          |                            |                         |

**OBSERVATIONS**

|                 |             |                |                   |
|-----------------|-------------|----------------|-------------------|
| Brain           | Thalamus    | Mineralization | Mild              |
| Kidney          |             | Mineralization | Minimal           |
| Ovary           |             | Cyst           |                   |
| Skin            | Subcut Tiss | Sarcoma        |                   |
| Thyroid Gland   |             | Degeneration   | Cystic, Minimal   |
| Urinary Bladder |             | Hyperplasia    | Lymphoid, Minimal |
| Uterus          |             | Hyperplasia    | Cystic, Marked    |

Note: HYPERPLASIA TGLs = 2-7

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 291

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043414

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mandibular  
Pancreas  
Spleen  
Trachea

Adrenal Gland - Medulla  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mesenteric  
Parathyroid Gland  
Stomach - Forestomach

Bone  
Heart  
Intestine Small - Duodenum  
Kidney  
Mammary Gland  
Pituitary Gland  
Thymus

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lung  
Nose  
Salivary Glands  
Thyroid Gland

**OBSERVATIONS**

Brain  
Liver  
    Note: HEPATOCLR ADEN   TGLs = 4-22  
Ovary  
    Note: CYST            TGLs = 2-7  
Skin  
    Note: INFLAMMATION   TGLs = 1-21  
    Note: ACANTHOSIS     TGLs = 1-21  
Stomach  
Urinary Bladder  
Uterus  
    Note: HYPERPLASIA    TGLs = 3-7

Thalamus  
  
  
  
  
  
  
  
  
Glandular

Mineralization  
Hepatocellular Adenoma  
  
Cyst  
  
Acanthosis  
Inflammation  
  
  
Cyst  
Hyperplasia  
Hyperplasia

Minimal  
  
  
  
  
Minimal  
Chronic, Minimal  
  
  
  
Lymphoid, Mild  
Cystic, Moderate

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 292

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 579

**DOSE:** 0.0200% CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87043415

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex   | Adrenal Gland - Medulla    | Bone                    | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Kidney                     | Lung                    | Lymph Node - Mandibular   |
| Lymph Node - Mesenteric  | Nose                       | Parathyroid Gland       | Pituitary Gland           |
| Salivary Glands          | Skin                       | Stomach - Forestomach   | Stomach - Glandular       |
| Trachea                  | Urinary Bladder            |                         |                           |

**OBSERVATIONS**

|               |            |                                  |                       |
|---------------|------------|----------------------------------|-----------------------|
| Bone Marrow   |            | Hypercellularity                 | Mild                  |
| Brain         | Thalamus   | Mineralization                   | Mild                  |
| Liver         |            | Hematopoietic Cell Proliferation | Minimal               |
| Mammary Gland |            | Hyperplasia                      | Cystic, Minimal       |
| Ovary         |            | Angiectasis                      | Moderate              |
|               |            | Cyst                             |                       |
| Note: CYST    | TGLs = 5-7 |                                  |                       |
| Pancreas      |            | Cytoplasmic Alteration           | Marked                |
| Spleen        |            | Hematopoietic Cell Proliferation | Minimal               |
| Thymus        |            | Depletion Cellular               | Marked                |
| Thyroid Gland |            | Degeneration                     | Cystic, Minimal       |
| Uterus        |            | Angiectasis                      | Mild                  |
|               |            | Hydrometra                       | Moderate              |
|               |            | Hyperplasia                      | Cystic, Mild          |
|               |            | Inflammation                     | Suppurative, Moderate |

Note: INFLAMMATION TGLs = 2-7

Note: HYPERPLASIA TGLs = 3-7

Note: HYDROMETRA TGLs = 1-7

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 293

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043416

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Liver                      | Lung                    | Lymph Node - Mandibular   |
| Lymph Node - Mesenteric  | Mammary Gland              | Nose                    | Pancreas                  |
| Parathyroid Gland        | Salivary Glands            | Skin                    | Stomach - Forestomach     |
| Stomach - Glandular      | Trachea                    |                         |                           |

**MISSING**

Thymus

**OBSERVATIONS**

|                      |                |                                   |                   |
|----------------------|----------------|-----------------------------------|-------------------|
| Adrenal Gland        | Cortex         | Accessory Adrenal Cortical Nodule |                   |
| Brain                | Thalamus       | Mineralization                    | Mild              |
| Kidney               | Renal Tubule   | Atrophy                           | Minimal           |
| Ovary                |                | Cyst                              |                   |
| Note: CYST           | TGLs = 1-7     |                                   |                   |
| Pituitary Gland      | Pars Distalis  | Hyperplasia                       | Minimal           |
| Spleen               |                | Hematopoietic Cell Proliferation  | Minimal           |
|                      |                | Lymphoma Malignant Mixed          |                   |
| Note: LYMPH MAL MIXD | TGLs = 2-6     |                                   |                   |
| Note: HEMA CELL PROL | TGLs = 2-6     |                                   |                   |
| Thyroid Gland        |                | Degeneration                      | Cystic, Minimal   |
|                      | Follicular Cel | Hyperplasia                       | Minimal           |
| Urinary Bladder      |                | Hyperplasia                       | Lymphoid, Minimal |
| Uterus               |                | Hyperplasia                       | Cystic, Marked    |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 294

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043417

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Nose                       | Pancreas                |
| Parathyroid Gland         | Salivary Glands          | Skin                       | Stomach - Forestomach   |
| Stomach - Glandular       | Thymus                   | Trachea                    |                         |

**OBSERVATIONS**

|                                  |               |                                  |                   |
|----------------------------------|---------------|----------------------------------|-------------------|
| Brain                            |               | Compression                      |                   |
|                                  | Thalamus      | Mineralization                   | Mild              |
| [ Mineralization TGLS = 3-1 ]    |               |                                  |                   |
| Islets, Pancreatic               |               | Hyperplasia                      | Minimal           |
| Kidney                           | Renal Tubule  | Regeneration                     | Minimal           |
| Liver                            |               | Hepatocellular Adenoma           |                   |
| Note: HEPATOCLR ADEN TGLs = 5-21 |               |                                  |                   |
| Lung                             |               | Hyperplasia                      | Lymphoid, Minimal |
| Lymph Node                       | Mesenteric    | Lymphoma Malignant Mixed         |                   |
| Mammary Gland                    |               | Hyperplasia                      | Lobular, Minimal  |
|                                  |               | Hyperplasia                      | Cystic, Mild      |
| Ovary                            |               | Cyst                             |                   |
| Pituitary Gland                  | Pars Distalis | Carcinoma                        |                   |
| Note: CARCINOMA TGLs = 4-1       |               |                                  |                   |
| Spleen                           |               | Hematopoietic Cell Proliferation | Minimal           |
|                                  |               | Lymphoma Malignant Mixed         |                   |
| Note: HEMA CELL PROL TGLs = 2-6  |               |                                  |                   |
| Note: LYMPH MAL MIXD TGLs = 2-6  |               |                                  |                   |
| Thyroid Gland                    |               | Degeneration                     | Cystic, Mild      |
| Urinary Bladder                  |               | Hyperplasia                      | Lymphoid, Minimal |
| Uterus                           |               | Hydrometra                       | Moderate          |
|                                  |               | Hyperplasia                      | Cystic, Moderate  |
| Note: HYDROMETRA TGLs = 1-7      |               |                                  |                   |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 294

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043417

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 295      **TRT#:** 7      **SEX:** Female      **DAY ON TEST:** 736  
**DOSE:** 0.0200% CHLORAMI      **DISP:** Terminal Sacrifice      **HISTO:** A87043418

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Mammary Gland             | Nose                     | Pancreas                   | Parathyroid Gland       |
| Skin                      | Stomach - Forestomach    | Stomach - Glandular        | Thymus                  |
| Trachea                   |                          |                            |                         |

**OBSERVATIONS**

|                                  |                |                                  |                   |
|----------------------------------|----------------|----------------------------------|-------------------|
| Brain                            | Thalamus       | Mineralization                   | Mild              |
| Kidney                           |                | Hyperplasia                      | Lymphoid, Minimal |
| Liver                            |                | Hepatocellular Adenoma           |                   |
|                                  |                | Inflammation                     | Chronic, Minimal  |
|                                  | Kupffer Cell   | Pigmentation                     | Moderate          |
| Note: HEPATOCLR ADEN TGLs = 2-21 |                |                                  |                   |
| Lung                             |                | Hyperplasia                      | Lymphoid, Mild    |
| Ovary                            |                | Angiectasis                      | Moderate          |
| Note: ANGIECTASIS TGLs = 3-7     |                |                                  |                   |
| Pituitary Gland                  | Pars Distalis  | Cyst                             |                   |
| Salivary Glands                  |                | Hyperplasia                      | Lymphoid, Minimal |
| Spleen                           |                | Hematopoietic Cell Proliferation | Moderate          |
| Note: HEMA CELL PROL TGLs = 1-6  |                |                                  |                   |
| Thyroid Gland                    |                | Degeneration                     | Cystic, Minimal   |
|                                  | Follicular Cel | Hyperplasia                      | Mild              |
| Urinary Bladder                  |                | Hyperplasia                      | Lymphoid, Mild    |
| Uterus                           |                | Hyperplasia                      | Cystic, Mild      |

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 296

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 698

**DOSE:** 0.0200% CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87043419

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Mammary Gland  
Parathyroid Gland  
Stomach - Forestomach  
Trachea

Adrenal Gland - Medulla  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Nose  
Pituitary Gland  
Stomach - Glandular

Bone  
Heart  
Intestine Small - Duodenum  
Lymph Node - Mandibular  
Ovary  
Salivary Glands  
Thymus

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mesenteric  
Pancreas  
Skin  
Thyroid Gland

**OBSERVATIONS**

Brain  
Harderian Gland  
Kidney  
Liver  
    Note: HYPERPLASIA    TGLs = 3-21  
Lung  
Spleen  
Urinary Bladder  
    Note: INFUSION ARTIFACT IN BLADDER  
Uterus  
  
    Note: HYDROMETRA    TGLs = 1-7

Thalamus  
  
  
  
  
Lymph Follic

Mineralization  
Adenoma  
Hyperplasia  
Hyperplasia  
  
Infiltration Cellular  
Hyperplasia  
Hyperplasia  
  
Hydrometra  
Hyperplasia

Moderate  
  
Lymphoid, Minimal  
Focal, Mild  
  
Histiocyte, Mild  
Mild  
Lymphoid, Mild  
  
Marked  
Cystic, Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 297

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0.0200% CHLORAMI

**DISP:** Natural Death

**HISTO:** A87043420

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |          |                         |                         |
|-------------------------|----------|-------------------------|-------------------------|
| Adrenal Gland - Medulla | Bone     | Bone Marrow             | Brain                   |
| Esophagus               | Heart    | Intestine Large - Cecum | Intestine Large - Colon |
| Islets, Pancreatic      | Liver    | Lymph Node - Mandibular | Mammary Gland           |
| Nose                    | Pancreas | Pituitary Gland         | Salivary Glands         |
| Skin                    | Spleen   | Stomach - Forestomach   | Stomach - Glandular     |
| Thymus                  |          |                         |                         |

**MISSING**

|                         |                   |               |         |
|-------------------------|-------------------|---------------|---------|
| Lymph Node - Mesenteric | Parathyroid Gland | Thyroid Gland | Trachea |
|-------------------------|-------------------|---------------|---------|

**AUTO PRECLUDES DIAG.**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Gallbladder               | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum |                          |                            |                         |

**INSUFFICIENT TISSUE**

Ovary

**OBSERVATIONS**

|   |              |                                   |                    |
|---|--------------|-----------------------------------|--------------------|
| Adrenal Gland   | Cortex       | Accessory Adrenal Cortical Nodule |                    |
| Blood Vessel  |              | Hypertrophy                       | Mild               |
|   |              | Inflammation                      | Chronic, Moderate  |
| Note: AFFECTED VESSELS ARE IN HEART AND URINARY BLADDER |              |                                   |                    |
| Kidney  | Renal Tubule | Atrophy                           | Moderate           |
|   |              | Hyperplasia                       | Lymphoid, Minimal  |
| Lung  |              | Alveolar/Bronchiolar Adenoma      |                    |
|   |              | Congestion                        | Moderate           |
|   |              | Leukocytosis                      | Moderate           |
| [ Congestion TGLS = 3-2-1 ]                             |              |                                   |                    |
| Lymph Node  | Renal        | Hyperplasia                       | Lymphoid, Moderate |
| Note: HYPERPLASIA                                       | TGLs = 4-21  |                                   |                    |
| Urinary Bladder   |              | Hyperplasia                       | Lymphoid, Moderate |
| Uterus  |              | Hyperplasia                       | Cystic, Mild       |
| Note: HYPERPLASIA                                       | TGLs = 2-7   |                                   |                    |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 297

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0.0200% CHLORAMI

**DISP:** Natural Death

**HISTO:** A87043420

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 298

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043421

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Mammary Gland            | Parathyroid Gland          | Pituitary Gland         |
| Salivary Glands           | Skin                     | Stomach - Forestomach      | Stomach - Glandular     |
| Thymus                    | Trachea                  |                            |                         |

**MISSING**

Ovary

**OBSERVATIONS**

|                               |              |                                  |                    |
|-------------------------------|--------------|----------------------------------|--------------------|
| Brain                         | Thalamus     | Mineralization                   | Minimal            |
| Kidney                        | Renal Tubule | Atrophy                          | Mild               |
|                               |              | Casts Protein                    | Minimal            |
|                               |              | Hemorrhage                       | Mild               |
|                               |              | Hyperplasia                      | Lymphoid, Minimal  |
|                               | Renal Tubule | Regeneration                     | Minimal            |
| Note: HEMORRHAGE IS IN PELVIS |              |                                  |                    |
| Liver                         |              | Hepatocellular Adenoma           | Multiple, Two      |
| Nose                          | Glands       | Hyperplasia                      | Cystic, Minimal    |
| Pancreas                      |              | Atrophy                          | Mild               |
|                               |              | Hyperplasia                      | Lymphoid, Minimal  |
| Spleen                        |              | Hematopoietic Cell Proliferation | Mild               |
| Thyroid Gland                 |              | Degeneration                     | Cystic, Mild       |
| Urinary Bladder               |              | Hyperplasia                      | Lymphoid, Moderate |
| Uterus                        |              | Hydrometra                       | Moderate           |
|                               |              | Hyperplasia                      | Cystic, Moderate   |

Note: HYDROMETRA TGLs = 1-7

Note: HYPERPLASIA TGLs = 1-7

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 299

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043422

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       |
| Lymph Node - Mandibular | Lymph Node - Mesenteric   | Mammary Gland            | Nose                       |
| Pancreas                | Parathyroid Gland         | Pituitary Gland          | Salivary Glands            |
| Skin                    | Spleen                    | Stomach - Forestomach    | Stomach - Glandular        |
| Thymus                  | Thyroid Gland             | Trachea                  |                            |

**OBSERVATIONS**

|                 |             |                    |
|-----------------|-------------|--------------------|
| Kidney          | Hyperplasia | Lymphoid, Mild     |
| Liver           | Hyperplasia | Lymphoid, Minimal  |
| Ovary           | Cyst        |                    |
| Urinary Bladder | Hyperplasia | Lymphoid, Moderate |
| Uterus          | Hyperplasia | Cystic, Mild       |
|                 | Metaplasia  | Squamous, Minimal  |

Note: HYPERPLASIA TGLs = 1-7

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 300

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043423

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Medulla    | Bone Marrow             | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Liver                      | Lung                    | Lymph Node - Mandibular   | Lymph Node - Mesenteric  |
| Mammary Gland              | Nose                    | Pancreas                  | Parathyroid Gland        |
| Pituitary Gland            | Salivary Glands         | Skin                      | Spleen                   |
| Stomach - Forestomach      | Stomach - Glandular     | Thymus                    | Thyroid Gland            |
| Trachea                    | Urinary Bladder         |                           |                          |

**INSUFFICIENT TISSUE**

Ovary

**OBSERVATIONS**

|               |          |                                   |              |
|---------------|----------|-----------------------------------|--------------|
| Adrenal Gland | Cortex   | Accessory Adrenal Cortical Nodule |              |
| Bone          |          | Hyperostosis                      | Mild         |
| Brain         | Thalamus | Mineralization                    | Minimal      |
| Kidney        |          | Mineralization                    | Minimal      |
| Uterus        |          | Hyperplasia                       | Cystic, Mild |

Note: HYPERPLASIA TGLs = 1-7

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 301 | <b>TRT#:</b> 7                | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 734 |
|                       | <b>DOSE:</b> 0.0200% CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87043424 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                         |                            |                         |                           |
|-------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla    | Bone                    | Brain                     |
| Esophagus               | Gallbladder                | Heart                   | Intestine Large - Cecum   |
| Intestine Large - Colon | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic      | Lung                       | Lymph Node - Mandibular | Mammary Gland             |
| Nose                    | Pancreas                   | Parathyroid Gland       | Pituitary Gland           |
| Salivary Glands         | Skin                       | Stomach - Forestomach   | Thymus                    |
| Thyroid Gland           | Trachea                    |                         |                           |

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**MISSING**

|                          |                         |
|--------------------------|-------------------------|
| Intestine Large - Rectum | Lymph Node - Mesenteric |
|--------------------------|-------------------------|

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**OBSERVATIONS**

|                                 |              |                                  |                                     |
|---------------------------------|--------------|----------------------------------|-------------------------------------|
| Bone Marrow                     |              | Hypercellularity                 | Mild                                |
| Kidney                          | Renal Tubule | Regeneration                     | Minimal                             |
| Liver                           |              | Histiocytic Sarcoma              | Metastatic (Uncertain Primary Site) |
|                                 | Lobules      | Necrosis                         | Mild                                |
| Ovary                           |              | Cystadenoma                      |                                     |
| Note: CYSTADENOMA TGLs = 1-7-1  |              |                                  |                                     |
| Spleen                          |              | Hematopoietic Cell Proliferation | Moderate                            |
| Note: HEMA CELL PROL TGLs = 3-6 |              |                                  |                                     |
| Stomach                         | Glandular    | Cyst                             |                                     |
| Urinary Bladder                 |              | Hyperplasia                      | Lymphoid, Mild                      |
| Uterus                          |              | Histiocytic Sarcoma              |                                     |
|                                 |              | Hyperplasia                      | Cystic, Marked                      |

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 302

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043425

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex   | Adrenal Gland - Medulla    | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric | Mammary Gland             |
| Pancreas                 | Parathyroid Gland          | Pituitary Gland         | Salivary Glands           |
| Skin                     | Spleen                     | Stomach - Forestomach   | Stomach - Glandular       |
| Thymus                   | Trachea                    |                         |                           |

**OBSERVATIONS**

|                 |                |                        |                     |
|-----------------|----------------|------------------------|---------------------|
| Bone            |                | Hyperostosis           | Marked              |
| Brain           | Thalamus       | Mineralization         | Mild                |
| Kidney          |                | Hyperplasia            | Lymphoid, Minimal   |
|                 |                | Mineralization         | Minimal             |
|                 | Renal Tubule   | Regeneration           | Minimal             |
| Liver           |                | Hepatocellular Adenoma |                     |
| Lung            |                | Infiltration Cellular  | Histiocyte, Minimal |
| Nose            | Glands         | Hyperplasia            | Cystic, Minimal     |
| Ovary           |                | Angiectasis            | Mild                |
| Thyroid Gland   |                | Degeneration           | Cystic, Minimal     |
|                 | Follicular Cel | Hyperplasia            | Minimal             |
| Urinary Bladder |                | Hyperplasia            | Lymphoid, Mild      |
| Uterus          |                | Hyperplasia            | Cystic, Mild        |

Note: HYPERPLASIA TGLs = 1-7

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 303

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043426

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Kidney                   | Lymph Node - Mandibular    | Mammary Gland           |
| Nose                      | Ovary                    | Pancreas                   | Parathyroid Gland       |
| Salivary Glands           | Skin                     | Spleen                     | Stomach - Forestomach   |
| Stomach - Glandular       | Thymus                   | Thyroid Gland              | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**OBSERVATIONS**

|                    |               |                |                   |
|--------------------|---------------|----------------|-------------------|
| Brain              | Thalamus      | Mineralization | Mild              |
| Islets, Pancreatic |               | Hyperplasia    | Minimal           |
| Liver              |               | Hyperplasia    | Lymphoid, Minimal |
| Lung               |               | Hyperplasia    | Lymphoid, Minimal |
| Lymph Node         | Mesenteric    | Hemorrhage     | Moderate          |
| Pituitary Gland    | Pars Distalis | Angiectasis    | Mild              |
|                    | Pars Distalis | Hyperplasia    | Minimal           |
| Uterus             |               | Hyperplasia    | Cystic, Moderate  |

Note: HYPERPLASIA TGLs = 1-7

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 304 | <b>TRT#:</b> 7                | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 734 |
|                       | <b>DOSE:</b> 0.0200% CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87043427 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Medulla    | Bone Marrow             | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Liver                      | Lymph Node - Mandibular | Lymph Node - Mesenteric   | Mammary Gland            |
| Nose                       | Ovary                   | Pancreas                  | Parathyroid Gland        |
| Pituitary Gland            | Salivary Glands         | Skin                      | Spleen                   |
| Stomach - Forestomach      | Stomach - Glandular     | Thymus                    | Trachea                  |

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**OBSERVATIONS**

|                 |                |                                   |                     |
|-----------------|----------------|-----------------------------------|---------------------|
| Adrenal Gland   | Cortex         | Accessory Adrenal Cortical Nodule |                     |
| Bone            |                | Hyperostosis                      | Mild                |
| Brain           |                | Inflammation                      | Chronic, Minimal    |
|                 | Thalamus       | Mineralization                    | Mild                |
| Kidney          |                | Mineralization                    | Minimal             |
|                 | Renal Tubule   | Regeneration                      | Minimal             |
| Lung            |                | Infiltration Cellular             | Histiocyte, Minimal |
| Thyroid Gland   | Follicle       | Cyst                              |                     |
|                 | Follicular Cel | Hyperplasia                       | Mild                |
| Urinary Bladder |                | Hyperplasia                       | Lymphoid, Mild      |
| Uterus          |                | Hyperplasia                       | Cystic, Moderate    |

Note: HYPERPLASIA TGLs = 1-7

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 305 | <b>TRT#:</b> 7                | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 736 |
|                       | <b>DOSE:</b> 0.0200% CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87043428 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Medulla    | Bone Marrow             | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Liver                      | Lung                    | Lymph Node - Mandibular   | Lymph Node - Mesenteric  |
| Mammary Gland              | Nose                    | Pancreas                  | Parathyroid Gland        |
| Pituitary Gland            | Salivary Glands         | Skin                      | Spleen                   |
| Stomach - Forestomach      | Stomach - Glandular     | Trachea                   | Urinary Bladder          |

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**MISSING**

Thymus

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**OBSERVATIONS**

|               |                |                                   |                   |
|---------------|----------------|-----------------------------------|-------------------|
| Adrenal Gland | Cortex         | Accessory Adrenal Cortical Nodule |                   |
| Bone          |                | Hyperostosis                      | Minimal           |
| Brain         | Thalamus       | Mineralization                    | Mild              |
| Kidney        | Renal Tubule   | Atrophy                           | Mild              |
|               |                | Hyperplasia                       | Lymphoid, Minimal |
|               | Renal Tubule   | Regeneration                      | Minimal           |
| Ovary         |                | Angiectasis                       | Mild              |
| Thyroid Gland | Follicular Cel | Hyperplasia                       | Mild              |
| Uterus        |                | Hyperplasia                       | Cystic, Moderate  |

Note: HYPERPLASIA TGLs = 1-7

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 306

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 97

**DOSE:** 0.0200% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033856

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Liver  
Mammary Gland  
Pituitary Gland  
Stomach - Forestomach  
Trachea

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lung  
Nose  
Salivary Glands  
Stomach - Glandular  
Urinary Bladder

Bone  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mandibular  
Ovary  
Skin  
Thymus

Bone Marrow  
Heart  
Intestine Small - Duodenum  
Kidney  
Lymph Node - Mesenteric  
Parathyroid Gland  
Spleen  
Thyroid Gland

**OBSERVATIONS**

|          |             |              |                   |
|----------|-------------|--------------|-------------------|
| Pancreas |             | Hyperplasia  | Lymphoid, Mild    |
| Uterus   | Endometrium | Cyst         | Mild              |
|          |             | Inflammation | Suppurative, Mild |

Note: [ CYST ] TGLs = 7

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 307

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 99

**DOSE:** 0.0200% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033857

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Kidney                     |
| Liver                   | Lung                      | Lymph Node - Mandibular  | Lymph Node - Mesenteric    |
| Mammary Gland           | Nose                      | Ovary                    | Pancreas                   |
| Parathyroid Gland       | Salivary Glands           | Skin                     | Spleen                     |
| Stomach - Forestomach   | Stomach - Glandular       | Thymus                   | Thyroid Gland              |
| Trachea                 | Urinary Bladder           |                          |                            |

**MISSING**

Pituitary Gland

**OBSERVATIONS**

|                         |             |      |         |
|-------------------------|-------------|------|---------|
| Uterus                  | Endometrium | Cyst | Minimal |
| Note: [ CYST ] TGLs = 7 |             |      |         |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 308

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 98

**DOSE:** 0.0200% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033858

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Liver  
Mammary Gland  
Parathyroid Gland  
Spleen  
Thyroid Gland

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lung  
Nose  
Pituitary Gland  
Stomach - Forestomach  
Trachea

Bone  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mandibular  
Ovary  
Salivary Glands  
Stomach - Glandular  
Urinary Bladder

Bone Marrow  
Heart  
Intestine Small - Duodenum  
Kidney  
Lymph Node - Mesenteric  
Pancreas  
Skin  
Thymus  
Uterus

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 309

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 98

**DOSE:** 0.0200% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033859

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Liver  
Mammary Gland  
Parathyroid Gland  
Spleen  
Thyroid Gland

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lung  
Nose  
Pituitary Gland  
Stomach - Forestomach  
Trachea

Bone  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mandibular  
Ovary  
Salivary Glands  
Stomach - Glandular  
Urinary Bladder

Bone Marrow  
Heart  
Intestine Small - Duodenum  
Kidney  
Lymph Node - Mesenteric  
Pancreas  
Skin  
Thymus  
Uterus

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE





**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                  |                         |
|-----------------------|-------------------------------|----------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 311 | <b>TRT#:</b> 7                | <b>SEX:</b> Female               | <b>DAY ON TEST:</b> 457 |
|                       | <b>DOSE:</b> 0.0200% CHLORAMI | <b>DISP:</b> Scheduled Sacrifice | <b>HISTO:</b> A86037736 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      |
| Lung                    | Lymph Node - Mandibular   | Lymph Node - Mesenteric  | Mammary Gland              |
| Nose                    | Ovary                     | Pancreas                 | Parathyroid Gland          |
| Pituitary Gland         | Skin                      | Spleen                   | Stomach - Forestomach      |
| Stomach - Glandular     | Trachea                   |                          |                            |

---

**OBSERVATIONS**

|                 |              |              |                   |
|-----------------|--------------|--------------|-------------------|
| Kidney          |              | Hyperplasia  | Lymphoid, Minimal |
|                 | Renal Tubule | Regeneration | Minimal           |
| Salivary Glands |              | Hyperplasia  | Lymphoid, Mild    |
| Thymus          |              | Cyst         |                   |
| Thyroid Gland   |              | Degeneration | Cystic, Mild      |
| Urinary Bladder |              | Hyperplasia  | Lymphoid, Minimal |
| Uterus          |              | Hyperplasia  | Cystic, Moderate  |

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                  |                         |
|-----------------------|-------------------------------|----------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 312 | <b>TRT#:</b> 7                | <b>SEX:</b> Female               | <b>DAY ON TEST:</b> 455 |
|                       | <b>DOSE:</b> 0.0200% CHLORAMI | <b>DISP:</b> Scheduled Sacrifice | <b>HISTO:</b> A86037737 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   |
| Mammary Gland            | Nose                       | Pancreas                | Parathyroid Gland         |
| Pituitary Gland          | Salivary Glands            | Skin                    | Spleen                    |
| Stomach - Forestomach    | Stomach - Glandular        | Trachea                 | Urinary Bladder           |

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**MISSING**

Thymus

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**OBSERVATIONS**

|                   |                 |                                   |                   |
|-------------------|-----------------|-----------------------------------|-------------------|
| Adrenal Gland     | Cortex          | Accessory Adrenal Cortical Nodule |                   |
|                   | Capsule, Cortex | Hyperplasia                       | Mild              |
| Brain             | Thalamus        | Mineralization                    | Mild              |
| Kidney            |                 | Hyperplasia                       | Lymphoid, Minimal |
|                   | Renal Tubule    | Regeneration                      | Minimal           |
| Liver             | Lobules         | Necrosis                          | Minimal           |
| Ovary             |                 | Cyst                              |                   |
| Note: CYST        | TGLs = 2-7      |                                   |                   |
| Thyroid Gland     |                 | Degeneration                      | Cystic, Mild      |
| Uterus            |                 | Hyperplasia                       | Cystic, Moderate  |
| Note: HYPERPLASIA | TGLs = 1-7      |                                   |                   |

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**PRIMARY CAUSE OF DEATH**

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-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 313

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 456

**DOSE:** 0.0200% CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** A86037738

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mesenteric  
Pancreas  
Skin  
Thyroid Gland

Adrenal Gland - Medulla  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Mammary Gland  
Parathyroid Gland  
Spleen  
Trachea

Bone  
Heart  
Intestine Small - Duodenum  
Liver  
Nose  
Pituitary Gland  
Stomach - Forestomach

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mandibular  
Ovary  
Salivary Glands  
Stomach - Glandular

**MISSING**

Thymus

**OBSERVATIONS**

Brain  
Kidney  
Lung  
Urinary Bladder  
Uterus

Thalamus

Mineralization  
Hyperplasia  
Inflammation  
Hyperplasia  
Hyperplasia

Mild  
Lymphoid, Minimal  
Chronic, Mild  
Lymphoid, Mild  
Cystic, Moderate

Note: [ HYPERPLASIA ] TGLs = 7

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 314

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** 0.0200% CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** A86037739

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mesenteric  
Pancreas  
Skin  
Thyroid Gland

Adrenal Gland - Medulla  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Mammary Gland  
Parathyroid Gland  
Stomach - Forestomach  
Trachea

Bone  
Heart  
Intestine Small - Duodenum  
Lung  
Nose  
Pituitary Gland  
Stomach - Glandular  
Urinary Bladder

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mandibular  
Ovary  
Salivary Glands  
Thymus

**OBSERVATIONS**

Brain  
Kidney  
Liver  
Spleen  
    Note: HYPERPLASIA   TGLs = 3-6  
Uterus  
    Note: HYPERPLASIA   TGLs = 1-7

Thalamus  
  
Lymph Follic

Mineralization  
Hyperplasia  
Inflammation  
Hyperplasia  
  
Hyperplasia

Mild  
Lymphoid, Minimal  
Subacute, Minimal  
Minimal  
  
Cystic, Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 315

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 455

**DOSE:** 0.0200% CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** A86037740

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Kidney                     | Lung                    |
| Lymph Node - Mandibular   | Lymph Node - Mesenteric  | Mammary Gland              | Nose                    |
| Ovary                     | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Salivary Glands           | Skin                     | Spleen                     | Stomach - Forestomach   |
| Thymus                    | Thyroid Gland            | Trachea                    |                         |

**OBSERVATIONS**

|                 |           |                |                  |
|-----------------|-----------|----------------|------------------|
| Brain           | Thalamus  | Mineralization | Mild             |
| Harderian Gland |           | Adenoma        |                  |
| Liver           |           | Hyperplasia    | Focal, Minimal   |
| Stomach         | Glandular | Cyst           |                  |
| Urinary Bladder |           | Hyperplasia    | Lymphoid, Mild   |
| Uterus          |           | Hyperplasia    | Cystic, Moderate |

Note: HYPERPLASIA TGLs = 1-7

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 316

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043508

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    |
| Lymph Node - Mesenteric | Mammary Gland             | Nose                     | Pancreas                   |
| Parathyroid Gland       | Pituitary Gland           | Skin                     | Stomach - Forestomach      |
| Stomach - Glandular     | Thymus                    | Trachea                  |                            |

**OBSERVATIONS**

|                      |                  |                                  |                      |
|----------------------|------------------|----------------------------------|----------------------|
| Kidney               |                  | Casts Protein                    | Minimal              |
|                      | Renal Tubule     | Dilatation                       | Mild                 |
|                      | Renal Tubule     | Regeneration                     | Mild                 |
| Liver                |                  | Hepatocellular Adenoma           |                      |
|                      |                  | Hepatocellular Carcinoma         | Multiple, Two        |
|                      | Lobules          | Necrosis                         | Minimal              |
| Note: HEPATOCLR CARC | TGLs = 2-21,3-22 |                                  |                      |
| Note: HEPATOCLR ADEN | TGLs = 4-23      |                                  |                      |
| Lung                 |                  | Hyperplasia                      | Lymphoid, Minimal    |
| Ovary                |                  | Angiectasis                      | Mild                 |
| Note: ANGIECTASIS    | TGLs = 5-7       |                                  |                      |
| Salivary Glands      |                  | Hyperplasia                      | Lymphoid, Minimal    |
| Spleen               |                  | Hematopoietic Cell Proliferation | Moderate             |
| Note: HEMA CELL PROL | TGLs = 1-6       |                                  |                      |
| Thyroid Gland        | Follicular Cel   | Hyperplasia                      | Minimal              |
| Urinary Bladder      |                  | Hyperplasia                      | Lymphoid, Mild       |
| Uterus               |                  | Hyperplasia                      | Cystic, Minimal      |
|                      |                  | Inflammation                     | Suppurative, Minimal |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 317

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043509

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone Marrow                | Brain                   |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Mammary Gland            | Nose                       | Ovary                   |
| Pancreas                  | Parathyroid Gland        | Salivary Glands            | Skin                    |
| Stomach - Forestomach     | Trachea                  |                            |                         |

**MISSING**

Pituitary Gland

**OBSERVATIONS**

|                                  |                |                                  |                 |
|----------------------------------|----------------|----------------------------------|-----------------|
| Bone                             |                | Hyperostosis                     | Mild            |
| Kidney                           | Renal Tubule   | Atrophy                          | Mild            |
|                                  | Renal Tubule   | Regeneration                     | Minimal         |
| Liver                            |                | Basophilic Focus                 |                 |
|                                  |                | Hepatocellular Adenoma           |                 |
|                                  |                | Hepatocellular Carcinoma         |                 |
|                                  |                | Hyperplasia                      | Focal, Moderate |
| Note: HEPATOCLR CARC TGLs = 4-22 |                |                                  |                 |
| Note: HEPATOCLR ADEN TGLs = 5-6  |                |                                  |                 |
| Note: HYPERPLASIA TGLs = 6-23    |                |                                  |                 |
| Mesentery                        | Fat            | Necrosis                         | Moderate        |
| Note: NECROSIS TGLs = 3-21       |                |                                  |                 |
| Spleen                           |                | Hematopoietic Cell Proliferation | Mild            |
|                                  |                | Lymphoma Malignant Mixed         |                 |
| Note: LYMPH MAL MIXD TGLs = 2-6  |                |                                  |                 |
| Note: HEMA CELL PROL TGLs = 2-6  |                |                                  |                 |
| Stomach                          | Glandular      | Cyst                             |                 |
| Thymus                           |                | Cyst                             |                 |
| Thyroid Gland                    | Follicular Cel | Hyperplasia                      | Minimal         |
| Urinary Bladder                  |                | Hyperplasia                      | Lymphoid, Mild  |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 317 | <b>TRT#:</b> 11               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 737 |
|                       | <b>DOSE:</b> 0.0100% CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87043509 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|        |                              |                |
|--------|------------------------------|----------------|
| Uterus | Hyperplasia<br>Polyp Stromal | Cystic, Marked |
|--------|------------------------------|----------------|

Note: HYPERPLASIA TGLs = 1-7

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PRIMARY CAUSE OF DEATH

-

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Animal Note: INFUSION ARTIFACT IN URINARY BLADDER

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 318

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 671

**DOSE:** 0.0100% CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87043510

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Brain                   | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   |
| Mammary Gland            | Nose                       | Pancreas                | Parathyroid Gland         |
| Pituitary Gland          | Salivary Glands            | Skin                    | Stomach - Glandular       |
| Trachea                  |                            |                         |                           |

**OBSERVATIONS**

|               |                     |                                  |                      |
|---------------|---------------------|----------------------------------|----------------------|
| Adrenal Gland | Cortex              | Hyperplasia                      | Focal, Mild          |
| Bone Marrow   |                     | Hypercellularity                 | Mild                 |
| Kidney        | Renal Tubule        | Atrophy                          | Mild                 |
|               | Renal Tubule        | Dilatation                       | Mild                 |
|               |                     | Metaplasia                       | Osseous, Mild        |
|               |                     | Mineralization                   | Mild                 |
|               | Renal Tubule        | Necrosis                         | Moderate             |
|               | Interstitialium     | Pigmentation                     | Moderate             |
|               | Renal Tubule        | Pigmentation                     | Moderate             |
|               | Renal Tubule        | Regeneration                     | Moderate             |
| Liver         |                     | Basophilic Focus                 | Moderate             |
|               | Lobules             | Necrosis                         | Marked               |
|               | Hepatocyte          | Vacuolization Cytoplasmic        | Mild                 |
|               |                     |                                  |                      |
|               |                     | Angiectasis                      | Marked               |
|               |                     |                                  |                      |
|               |                     | Hematopoietic Cell Proliferation | Marked               |
|               |                     |                                  |                      |
|               | Forestomach, Mucosa | Hyperplasia                      | Minimal              |
|               | Forestomach         | Inflammation                     | Suppurative, Minimal |
|               |                     | Depletion Cellular               | Moderate             |

Note: [ BASOPH FOCUS ] TGLs = 6

Note: NECROSIS TGLs = 5-21

Ovary  
Note: ANGIECTASIS TGLs = 1-7-1

Spleen  
Note: HEMA CELL PROL TGLs = 3-6

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 318 | <b>TRT#:</b> 11               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 671 |
|                       | <b>DOSE:</b> 0.0100% CHLORAMI | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87043510 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                 |              |                   |
|-----------------|--------------|-------------------|
| Thyroid Gland   | Degeneration | Cystic, Minimal   |
| Urinary Bladder | Hyperplasia  | Lymphoid, Minimal |
| Uterus          | Hyperplasia  | Cystic, Moderate  |

Note: HYPERPLASIA TGLs = 2-7

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PRIMARY CAUSE OF DEATH

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-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 319

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043511

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                         |
|--------------------------|----------------------------|-------------------------|-------------------------|
| Adrenal Gland - Cortex   | Adrenal Gland - Medulla    | Bone Marrow             | Esophagus               |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Islets, Pancreatic      |
| Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Mammary Gland           | Nose                    |
| Ovary                    | Pancreas                   | Salivary Glands         | Skin                    |
| Stomach - Forestomach    | Thymus                     | Thyroid Gland           | Trachea                 |

**MISSING**

Intestine Small - Jejunum

**OBSERVATIONS**

|  |               |                                  |                    |
|--|---------------|----------------------------------|--------------------|
| Bone                                     |               | Hyperostosis                     | Minimal            |
| Brain                                    | Thalamus      | Mineralization                   | Minimal            |
| Kidney                                   | Renal Tubule  | Regeneration                     | Minimal            |
| Liver                                    |               | Hepatocellular Adenoma           |                    |
| Note: ADENOMA CONTAINS AREAS OF NECROSIS |               |                                  |                    |
| Note: HEPATOCLR ADEN TGLs = 5-22         |               |                                  |                    |
| Lung                                     |               | Hemorrhage                       | Mild               |
|  |               | Hyperplasia                      | Lymphoid, Minimal  |
| Note: HEMORRHAGE TGLs = 7-2              |               |                                  |                    |
| Mesentery                                | Fat           | Necrosis                         | Moderate           |
| Note: NECROSIS TGLs = 2-21               |               |                                  |                    |
| Parathyroid Gland                        |               | Hyperplasia                      | Minimal            |
| Pituitary Gland                          | Pars Distalis | Angiectasis                      | Minimal            |
|  | Pars Distalis | Hyperplasia                      | Mild               |
| Spleen                                   |               | Hematopoietic Cell Proliferation | Moderate           |
| Note: HEMA CELL PROL TGLs = 4-6          |               |                                  |                    |
| Stomach                                  | Glandular     | Cyst                             |                    |
| Urinary Bladder                          |               | Hyperplasia                      | Lymphoid, Moderate |
| Uterus                                   |               | Angiectasis                      | Marked             |
|  |               | Hyperplasia                      | Cystic, Moderate   |
| Note: ANGIECTASIS TGLs = 6-7             |               |                                  |                    |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 319

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043511

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: HYPERPLASIA TGLs = 3-7

PRIMARY CAUSE OF DEATH

-

Animal Note: INFUSION ARTIFACT IN URINARY BLADDER

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 320

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043512

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   |
| Mammary Gland            | Nose                       | Pancreas                | Parathyroid Gland         |
| Salivary Glands          | Skin                       | Stomach - Forestomach   | Stomach - Glandular       |
| Thymus                   | Trachea                    |                         |                           |

**OBSERVATIONS**

|                                |                |                |                   |
|--------------------------------|----------------|----------------|-------------------|
| Adrenal Gland                  | Cortex, X-Zone | Degeneration   | Fatty, Moderate   |
| Brain                          |                | Compression    |                   |
|                                |                | Hydrocephalus  | Mild              |
|                                | Thalamus       | Mineralization | Minimal           |
| [ Hydrocephalus TGLs = 4-1 ]   |                |                |                   |
| Kidney                         | Renal Tubule   | Dilatation     | Mild              |
| Liver                          | Kupffer Cell   | Hyperplasia    | Mild              |
|                                |                | Inflammation   | Subacute, Mild    |
|                                | Lobules        | Necrosis       | Minimal           |
| Ovary                          |                | Angiectasis    | Mild              |
| Pituitary Gland                | Pars Distalis  | Adenoma        |                   |
| Note: [ ADENOMA ] TGLs = 1     |                |                |                   |
| Spleen                         | Red Pulp       | Hyperplasia    | Minimal           |
|                                |                | Pigmentation   | Hemosiderin, Mild |
| Note: HYPERPLASIA TGLs = 2-6   |                |                |                   |
| Thyroid Gland                  | Follicular Cel | Hyperplasia    | Diffuse, Marked   |
| Note: [ HYPERPLASIA ] TGLs = 3 |                |                |                   |
| Urinary Bladder                |                | Hyperplasia    | Lymphoid, Minimal |
| Uterus                         |                | Hydrometra     | Moderate          |
|                                |                | Hyperplasia    | Cystic, Moderate  |
| Note: HYDROMETRA TGLs = 1-7-1  |                |                |                   |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 321 | <b>TRT#:</b> 11               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 737 |
|                       | <b>DOSE:</b> 0.0100% CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87043513 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Mammary Gland             | Nose                     | Pancreas                   | Skin                    |
| Spleen                    | Stomach - Forestomach    | Stomach - Glandular        | Thymus                  |
| Trachea                   | Urinary Bladder          |                            |                         |

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**OBSERVATIONS**

|                    |                  |                |                    |
|--------------------|------------------|----------------|--------------------|
| Brain              | Thalamus         | Mineralization | Moderate           |
| Kidney             |                  | Hyperplasia    | Lymphoid, Minimal  |
|                    | Renal Tubule     | Regeneration   | Minimal            |
| Liver              |                  | Hyperplasia    | Lymphoid, Mild     |
|                    |                  | Inflammation   | Subacute, Moderate |
| Note: INFLAMMATION | TGLs = 3-21      |                |                    |
| Lung               |                  | Hyperplasia    | Lymphoid, Mild     |
| Ovary              |                  | Cyst           |                    |
| Parathyroid Gland  |                  | Ectopic Thymus |                    |
| Pituitary Gland    | Pars Distalis    | Cyst           |                    |
| Salivary Glands    |                  | Hyperplasia    | Lymphoid, Mild     |
| Thyroid Gland      |                  | Degeneration   | Cystic, Minimal    |
| Uterus             |                  | Hyperplasia    | Cystic, Mild       |
| Note: HYPERPLASIA  | TGLs = 1-7,1-7-1 |                |                    |

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 322

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043514

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Liver                      | Lymph Node - Mandibular | Lymph Node - Mesenteric   |
| Mammary Gland            | Nose                       | Ovary                   | Pancreas                  |
| Pituitary Gland          | Salivary Glands            | Skin                    | Stomach - Glandular       |
| Thymus                   | Thyroid Gland              | Trachea                 |                           |

**OBSERVATIONS**

|                   |                     |                                   |                   |
|-------------------|---------------------|-----------------------------------|-------------------|
| Adrenal Gland     | Cortex              | Accessory Adrenal Cortical Nodule |                   |
| Brain             | Thalamus            | Mineralization                    | Mild              |
| Kidney            | Renal Tubule        | Regeneration                      | Mild              |
| Lung              |                     | Hyperplasia                       | Lymphoid, Mild    |
| Parathyroid Gland |                     | Ectopic Thymus                    |                   |
| Spleen            |                     | Hematopoietic Cell Proliferation  | Minimal           |
| Stomach           | Forestomach, Mucosa | Hyperplasia                       | Minimal           |
| Urinary Bladder   |                     | Hyperplasia                       | Lymphoid, Minimal |
| Uterus            |                     | Hyperplasia                       | Cystic, Mild      |

Note: HYPERPLASIA TGLs = 2-7

**PRIMARY CAUSE OF DEATH**

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**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 323

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043515

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mandibular  
Pancreas  
Spleen

Adrenal Gland - Medulla  
Heart  
Intestine Small - Duodenum  
Kidney  
Lymph Node - Mesenteric  
Parathyroid Gland  
Stomach - Forestomach

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Liver  
Mammary Gland  
Pituitary Gland  
Stomach - Glandular

Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lung  
Nose  
Skin  
Trachea

**OBSERVATIONS**

Bone  
Brain  
Ovary

Thalamus

Hyperostosis  
Mineralization  
Cyst  
Hemangioma

Minimal  
Mild

Note: CYST TGLs = 1-7  
Note: HEMANGIOMA TGLs = 3-7  
Salivary Glands  
Thymus  
Note: LYMPH MAL LYMP TGLs = 4-2  
Thyroid Gland  
Urinary Bladder  
Uterus  
Note: HYPERPLASIA TGLs = 2-7

Hyperplasia  
Lymphoma Malignant Lymphocytic  
Degeneration  
Hyperplasia  
Hyperplasia

Lymphoid, Mild  
Cystic, Mild  
Lymphoid, Mild  
Cystic, Moderate

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 324 | <b>TRT#:</b> 11               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 733 |
|                       | <b>DOSE:</b> 0.0100% CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87043516 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Brain                   |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Skin                      | Spleen                   | Stomach - Forestomach      | Stomach - Glandular     |
| Thymus                    | Thyroid Gland            | Trachea                    | Urinary Bladder         |

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**INSUFFICIENT TISSUE**

Mammary Gland

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**OBSERVATIONS**

|   |              |                                   |                    |
|---|--------------|-----------------------------------|--------------------|
| Adrenal Gland                               | Cortex       | Accessory Adrenal Cortical Nodule |                    |
| Kidney                                      | Renal Tubule | Regeneration                      | Minimal            |
| Liver                                       |              | Hepatocellular Adenoma            |                    |
| Note: HEPATOCLR ADEN TGLs = 4-21            |              |                                   |                    |
| Lung  |              | Alveolar/Bronchiolar Adenoma      |                    |
|   |              | Alveolar/Bronchiolar Carcinoma    |                    |
|   |              | Hemorrhage                        | Mild               |
| [ Alveolar/Bronchiolar Adenoma TGLS = 5-2 ] |              |                                   |                    |
| [ Hemorrhage TGLS = 6-2 ]                   |              |                                   |                    |
| Ovary                                       |              | Cyst                              |                    |
| Note: ONE OVARY IS ON SLIDE 8               |              |                                   |                    |
| Note: CYST TGLs = 1-7                       |              |                                   |                    |
| Salivary Glands                             |              | Hyperplasia                       | Lymphoid, Moderate |
| Uterus                                      |              | Hyperplasia                       | Cystic, Moderate   |
| Note: HYPERPLASIA TGLs = 2-7,3-7            |              |                                   |                    |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 325

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043517

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Lung                     | Lymph Node - Mesenteric    | Mammary Gland           | Nose                      |
| Pancreas                 | Parathyroid Gland          | Pituitary Gland         | Skin                      |
| Stomach - Forestomach    | Stomach - Glandular        | Thymus                  | Trachea                   |

**OBSERVATIONS**

|                    |                |                        |                   |
|--------------------|----------------|------------------------|-------------------|
| Adrenal Gland      | Cortex         | Hyperplasia            | Focal, Minimal    |
| Brain              | Thalamus       | Mineralization         | Mild              |
| Islets, Pancreatic |                | Hyperplasia            | Moderate          |
| Kidney             | Renal Tubule   | Regeneration           | Minimal           |
| Liver              |                | Hepatocellular Adenoma | Multiple, Two     |
|                    |                | Hyperplasia            | Focal, Mild       |
| Note: HYPERPLASIA  | TGLs = 8-25    |                        |                   |
| Lymph Node         | Mandibular     | Hemorrhage             | Marked            |
| Note: HEMORRHAGE   | TGLs = 1-21    |                        |                   |
| Ovary              |                | Angiectasis            | Mild              |
|                    |                | Cystadenoma            |                   |
| Salivary Glands    |                | Hyperplasia            | Lymphoid, Minimal |
| Spleen             | Lymph Follic   | Hyperplasia            | Mild              |
| Note: HYPERPLASIA  | TGLs = 4-6     |                        |                   |
| Thyroid Gland      | Follicular Cel | Hyperplasia            | Moderate          |
| Urinary Bladder    |                | Hyperplasia            | Lymphoid, Minimal |
| Uterus             |                | Hydrometra             | Mild              |
|                    |                | Hyperplasia            | Cystic, Moderate  |
| Note: HYDROMETRA   | TGLs = 3-7     |                        |                   |
| Note: HYPERPLASIA  | TGLs = 2-7     |                        |                   |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 326      **TRT#:** 11      **SEX:** Female      **DAY ON TEST:** 728  
**DOSE:** 0.0100% CHLORAMI      **DISP:** Moribund Sacrifice      **HISTO:** A87043518

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex   | Adrenal Gland - Medulla    | Bone                    | Bone Marrow               |
| Esophagus                | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   |
| Mammary Gland            | Nose                       | Pancreas                | Parathyroid Gland         |
| Pituitary Gland          | Salivary Glands            | Skin                    | Stomach - Glandular       |
| Thyroid Gland            | Trachea                    |                         |                           |

**MISSING**

Gallbladder

**OBSERVATIONS**

|                      |                  |                                  |                   |
|----------------------|------------------|----------------------------------|-------------------|
| Brain                | Thalamus         | Mineralization                   | Mild              |
| Kidney               |                  | Casts Protein                    | Mild              |
|                      | Renal Tubule     | Dilatation                       | Mild              |
|                      | Renal Tubule     | Regeneration                     | Moderate          |
| Liver                |                  | Hepatocellular Adenoma           |                   |
|                      |                  | Hepatocellular Carcinoma         | Multiple, Two     |
| Note: HEPATOCLR CARC | TGLs = 3-21,4-22 |                                  |                   |
| Note: HEPATOCLR ADEN | TGLs = 5-23      |                                  |                   |
| Ovary                |                  | Cyst                             |                   |
| Spleen               |                  | Hematopoietic Cell Proliferation | Mild              |
| Note: HEMA CELL PROL | TGLs = 2-6       |                                  |                   |
| Stomach              | Forestomach      | Inflammation                     | Subacute, Minimal |
| Thymus               |                  | Angiectasis                      | Mild              |
|                      |                  | Cyst                             |                   |
| Urinary Bladder      |                  | Angiectasis                      | Mild              |
|                      |                  | Hyperplasia                      | Lymphoid, Mild    |
| Uterus               |                  | Hyperplasia                      | Cystic, Moderate  |
| Note: HYPERPLASIA    | TGLs = 1-7       |                                  |                   |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 327

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 509

**DOSE:** 0.0100% CHLORAMI

**DISP:** Natural Death

**HISTO:** A87043519

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Mammary Gland            | Nose                       | Parathyroid Gland       |
| Pituitary Gland           | Salivary Glands          | Skin                       | Stomach - Forestomach   |
| Stomach - Glandular       | Thymus                   | Trachea                    | Urinary Bladder         |

**OBSERVATIONS**

|               |          |                                  |                   |
|---------------|----------|----------------------------------|-------------------|
| Brain         | Thalamus | Mineralization                   | Minimal           |
| Kidney        |          | Hyperplasia                      | Lymphoid, Minimal |
| Lung          |          | Congestion                       | Mild              |
|               |          | Leukocytosis                     | Moderate          |
| Ovary         |          | Angiectasis                      | Mild              |
| Pancreas      |          | Cytoplasmic Alteration           | Marked            |
| Spleen        |          | Hematopoietic Cell Proliferation | Moderate          |
| Thyroid Gland |          | Degeneration                     | Cystic, Mild      |
| Uterus        |          | Hyperplasia                      | Cystic, Minimal   |

**PRIMARY CAUSE OF DEATH** -

Animal Note: CONSIDERED POST MORTEM CHANGE;NOT CODED

Animal Note: EXCESSIVE BACTERIA ON SURFACE OF SKIN ON SLIDE 21;

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 328

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 735

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043520

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone Marrow                | Brain                   | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Kidney                     | Lung                    | Lymph Node - Mandibular   |
| Lymph Node - Mesenteric  | Nose                       | Parathyroid Gland       | Pituitary Gland           |
| Skin                     | Spleen                     | Stomach - Forestomach   | Stomach - Glandular       |
| Thymus                   | Thyroid Gland              | Trachea                 | Urinary Bladder           |

**OBSERVATIONS**

|                   |            |                                   |                   |
|-------------------|------------|-----------------------------------|-------------------|
| Adrenal Gland     | Cortex     | Accessory Adrenal Cortical Nodule |                   |
| Bone              |            | Hyperostosis                      | Minimal           |
| Liver             |            | Hyperplasia                       | Lymphoid, Minimal |
| Mammary Gland     |            | Hyperplasia                       | Cystic, Minimal   |
| Ovary             |            | Cyst                              |                   |
| Note: CYST        | TGLs = 1-7 |                                   |                   |
| Pancreas          |            | Cyst                              |                   |
| Salivary Glands   |            | Hyperplasia                       | Lymphoid, Minimal |
| Uterus            |            | Hyperplasia                       | Cystic, Moderate  |
| Note: HYPERPLASIA | TGLs = 2-7 |                                   |                   |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 329

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 679

**DOSE:** 0.0100% CHLORAMI

**DISP:** Natural Death

**HISTO:** A87043521

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                         |                          |                         |
|---------------------------|-------------------------|--------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                    | Brain                    | Esophagus               |
| Intestine Large - Cecum   | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Nose                    | Ovary                    | Pancreas                |
| Parathyroid Gland         | Salivary Glands         | Stomach - Forestomach    | Stomach - Glandular     |
| Thyroid Gland             | Trachea                 |                          |                         |

**MISSING**

|             |                         |                 |
|-------------|-------------------------|-----------------|
| Gallbladder | Lymph Node - Mesenteric | Pituitary Gland |
|-------------|-------------------------|-----------------|

**AUTO PRECLUDES DIAG.**

Intestine Small - Duodenum

**OBSERVATIONS**

|                                  |            |                        |      |
|----------------------------------|------------|------------------------|------|
| Adrenal Gland                    | Cortex     | Leukemia Erythrocytic  |      |
| Bone Marrow                      |            | Leukemia Erythrocytic  |      |
| Heart                            |            | Leukemia Erythrocytic  |      |
| Islets, Pancreatic               |            | Hyperplasia            | Mild |
| Kidney                           |            | Leukemia Erythrocytic  |      |
| Liver                            |            | Hepatocellular Adenoma |      |
|                                  | Lobules    | Leukemia Erythrocytic  |      |
|                                  |            | Necrosis               | Mild |
| Note: LEUKEMIA ERYTH TGLs = 5-6  |            |                        |      |
| Lung                             |            | Leukemia Erythrocytic  |      |
| Note: LEUKEMIA ERYTH TGLs = 7-2  |            |                        |      |
| Lymph Node                       | Mandibular | Leukemia Erythrocytic  |      |
| Mammary Gland                    |            | Leukemia Erythrocytic  |      |
| Mesentery                        |            | Leukemia Erythrocytic  |      |
| Skin                             |            | Leukemia Erythrocytic  |      |
| Note: LEUKEMIA ERYTH TGLs = 1-21 |            |                        |      |
| Spleen                           |            | Leukemia Erythrocytic  |      |
| Note: LEUKEMIA ERYTH TGLs = 4-6  |            |                        |      |
| Thymus                           |            | Leukemia Erythrocytic  |      |
| Urinary Bladder                  |            | Leukemia Erythrocytic  |      |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 329

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 679

**DOSE:** 0.0100% CHLORAMI

**DISP:** Natural Death

**HISTO:** A87043521

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Uterus

Hydrometra

Moderate

Hyperplasia

Cystic, Mild

Leukemia Erythrocytic

Note: HYDROMETRA TGLs = 3-7

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 330

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 669

**DOSE:** 0.0100% CHLORAMI

**DISP:** Natural Death

**HISTO:** A87043522

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                          |                            |                           |
|-------------------------|--------------------------|----------------------------|---------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla  | Bone                       | Bone Marrow               |
| Esophagus               | Gallbladder              | Heart                      | Intestine Large - Cecum   |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Jejunum |
| Lymph Node - Mandibular | Lymph Node - Mesenteric  | Mammary Gland              | Nose                      |
| Parathyroid Gland       | Pituitary Gland          | Salivary Glands            | Skin                      |
| Spleen                  | Stomach - Forestomach    | Stomach - Glandular        | Thymus                    |
| Trachea                 | Urinary Bladder          |                            |                           |

**AUTO PRECLUDES DIAG.**

Intestine Small - Ileum

**OBSERVATIONS**

|                                  |                |                        |                   |
|----------------------------------|----------------|------------------------|-------------------|
| Brain                            | Thalamus       | Mineralization         | Minimal           |
| Islets, Pancreatic               |                | Adenoma                |                   |
| Kidney                           | Renal Tubule   | Regeneration           | Minimal           |
| Liver                            |                | Clear Cell Focus       |                   |
|                                  |                | Hepatocellular Adenoma |                   |
|                                  |                | Inflammation           | Subacute, Minimal |
| Note: HEPATOCLR ADEN TGLs = 3-21 |                |                        |                   |
| Lung                             |                | Congestion             | Moderate          |
| Ovary                            |                | Cyst                   |                   |
| Note: CYST TGLs = 1-7            |                |                        |                   |
| Pancreas                         |                | Cytoplasmic Alteration | Marked            |
| Thyroid Gland                    | Follicular Cel | Hyperplasia            | Focal, Moderate   |
| Uterus                           |                | Hyperplasia            | Cystic, Moderate  |
| Note: HYPERPLASIA TGLs = 2-7     |                |                        |                   |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 331

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 735

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043523

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Mammary Gland             | Nose                     | Pituitary Gland            | Skin                    |
| Stomach - Forestomach     | Stomach - Glandular      | Thymus                     | Trachea                 |

**OBSERVATIONS**

|                      |                   |                                  |                    |
|----------------------|-------------------|----------------------------------|--------------------|
| Brain                | Thalamus          | Mineralization                   | Minimal            |
| Kidney               |                   | Hyperplasia                      | Lymphoid, Mild     |
|                      |                   | Metaplasia                       | Osseous, Minimal   |
|                      | Renal Tubule      | Regeneration                     | Minimal            |
| Liver                |                   | Hepatocellular Adenoma           |                    |
|                      |                   | Hepatocellular Carcinoma         |                    |
| Note: HEPATOCLR CARC | TGLs = 1-21       |                                  |                    |
| Note: HEPATOCLR ADEN | TGLs = 4-23       |                                  |                    |
| Lung                 |                   | Hyperplasia                      | Lymphoid, Mild     |
| Ovary                |                   | Cyst                             |                    |
|                      | Interstitial Cell | Hyperplasia                      | Moderate           |
| Note: CYST           | TGLs = 2-7        |                                  |                    |
| Pancreas             |                   | Hyperplasia                      | Lymphoid, Mild     |
| Parathyroid Gland    |                   | Cyst                             |                    |
| Salivary Glands      |                   | Hyperplasia                      | Lymphoid, Moderate |
| Spleen               |                   | Hematopoietic Cell Proliferation | Minimal            |
| Thyroid Gland        |                   | Ectopic Thymus                   |                    |
| Urinary Bladder      |                   | Hyperplasia                      | Lymphoid, Mild     |
| Uterus               |                   | Hyperplasia                      | Cystic, Mild       |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 332      **TRT#:** 11      **SEX:** Female      **DAY ON TEST:** 735  
**DOSE:** 0.0100% CHLORAMI      **DISP:** Terminal Sacrifice      **HISTO:** A87043524

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   |
| Mammary Gland            | Nose                       | Pancreas                | Parathyroid Gland         |
| Skin                     | Stomach - Forestomach      | Stomach - Glandular     | Trachea                   |

**OBSERVATIONS**

|                                  |                |                        |                    |
|----------------------------------|----------------|------------------------|--------------------|
| Adrenal Gland                    | Cortex         | Hyperplasia            | Focal, Moderate    |
| Brain                            | Thalamus       | Mineralization         | Moderate           |
| Kidney                           |                | Hyperplasia            | Lymphoid, Minimal  |
| Liver                            |                | Hepatocellular Adenoma |                    |
| Note: HEPATOCLR ADEN TGLs = 5-21 |                |                        |                    |
| Ovary                            |                | Cyst                   |                    |
| Note: CYST TGLs = 1-7            |                |                        |                    |
| Pituitary Gland                  | Pars Distalis  | Adenoma                |                    |
| Note: ADENOMA TGLs = 4-1         |                |                        |                    |
| Salivary Glands                  |                | Hyperplasia            | Lymphoid, Minimal  |
| Spleen                           | Lymph Follic   | Hyperplasia            | Mild               |
| Note: HYPERPLASIA TGLs = 3-6     |                |                        |                    |
| Thymus                           |                | Hyperplasia            | Lymphoid, Moderate |
| Thyroid Gland                    |                | Degeneration           | Cystic, Minimal    |
|                                  | Follicular Cel | Hyperplasia            | Marked             |
| Urinary Bladder                  |                | Hyperplasia            | Lymphoid, Minimal  |
| Uterus                           |                | Hyperplasia            | Cystic, Mild       |
| Note: HYPERPLASIA TGLs = 2-7     |                |                        |                    |

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 333

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 735

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043525

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      | Lung                    |
| Lymph Node - Mandibular   | Lymph Node - Mesenteric  | Mammary Gland              | Nose                    |
| Ovary                     | Parathyroid Gland        | Skin                       | Spleen                  |
| Stomach - Forestomach     | Stomach - Glandular      | Thymus                     | Thyroid Gland           |
| Trachea                   | Urinary Bladder          |                            |                         |

**MISSING**

Pituitary Gland

**OBSERVATIONS**

|   |              |                       |                   |
|---|--------------|-----------------------|-------------------|
| Brain   | Thalamus     | Mineralization        | Mild              |
| Kidney  |              | Hemorrhage            | Mild              |
|   |              | Mineralization        | Minimal           |
|   | Renal Tubule | Regeneration          | Minimal           |
| Note: HEMORRHAGE IS IN PELVIS;THE BLOOD HAS UNDERGONE<br>Note: DEGENERATION |              |                       |                   |
| Pancreas  |              | Focal Cellular Change |                   |
| Salivary Glands   |              | Hyperplasia           | Lymphoid, Minimal |
| Uterus  |              | Angiectasis           | Mild              |
|   |              | Hyperplasia           | Cystic, Moderate  |

Note: HYPERPLASIA TGLs = 1-7

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 334

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 385

**DOSE:** 0.0100% CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A86037723

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Brain                     |
| Esophagus                | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric | Mammary Gland             |
| Nose                     | Ovary                      | Parathyroid Gland       | Pituitary Gland           |
| Skin                     | Stomach - Forestomach      | Stomach - Glandular     | Thymus                    |
| Trachea                  | Urinary Bladder            | Uterus                  |                           |

**OBSERVATIONS**

|  |              |                                   |                     |
|--|--------------|-----------------------------------|---------------------|
| Adrenal Gland                                    | Cortex       | Accessory Adrenal Cortical Nodule |                     |
| Note: PART OF THE NODULE IS PRESENT ON SLIDE #5. |              |                                   |                     |
| Gallbladder                                      |              | Dilatation                        | Moderate            |
| Kidney   |              | Hyperplasia                       | Lymphoid, Mild      |
|  |              | Mineralization                    | Mild                |
| Liver  |              | Hepatocellular Carcinoma          |                     |
|  |              | Inflammation                      | Chronic, Minimal    |
| Note: HEPATOCLR CARC TGLs = 1-21                 |              |                                   |                     |
| Lung   |              | Congestion                        | Mild                |
|  |              | Hepatocellular Carcinoma          | Metastatic (Liver)  |
|  |              | Infiltration Cellular             | Histiocyte, Minimal |
| Pancreas   |              | Hyperplasia                       | Lymphoid, Mild      |
| Salivary Glands                                  |              | Hyperplasia                       | Lymphoid, Mild      |
| Spleen   | Lymph Follic | Hyperplasia                       | Moderate            |
| Thyroid Gland                                    |              | Degeneration                      | Cystic, Minimal     |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 335

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 509

**DOSE:** 0.0100% CHLORAMI

**DISP:** Natural Death

**HISTO:** A87043526

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Kidney                   | Lymph Node - Mandibular    |
| Lymph Node - Mesenteric | Mammary Gland             | Nose                     | Parathyroid Gland          |
| Pituitary Gland         | Salivary Glands           | Skin                     | Spleen                     |
| Stomach - Forestomach   | Trachea                   | Urinary Bladder          |                            |

**OBSERVATIONS**

|                    |            |                        |                   |
|--------------------|------------|------------------------|-------------------|
| Islets, Pancreatic |            | Hyperplasia            | Mild              |
| Liver              | Lobules    | Necrosis               | Mild              |
| Lung               |            | Congestion             | Mild              |
| Ovary              |            | Cyst                   |                   |
| Note: CYST         | TGLs = 1-7 |                        |                   |
| Pancreas           |            | Cytoplasmic Alteration | Marked            |
| Stomach            | Glandular  | Erosion                | Moderate          |
| Note: EROSION      | TGLs = 5-4 |                        |                   |
| Thymus             |            | Depletion Cellular     | Marked            |
| Thyroid Gland      |            | Degeneration           | Cystic, Minimal   |
| Uterus             |            | Hydrometra             | Moderate          |
|                    |            | Hyperplasia            | Cystic, Mild      |
|                    |            | Inflammation           | Suppurative, Mild |
| Note: HYDROMETRA   | TGLs = 2-7 |                        |                   |
| Note: INFLAMMATION | TGLs = 3-7 |                        |                   |

**PRIMARY CAUSE OF DEATH** -

Animal Note: SKIN ON SLIDE 21 HAS POST MORTEM DESSICATION

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 336

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043527

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Liver                    | Lymph Node - Mesenteric    |
| Mammary Gland           | Nose                      | Parathyroid Gland        | Pituitary Gland            |
| Skin                    | Stomach - Forestomach     | Stomach - Glandular      | Thymus                     |
| Trachea                 |                           |                          |                            |

**MISSING**

Ovary

**INSUFFICIENT TISSUE**

Lymph Node - Mandibular

**OBSERVATIONS**

|                                 |              |                                  |                   |
|---------------------------------|--------------|----------------------------------|-------------------|
| Islets, Pancreatic              |              | Hyperplasia                      | Minimal           |
| Kidney                          |              | Mineralization                   | Minimal           |
|                                 | Renal Tubule | Regeneration                     | Minimal           |
| Lung                            |              | Alveolar/Bronchiolar Carcinoma   |                   |
|                                 |              | Infiltration Cellular            | Histiocyte, Mild  |
| Note: ALV BRON CARC TGLs = 5-2  |              |                                  |                   |
| Pancreas                        |              | Hyperplasia                      | Lymphoid, Minimal |
| Salivary Glands                 |              | Hyperplasia                      | Lymphoid, Minimal |
| Spleen                          |              | Hematopoietic Cell Proliferation | Minimal           |
|                                 | Red Pulp     | Hyperplasia                      | Moderate          |
| Note: HYPERPLASIA TGLs = 4-6    |              |                                  |                   |
| Note: HEMA CELL PROL TGLs = 4-6 |              |                                  |                   |
| Thyroid Gland                   |              | Degeneration                     | Cystic, Mild      |
| Urinary Bladder                 |              | Hyperplasia                      | Lymphoid, Minimal |
| Uterus                          |              | Granuloma                        | Mild              |
|                                 |              | Hyperplasia                      | Cystic, Moderate  |
| Note: HYPERPLASIA TGLs = 3-7    |              |                                  |                   |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 336

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043527

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 337 | <b>TRT#:</b> 11               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 733 |
|                       | <b>DOSE:</b> 0.0100% CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87043528 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Kidney                     | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Mammary Gland            | Nose                       | Pancreas                |
| Parathyroid Gland         | Pituitary Gland          | Skin                       | Stomach - Forestomach   |
| Stomach - Glandular       | Thymus                   | Trachea                    | Urinary Bladder         |

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**OBSERVATIONS**

|                                   |          |                                  |                   |
|-----------------------------------|----------|----------------------------------|-------------------|
| Brain                             | Thalamus | Mineralization                   | Minimal           |
| Liver                             |          | Hepatocellular Carcinoma         |                   |
| Note: HEPATOCLR CARC TGLs = 3-21  |          |                                  |                   |
| Lung                              |          | Hyperplasia                      | Lymphoid, Minimal |
| Ovary                             |          | Cyst                             |                   |
| Note: CYST TGLs = 1-7-1           |          |                                  |                   |
| Salivary Glands                   |          | Hyperplasia                      | Lymphoid, Minimal |
| Spleen                            |          | Hematopoietic Cell Proliferation | Mild              |
| Thyroid Gland                     |          | Inflammation                     | Subacute, Minimal |
| Uterus                            |          | Hydrometra                       | Marked            |
|                                   |          | Hyperplasia                      | Cystic, Mild      |
| Note: HYDROMETRA TGLs = 2-7,4-7-2 |          |                                  |                   |

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 338

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 628

**DOSE:** 0.0100% CHLORAMI

**DISP:** Natural Death

**HISTO:** A87043529

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Mammary Gland  
Pituitary Gland  
Stomach - Forestomach  
Trachea

Adrenal Gland - Medulla  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Nose  
Salivary Glands  
Stomach - Glandular  
Urinary Bladder

Bone  
Heart  
Intestine Small - Duodenum  
Lymph Node - Mandibular  
Ovary  
Skin  
Thymus

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mesenteric  
Parathyroid Gland  
Spleen  
Thyroid Gland

**OBSERVATIONS**

Brain  
Kidney  
Liver  
Lung  
Pancreas  
Uterus

Thalamus  
Renal Tubule

Mineralization  
Dilatation  
Hepatocellular Adenoma  
Congestion  
Cytoplasmic Alteration  
Hydrometra  
Hyperplasia

Minimal  
Mild  
Moderate  
Marked  
Moderate  
Cystic, Mild

Note: HYDROMETRA TGLs = 2-7,3-7

Note: HYPERPLASIA TGLs = 1-7

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 339 | <b>TRT#:</b> 11               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 733 |
|                       | <b>DOSE:</b> 0.0100% CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87043530 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex   | Adrenal Gland - Medulla    | Bone                    | Bone Marrow               |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Kidney                     | Liver                   | Lung                      |
| Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Mammary Gland           | Nose                      |
| Pancreas                 | Parathyroid Gland          | Skin                    | Spleen                    |
| Stomach - Forestomach    | Thymus                     | Trachea                 |                           |

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**MISSING**

Esophagus

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**OBSERVATIONS**

|                 |               |                |                   |
|-----------------|---------------|----------------|-------------------|
| Brain           | Thalamus      | Mineralization | Mild              |
| Ovary           |               | Angiectasis    | Mild              |
| Pituitary Gland | Pars Distalis | Hyperplasia    | Minimal           |
| Salivary Glands |               | Hyperplasia    | Lymphoid, Minimal |
| Stomach         | Glandular     | Cyst           |                   |
| Thyroid Gland   |               | Degeneration   | Cystic, Mild      |
| Urinary Bladder |               | Hyperplasia    | Lymphoid, Mild    |
| Uterus          |               | Hyperplasia    | Cystic, Moderate  |

Note: HYPERPLASIA TGLs = 2-7

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 340

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043531

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lymph Node - Mesenteric    | Mammary Gland           | Nose                      |
| Ovary                    | Pancreas                   | Parathyroid Gland       | Pituitary Gland           |
| Salivary Glands          | Skin                       | Spleen                  | Stomach - Forestomach     |
| Stomach - Glandular      | Thyroid Gland              | Trachea                 | Urinary Bladder           |

**MISSING**

Thymus

**INSUFFICIENT TISSUE**

Lymph Node - Mandibular

**OBSERVATIONS**

|                                       |              |                        |                 |
|---------------------------------------|--------------|------------------------|-----------------|
| Adrenal Gland                         | Cortex       | Basophilic Focus       |                 |
| Brain                                 | Thalamus     | Mineralization         | Minimal         |
| Kidney                                |              | Cyst                   |                 |
|                                       | Renal Tubule | Regeneration           | Minimal         |
| Liver                                 |              | Basophilic Focus       |                 |
|                                       |              | Hepatocellular Adenoma |                 |
| Note: HEPATOCLR ADEN                  | TGLs = 1-21  |                        |                 |
| Note: BASOPHILIC FOCUS IS ON SLIDE 21 |              |                        |                 |
| Lung                                  |              | Hyperplasia            | Lymphoid, Mild  |
| Uterus                                |              | Hyperplasia            | Cystic, Minimal |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 345

**TRT#:** 12  
**DOSE:** 0.0100% 3 SSAC

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:** 97  
**HISTO:** 33865

---

**OBSERVATIONS**

Uterus  
[ Cyst TGLS = 7 ]

Endometrium

Cyst

Minimal

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 346

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 456

**DOSE:** 0.0100% CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** 37724

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**OBSERVATIONS**

Kidney  
[ Regeneration TGLS = 5 ]

Renal Tubule

Regeneration

Minimal

Uterus  
Note: [ HYPERPLASIA ] TGLs = 7

Hyperplasia

Cystic, Mild

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PRIMARY CAUSE OF DEATH

-

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**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 347

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 455

**DOSE:** 0.0100% CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** 37725

---

**OBSERVATIONS**

Kidney

Renal Tubule

Regeneration

Minimal

Uterus

Hyperplasia

Cystic, Moderate

Note: [ HYPERPLASIA ] TGLs = 7.1

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 348

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** 0.0100% CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** 37726

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**OBSERVATIONS**

Uterus

Hydrometra

Mild

[ Hydrometra TGLS = 7 ]

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 349

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 456

**DOSE:** 0.0100% CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** 37727

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**OBSERVATIONS**

Kidney

Renal Tubule

Regeneration

Minimal

Uterus

Hyperplasia

Cystic, Mild

Note: [ HYPERPLASIA ] TGLs = 7

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 350

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 455

**DOSE:** 0.0100% CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** 37728

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**OBSERVATIONS**

Kidney

Renal Tubule

Casts Protein

Minimal

Renal Tubule

Regeneration

Minimal

[ Regeneration TGLS = 5.1 ]

Uterus

Hydrometra

Mild

Hyperplasia

Cystic, Moderate

Note: [ HYDROMETRA ] TGLs = 7

[ Hydrometra TGLS = 7 ]

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 351

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 672

**DOSE:** 0.00500%CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87043557

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      |
| Lung                    | Lymph Node - Mandibular   | Lymph Node - Mesenteric  | Mammary Gland              |
| Nose                    | Parathyroid Gland         | Pituitary Gland          | Salivary Glands            |
| Skin                    | Stomach - Glandular       | Thyroid Gland            | Trachea                    |
| Urinary Bladder         |                           |                          |                            |

**INSUFFICIENT TISSUE**

Thymus

**OBSERVATIONS**

|                   |                     |                        |                   |
|-------------------|---------------------|------------------------|-------------------|
| Kidney            |                     | Hyperplasia            | Lymphoid, Minimal |
| Ovary             |                     | Angiectasis            | Mild              |
| Pancreas          |                     | Cytoplasmic Alteration | Moderate          |
| Spleen            | Red Pulp            | Atrophy                | Mild              |
|                   |                     | Pigmentation           | Hemosiderin, Mild |
| Note: ATROPHY     | TGLs = 4-6          |                        |                   |
| Stomach           | Forestomach         | Edema                  | Mild              |
|                   | Forestomach, Mucosa | Hyperplasia            | Mild              |
| Uterus            |                     | Hyperplasia            | Cystic, Moderate  |
| Note: HYPERPLASIA | TGLs = 1-7,2-7      |                        |                   |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 352

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043558

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular | Mammary Gland             |
| Nose                     | Ovary                      | Parathyroid Gland       | Salivary Glands           |
| Skin                     | Stomach - Forestomach      | Stomach - Glandular     | Thyroid Gland             |
| Trachea                  | Urinary Bladder            |                         |                           |

**OBSERVATIONS**

|   |                |                        |                   |
|---|----------------|------------------------|-------------------|
| Adrenal Gland                               | Cortex, X-Zone | Degeneration           | Fatty, Minimal    |
| Brain                                       | Thalamus       | Mineralization         | Mild              |
| Kidney                                      | Renal Tubule   | Atrophy                | Minimal           |
|   |                | Hyperplasia            | Lymphoid, Minimal |
|   | Mineralization | Minimal                |                   |
|   | Renal Tubule   | Regeneration           | Minimal           |
| Liver                                       |                | Hepatocellular Adenoma | Four, Multiple    |
|   |                |                        |                   |
| Note: TWO ADENOMAS ON SLIDE 23              |                |                        |                   |
| Note: [ HEPATOCLR ADEN ] TGLs = 21,22,23,24 |                |                        |                   |
| Lymph Node                                  | Mesenteric     | Hyperplasia            | Lymphoid, Marked  |
| Pancreas                                    |                | Hyperplasia            | Lymphoid, Minimal |
| Pituitary Gland                             | Pars Distalis  | Hyperplasia            | Mild              |
| Spleen                                      |                | Pigmentation           | Hemosiderin, Mild |
| Thymus                                      |                | Depletion Cellular     | Mild              |
| Uterus                                      |                | Hydrometra             | Moderate          |
|   |                | Hyperplasia            | Cystic, Moderate  |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 353

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 579

**DOSE:** 0.00500%CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87043559

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Mammary Gland            | Nose                       | Ovary                   |
| Pancreas                  | Parathyroid Gland        | Pituitary Gland            | Stomach - Forestomach   |
| Stomach - Glandular       | Thyroid Gland            | Trachea                    |                         |

**OBSERVATIONS**

|                                  |              |                                  |                    |
|----------------------------------|--------------|----------------------------------|--------------------|
| Brain                            | Thalamus     | Mineralization                   | Mild               |
| Kidney                           |              | Hyperplasia                      | Lymphoid, Mild     |
|                                  | Renal Tubule | Regeneration                     | Minimal            |
| Lung                             |              | Schwannoma Malignant             | Metastatic (Skin)  |
| Salivary Glands                  |              | Hyperplasia                      | Lymphoid, Mild     |
| Skin                             | Subcut Tiss  | Schwannoma Malignant             |                    |
| Note: SCHWANNOMA MAL TGLs = 1-21 |              |                                  |                    |
| Spleen                           |              | Hematopoietic Cell Proliferation | Moderate           |
| Note: HEMA CELL PROL TGLs = 3-6  |              |                                  |                    |
| Thymus                           |              | Cyst                             |                    |
| Urinary Bladder                  |              | Hyperplasia                      | Lymphoid, Moderate |
| Uterus                           |              | Hyperplasia                      | Cystic, Mild       |
| Note: HYPERPLASIA TGLs = 2-7     |              |                                  |                    |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 354

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043560

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Medulla  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Mammary Gland  
Parathyroid Gland  
Spleen  
Trachea

Bone  
Heart  
Intestine Small - Duodenum  
Liver  
Nose  
Pituitary Gland  
Stomach - Forestomach

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mandibular  
Ovary  
Salivary Glands  
Stomach - Glandular

Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mesenteric  
Pancreas  
Skin  
Thymus

**OBSERVATIONS**

Adrenal Gland  
Brain  
Kidney  
Lung  
Thyroid Gland  
Urinary Bladder  
Uterus

Cortex  
Thalamus  
Renal Tubule

Accessory Adrenal Cortical Nodule  
Mineralization  
Regeneration  
Hyperplasia  
Degeneration  
Hyperplasia  
Hydrometra  
Hyperplasia  
Hyperplasia

Mild  
Minimal  
Lymphoid, Minimal  
Cystic, Mild  
Lymphoid, Minimal  
Moderate  
Cystic, Mild  
Lymphoid, Mild

Note: HYDROMETRA TGLs = 2-7

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 355

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043561

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Brain                   |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Mammary Gland            | Nose                       | Ovary                   |
| Pancreas                  | Parathyroid Gland        | Pituitary Gland            | Skin                    |
| Stomach - Forestomach     | Stomach - Glandular      | Trachea                    |                         |

**MISSING**

Thymus

**OBSERVATIONS**

|  |              |                                  |                   |
|--|--------------|----------------------------------|-------------------|
| Bone Marrow                                  |              | Hypercellularity                 | Mild              |
| Kidney                                       |              | Casts Protein                    | Mild              |
|  | Renal Tubule | Dilatation                       | Minimal           |
|  |              | Hyperplasia                      | Lymphoid, Minimal |
|  | Renal Tubule | Regeneration                     | Mild              |
| Liver  |              | Hepatocellular Carcinoma         |                   |
|  | Hepatocyte   | Vacuolization Cytoplasmic        | Mild              |
| Note: HEPATOCLR CARC TGLs = 3-6,3-21         |              |                                  |                   |
| Salivary Glands                              |              | Hyperplasia                      | Lymphoid, Mild    |
| Spleen                                       |              | Hematopoietic Cell Proliferation | Moderate          |
| Note: HEMA CELL PROL TGLs = 2-6              |              |                                  |                   |
| Thyroid Gland                                |              | Degeneration                     | Cystic, Minimal   |
| Urinary Bladder                              |              | Hyperplasia                      | Lymphoid, Minimal |
| Uterus                                       |              | Carcinoma                        |                   |
|  |              | Hyperplasia                      | Cystic, Moderate  |
| Note: HYPERPLASIA TGLs = 1-7                 |              |                                  |                   |
| Note: CARCINOMA APPEARS TO BE IN EARLY STAGE |              |                                  |                   |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 356

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043562

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mesenteric  
Pancreas  
Skin  
Trachea

Adrenal Gland - Medulla  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Mammary Gland  
Parathyroid Gland  
Spleen  
Urinary Bladder

Bone Marrow  
Heart  
Intestine Small - Duodenum  
Lung  
Nose  
Pituitary Gland  
Stomach - Forestomach

Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mandibular  
Ovary  
Salivary Glands  
Thymus

**OBSERVATIONS**

Bone  
Kidney  
Liver

Renal Tubule

Hyperostosis  
Regeneration  
Clear Cell Focus  
Hyperplasia

Moderate  
Minimal  
Focal, Mild

Note: CLEAR CL FOCUS TGLs = 2-21

Stomach  
Thyroid Gland  
Uterus

Glandular

Cyst  
Degeneration  
Angiectasis  
Hyperplasia

Cystic, Minimal  
Marked  
Cystic, Mild

Note: HYPERPLASIA TGLs = 1-7

**PRIMARY CAUSE OF DEATH**

-

Animal Note: GALLBLADDER IS ON SLIDE 21

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 357

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043563

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    |
| Lymph Node - Mesenteric | Mammary Gland             | Nose                     | Parathyroid Gland          |
| Pituitary Gland         | Salivary Glands           | Skin                     | Stomach - Forestomach      |
| Stomach - Glandular     | Trachea                   |                          |                            |

**OBSERVATIONS**

|                     |                |                              |                    |
|---------------------|----------------|------------------------------|--------------------|
| Kidney              | Renal Tubule   | Atrophy                      | Minimal            |
|                     |                | Casts Protein                | Minimal            |
|                     |                | Hyperplasia                  | Lymphoid, Moderate |
|                     |                | Mineralization               | Minimal            |
|                     |                | Hyperplasia                  | Focal, Moderate    |
| Liver               |                |                              |                    |
| Note: HYPERPLASIA   | TGLs = 2-21    |                              |                    |
| Lung                |                | Alveolar/Bronchiolar Adenoma |                    |
| Note: ALV BRON ADEN | TGLs = 3-2-1   |                              |                    |
| Ovary               |                | Cystadenoma                  |                    |
| Pancreas            |                | Hyperplasia                  | Lymphoid, Minimal  |
| Spleen              | Lymph Follic   | Hyperplasia                  | Mild               |
| Note: HYPERPLASIA   | TGLs = 1-6     |                              |                    |
| Thymus              |                | Cyst                         |                    |
| Thyroid Gland       | Follicular Cel | Hyperplasia                  | Minimal            |
| Urinary Bladder     |                | Hyperplasia                  | Lymphoid, Minimal  |
| Uterus              |                | Hyperplasia                  | Cystic, Mild       |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 358

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043564

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Mammary Gland           |
| Nose                      | Pancreas                 | Parathyroid Gland          | Skin                    |
| Spleen                    | Stomach - Forestomach    | Stomach - Glandular        | Trachea                 |

**INSUFFICIENT TISSUE**

Ovary

**OBSERVATIONS**

|                    |                |                           |                     |
|--------------------|----------------|---------------------------|---------------------|
| Brain              | Thalamus       | Mineralization            | Mild                |
| Islets, Pancreatic |                | Hyperplasia               | Mild                |
| Kidney             |                | Mineralization            | Minimal             |
|                    | Renal Tubule   | Regeneration              | Minimal             |
| Liver              |                | Hyperplasia               | Lymphoid, Minimal   |
| Lung               | Alveolar Epith | Hyperplasia               | Mild                |
|                    |                | Hyperplasia               | Lymphoid, Minimal   |
|                    |                | Infiltration Cellular     | Histiocyte, Minimal |
| Pituitary Gland    | Pars Distalis  | Adenoma                   |                     |
| Salivary Glands    |                | Hyperplasia               | Lymphoid, Minimal   |
| Thymus             |                | Ectopic Parathyroid Gland |                     |
| Thyroid Gland      |                | Degeneration              | Cystic, Minimal     |
| Urinary Bladder    |                | Hyperplasia               | Lymphoid, Minimal   |
| Uterus             |                | Hyperplasia               | Cystic, Minimal     |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 359

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 628

**DOSE:** 0.00500%CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87043565

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Brain                   |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      | Lung                    |
| Lymph Node - Mandibular   | Lymph Node - Mesenteric  | Mammary Gland              | Nose                    |
| Pancreas                  | Parathyroid Gland        | Salivary Glands            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Stomach - Glandular        | Thyroid Gland           |
| Trachea                   | Urinary Bladder          |                            |                         |

**OBSERVATIONS**

|                    |                |                                   |                   |
|--------------------|----------------|-----------------------------------|-------------------|
| Adrenal Gland      | Cortex         | Accessory Adrenal Cortical Nodule |                   |
| Kidney             | Renal Tubule   | Regeneration                      | Minimal           |
| Mesentery          | Fat            | Necrosis                          | Minimal           |
| Note: NECROSIS     | TGLs = 7-22    |                                   |                   |
| Ovary              |                | Cyst                              |                   |
| Note: CYST         | TGLs = 1-7     |                                   |                   |
| Pituitary Gland    | Pars Distalis  | Hyperplasia                       | Mild              |
| Thymus             |                | Cyst                              |                   |
| Uterus             |                | Hydrometra                        | Moderate          |
|                    |                | Hyperplasia                       | Cystic, Mild      |
|                    |                | Inflammation                      | Suppurative, Mild |
| Note: HYPERPLASIA  | TGLs = 2-7     |                                   |                   |
| Note: INFLAMMATION | TGLs = 3-7     |                                   |                   |
| Note: HYDROMETRA   | TGLs = 3-7,4-7 |                                   |                   |

**PRIMARY CAUSE OF DEATH** -

Animal Note: TGL NUMBER 6 IS NORMAL MEDIASTINAL FAT

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 360

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043566

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                         |                           |                         |
|--------------------------|-------------------------|---------------------------|-------------------------|
| Adrenal Gland - Cortex   | Bone                    | Bone Marrow               | Esophagus               |
| Gallbladder              | Heart                   | Intestine Large - Cecum   | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic      |
| Liver                    | Lung                    | Mammary Gland             | Nose                    |
| Parathyroid Gland        | Salivary Glands         | Skin                      | Stomach - Forestomach   |
| Stomach - Glandular      | Thymus                  | Trachea                   | Urinary Bladder         |

**INSUFFICIENT TISSUE**

Intestine Small - Duodenum

**OBSERVATIONS**

|  |               |                                  |                 |
|--|---------------|----------------------------------|-----------------|
| Adrenal Gland  | Medulla       | Hyperplasia                      | Minimal         |
| Brain  | Thalamus      | Mineralization                   | Mild            |
| Kidney   |               | Casts Protein                    | Minimal         |
|  |               | Lymphoma Malignant Mixed         |                 |
|  | Renal Tubule  | Regeneration                     | Minimal         |
| Lymph Node   | Mandibular    | Lymphoma Malignant Mixed         |                 |
|  | Mesenteric    | Lymphoma Malignant Mixed         |                 |
|  | Renal         | Lymphoma Malignant Mixed         |                 |
| Note: LYMPH MAL MIXD TGLs = 3-5,3-21<br>Note: LYMPH MAL MIXD TGLs = 4-22 |               |                                  |                 |
| Mesentery  |               | Lymphoma Malignant Mixed         |                 |
| Ovary  |               | Angiectasis                      | Mild            |
| Note: SLIGHT INCREASE IN NORMAL AMOUNT OF PIGMENT;NOT CODED              |               |                                  |                 |
| Pancreas   |               | Lymphoma Malignant Mixed         |                 |
| Pituitary Gland  | Pars Distalis | Angiectasis                      | Mild            |
|  | Pars Distalis | Hyperplasia                      | Mild            |
| Spleen   |               | Hematopoietic Cell Proliferation | Mild            |
|  |               | Lymphoma Malignant Mixed         |                 |
| Note: HEMA CELL PROL TGLs = 2-6<br>Note: LYMPH MAL MIXD TGLs = 2-6       |               |                                  |                 |
| Thyroid Gland  |               | Degeneration                     | Cystic, Minimal |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 360

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043566

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Uterus

Hyperplasia

Cystic, Mild

Note: HYPERPLASIA TGLs = 1-7

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PRIMARY CAUSE OF DEATH

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Animal Note: ISLETS PANCREAS AND PANCREAS PRESENT ON SLIDES 6 AND 21

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 361 | <b>TRT#:</b> 15               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 590 |
|                       | <b>DOSE:</b> 0.00500%CHLORAMI | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87043567 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Mammary Gland           |
| Nose                      | Ovary                    | Pancreas                   | Parathyroid Gland       |
| Pituitary Gland           | Salivary Glands          | Skin                       | Stomach - Forestomach   |
| Stomach - Glandular       | Thymus                   | Thyroid Gland              | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

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**OBSERVATIONS**

|                                      |              |                                  |                    |
|--------------------------------------|--------------|----------------------------------|--------------------|
| Brain                                | Thalamus     | Mineralization                   | Mild               |
| Kidney                               |              | Casts Protein                    | Minimal            |
|                                      | Renal Tubule | Regeneration                     | Minimal            |
| Liver                                |              | Hepatocellular Carcinoma         |                    |
| Note: HEPATOCLR CARC TGLs = 3-6,3-21 |              |                                  |                    |
| Lung                                 |              | Hepatocellular Carcinoma         | Metastatic (Liver) |
| Lymph Node                           | Mesenteric   | Hemorrhage                       | Minimal            |
| Spleen                               |              | Hematopoietic Cell Proliferation | Marked             |
| Note: HEMA CELL PROL TGLs = 2-6      |              |                                  |                    |
| Uterus                               |              | Hyperplasia                      | Cystic, Mild       |

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

Experiment Number: 05089-02  
Test Type: CHRONIC  
Route: DOSED WATER  
Species/Strain: Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
Test Compound: Chloraminated water  
CAS Number: CHLORAMINEMX

Date Report Requested: 10/20/2014  
Time Report Requested: 00:10:13  
First Dose M/F: NA / NA  
Lab: SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 362 | <b>TRT#:</b> 15               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 733 |
|                       | <b>DOSE:</b> 0.00500%CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87043568 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone Marrow                | Brain                   |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Mammary Gland             | Ovary                    | Parathyroid Gland          | Pituitary Gland         |
| Salivary Glands           | Skin                     | Spleen                     | Stomach - Forestomach   |
| Stomach - Glandular       | Thymus                   | Trachea                    |                         |

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**OBSERVATIONS**

|                                  |              |                           |                   |
|----------------------------------|--------------|---------------------------|-------------------|
| Bone                             |              | Hyperostosis              | Minimal           |
| Kidney                           | Renal Tubule | Regeneration              | Minimal           |
| Liver                            | Hepatocyte   | Hepatocellular Adenoma    |                   |
|                                  |              | Vacuolization Cytoplasmic | Mild              |
| Note: HEPATOCLR ADEN TGLs = 1-21 |              |                           |                   |
| Lung                             |              | Thrombosis                |                   |
| Nose                             | Glands       | Hyperplasia               | Cystic, Minimal   |
| Pancreas                         |              | Hyperplasia               | Lymphoid, Minimal |
| Thyroid Gland                    |              | Degeneration              | Cystic, Minimal   |
| Urinary Bladder                  |              | Hyperplasia               | Lymphoid, Minimal |
| Uterus                           |              | Hyperplasia               | Cystic, Mild      |

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 363

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 677

**DOSE:** 0.00500%CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87043569

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Nose  
Spleen  
Trachea

Adrenal Gland - Medulla  
Gallbladder  
Intestine Large - Rectum  
Kidney  
Parathyroid Gland  
Stomach - Forestomach

Bone Marrow  
Heart  
Intestine Small - Duodenum  
Lymph Node - Mesenteric  
Pituitary Gland  
Stomach - Glandular

Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Mammary Gland  
Skin  
Thymus

**OBSERVATIONS**

Bone  
Islets, Pancreatic  
Liver  
Lung  
Lymph Node  
Ovary  
Pancreas  
Salivary Glands  
Thyroid Gland  
  
Urinary Bladder  
Uterus

Mandibular

Hyperostosis  
Hyperplasia  
Hyperplasia  
Hyperplasia  
Hyperplasia  
Cyst  
Hyperplasia  
Hyperplasia  
Degeneration  
Hyperplasia  
Hyperplasia  
Hydrometra  
Hyperplasia

Mild  
Moderate  
Lymphoid, Minimal  
Lymphoid, Minimal  
Lymphoid, Moderate  
  
Lymphoid, Mild  
Lymphoid, Minimal  
Cystic, Mild  
Lymphoid, Minimal  
Lymphoid, Minimal  
Moderate  
Cystic, Mild

Note: HYDROMETRA TGLs = 1-7

Note: HYPERPLASIA TGLs = 2-7

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 364

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 632

**DOSE:** 0.00500%CHLORAMI

**DISP:** Accidentally Killed

**HISTO:** A87043570

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Mammary Gland           |
| Nose                      | Parathyroid Gland        | Pituitary Gland            | Skin                    |
| Stomach - Forestomach     | Stomach - Glandular      | Trachea                    |                         |

**OBSERVATIONS**

|                                  |              |                                  |                   |
|----------------------------------|--------------|----------------------------------|-------------------|
| Brain                            | Thalamus     | Mineralization                   | Minimal           |
| Islets, Pancreatic               |              | Hyperplasia                      | Minimal           |
| Kidney                           |              | Casts Protein                    | Minimal           |
|                                  |              | Hyperplasia                      | Lymphoid, Minimal |
|                                  | Renal Tubule | Regeneration                     | Minimal           |
| Liver                            |              | Hepatocellular Carcinoma         |                   |
|                                  |              | Inflammation                     | Subacute, Minimal |
| Note: HEPATOCLR CARC TGLs = 5-22 |              |                                  |                   |
| Lung                             |              | Hyperplasia                      | Lymphoid, Minimal |
| Mesentery                        | Fat          | Necrosis                         | Mild              |
| Note: NECROSIS TGLs = 2-21       |              |                                  |                   |
| Ovary                            |              | Angiectasis                      | Moderate          |
| Pancreas                         |              | Hyperplasia                      | Lymphoid, Minimal |
| Salivary Glands                  |              | Hyperplasia                      | Lymphoid, Minimal |
| Spleen                           |              | Hematopoietic Cell Proliferation | Moderate          |
| Note: HEMA CELL PROL TGLs = 4-6  |              |                                  |                   |
| Thymus                           |              | Cyst                             |                   |
| Thyroid Gland                    |              | Degeneration                     | Cystic, Minimal   |
| Urinary Bladder                  |              | Hyperplasia                      | Lymphoid, Minimal |
| Uterus                           |              | Hyperplasia                      | Cystic, Moderate  |
| Note: HYPERPLASIA TGLs = 3-7     |              |                                  |                   |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 365

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043571

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone Marrow                | Brain                   | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   |
| Mammary Gland            | Pancreas                   | Parathyroid Gland       | Salivary Glands           |
| Skin                     | Spleen                     | Stomach - Forestomach   | Trachea                   |

**OBSERVATIONS**

|   |                |                                   |                    |
|---|----------------|-----------------------------------|--------------------|
| Adrenal Gland                                       | Cortex         | Accessory Adrenal Cortical Nodule |                    |
| Bone  |                | Hyperostosis                      | Mild               |
| Kidney  |                | Hyperplasia                       | Lymphoid, Minimal  |
|   |                | Metaplasia                        | Osseous, Minimal   |
| Liver   |                | Hepatocellular Adenoma            |                    |
| Note: HEPATOCLR ADEN TGLs = 1-21                    |                |                                   |                    |
| Nose  | Glands         | Hyperplasia                       | Cystic, Minimal    |
| Ovary   |                | Angiectasis                       | Minimal            |
| Note: SMALL AREA OF GLAND-LIKE STRUCTURES;NOT CODED |                |                                   |                    |
| Pituitary Gland                                     | Pars Distalis  | Cyst                              |                    |
|   | Pars Distalis  | Hyperplasia                       | Focal, Marked      |
| Note: [ HYPERPLASIA ] TGLs = 1                      |                |                                   |                    |
| Stomach   | Glandular      | Cyst                              |                    |
| Thymus  |                | Cyst                              |                    |
| Thyroid Gland                                       |                | Degeneration                      | Cystic, Minimal    |
|   | Follicular Cel | Hyperplasia                       | Minimal            |
| Urinary Bladder                                     |                | Hyperplasia                       | Lymphoid, Moderate |
| Uterus  |                | Hyperplasia                       | Cystic, Mild       |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 366

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043572

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Brain                   |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      | Lung                    |
| Lymph Node - Mandibular   | Lymph Node - Mesenteric  | Ovary                      | Parathyroid Gland       |
| Pituitary Gland           | Salivary Glands          | Skin                       | Spleen                  |
| Stomach - Forestomach     | Stomach - Glandular      | Trachea                    |                         |

**OBSERVATIONS**

|  |                 |                                   |                  |
|--|-----------------|-----------------------------------|------------------|
| Adrenal Gland  | Cortex          | Accessory Adrenal Cortical Nodule |                  |
| Kidney   | Renal Tubule    | Atrophy                           | Moderate         |
|  |                 | Casts Protein                     | Moderate         |
|  |                 | Cyst                              |                  |
|  | Renal Tubule    | Dilatation                        | Moderate         |
|  |                 | Glomerulosclerosis                | Moderate         |
|  |                 | Hyperplasia                       | Lymphoid, Marked |
|  | Interstitialium | Pigmentation                      | Moderate         |
|  | Renal Tubule    | Regeneration                      | Marked           |
| <p>Note: CYST TGLs = 4-21</p> <p>Note: HYPERPLASIA TGLs = 3-5,3-5-1</p> <p>[ Casts Protein TGLs = 3-5,3-5-1 ]</p> <p>[ Cyst TGLs = 3-5,3-5-1 ]</p> <p>[ Dilatation TGLs = 3-5,3-5-1 ]</p> <p>[ Hyperplasia TGLs = 3-5,3-5-1 ]</p> <p>[ Regeneration TGLs = 3-5,3-5-1 ]</p> |                 |                                   |                  |
| Mammary Gland  |                 | Hyperplasia                       | Lobular, Minimal |
| Nose   |                 | Exudate                           |                  |
|  | Glands          | Hyperplasia                       | Cystic, Minimal  |
| Pancreas   |                 | Cytoplasmic Alteration            | Mild             |
| Thymus   |                 | Depletion Cellular                | Mild             |
| Thyroid Gland  |                 | Degeneration                      | Cystic, Minimal  |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 366

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043572

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Urinary Bladder

Hyperplasia

Lymphoid, Minimal

Uterus

Hyperplasia

Cystic, Mild

Note: HYPERPLASIA TGLs = 2-7

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 367

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043573

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex   | Adrenal Gland - Medulla    | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   |
| Mammary Gland            | Nose                       | Pancreas                | Parathyroid Gland         |
| Pituitary Gland          | Salivary Glands            | Skin                    | Spleen                    |
| Stomach - Forestomach    | Stomach - Glandular        | Thymus                  | Trachea                   |
| Urinary Bladder          |                            |                         |                           |

**OBSERVATIONS**

|                      |                 |                          |                  |
|----------------------|-----------------|--------------------------|------------------|
| Bone                 |                 | Hyperostosis             | Minimal          |
| Brain                | Thalamus        | Mineralization           | Mild             |
| Kidney               |                 | Casts Protein            | Minimal          |
|                      |                 | Mineralization           | Minimal          |
| Liver                |                 | Hepatocellular Carcinoma |                  |
| Note: HEPATOCLR CARC | TGLs = 4-6,4-21 |                          |                  |
| Ovary                |                 | Angiectasis              | Mild             |
| Thyroid Gland        | Follicular Cel  | Hyperplasia              | Minimal          |
| Uterus               |                 | Hydrometra               | Moderate         |
|                      |                 | Hyperplasia              | Cystic, Moderate |
| Note: HYPERPLASIA    | TGLs = 1-7      |                          |                  |
| Note: HYDROMETRA     | TGLs = 2-7,3-7  |                          |                  |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 368

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043574

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Brain                   |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Mammary Gland             | Nose                     | Pancreas                   | Parathyroid Gland       |
| Salivary Glands           | Skin                     | Stomach - Forestomach      | Stomach - Glandular     |
| Thymus                    | Trachea                  | Urinary Bladder            |                         |

**OBSERVATIONS**

|                                     |                |                                  |                |
|-------------------------------------|----------------|----------------------------------|----------------|
| Bone Marrow                         |                | Hypercellularity                 | Mild           |
| Kidney                              | Renal Tubule   | Pigmentation                     | Minimal        |
|                                     | Renal Tubule   | Regeneration                     | Minimal        |
| Liver                               |                | Hematopoietic Cell Proliferation | Moderate       |
|                                     |                | Hepatocellular Adenoma           |                |
|                                     |                | Hyperplasia                      | Focal, Mild    |
| Note: HYPERPLASIA TGLs = 6-22       |                |                                  |                |
| Note: [ HEMA CELL PROL ] TGLs = 6   |                |                                  |                |
| Lung                                |                | Hemorrhage                       | Minimal        |
| Note: HEMORRHAGE TGLs = 4-2-1,5-2-1 |                |                                  |                |
| Ovary                               |                | Angiectasis                      | Marked         |
| Pituitary Gland                     | Pars Distalis  | Adenoma                          |                |
| Spleen                              |                | Hematopoietic Cell Proliferation | Marked         |
| Note: HEMA CELL PROL TGLs = 2-6     |                |                                  |                |
| Thyroid Gland                       | Follicular Cel | Hyperplasia                      | Mild           |
|                                     |                | Inflammation                     | Subacute, Mild |
| Uterus                              |                | Hyperplasia                      | Cystic, Mild   |
| Note: HYPERPLASIA TGLs = 1-7        |                |                                  |                |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 369

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043575

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Mammary Gland           |
| Nose                      | Parathyroid Gland        | Skin                       | Stomach - Forestomach   |
| Thymus                    | Trachea                  | Urinary Bladder            |                         |

**OBSERVATIONS**

|                      |                   |                          |                    |
|----------------------|-------------------|--------------------------|--------------------|
| Brain                | Thalamus          | Mineralization           | Mild               |
| Kidney               |                   | Hyperplasia              | Lymphoid, Mild     |
|                      | Renal Tubule      | Regeneration             | Minimal            |
| Liver                |                   | Hepatocellular Adenoma   |                    |
|                      |                   | Hepatocellular Carcinoma |                    |
| Note: HEPATOCLR CARC | TGLs = 3-22       |                          |                    |
| Note: HEPATOCLR ADEN | TGLs = 2-21       |                          |                    |
| Lung                 |                   | Hemorrhage               | Minimal            |
| Lymph Node           | Mesenteric        | Hyperplasia              | Lymphoid, Moderate |
| Ovary                |                   | Angiectasis              | Mild               |
|                      |                   | Cyst                     |                    |
| Note: CYST           | TGLs = 1-7        |                          |                    |
| Pancreas             |                   | Atrophy                  | Mild               |
|                      |                   | Hyperplasia              | Lymphoid, Minimal  |
| Pituitary Gland      | Pars Distalis     | Adenoma                  |                    |
| Note: ADENOMA        | TGLs = 5-1        |                          |                    |
| Salivary Glands      |                   | Hyperplasia              | Lymphoid, Minimal  |
| Spleen               | Lymph Follic      | Hyperplasia              | Mild               |
| Stomach              | Glandular         | Cyst                     |                    |
|                      | Glandular, Mucosa | Hyperplasia              | Minimal            |
| Thyroid Gland        |                   | Degeneration             | Cystic, Minimal    |
| Uterus               |                   | Hyperplasia              | Cystic, Mild       |
| Note: HYPERPLASIA    | TGLs = 4-7        |                          |                    |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 369

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043575

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 370

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043576

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   |
| Mammary Gland            | Nose                       | Ovary                   | Pancreas                  |
| Parathyroid Gland        | Pituitary Gland            | Skin                    | Spleen                    |
| Stomach - Forestomach    | Stomach - Glandular        | Thymus                  | Trachea                   |

**OBSERVATIONS**

|                   |              |                                   |                   |
|-------------------|--------------|-----------------------------------|-------------------|
| Adrenal Gland     | Cortex       | Accessory Adrenal Cortical Nodule |                   |
| Brain             | Thalamus     | Mineralization                    | Minimal           |
| Clitoral Gland    |              | Ectasia                           | Mild              |
| Kidney            | Renal Tubule | Carcinoma                         |                   |
| Note: CARCINOMA   | TGLs = 3-21  |                                   |                   |
| Liver             |              | Hyperplasia                       | Focal, Moderate   |
| Salivary Glands   |              | Hyperplasia                       | Lymphoid, Minimal |
| Thyroid Gland     |              | Degeneration                      | Cystic, Minimal   |
| Urinary Bladder   |              | Hyperplasia                       | Lymphoid, Mild    |
| Uterus            |              | Hyperplasia                       | Cystic, Mild      |
|                   |              | Polyp Stromal                     |                   |
| Note: HYPERPLASIA | TGLs = 2-7   |                                   |                   |

**PRIMARY CAUSE OF DEATH** -

Animal Note: INFUSION ARTIFACT IN URINARY BLADDER

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 371

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043577

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    |
| Lymph Node - Mesenteric | Mammary Gland             | Nose                     | Ovary                      |
| Parathyroid Gland       | Pituitary Gland           | Skin                     | Stomach - Forestomach      |
| Stomach - Glandular     | Thymus                    | Thyroid Gland            | Trachea                    |

**OBSERVATIONS**

|                                  |              |                        |                    |
|----------------------------------|--------------|------------------------|--------------------|
| Kidney                           |              | Hyperplasia            | Lymphoid, Moderate |
|                                  | Renal Tubule | Regeneration           | Minimal            |
| Liver                            |              | Hepatocellular Adenoma |                    |
| Note: HEPATOCLR ADEN TGLs = 2-21 |              |                        |                    |
| Lung                             |              | Hyperplasia            | Lymphoid, Minimal  |
| Pancreas                         |              | Hyperplasia            | Lymphoid, Moderate |
| Salivary Glands                  |              | Hyperplasia            | Lymphoid, Mild     |
| Spleen                           | Red Pulp     | Hyperplasia            | Mild               |
| Urinary Bladder                  |              | Hyperplasia            | Lymphoid, Moderate |
| Uterus                           |              | Hyperplasia            | Cystic, Mild       |
| Note: HYPERPLASIA TGLs = 1-7     |              |                        |                    |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 372

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043578

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Mammary Gland           |
| Nose                      | Pancreas                 | Parathyroid Gland          | Salivary Glands         |
| Skin                      | Stomach - Glandular      | Thymus                     | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**OBSERVATIONS**

|   |               |                              |                     |
|---|---------------|------------------------------|---------------------|
| Brain   | Thalamus      | Mineralization               | Minimal             |
|   | Parenchyma    | Vacuolization Cytoplasmic    | Diffuse, Mild       |
| Kidney  | Renal Tubule  | Regeneration                 | Mild                |
| Liver   |               | Hepatocellular Adenoma       |                     |
| Note: HEPATOCLR ADEN TGLs = 8-23                                  |               |                              |                     |
| Lung  |               | Alveolar/Bronchiolar Adenoma |                     |
| Note: A FEW CHOLESTEROL CLEFTS ASSOCIATED WITH HISTIOCYTIC CELLS. |               |                              |                     |
|   |               | Infiltration Cellular        | Histiocyte, Minimal |
| Note: ALV BRON ADEN TGLs = 6-2-1                                  |               |                              |                     |
| Lymph Node  | Mesenteric    | Lymphoma Malignant Mixed     |                     |
|   | Pancreatic    | Lymphoma Malignant Mixed     |                     |
| Note: LYMPH MAL MIXD TGLs = 5-22                                  |               |                              |                     |
| Note: LYMPH MAL MIXD TGLs = 4-21                                  |               |                              |                     |
| Ovary   |               | Cyst                         |                     |
| Note: FOCUS OF CEROID-LIBA PIGMENT;NOT CODED                      |               |                              |                     |
| Pituitary Gland   | Pars Distalis | Adenoma                      |                     |
| Note: ADENOMA TGLs = 7-1  |               |                              |                     |
| Spleen  |               | Lymphoma Malignant Mixed     |                     |
| Note: LYMPH MAL MIXD TGLs = 3-6                                   |               |                              |                     |
| Stomach   | Forestomach   | Fibrosis                     | Minimal             |
| Thyroid Gland   |               | Degeneration                 | Cystic, Minimal     |
| Uterus  |               | Hyperplasia                  | Cystic, Mild        |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 372

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043578

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: HYPERPLASIA TGLs = 2-7

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 373

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 726

**DOSE:** 0.00500%CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87043579

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mesenteric    | Mammary Gland           |
| Nose                      | Ovary                    | Pancreas                   | Parathyroid Gland       |
| Salivary Glands           | Stomach - Forestomach    | Stomach - Glandular        | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**OBSERVATIONS**

|                   |                       |                                  |                  |
|-------------------|-----------------------|----------------------------------|------------------|
| Brain             | Thalamus              | Mineralization                   | Mild             |
| Kidney            | Renal Tubule          | Atrophy                          | Mild             |
|                   | Renal Tubule          | Dilatation                       | Minimal          |
| Liver             |                       | Hyperplasia                      | Focal, Moderate  |
| Note: HYPERPLASIA | TGLs = 6-23           |                                  |                  |
| Lung              |                       | Hemorrhage                       | Minimal          |
| Lymph Node        | Mandibular            | Hyperplasia                      | Lymphoid, Marked |
| Pituitary Gland   | Pars Distalis         | Adenoma                          |                  |
| Note: ADENOMA     | TGLs = 4-1            |                                  |                  |
| Skin              |                       | Ulcer                            | Marked           |
| Note: ULCER       | TGLs = 1-21,2-21,3-22 |                                  |                  |
| Spleen            |                       | Hematopoietic Cell Proliferation | Mild             |
| Thymus            |                       | Cyst                             |                  |
| Thyroid Gland     |                       | Degeneration                     | Cystic, Minimal  |
|                   | Follicular Cel        | Hyperplasia                      | Minimal          |
| Uterus            |                       | Hyperplasia                      | Cystic, Mild     |
| Note: HYPERPLASIA | TGLs = 5-7            |                                  |                  |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 374

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043580

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      |
| Lung                    | Lymph Node - Mandibular   | Lymph Node - Mesenteric  | Mammary Gland              |
| Nose                    | Pancreas                  | Parathyroid Gland        | Skin                       |
| Spleen                  | Stomach - Glandular       | Thymus                   | Thyroid Gland              |
| Trachea                 | Urinary Bladder           |                          |                            |

**OBSERVATIONS**

|                   |                     |              |                   |
|-------------------|---------------------|--------------|-------------------|
| Kidney            | Renal Tubule        | Regeneration | Minimal           |
| Mesentery         | Fat                 | Necrosis     | Mild              |
| Note: NECROSIS    | TGLs = 1-21         |              |                   |
| Ovary             |                     | Angiectasis  | Mild              |
| Pituitary Gland   | Pars Distalis       | Adenoma      |                   |
| Salivary Glands   |                     | Hyperplasia  | Lymphoid, Minimal |
| Stomach           | Forestomach, Mucosa | Hyperplasia  | Minimal           |
| Uterus            |                     | Hyperplasia  | Cystic, Moderate  |
| Note: HYPERPLASIA | TGLs = 2-7          |              |                   |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 375

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043581

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Mammary Gland           |
| Nose                      | Parathyroid Gland        | Pituitary Gland            | Skin                    |
| Stomach - Forestomach     | Stomach - Glandular      | Thyroid Gland              | Trachea                 |

**INSUFFICIENT TISSUE**

Ovary

**OBSERVATIONS**

|  |              |                          |                    |
|--|--------------|--------------------------|--------------------|
| Brain  | Thalamus     | Mineralization           | Mild               |
| Islets, Pancreatic   |              | Hyperplasia              | Minimal            |
| Kidney   | Renal Tubule | Regeneration             | Minimal            |
| Liver  |              | Hepatocellular Adenoma   | Four, Multiple     |
| Note: TWO HEPATOCELLULAR ADENOMAS ON SLIDE 21 AND ONE ON SLIDES 6 AND 22 |              |                          |                    |
| Note: HEPATOCLR ADEN TGLs = 3-21,4-22                                    |              |                          |                    |
| Lung   |              | Hyperplasia              | Lymphoid, Minimal  |
| Pancreas   |              | Hyperplasia              | Lymphoid, Moderate |
| Salivary Glands  |              | Hyperplasia              | Lymphoid, Mild     |
| Spleen   | Lymph Follic | Hyperplasia              | Mild               |
|  | Red Pulp     | Hyperplasia              | Moderate           |
| Note: HYPERPLASIA TGLs = 2-6   |              |                          |                    |
| Note: HYPERPLASIA TGLs = 2-6   |              |                          |                    |
| Thymus   |              | Lymphoma Malignant Mixed |                    |
| Urinary Bladder  |              | Hyperplasia              | Lymphoid, Minimal  |
| Uterus   |              | Hyperplasia              | Cystic, Moderate   |
| Note: HYPERPLASIA TGLs = 1-7   |              |                          |                    |

**PRIMARY CAUSE OF DEATH**

-

Animal Note: ISLETS PANCREAS AND PANCREAS ARE ON SLIDE 21

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 377

**TRT#:** 16

**SEX:** Female

**DAY ON TEST:** 97

**DOSE:** 0.00500% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** 33867

---

**OBSERVATIONS**

Kidney

Renal Tubule

Regeneration

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

|                               |   |  |   |
|-------------------------------|---|--|---|
| <b>ANIMAL ID:</b> 378         | <b>TRT#:</b> 16<br><b>DOSE:</b> 0.00500% 3 SSAC | <b>SEX:</b> Female<br><b>DISP:</b> Scheduled Sacrifice | <b>DAY ON TEST:</b> 99<br><b>HISTO:</b> 33868 |
| <b>OBSERVATIONS</b><br>Kidney | Renal Tubule                                    | Regeneration   | Minimal                                       |
| <b>PRIMARY CAUSE OF DEATH</b> | -   |  |   |

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 379

**TRT#:** 16

**SEX:** Female

**DAY ON TEST:** 98

**DOSE:** 0.00500% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** 33869

---

**OBSERVATIONS**

Kidney

Renal Tubule

Regeneration

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 380

**TRT#:** 16

**SEX:** Female

**DAY ON TEST:** 97

**DOSE:** 0.00500% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** 33870

---

**OBSERVATIONS**

Uterus

Endometrium

Cyst

Minimal

[ Cyst TGLS = 7 ]

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:13  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 381

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** 0.00500%CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** 37713

---

**OBSERVATIONS**

Uterus

Hyperplasia

Cystic, Mild

[ Hyperplasia TGLS = 7 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 382

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 455

**DOSE:** 0.00500%CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** 37714

---

**OBSERVATIONS**

Kidney  
[ Casts Protein TGLS = 5 ]

Casts Protein

Minimal

Uterus  
[ Hydrometra TGLS = 7 ]  
[ Hyperplasia TGLS = 7 ]

Hydrometra  
Hyperplasia

Mild  
Cystic, Mild

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 383

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 455

**DOSE:** 0.00500%CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** 37715

---

**OBSERVATIONS**

Uterus

Hyperplasia

Cystic, Mild

[ Hyperplasia TGLS = 7 ]

---

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 384

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** 0.00500%CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** 37716

---

**OBSERVATIONS**

Kidney

Renal Tubule

Regeneration

Minimal

Uterus

Hyperplasia

Cystic, Mild

---

**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 385

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 456

**DOSE:** 0.00500%CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** 37717

---

**OBSERVATIONS**

Uterus

Hyperplasia

Cystic, Mild

[ Hyperplasia TGLS = 7 ]

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 386

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043454

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       |
| Lymph Node - Mandibular | Lymph Node - Mesenteric   | Mammary Gland            | Nose                       |
| Ovary                   | Pancreas                  | Parathyroid Gland        | Salivary Glands            |
| Skin                    | Stomach - Forestomach     | Stomach - Glandular      | Thymus                     |
| Trachea                 | Urinary Bladder           |                          |                            |

**OBSERVATIONS**

|                      |                    |                                  |                  |
|----------------------|--------------------|----------------------------------|------------------|
| Kidney               | Renal Tubule       | Regeneration                     | Minimal          |
| Liver                |                    | Clear Cell Focus                 |                  |
|                      |                    | Hepatocellular Adenoma           |                  |
|                      |                    | Hyperplasia                      | Focal, Mild      |
|                      | Hepatocyte         | Vacuolization Cytoplasmic        | Mild             |
| Note: CLEAR CL FOCUS | TGLs = 3-21,3-21-1 |                                  |                  |
| Note: HEPATOCLR ADEN | TGLs = 5-22        |                                  |                  |
| Note: HYPERPLASIA    | TGLs = 2-21-1      |                                  |                  |
| Pituitary Gland      | Pars Distalis      | Hyperplasia                      | Minimal          |
| Spleen               |                    | Hematopoietic Cell Proliferation | Mild             |
|                      | Lymph Follic       | Hyperplasia                      | Moderate         |
| Note: HEMA CELL PROL | TGLs = 1-6         |                                  |                  |
| Note: HYPERPLASIA    | TGLs = 1-6         |                                  |                  |
| Thyroid Gland        |                    | Degeneration                     | Cystic, Mild     |
| Uterus               |                    | Hydrometra                       | Minimal          |
|                      |                    | Hyperplasia                      | Cystic, Moderate |
| Note: HYPERPLASIA    | TGLs = 4-7         |                                  |                  |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 387

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043455

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Mammary Gland  
Pituitary Gland  
Thymus

Adrenal Gland - Medulla  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Nose  
Salivary Glands  
Trachea

Bone Marrow  
Heart  
Intestine Small - Duodenum  
Lymph Node - Mandibular  
Ovary  
Skin  
Urinary Bladder

Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mesenteric  
Pancreas  
Stomach - Glandular

**OBSERVATIONS**

Bone  
Kidney  
Liver

Note: HEPATOCLR ADEN TGLs = 1-21  
Note: FOCAL HYPERPLASIA AND LYMPHOID HYPERPLASIA ON SLIDE 21

Hyperostosis  
Hyperplasia  
Hepatocellular Adenoma  
Hyperplasia  
Hyperplasia

Mild  
Lymphoid, Minimal  
Focal, Mild  
Lymphoid, Minimal

Lung  
Parathyroid Gland  
Spleen  
Stomach  
Thyroid Gland  
Uterus

Forestomach

Note: HYPERPLASIA TGLs = 2-7

Hemorrhage  
Cyst  
Hematopoietic Cell Proliferation  
Squamous Cell Carcinoma  
Degeneration  
Hyperplasia

Minimal  
Minimal  
Cystic, Mild  
Cystic, Moderate

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 388

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043456

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Intestine Large - Colon  
Intestine Small - Jejunum  
Mammary Gland  
Pituitary Gland  
Stomach - Glandular  
Urinary Bladder

Adrenal Gland - Medulla  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Nose  
Salivary Glands  
Thymus

Bone  
Heart  
Intestine Small - Duodenum  
Lymph Node - Mandibular  
Pancreas  
Skin  
Thyroid Gland

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mesenteric  
Parathyroid Gland  
Stomach - Forestomach  
Trachea

**MISSING**

Esophagus

**OBSERVATIONS**

Kidney  
Liver  
    Note: HYPERPLASIA   TGLs = 4-21  
Lung  
Ovary  
    Note: CYST         TGLs = 1-7  
Spleen  
    Note: HEMA CELL PROL   TGLs = 3-6  
Uterus  
    Note: HYPERPLASIA   TGLs = 5-7  
    Note: HYDROMETRA    TGLs = 2-7

Alveolar Epith

Mineralization           Minimal  
Hyperplasia              Lymphoid, Moderate  
Hemorrhage               Minimal  
Hyperplasia              Minimal  
Cyst  
Hematopoietic Cell Proliferation   Minimal  
Hydrometra               Moderate  
Hyperplasia               Cystic, Moderate

**PRIMARY CAUSE OF DEATH**           -

Animal Note: THYROID: BASOPHILIC COLORATION OF COLLOID; NOT CODED

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 389

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 620

**DOSE:** 0.0275% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87043457

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Medulla    | Bone                    | Bone Marrow               | Esophagus                |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Lymph Node - Mandibular  |
| Lymph Node - Mesenteric    | Mammary Gland           | Parathyroid Gland         | Pituitary Gland          |
| Skin                       | Trachea                 | Urinary Bladder           |                          |

**MISSING**

Thymus

**OBSERVATIONS**

|                                |              |                           |                   |
|--------------------------------|--------------|---------------------------|-------------------|
| Adrenal Gland                  | Cortex       | Hyperplasia               | Focal, Mild       |
| Brain                          | Thalamus     | Mineralization            | Mild              |
| Gallbladder                    |              | Cyst                      |                   |
| Islets, Pancreatic             |              | Adenoma                   |                   |
|                                |              | Hyperplasia               | Minimal           |
| Note: ADENOMA ON SLIDE 4       |              |                           |                   |
| Kidney                         |              | Mineralization            | Minimal           |
| Liver                          | Hepatocyte   | Vacuolization Cytoplasmic | Mild              |
| Note: VACUOLIZ CYTO TGLs = 5-6 |              |                           |                   |
| Lung                           |              | Hyperplasia               | Lymphoid, Minimal |
| Nose                           |              | Exudate                   |                   |
|                                | Glands       | Hyperplasia               | Cystic, Minimal   |
| Ovary                          |              | Angiectasis               | Mild              |
|                                |              | Cyst                      |                   |
|                                |              | Hyperplasia               | Mild              |
| Note: ANGIECTASIS TGLs = 7-7   |              |                           |                   |
| Note: CYST TGLs = 1-7-1        |              |                           |                   |
| Note: EPITHELIAL HYPERPLASIA   |              |                           |                   |
| Pancreas                       |              | Cytoplasmic Alteration    | Moderate          |
| Salivary Glands                |              | Hyperplasia               | Lymphoid, Mild    |
| Spleen                         | Lymph Follic | Atrophy                   | Moderate          |
| Note: ATROPHY TGLs = 4-6       |              |                           |                   |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 389 | <b>TRT#:</b> 19               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 620 |
|                       | <b>DOSE:</b> 0.0275% CHLORINE | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87043457 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

|                   |             |              |              |
|-------------------|-------------|--------------|--------------|
| Stomach           | Forestomach | Erosion      | Mild         |
|                   | Glandular   | Erosion      | Mild         |
| Note: EROSION     | TGLs = 6-4  |              |              |
| Thyroid Gland     |             | Degeneration | Cystic, Mild |
| Uterus            |             | Hydrometra   | Marked       |
|                   |             | Hyperplasia  | Cystic, Mild |
| Note: HYPERPLASIA | TGLs = 2-7  |              |              |

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PRIMARY CAUSE OF DEATH

---

-

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 390

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 686

**DOSE:** 0.0275% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87043458

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    |
| Lymph Node - Mesenteric | Mammary Gland             | Nose                     | Ovary                      |
| Pancreas                | Parathyroid Gland         | Pituitary Gland          | Salivary Glands            |
| Stomach - Forestomach   | Stomach - Glandular       | Thymus                   | Thyroid Gland              |
| Trachea                 | Urinary Bladder           |                          |                            |

**OBSERVATIONS**

|                                    |              |                                  |                     |
|------------------------------------|--------------|----------------------------------|---------------------|
| Kidney                             |              | Mineralization                   | Minimal             |
|                                    | Papilla      | Necrosis                         | Mild                |
|                                    | Renal Tubule | Regeneration                     | Minimal             |
| Liver                              |              | Hyperplasia                      | Focal, Minimal      |
| Lung                               |              | Infiltration Cellular            | Histiocyte, Minimal |
| Skin                               | Subcut Tiss  | Fibrosarcoma                     |                     |
| Note: FIBROSARC TGLs = 1-21        |              |                                  |                     |
| Spleen                             |              | Hematopoietic Cell Proliferation | Moderate            |
| Note: HEMA CELL PROL TGLs = 4-6    |              |                                  |                     |
| Uterus                             |              | Hyperplasia                      | Cystic, Marked      |
| Note: HYPERPLASIA TGLs = 2-7-1,3-7 |              |                                  |                     |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 391 | <b>TRT#:</b> 19               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 736 |
|                       | <b>DOSE:</b> 0.0275% CHLORINE | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87043459 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Bone                       | Bone Marrow             | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Kidney                     | Lymph Node - Mandibular | Lymph Node - Mesenteric   | Mammary Gland            |
| Nose                       | Pancreas                | Parathyroid Gland         | Pituitary Gland          |
| Salivary Glands            | Skin                    | Spleen                    | Stomach - Forestomach    |
| Stomach - Glandular        | Thymus                  | Trachea                   | Urinary Bladder          |

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**MISSING**

Ovary

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**OBSERVATIONS**

|                   |                |                                   |                  |
|-------------------|----------------|-----------------------------------|------------------|
| Adrenal Gland     | Cortex         | Accessory Adrenal Cortical Nodule |                  |
|                   | Medulla        | Hyperplasia                       | Moderate         |
| Brain             | Thalamus       | Mineralization                    | Mild             |
| Liver             |                | Hyperplasia                       | Focal, Mild      |
| Note: HYPERPLASIA | TGLs = 2-21    |                                   |                  |
| Lung              |                | Alveolar/Bronchiolar Adenoma      |                  |
| Thyroid Gland     | Follicular Cel | Adenoma                           |                  |
|                   |                | Degeneration                      | Cystic, Mild     |
| Uterus            |                | Hyperplasia                       | Cystic, Moderate |
| Note: HYPERPLASIA | TGLs = 1-7     |                                   |                  |

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 392 | <b>TRT#:</b> 19               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 734 |
|                       | <b>DOSE:</b> 0.0275% CHLORINE | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87043460 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Brain                   |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      | Lung                    |
| Lymph Node - Mandibular   | Lymph Node - Mesenteric  | Mammary Gland              | Nose                    |
| Parathyroid Gland         | Pituitary Gland          | Skin                       | Spleen                  |
| Stomach - Forestomach     | Stomach - Glandular      | Trachea                    |                         |

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**MISSING**

Thymus

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**OBSERVATIONS**

|                 |             |                                   |                    |
|-----------------|-------------|-----------------------------------|--------------------|
| Adrenal Gland   | Cortex      | Accessory Adrenal Cortical Nodule |                    |
| Kidney          |             | Hyperplasia                       | Lymphoid, Moderate |
|                 |             | Mineralization                    | Minimal            |
| Mesentery       | Fat         | Necrosis                          | Marked             |
| Note: NECROSIS  | TGLs = 1-21 |                                   |                    |
| Ovary           |             | Cyst                              |                    |
| Pancreas        |             | Hyperplasia                       | Lymphoid, Minimal  |
| Salivary Glands |             | Hyperplasia                       | Lymphoid, Moderate |
| Thyroid Gland   |             | Degeneration                      | Cystic, Minimal    |
| Urinary Bladder |             | Hyperplasia                       | Lymphoid, Mild     |
| Uterus          |             | Hyperplasia                       | Cystic, Mild       |

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 393

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043461

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Kidney                   | Lung                       | Lymph Node - Mandibular |
| Mammary Gland             | Nose                     | Pancreas                   | Parathyroid Gland       |
| Pituitary Gland           | Stomach - Forestomach    | Stomach - Glandular        | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**INSUFFICIENT TISSUE**

Lymph Node - Mesenteric

**OBSERVATIONS**

|                                  |              |                                  |                   |
|----------------------------------|--------------|----------------------------------|-------------------|
| Brain                            | Thalamus     | Mineralization                   | Mild              |
| Islets, Pancreatic               |              | Hyperplasia                      | Minimal           |
| Liver                            |              | Hepatocellular Adenoma           |                   |
|                                  |              | Hyperplasia                      | Focal, Mild       |
|                                  | Lobules      | Necrosis                         | Minimal           |
| Note: HEPATOCLR ADEN TGLs = 4-22 |              |                                  |                   |
| Note: HYPERPLASIA TGLs = 5-23    |              |                                  |                   |
| Ovary                            |              | Cyst                             |                   |
| Salivary Glands                  |              | Hyperplasia                      | Lymphoid, Minimal |
| Skin                             |              | Acanthosis                       | Moderate          |
|                                  |              | Ulcer                            | Moderate          |
| Note: ACANTHOSIS TGLs = 1-21     |              |                                  |                   |
| Note: ULCER TGLs = 1-21          |              |                                  |                   |
| Spleen                           |              | Hematopoietic Cell Proliferation | Mild              |
| Note: HEMA CELL PROL TGLs = 3-6  |              |                                  |                   |
| Thymus                           |              | Cyst                             |                   |
|                                  | Epithel Cell | Hyperplasia                      | Mild              |
| Thyroid Gland                    |              | Degeneration                     | Cystic, Mild      |
| Uterus                           |              | Angiectasis                      | Mild              |
|                                  |              | Hyperplasia                      | Cystic, Mild      |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 393

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043461

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: HYPERPLASIA TGLs = 2-7

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 394

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043462

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Mammary Gland             | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Salivary Glands           | Skin                     | Spleen                     | Stomach - Forestomach   |
| Trachea                   | Urinary Bladder          |                            |                         |

**OBSERVATIONS**

|                   |                   |                |                   |
|-------------------|-------------------|----------------|-------------------|
| Brain             | Thalamus          | Mineralization | Minimal           |
| Harderian Gland   |                   | Adenoma        |                   |
| Note: ADENOMA     | TGLs = 4-22       |                |                   |
| Kidney            |                   | Hyperplasia    | Lymphoid, Minimal |
| Liver             |                   | Hyperplasia    | Lymphoid, Mild    |
|                   |                   | Hyperplasia    | Focal, Mild       |
| Note: HYPERPLASIA | TGLs = 5-23       |                |                   |
| Lung              |                   | Hyperplasia    | Lymphoid, Minimal |
| Nose              |                   | Exudate        |                   |
|                   | Glands            | Hyperplasia    | Cystic, Minimal   |
| Ovary             |                   | Angiectasis    | Mild              |
|                   | Interstitial Cell | Hyperplasia    | Moderate          |
| Stomach           | Glandular         | Inflammation   | Subacute, Minimal |
| Thymus            |                   | Angiectasis    | Mild              |
|                   |                   | Cyst           |                   |
| Thyroid Gland     | Follicular Cel    | Hyperplasia    | Minimal           |
| Uterus            |                   | Hydrometra     | Marked            |
|                   |                   | Hyperplasia    | Cystic, Mild      |
|                   |                   | Metaplasia     | Squamous, Mild    |
| Note: HYPERPLASIA | TGLs = 3-7        |                |                   |
| Note: HYDROMETRA  | TGLs = 2-7        |                |                   |

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 395

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** 0.0275% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87043463

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   |
| Nose                     | Ovary                      | Pancreas                | Parathyroid Gland         |
| Salivary Glands          | Skin                       | Spleen                  | Stomach - Glandular       |
| Thyroid Gland            | Trachea                    | Urinary Bladder         |                           |

**MISSING**

Thymus

**OBSERVATIONS**

|   |                               |                                   |                 |
|---|-------------------------------|-----------------------------------|-----------------|
| Adrenal Gland                                   | Cortex                        | Accessory Adrenal Cortical Nodule |                 |
| Brain   |                               | Compression                       |                 |
|   |                               | Hemorrhage                        | Mild            |
|   |                               | Hydrocephalus                     | Mild            |
|   | Thalamus                      | Mineralization                    | Mild            |
|   | [ Mineralization TGLS = 5-1 ] |                                   |                 |
| Clitoral Gland                                  |                               | Ectasia                           | Mild            |
| Note: ECTASIA                                   | TGLs = 1-21                   |                                   |                 |
| Kidney  |                               | Casts Protein                     | Moderate        |
|   | Renal Tubule                  | Dilatation                        | Mild            |
|   | Renal Tubule                  | Regeneration                      | Minimal         |
| Liver   | Hepatocyte                    | Cytomegaly                        | Mild            |
|   | Hepatocyte                    | Karyomegaly                       | Mild            |
|   | Lobules                       | Necrosis                          | Mild            |
|   | Hepatocyte                    | Nuclear Alteration                | Moderate        |
| Note: NUMEROUS HEPATOCYTES HAVE MULTIPLE NUCLEI |                               |                                   |                 |
| Mammary Gland                                   |                               | Hyperplasia                       | Cystic, Minimal |
| Pituitary Gland                                 | Pars Distalis                 | Adenoma                           |                 |
| Note: ADENOMA                                   | TGLs = 4-1                    |                                   |                 |
| Stomach   | Forestomach                   | Diverticulum                      | Mild            |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 395

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** 0.0275% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87043463

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: DIVERTICULUM TGLs = 6-4-1

Uterus

Hyperplasia

Cystic, Moderate

Note: HYPERPLASIA TGLs = 3-7

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 396

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043464

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex   | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   |
| Mammary Gland            | Nose                       | Pancreas                | Parathyroid Gland         |
| Salivary Glands          | Skin                       | Spleen                  | Stomach - Forestomach     |
| Stomach - Glandular      | Thymus                     | Thyroid Gland           | Trachea                   |
| Urinary Bladder          |                            |                         |                           |

**OBSERVATIONS**

|                   |               |                |                   |
|-------------------|---------------|----------------|-------------------|
| Adrenal Gland     | Medulla       | Hyperplasia    | Mild              |
| Brain             | Thalamus      | Mineralization | Minimal           |
| Kidney            | Renal Tubule  | Atrophy        | Moderate          |
|                   |               | Mineralization | Minimal           |
| Liver             | Interstitium  | Pigmentation   | Mild              |
|                   | Renal Tubule  | Regeneration   | Minimal           |
|                   |               | Inflammation   | Subacute, Minimal |
| Ovary             | Lobules       | Necrosis       | Minimal           |
|                   |               | Cyst           |                   |
| Note: CYST        |               |                |                   |
| Pituitary Gland   | Pars Distalis | Hyperplasia    | Minimal           |
| Uterus            |               | Hyperplasia    | Cystic, Moderate  |
| Note: HYPERPLASIA |               |                |                   |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 397

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 491

**DOSE:** 0.0275% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87043465

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex   | Adrenal Gland - Medulla    | Brain                   | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric | Nose                      |
| Ovary                    | Pancreas                   | Parathyroid Gland       | Pituitary Gland           |
| Salivary Glands          | Skin                       | Stomach - Forestomach   | Stomach - Glandular       |
| Trachea                  | Urinary Bladder            |                         |                           |

**OBSERVATIONS**

|                             |                    |                                  |                      |
|-----------------------------|--------------------|----------------------------------|----------------------|
| Bone                        |                    | Osteosarcoma                     |                      |
| Note: OSTEOSARC             | TGLs = 3-21        |                                  |                      |
| Bone Marrow                 |                    | Hypercellularity                 | Mild                 |
| Kidney                      |                    | Osteosarcoma                     | Metastatic (Bone)    |
| Note: OSTEOSARC             | TGLs = 4-22,5-23   |                                  |                      |
| Liver                       |                    | Osteosarcoma                     | Metastatic (Bone)    |
| Note: OSTEOSARC             | TGLs = 6-24        |                                  |                      |
| Lung                        |                    | Hemorrhage                       | Marked               |
|                             |                    | Infiltration Cellular            | Histiocyte, Moderate |
|                             |                    | Osteosarcoma                     | Metastatic (Bone)    |
| [ Osteosarcoma TGLS = 7-2 ] |                    |                                  |                      |
| Lymph Node                  | Mediastinal        | Osteosarcoma                     | Metastatic (Bone)    |
| Note: OSTEOSARC             | TGLs = 8-25,8-25-1 |                                  |                      |
| Mammary Gland               |                    | Hyperplasia                      | Cystic, Minimal      |
| Spleen                      |                    | Hematopoietic Cell Proliferation | Moderate             |
| Thymus                      |                    | Depletion Cellular               | Moderate             |
| Thyroid Gland               |                    | Degeneration                     | Cystic, Mild         |
| Uterus                      |                    | Hyperplasia                      | Cystic, Minimal      |
| Note: HYPERPLASIA           | TGLs = 2-7         |                                  |                      |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 398

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 735

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043466

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Mammary Gland           |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Salivary Glands           | Skin                     | Trachea                    |                         |

**MISSING**

Thymus

**OBSERVATIONS**

|   |                     |                                  |                      |
|---|---------------------|----------------------------------|----------------------|
| Brain   | Thalamus            | Mineralization                   | Minimal              |
| Kidney  |                     | Cyst                             |                      |
|   | Renal Tubule        | Regeneration                     | Minimal              |
| Liver   |                     | Basophilic Focus                 |                      |
|   |                     | Clear Cell Focus                 |                      |
|   |                     | Hepatocellular Adenoma           | Multiple, Two        |
|   |                     | Hepatocellular Carcinoma         |                      |
|   |                     | Hyperplasia                      | Focal, Mild          |
| <p>Note: CLEAR CELL FOCUS ON SLIDES 23 AND 6<br/>         Note: HYPERPLASIA TGLs = 3-23<br/>         Note: HEPATOCLR CARC TGLs = 1-21</p> |                     |                                  |                      |
| Lung  |                     | Hyperplasia                      | Lymphoid, Mild       |
| Lymph Node  | Mesenteric          | Hemorrhage                       | Minimal              |
| Mesentery   | Fat                 | Necrosis                         | Marked               |
| <p>Note: NECROSIS TGLs = 2-22</p>   |                     |                                  |                      |
| Ovary   |                     | Cyst                             |                      |
| Spleen  |                     | Hematopoietic Cell Proliferation | Minimal              |
|   |                     | Pigmentation                     | Hemosiderin, Mild    |
| Stomach   | Glandular           | Cyst                             |                      |
|   | Forestomach, Mucosa | Hyperplasia                      | Moderate             |
|   | Forestomach         | Inflammation                     | Suppurative, Minimal |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 398

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 735

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043466

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: HYPERPLASIA TGLs = 4-4-1

Thyroid Gland

Urinary Bladder

Uterus

Degeneration

Hyperplasia

Hydrometra

Hyperplasia

Cystic, Minimal

Lymphoid, Minimal

Moderate

Cystic, Mild

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 399

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 735

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043467

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    |
| Lymph Node - Mesenteric | Mammary Gland             | Nose                     | Ovary                      |
| Parathyroid Gland       | Pituitary Gland           | Salivary Glands          | Skin                       |
| Spleen                  | Stomach - Forestomach     | Stomach - Glandular      | Thymus                     |
| Thyroid Gland           | Trachea                   |                          |                            |

**OBSERVATIONS**

|   |              |                          |                   |
|---|--------------|--------------------------|-------------------|
| Islets, Pancreatic  |              | Hyperplasia              | Minimal           |
| Kidney  | Renal Tubule | Atrophy                  | Mild              |
|   |              | Hyperplasia              | Lymphoid, Minimal |
|   |              | Mineralization           | Mild              |
|   | Renal Tubule | Regeneration             | Minimal           |
| Liver   |              | Hepatocellular Adenoma   |                   |
|   |              | Hepatocellular Carcinoma |                   |
| Note: HEPATOCLR CARC TGLs = 1-21<br>Note: HEPATOCLR ADEN TGLs = 2-22<br>Note: A PORTION OF HEPATOCELLULAR CARCINOMA IS ON SLIDE 6 |              |                          |                   |
| Pancreas  |              | Hyperplasia              | Lymphoid, Mild    |
| Urinary Bladder   |              | Hyperplasia              | Lymphoid, Minimal |
| Uterus  |              | Hyperplasia              | Cystic, Moderate  |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 400

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 735

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043468

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Brain                   |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Mammary Gland             | Nose                     | Pancreas                   | Parathyroid Gland       |
| Salivary Glands           | Skin                     | Stomach - Forestomach      | Stomach - Glandular     |
| Thymus                    | Trachea                  |                            |                         |

**OBSERVATIONS**

|                                  |                |                        |                   |
|----------------------------------|----------------|------------------------|-------------------|
| Bone Marrow                      |                | Angiectasis            | Moderate          |
| Kidney                           |                | Casts Protein          | Minimal           |
|                                  |                | Mineralization         | Minimal           |
|                                  | Renal Tubule   | Regeneration           | Minimal           |
| Liver                            |                | Hepatocellular Adenoma |                   |
| Note: HEPATOCLR ADEN TGLs = 2-21 |                |                        |                   |
| Lung                             |                | Hyperplasia            | Lymphoid, Minimal |
| Ovary                            |                | Cyst                   |                   |
| Note: CYST TGLs = 1-7            |                |                        |                   |
| Pituitary Gland                  | Pars Distalis  | Adenoma                |                   |
|                                  | Pars Distalis  | Hyperplasia            | Moderate          |
| Spleen                           |                | Hemangioma             |                   |
| Thyroid Gland                    | Follicular Cel | Hyperplasia            | Minimal           |
| Urinary Bladder                  |                | Hyperplasia            | Lymphoid, Minimal |
| Uterus                           |                | Hyperplasia            | Cystic, Moderate  |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 401

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 735

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043469

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric | Mammary Gland             |
| Nose                     | Pituitary Gland            | Salivary Glands         | Skin                      |
| Stomach - Forestomach    | Trachea                    |                         |                           |

**MISSING**

Parathyroid Gland

**OBSERVATIONS**

|                      |                |                        |                   |
|----------------------|----------------|------------------------|-------------------|
| Adrenal Gland        | Cortex         | Hyperplasia            | Focal, Mild       |
| Brain                | Thalamus       | Mineralization         | Mild              |
| Kidney               |                | Hyperplasia            | Lymphoid, Minimal |
|                      |                | Mineralization         | Minimal           |
| Liver                | Renal Tubule   | Regeneration           | Minimal           |
|                      |                | Hemorrhage             | Moderate          |
|                      |                | Hepatocellular Adenoma |                   |
|                      | Lobules        | Necrosis               | Minimal           |
| Note: HEPATOCLR ADEN |                |                        |                   |
| TGLs = 5-22          |                |                        |                   |
| Note: HEMORRHAGE     |                |                        |                   |
| TGLs = 6-23          |                |                        |                   |
| Lung                 |                | Hyperplasia            | Lymphoid, Mild    |
| Mesentery            | Fat            | Necrosis               | Moderate          |
| Note: NECROSIS       |                |                        |                   |
| TGLs = 4-21          |                |                        |                   |
| Ovary                |                | Cyst                   |                   |
| Note: CYST           |                |                        |                   |
| TGLs = 1-7           |                |                        |                   |
| Pancreas             |                | Hyperplasia            | Lymphoid, Minimal |
| Spleen               | Red Pulp       | Hyperplasia            | Mild              |
| Note: HYPERPLASIA    |                |                        |                   |
| TGLs = 3-6           |                |                        |                   |
| Stomach              | Glandular      | Cyst                   |                   |
| Thymus               |                | Cyst                   |                   |
| Thyroid Gland        | Follicular Cel | Hyperplasia            | Minimal           |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 401 | <b>TRT#:</b> 19               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 735 |
|                       | <b>DOSE:</b> 0.0275% CHLORINE | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87043469 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                 |             |                  |
|-----------------|-------------|------------------|
| Urinary Bladder | Hyperplasia | Lymphoid, Mild   |
| Uterus          | Hydrometra  | Marked           |
|                 | Hyperplasia | Cystic, Moderate |

Note: HYDROMETRA TGLs = 2-7  
Note: HYPERPLASIA TGLs = 2-7

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 402

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 673

**DOSE:** 0.0275% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87043470

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Medulla  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Mammary Gland  
Parathyroid Gland  
Stomach - Forestomach  
Urinary Bladder

Bone  
Heart  
Intestine Small - Duodenum  
Kidney  
Nose  
Pituitary Gland  
Stomach - Glandular

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mandibular  
Ovary  
Skin  
Thymus

Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mesenteric  
Pancreas  
Spleen  
Trachea

**OBSERVATIONS**

Adrenal Gland  
Brain  
Liver  
Lung

Cortex  
Thalamus

Accessory Adrenal Cortical Nodule  
Mineralization  
Angiectasis  
Alveolar/Bronchiolar Carcinoma  
Infiltration Cellular

Minimal  
Mild  
Histiocyte, Marked

Note: INFILTRAT CELL TGLs = 3-2  
[ Infiltration Cellular TGLS = 2-2 ]

Salivary Glands  
Thyroid Gland  
Uterus

Hyperplasia  
Degeneration  
Hyperplasia  
Polyp Stromal

Lymphoid, Minimal  
Cystic, Minimal  
Cystic, Minimal

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 403

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 735

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043471

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone Marrow                | Brain                   | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   |
| Mammary Gland            | Nose                       | Ovary                   | Pancreas                  |
| Parathyroid Gland        | Salivary Glands            | Skin                    | Spleen                    |
| Stomach - Forestomach    | Stomach - Glandular        | Thymus                  | Trachea                   |
| Urinary Bladder          |                            |                         |                           |

**OBSERVATIONS**

|                                  |                |                                   |                   |
|----------------------------------|----------------|-----------------------------------|-------------------|
| Adrenal Gland                    | Cortex         | Accessory Adrenal Cortical Nodule |                   |
| Bone                             |                | Hyperostosis                      | Moderate          |
| Kidney                           | Renal Tubule   | Atrophy                           | Minimal           |
|                                  |                | Casts Protein                     | Minimal           |
|                                  |                | Hyperplasia                       | Lymphoid, Minimal |
|                                  | Renal Tubule   | Regeneration                      | Minimal           |
| Liver                            |                | Hepatocellular Adenoma            |                   |
|                                  |                | Inflammation                      | Subacute, Minimal |
| Note: HEPATOCLR ADEN TGLs = 2-21 |                |                                   |                   |
| Pituitary Gland                  | Pars Distalis  | Hyperplasia                       | Minimal           |
| Thyroid Gland                    |                | Degeneration                      | Cystic, Moderate  |
|                                  | Follicular Cel | Hyperplasia                       | Minimal           |
| Uterus                           |                | Angiectasis                       | Mild              |
|                                  |                | Hyperplasia                       | Cystic, Marked    |

Note: HYPERPLASIA TGLs = 1-7

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 404

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043472

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Mammary Gland             | Nose                     | Ovary                      | Pancreas                |
| Parathyroid Gland         | Skin                     | Stomach - Forestomach      | Stomach - Glandular     |
| Thymus                    | Thyroid Gland            | Trachea                    |                         |

**OBSERVATIONS**

|                                       |               |                        |                    |
|---------------------------------------|---------------|------------------------|--------------------|
| Brain                                 | Thalamus      | Mineralization         | Mild               |
| Kidney                                | Renal Tubule  | Regeneration           | Minimal            |
| Liver                                 |               | Clear Cell Focus       |                    |
|                                       |               | Hepatocellular Adenoma | Multiple, Two      |
|                                       |               | Histiocytic Sarcoma    |                    |
|                                       |               | Hyperplasia            | Focal, Moderate    |
| Note: CLEAR CL FOCUS TGLs = 5-22      |               |                        |                    |
| Note: HYPERPLASIA TGLs = 8-25         |               |                        |                    |
| [ Clear Cell Focus TGLs = 6-23,7-24 ] |               |                        |                    |
| Lymph Node                            | Mesenteric    | Hyperplasia            | Lymphoid, Moderate |
| Mesentery                             | Fat           | Necrosis               | Mild               |
| Note: NECROSIS TGLs = 1-21            |               |                        |                    |
| Pituitary Gland                       | Pars Distalis | Adenoma                |                    |
| Note: ADENOMA TGLs = 10-1             |               |                        |                    |
| Salivary Glands                       |               | Hyperplasia            | Lymphoid, Mild     |
| Spleen                                |               | Congestion             | Mild               |
|                                       |               | Histiocytic Sarcoma    |                    |
| Urinary Bladder                       |               | Histiocytic Sarcoma    |                    |
|                                       |               | Hyperplasia            | Lymphoid, Minimal  |
| Uterus                                |               | Hyperplasia            | Cystic, Mild       |
| Note: HYPERPLASIA TGLs = 3-7          |               |                        |                    |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 405

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043473

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone Marrow                | Brain                   |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Mammary Gland            | Nose                       | Pancreas                |
| Parathyroid Gland         | Pituitary Gland          | Skin                       | Spleen                  |
| Stomach - Forestomach     | Stomach - Glandular      | Thymus                     | Trachea                 |

**INSUFFICIENT TISSUE**

Ovary

**OBSERVATIONS**

|                               |               |                   |
|-------------------------------|---------------|-------------------|
| Bone                          | Hyperostosis  | Mild              |
| Kidney                        | Hemorrhage    | Mild              |
|                               | Hyperplasia   | Lymphoid, Minimal |
| Note: HEMORRHAGE IS IN PELVIS |               |                   |
| Liver                         | Inflammation  | Subacute, Minimal |
| Salivary Glands               | Hyperplasia   | Lymphoid, Minimal |
| Thyroid Gland                 | Degeneration  | Cystic, Mild      |
| Urinary Bladder               | Hyperplasia   | Lymphoid, Mild    |
| Uterus                        | Hyperplasia   | Cystic, Marked    |
|                               | Polyp Stromal |                   |

Note: HYPERPLASIA TGLs = 1-7

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 406

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043474

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    |
| Lymph Node - Mesenteric | Mammary Gland             | Nose                     | Pancreas                   |
| Parathyroid Gland       | Pituitary Gland           | Skin                     | Stomach - Forestomach      |
| Trachea                 | Urinary Bladder           |                          |                            |

**OBSERVATIONS**

|   |                |                                  |               |
|---|----------------|----------------------------------|---------------|
| Adrenal Gland                                 | Medulla        | Pheochromocytoma Malignant       |               |
| Note: PHEOCHROM MAL TGLs = 5-10               |                |                                  |               |
| Bone  |                | Hyperostosis                     | Mild          |
| Bone Marrow                                   |                | Hypercellularity                 |               |
| Brain   | Thalamus       | Mineralization                   | Minimal       |
| Kidney  | Renal Tubule   | Regeneration                     | Mild          |
| Liver   |                | Inflammation                     | Chronic, Mild |
|   | Hepatocyte     | Karyomegaly                      | Mild          |
| Lung  |                | Lymphoma Malignant Lymphocytic   |               |
| Lymph Node                                    | Bronchial      | Lymphoma Malignant Lymphocytic   |               |
|   | Mediastinal    | Lymphoma Malignant Lymphocytic   |               |
| Ovary   |                | Angiectasis                      | Moderate      |
| Salivary Glands                               |                | Lymphoma Malignant Lymphocytic   |               |
| Spleen  |                | Hematopoietic Cell Proliferation | Minimal       |
|   | Lymph Follic   | Hyperplasia                      | Mild          |
| Note: HEMA CELL PROL TGLs = 4-6               |                |                                  |               |
| Note: HYPERPLASIA TGLs = 4-6                  |                |                                  |               |
| Stomach                                       | Glandular      | Cyst                             |               |
| Note: SOME CYSTS LINED BY SQUAMOUS EPITHELIUM |                |                                  |               |
| Thymus  |                | Lymphoma Malignant Lymphocytic   |               |
| Thyroid Gland                                 | Follicular Cel | Hyperplasia                      | Minimal       |
| Tissue NOS                                    |                | Lymphoma Malignant Lymphocytic   |               |
| Note: LYMPH MAL LYMP TGLs = 1-62              |                |                                  |               |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 407

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 606

**DOSE:** 0.0275% CHLORINE

**DISP:** Natural Death

**HISTO:** A87043475

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Esophagus               |
| Eye                       | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Kidney                     | Liver                   |
| Lung                      | Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Mammary Gland           |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Salivary Glands           | Skin                     | Stomach - Forestomach      | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**OBSERVATIONS**

|               |              |                                   |                   |
|---------------|--------------|-----------------------------------|-------------------|
| Adrenal Gland | Cortex       | Accessory Adrenal Cortical Nodule |                   |
| Brain         | Thalamus     | Mineralization                    | Mild              |
| Ovary         |              | Cyst                              |                   |
| Spleen        | Lymph Follic | Atrophy                           | Mild              |
|               |              | Pigmentation                      | Hemosiderin, Mild |
| Stomach       | Glandular    | Erosion                           | Moderate          |
| Note: EROSION | TGLs = 5-4   |                                   |                   |
| Thymus        |              | Cyst                              |                   |
|               |              | Depletion Cellular                | Mild              |
| Thyroid Gland |              | Degeneration                      | Cystic, Minimal   |
| Uterus        |              | Hydrometra                        | Moderate          |
|               |              | Hyperplasia                       | Cystic, Moderate  |
|               |              | Polyp Stromal                     |                   |

Note: HYDROMETRA TGLs = 1-7

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 408

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043476

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric | Mammary Gland             |
| Nose                     | Pancreas                   | Parathyroid Gland       | Pituitary Gland           |
| Salivary Glands          | Skin                       | Spleen                  | Stomach - Forestomach     |
| Stomach - Glandular      | Thyroid Gland              | Trachea                 |                           |

**OBSERVATIONS**

|   |              |                                |                   |
|---|--------------|--------------------------------|-------------------|
| Adrenal Gland                                     | Cortex       | Cyst                           |                   |
| Brain   | Thalamus     | Mineralization                 | Moderate          |
| Kidney  | Renal Tubule | Regeneration                   | Minimal           |
| Liver   |              | Hepatocellular Adenoma         |                   |
| Note: HEPATOCLR ADEN TGLs = 2-21                  |              |                                |                   |
| Lung  |              | Lymphoma Malignant Lymphocytic |                   |
| Note: LYMPHOMA INVOLVES PRIMARILY THE MEDIASTINUM |              |                                |                   |
| Ovary   |              | Cyst                           |                   |
|   |              | Hyperplasia                    | Mild              |
| Note: EPITHELIAL HYPERPLASIA                      |              |                                |                   |
| Thymus  |              | Lymphoma Malignant Lymphocytic |                   |
| Urinary Bladder                                   |              | Hyperplasia                    | Lymphoid, Minimal |
| Uterus  |              | Hyperplasia                    | Cystic, Marked    |
| Note: HYPERPLASIA TGLs = 1-7                      |              |                                |                   |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 409

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 727

**DOSE:** 0.0275% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87043477

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Brain                   |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Mammary Gland           |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Skin                      | Stomach - Forestomach    | Stomach - Glandular        | Thymus                  |
| Trachea                   | Urinary Bladder          |                            |                         |

**OBSERVATIONS**

|                      |                  |                                   |                    |
|----------------------|------------------|-----------------------------------|--------------------|
| Adrenal Gland        | Cortex           | Accessory Adrenal Cortical Nodule |                    |
| Islets, Pancreatic   |                  | Hyperplasia                       | Mild               |
| Kidney               |                  | Hyperplasia                       | Lymphoid, Mild     |
|                      | Renal Tubule     | Regeneration                      | Minimal            |
| Liver                |                  | Hepatocellular Adenoma            | Multiple, Two      |
|                      |                  | Hepatocellular Carcinoma          |                    |
|                      |                  | Hyperplasia                       | Lymphoid, Minimal  |
|                      |                  | Hyperplasia                       | Focal, Moderate    |
| Note: HEPATOCLR ADEN | TGLs = 6-23,7-24 |                                   |                    |
| Note: HYPERPLASIA    | TGLs = 5-22      |                                   |                    |
| Note: HEPATOCLR CARC | TGLs = 4-21      |                                   |                    |
| Lung                 |                  | Hepatocellular Carcinoma          | Metastatic (Liver) |
| Ovary                |                  | Cyst                              |                    |
| Note: CYST           | TGLs = 1-7       |                                   |                    |
| Salivary Glands      |                  | Hyperplasia                       | Lymphoid, Mild     |
| Spleen               |                  | Hematopoietic Cell Proliferation  | Mild               |
| Note: HEMA CELL PROL | TGLs = 3-6       |                                   |                    |
| Thyroid Gland        |                  | Degeneration                      | Cystic, Mild       |
|                      | Follicular Cel   | Hyperplasia                       | Moderate           |
| Uterus               |                  | Hyperplasia                       | Cystic, Moderate   |
| Note: HYPERPLASIA    | TGLs = 2-7       |                                   |                    |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 410

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 735

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043478

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                         |                          |                            |
|---------------------------|-------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla | Bone                     | Bone Marrow                |
| Brain                     | Esophagus               | Gallbladder              | Heart                      |
| Intestine Large - Cecum   | Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Jejunum | Islets, Pancreatic      | Lung                     | Lymph Node - Mesenteric    |
| Mammary Gland             | Nose                    | Ovary                    | Parathyroid Gland          |
| Pituitary Gland           | Skin                    | Stomach - Forestomach    | Stomach - Glandular        |
| Trachea                   |                         |                          |                            |

**MISSING**

Intestine Small - Ileum

**OBSERVATIONS**

|                                  |                           |   |   |
|----------------------------------|---------------------------|---|---|
| Kidney                           | Renal Tubule              | Atrophy<br>Cyst<br>Hyperplasia<br>Mineralization                    | Moderate<br><br>Lymphoid, Mild<br>Minimal |
| Liver                            |                           | Hepatocellular Adenoma<br>Hyperplasia<br>Lymphoma Malignant Mixed   | Focal, Mild                               |
| Note: HEPATOCLR ADEN TGLs = 2-21 |                           |   |   |
| Lymph Node                       | Mandibular<br>Mediastinal | Hyperplasia<br>Lymphoma Malignant Mixed<br>Lymphoma Malignant Mixed | Lymphoid, Mild                            |
| Pancreas                         |                           | Hyperplasia   | Lymphoid, Moderate                        |
| Salivary Glands                  |                           | Lymphoma Malignant Mixed  |   |
| Spleen                           |                           | Lymphoma Malignant Mixed  |   |
| Note: LYMPH MAL MIXD TGLs = 1-6  |                           |   |   |
| Thymus                           |                           | Lymphoma Malignant Mixed  |   |
| Thyroid Gland                    |                           | Degeneration  | Cystic, Mild                              |
| Urinary Bladder                  |                           | Hyperplasia   | Lymphoid, Mild                            |
| Uterus                           |                           | Hyperplasia   | Cystic, Mild                              |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 411

**TRT#:** 20

**SEX:** Female

**DAY ON TEST:** 97

**DOSE:** 0.0275% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033871

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Bone                       | Bone Marrow             | Brain                     | Esophagus                |
| Gallbladder                | Heart                   | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Liver                      | Lung                    | Lymph Node - Mandibular   | Lymph Node - Mesenteric  |
| Mammary Gland              | Nose                    | Ovary                     | Pancreas                 |
| Parathyroid Gland          | Pituitary Gland         | Salivary Glands           | Skin                     |
| Spleen                     | Stomach - Forestomach   | Stomach - Glandular       | Thymus                   |
| Thyroid Gland              | Trachea                 | Urinary Bladder           | Uterus                   |

**MISSING**

|                        |                         |                         |
|------------------------|-------------------------|-------------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Intestine Large - Cecum |
|------------------------|-------------------------|-------------------------|

**OBSERVATIONS**

|        |              |              |         |
|--------|--------------|--------------|---------|
| Kidney | Renal Tubule | Regeneration | Minimal |
|--------|--------------|--------------|---------|

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 412

**TRT#:** 20

**SEX:** Female

**DAY ON TEST:** 98

**DOSE:** 0.0275% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033872

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lung  
Nose  
Pituitary Gland  
Stomach - Forestomach  
Trachea

Bone  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mandibular  
Ovary  
Salivary Glands  
Stomach - Glandular  
Urinary Bladder

Bone Marrow  
Heart  
Intestine Small - Duodenum  
Kidney  
Lymph Node - Mesenteric  
Pancreas  
Skin  
Thymus  
Uterus

Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Liver  
Mammary Gland  
Parathyroid Gland  
Spleen  
Thyroid Gland

**OBSERVATIONS**

Adrenal Gland

Cortex

Accessory Adrenal Cortical Nodule

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 413

**TRT#:** 20

**SEX:** Female

**DAY ON TEST:** 99

**DOSE:** 0.0275% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033873

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lung  
Nose  
Salivary Glands  
Stomach - Glandular  
Urinary Bladder

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mandibular  
Ovary  
Skin  
Thymus  
Uterus

Bone  
Gallbladder  
Intestine Large - Rectum  
Kidney  
Lymph Node - Mesenteric  
Pancreas  
Spleen  
Thyroid Gland

Bone Marrow  
Heart  
Intestine Small - Duodenum  
Liver  
Mammary Gland  
Parathyroid Gland  
Stomach - Forestomach  
Trachea

**INSUFFICIENT TISSUE**

Pituitary Gland

**OBSERVATIONS**

Islets, Pancreatic

Hyperplasia

Mild

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 414

**TRT#:** 20

**SEX:** Female

**DAY ON TEST:** 97

**DOSE:** 0.0275% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033874

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lung  
Pancreas  
Skin  
Thyroid Gland

Adrenal Gland - Medulla  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mandibular  
Parathyroid Gland  
Stomach - Forestomach  
Trachea

Bone  
Heart  
Intestine Small - Duodenum  
Kidney  
Lymph Node - Mesenteric  
Pituitary Gland  
Stomach - Glandular  
Urinary Bladder

Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Liver  
Nose  
Salivary Glands  
Thymus

**OBSERVATIONS**

Bone Marrow  
Mammary Gland  
Ovary

Hypercellularity  
Hyperplasia  
Cyst  
Developmental Malformation  
Hemorrhage

Mild  
Lobular, Mild  
  
Marked

Note: THE DEVELOP MALFOR IS INFILTRATION OF LARGE CELLS SIMILAR

Note: TO THOSE IN THE UTERINE DECIDUOMA

[ Cyst TGLS = 1-7 ]

[ Hemorrhage TGLS = 1-7 ]

Spleen

[ Hematopoietic Cell Proliferation TGLS = 3-6 ]

Uterus

Note: DECIDUOMA BGN TGLs = 2-7

Hematopoietic Cell Proliferation

Moderate

Deciduoma Benign

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 415

**TRT#:** 20

**SEX:** Female

**DAY ON TEST:** 99

**DOSE:** 0.0275% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033875

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Liver  
Mammary Gland  
Parathyroid Gland  
Spleen  
Thyroid Gland

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lung  
Nose  
Pituitary Gland  
Stomach - Forestomach  
Trachea

Bone  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mandibular  
Ovary  
Salivary Glands  
Stomach - Glandular  
Urinary Bladder

Bone Marrow  
Heart  
Intestine Small - Duodenum  
Kidney  
Lymph Node - Mesenteric  
Pancreas  
Skin  
Thymus  
Uterus

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 416

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** 0.0275% CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** A86037702

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Mammary Gland            | Nose                       | Ovary                   |
| Pancreas                  | Parathyroid Gland        | Pituitary Gland            | Salivary Glands         |
| Skin                      | Spleen                   | Stomach - Forestomach      | Stomach - Glandular     |
| Thymus                    | Thyroid Gland            | Trachea                    | Urinary Bladder         |

**OBSERVATIONS**

|                                 |              |                  |                   |
|---------------------------------|--------------|------------------|-------------------|
| Brain                           | Thalamus     | Mineralization   | Mild              |
| Kidney                          |              | Hyperplasia      | Lymphoid, Minimal |
|                                 | Renal Tubule | Regeneration     | Minimal           |
| Note: [ REGENERATION ] TGLs = 5 |              |                  |                   |
| Liver                           |              | Mixed Cell Focus |                   |
|                                 | Lobules      | Necrosis         | Mild              |
| Note: NECROSIS TGLs = 2-6       |              |                  |                   |
| Uterus                          |              | Hyperplasia      | Cystic, Mild      |
| Note: [ HYPERPLASIA ] TGLs = 7  |              |                  |                   |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                  |                         |
|-----------------------|-------------------------------|----------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 417 | <b>TRT#:</b> 19               | <b>SEX:</b> Female               | <b>DAY ON TEST:</b> 456 |
|                       | <b>DOSE:</b> 0.0275% CHLORINE | <b>DISP:</b> Scheduled Sacrifice | <b>HISTO:</b> A86037703 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Mammary Gland            | Nose                       | Ovary                   |
| Pancreas                  | Parathyroid Gland        | Pituitary Gland            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Stomach - Glandular        | Thyroid Gland           |
| Trachea                   | Urinary Bladder          |                            |                         |

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**OBSERVATIONS**

|                 |              |                |                   |
|-----------------|--------------|----------------|-------------------|
| Brain           | Thalamus     | Mineralization | Mild              |
| Kidney          |              | Hyperplasia    | Lymphoid, Minimal |
|                 | Renal Tubule | Regeneration   | Minimal           |
| Liver           |              | Inflammation   | Chronic, Minimal  |
| Salivary Glands |              | Hyperplasia    | Lymphoid, Minimal |
| Thymus          |              | Cyst           |                   |
| Uterus          |              | Hyperplasia    | Cystic, Mild      |
|                 |              | Inflammation   | Suppurative, Mild |

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 418

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 455

**DOSE:** 0.0275% CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** A86037704

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Liver                      | Lymph Node - Mandibular | Lymph Node - Mesenteric   |
| Mammary Gland            | Nose                       | Ovary                   | Pancreas                  |
| Parathyroid Gland        | Pituitary Gland            | Salivary Glands         | Skin                      |
| Spleen                   | Stomach - Forestomach      | Stomach - Glandular     | Trachea                   |

**OBSERVATIONS**

|                 |              |                                   |                     |
|-----------------|--------------|-----------------------------------|---------------------|
| Adrenal Gland   | Cortex       | Accessory Adrenal Cortical Nodule |                     |
| Brain           | Thalamus     | Mineralization                    | Mild                |
| Kidney          |              | Glomerulosclerosis                | Mild                |
|                 | Renal Tubule | Regeneration                      | Minimal             |
| Lung            |              | Hemorrhage                        | Minimal             |
| Thymus          |              | Cyst                              |                     |
| Thyroid Gland   |              | Degeneration                      | Cystic, Minimal     |
|                 |              | Infiltration Cellular             | Lymphocyte, Minimal |
| Urinary Bladder |              | Hyperplasia                       | Lymphoid, Mild      |
| Uterus          |              | Hyperplasia                       | Cystic, Mild        |

Note: HYPERPLASIA TGLs = 1-7

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 419

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 456

**DOSE:** 0.0275% CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** A86037705

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Liver                      | Lung                    | Lymph Node - Mandibular   |
| Lymph Node - Mesenteric  | Mammary Gland              | Nose                    | Ovary                     |
| Pancreas                 | Parathyroid Gland          | Pituitary Gland         | Salivary Glands           |
| Skin                     | Spleen                     | Stomach - Forestomach   | Stomach - Glandular       |
| Thymus                   | Thyroid Gland              | Trachea                 | Urinary Bladder           |

**OBSERVATIONS**

|                 |              |                |                  |
|-----------------|--------------|----------------|------------------|
| Adrenal Gland   | Cortex       | Hyperplasia    | Focal, Minimal   |
| Brain           | Thalamus     | Mineralization | Mild             |
| Harderian Gland |              | Adenoma        |                  |
| Kidney          | Renal Tubule | Regeneration   | Minimal          |
| Uterus          |              | Hyperplasia    | Cystic, Moderate |

Note: HYPERPLASIA TGLs = 1-7

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                  |                         |
|-----------------------|-------------------------------|----------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 420 | <b>TRT#:</b> 19               | <b>SEX:</b> Female               | <b>DAY ON TEST:</b> 457 |
|                       | <b>DOSE:</b> 0.0275% CHLORINE | <b>DISP:</b> Scheduled Sacrifice | <b>HISTO:</b> A86037706 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Kidney                     | Lung                    | Lymph Node - Mandibular   |
| Mammary Gland            | Nose                       | Pancreas                | Parathyroid Gland         |
| Pituitary Gland          | Salivary Glands            | Skin                    | Spleen                    |
| Stomach - Forestomach    | Stomach - Glandular        | Thymus                  | Thyroid Gland             |
| Trachea                  | Urinary Bladder            |                         |                           |

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**OBSERVATIONS**

|                   |                       |                |                   |
|-------------------|-----------------------|----------------|-------------------|
| Adrenal Gland     | Cortex                | Hyperplasia    | Focal, Minimal    |
| Brain             | Thalamus              | Mineralization | Minimal           |
| Liver             |                       | Inflammation   | Subacute, Minimal |
| Lymph Node        | Lymphatic, Mesenteric | Dilatation     | Moderate          |
| Ovary             |                       | Cyst           |                   |
| Note: CYST        | TGLs = 2-7            |                |                   |
| Uterus            |                       | Hyperplasia    | Cystic, Moderate  |
| Note: HYPERPLASIA | TGLs = 1-7            |                |                   |

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                            |                         |
|-----------------------|-------------------------------|----------------------------|-------------------------|
| <b>ANIMAL ID:</b> 421 | <b>TRT#:</b> 23               | <b>SEX:</b> Female         | <b>DAY ON TEST:</b> 517 |
|                       | <b>DOSE:</b> 0.0140% CHLORINE | <b>DISP:</b> Natural Death | <b>HISTO:</b> A87043606 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Kidney                     | Liver                   |
| Lymph Node - Mandibular   | Lymph Node - Mesenteric  | Mammary Gland              | Nose                    |
| Ovary                     | Pituitary Gland          | Salivary Glands            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Stomach - Glandular        | Thymus                  |
| Thyroid Gland             | Trachea                  | Urinary Bladder            |                         |

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**OBSERVATIONS**

|                   |                |                       |              |
|-------------------|----------------|-----------------------|--------------|
| Brain             | Thalamus       | Mineralization        | Mild         |
| Lung              |                | Congestion            | Moderate     |
| Note: CONGESTION  | TGLs = 3-2     |                       |              |
| Pancreas          |                | Focal Cellular Change |              |
| Parathyroid Gland |                | Cyst                  |              |
| Uterus            |                | Hydrometra            | Moderate     |
|                   |                | Hyperplasia           | Cystic, Mild |
| Note: HYDROMETRA  | TGLs = 1-7,2-7 |                       |              |

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 422

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043607

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    |
| Lymph Node - Mesenteric | Mammary Gland             | Ovary                    | Parathyroid Gland          |
| Pituitary Gland         | Skin                      | Stomach - Forestomach    | Stomach - Glandular        |
| Trachea                 |                           |                          |                            |

**OBSERVATIONS**

|                                  |                |                              |                   |
|----------------------------------|----------------|------------------------------|-------------------|
| Kidney                           |                | Hyperplasia                  | Lymphoid, Minimal |
|                                  |                | Mineralization               | Minimal           |
|                                  | Renal Tubule   | Regeneration                 | Minimal           |
| Liver                            |                | Hepatocellular Adenoma       |                   |
| Note: HEPATOCLR ADEN TGLs = 3-21 |                |                              |                   |
| Lung                             |                | Alveolar/Bronchiolar Adenoma |                   |
| Nose                             | Glands         | Hyperplasia                  | Cystic, Minimal   |
| Pancreas                         |                | Hyperplasia                  | Lymphoid, Minimal |
| Salivary Glands                  |                | Hyperplasia                  | Lymphoid, Mild    |
| Spleen                           | Lymph Follic   | Hyperplasia                  | Mild              |
| Note: HYPERPLASIA TGLs = 2-6     |                |                              |                   |
| Thymus                           |                | Cyst                         |                   |
|                                  |                | Depletion Cellular           | Mild              |
| Thyroid Gland                    |                | Degeneration                 | Cystic, Mild      |
|                                  | Follicular Cel | Hyperplasia                  | Minimal           |
| Urinary Bladder                  |                | Hyperplasia                  | Lymphoid, Mild    |
| Uterus                           |                | Hydrometra                   | Marked            |
|                                  |                | Hyperplasia                  | Cystic, Mild      |

[ Hydrometra TGLS = 1-7 ]

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 423

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043608

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Mammary Gland            | Nose                       | Ovary                   |
| Pituitary Gland           | Skin                     | Stomach - Forestomach      | Stomach - Glandular     |
| Thymus                    | Trachea                  |                            |                         |

**MISSING**

Urinary Bladder

**OBSERVATIONS**

|  |              |                        |                   |
|--|--------------|------------------------|-------------------|
| Brain                                      | Thalamus     | Mineralization         | Minimal           |
| Kidney                                     |              | Hyperplasia            | Lymphoid, Minimal |
|  |              | Mineralization         | Minimal           |
|  | Renal Tubule | Regeneration           | Mild              |
| Liver                                      |              | Hepatocellular Adenoma | Multiple, Three   |
|  |              | Hyperplasia            | Focal, Mild       |
| Note: HEPATOCLR ADEN TGLs = 4-21,5-22,6-23 |              |                        |                   |
| Pancreas                                   |              | Cyst                   |                   |
| Note: CYST TGLs = 1-7                      |              |                        |                   |
| Parathyroid Gland                          |              | Cyst                   |                   |
| Salivary Glands                            |              | Hyperplasia            | Lymphoid, Minimal |
| Spleen                                     | Lymph Follic | Hyperplasia            | Mild              |
| Thyroid Gland                              |              | Degeneration           | Cystic, Minimal   |
| Uterus                                     |              | Hydrometra             | Marked            |
|  |              | Hyperplasia            | Cystic, Mild      |
| Note: HYDROMETRA TGLs = 2-7,3-7            |              |                        |                   |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 424

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043609

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Medulla | Bone                      | Esophagus                | Gallbladder                |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    |
| Lymph Node - Mesenteric | Mammary Gland             | Nose                     | Pancreas                   |
| Parathyroid Gland       | Salivary Glands           | Skin                     | Stomach - Forestomach      |
| Stomach - Glandular     | Thymus                    | Trachea                  |                            |

**OBSERVATIONS**

|                 |               |                          |                   |
|-----------------|---------------|--------------------------|-------------------|
| Adrenal Gland   | Cortex        | Hyperplasia              | Focal, Mild       |
| Bone Marrow     |               | Hypercellularity         |                   |
| Brain           | Thalamus      | Mineralization           | Mild              |
| Heart           | Myocardium    | Fibrosis                 | Mild              |
| Kidney          | Renal Tubule  | Regeneration             | Minimal           |
| Liver           |               | Hepatocellular Adenoma   |                   |
|                 |               | Lymphoma Malignant Mixed |                   |
| Lung            |               | Lymphoma Malignant Mixed |                   |
| Ovary           |               | Angiectasis              | Moderate          |
| Pituitary Gland | Pars Distalis | Hyperplasia              | Minimal           |
| Spleen          |               | Lymphoma Malignant Mixed |                   |
| Thyroid Gland   |               | Degeneration             | Cystic, Minimal   |
| Urinary Bladder |               | Hyperplasia              | Lymphoid, Minimal |
| Uterus          |               | Hyperplasia              | Cystic, Moderate  |
|                 |               | Lymphoma Malignant Mixed |                   |

Note: HYPERPLASIA TGLs = 1-7

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 425

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043610

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Mammary Gland             | Nose                     | Parathyroid Gland          | Pituitary Gland         |
| Salivary Glands           | Skin                     | Stomach - Forestomach      | Stomach - Glandular     |
| Thyroid Gland             | Trachea                  |                            |                         |

**MISSING**

Ovary

**OBSERVATIONS**

|                                  |                |                                  |                   |
|----------------------------------|----------------|----------------------------------|-------------------|
| Brain                            | Thalamus       | Mineralization                   | Minimal           |
| Kidney                           |                | Casts Protein                    | Minimal           |
|                                  | Renal Tubule   | Regeneration                     | Minimal           |
| Liver                            |                | Hepatocellular Carcinoma         |                   |
| Note: HEPATOCLR CARC TGLs = 3-22 |                |                                  |                   |
| Lung                             |                | Fibrosis                         | Mild              |
|                                  | Alveolar Epith | Hyperplasia                      | Mild              |
| Mesentery                        | Fat            | Necrosis                         | Moderate          |
| [ Necrosis TGLS = 1-21 ]         |                |                                  |                   |
| Pancreas                         |                | Hyperplasia                      | Lymphoid, Mild    |
| Spleen                           |                | Hematopoietic Cell Proliferation | Minimal           |
| Thymus                           |                | Thymoma Malignant                |                   |
| [ Thymoma Malignant TGLS = 4-2 ] |                |                                  |                   |
| Urinary Bladder                  |                | Hyperplasia                      | Lymphoid, Minimal |
| Uterus                           | Myometrium     | Fibrosis                         | Mild              |
|                                  |                | Hydrometra                       | Marked            |
|                                  |                | Hyperplasia                      | Cystic, Mild      |
| Note: HYDROMETRA TGLs = 2-7      |                |                                  |                   |
| Note: [ FIBROSIS ] TGLs = 7      |                |                                  |                   |

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 425

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043610

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 426

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043611

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Mammary Gland             | Nose                     | Ovary                      | Pancreas                |
| Parathyroid Gland         | Salivary Glands          | Skin                       | Spleen                  |
| Stomach - Forestomach     | Stomach - Glandular      | Thymus                     | Trachea                 |

**OBSERVATIONS**

|                      |                |                          |                   |
|----------------------|----------------|--------------------------|-------------------|
| Brain                | Thalamus       | Mineralization           | Mild              |
| Kidney               |                | Hyperplasia              | Lymphoid, Minimal |
| Liver                |                | Hepatocellular Adenoma   |                   |
|                      |                | Hepatocellular Carcinoma |                   |
| Note: HEPATOCLR CARC | TGLs = 3-21    |                          |                   |
| Note: HEPATOCLR ADEN | TGLs = 4-22    |                          |                   |
| Lung                 |                | Hyperplasia              | Lymphoid, Minimal |
| Pituitary Gland      | Pars Distalis  | Adenoma                  |                   |
| Thyroid Gland        | Follicular Cel | Hyperplasia              | Moderate          |
| Urinary Bladder      |                | Hyperplasia              | Lymphoid, Mild    |
| Uterus               |                | Hydrometra               | Mild              |
| Note: HYDROMETRA     | TGLs = 1-7,2-7 |                          |                   |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 427

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043612

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Medulla    | Bone Marrow             | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Lymph Node - Mandibular  |
| Lymph Node - Mesenteric    | Mammary Gland           | Nose                      | Pancreas                 |
| Parathyroid Gland          | Salivary Glands         | Skin                      | Spleen                   |
| Stomach - Forestomach      | Stomach - Glandular     | Thymus                    | Trachea                  |

**OBSERVATIONS**

|                    |               |                |                   |
|--------------------|---------------|----------------|-------------------|
| Adrenal Gland      | Cortex        | Cyst           |                   |
| Bone               |               | Hyperostosis   | Mild              |
| Brain              | Thalamus      | Mineralization | Mild              |
| Islets, Pancreatic |               | Hyperplasia    | Minimal           |
| Kidney             | Renal Tubule  | Regeneration   | Minimal           |
| Liver              | Lobules       | Necrosis       | Minimal           |
| Lung               |               | Hyperplasia    | Lymphoid, Minimal |
| Ovary              |               | Cyst           |                   |
| Pituitary Gland    | Pars Distalis | Hyperplasia    | Minimal           |
| Thyroid Gland      |               | Degeneration   | Cystic, Minimal   |
| Urinary Bladder    |               | Hyperplasia    | Lymphoid, Minimal |
| Uterus             |               | Hyperplasia    | Cystic, Mild      |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 428

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 561

**DOSE:** 0.0140% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87043613

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Kidney                     | Liver                   | Lung                      |
| Lymph Node - Mandibular  | Mammary Gland              | Nose                    | Pancreas                  |
| Parathyroid Gland        | Pituitary Gland            | Salivary Glands         | Skin                      |
| Spleen                   | Stomach - Glandular        | Trachea                 | Urinary Bladder           |

**OBSERVATIONS**

|   |                     |                    |                |
|---|---------------------|--------------------|----------------|
| Adrenal Gland                                       | Cortex              | Hyperplasia        | Focal, Minimal |
| Brain   | Thalamus            | Mineralization     | Mild           |
| Lymph Node  | Mesenteric          | Hemorrhage         | Mild           |
| Note: MINIMAL NECROSIS IN MESENTERIC NODE-NOT CODED |                     |                    |                |
| Ovary   |                     | Cyst               |                |
| Stomach   | Forestomach, Mucosa | Hyperplasia        | Minimal        |
| Thymus  |                     | Depletion Cellular | Mild           |
| Thyroid Gland                                       |                     | Degeneration       | Cystic, Mild   |
| Uterus  |                     | Angiectasis        | Mild           |
|   |                     | Hydrometra         | Marked         |
|   |                     | Hyperplasia        | Cystic, Marked |
|   |                     | Polyp Stromal      |                |

Note: HYDROMETRA TGLs = 1-7-1

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 429

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 735

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043614

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex     | Adrenal Gland - Medulla | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Mammary Gland              | Nose                    | Parathyroid Gland         | Pituitary Gland          |
| Skin                       | Stomach - Forestomach   | Stomach - Glandular       | Thymus                   |
| Thyroid Gland              | Trachea                 | Urinary Bladder           |                          |

**OBSERVATIONS**

|                                   |                  |                                  |                      |
|-----------------------------------|------------------|----------------------------------|----------------------|
| Bone                              |                  | Hyperostosis                     | Moderate             |
| Bone Marrow                       |                  | Lymphoma Malignant Mixed         |                      |
| Brain                             | Thalamus         | Mineralization                   | Mild                 |
| Kidney                            |                  | Lymphoma Malignant Mixed         |                      |
|                                   |                  | Mineralization                   | Minimal              |
|                                   | Renal Tubule     | Regeneration                     | Minimal              |
| Liver                             |                  | Hepatocellular Adenoma           | Multiple, Three      |
|                                   |                  | Lymphoma Malignant Mixed         |                      |
| Lung                              |                  | Alveolar/Bronchiolar Carcinoma   |                      |
|                                   |                  | Hyperplasia                      | Lymphoid, Mild       |
|                                   |                  | Infiltration Cellular            | Histiocyte, Moderate |
| Note: ALV BRON CARC TGLs = 8-2    |                  |                                  |                      |
| Lymph Node                        | Iliac, Lymphatic | Dilatation                       | Moderate             |
|                                   | Mesenteric       | Hematopoietic Cell Proliferation | Mild                 |
|                                   | Mesenteric       | Hemorrhage                       | Minimal              |
|                                   | Mandibular       | Hyperplasia                      | Lymphoid, Mild       |
|                                   | Renal            | Lymphoma Malignant Mixed         |                      |
| Note: HEMORRHAGE TGLs = 7-5       |                  |                                  |                      |
| Note: MEDIASTINAL IS MISSING      |                  |                                  |                      |
| Note: HEMA CELL PROL TGLs = 7-5   |                  |                                  |                      |
| Note: LYMPH MAL MIXD TGLs = 10-24 |                  |                                  |                      |
| Note: DILATATION TGLs = 11-25     |                  |                                  |                      |
| Ovary                             |                  | Cyst                             |                      |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 429

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 735

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043614

**ORGAN AND ACCOUNTABLE SITE STATUS**

Note: CYST TGLs = 1-7

Pancreas  
Salivary Glands  
Spleen

Lymphoma Malignant Mixed  
Hyperplasia  
Hematopoietic Cell Proliferation  
Lymphoma Malignant Mixed

Lymphoid, Minimal  
Minimal

Note: HEMA CELL PROL TGLs = 3-6

Note: LYMPH MAL MIXD TGLs = 3-6

Uterus

Angiectasis  
Hydrometra  
Hyperplasia

Mild  
Moderate  
Cystic, Moderate

Note: HYPERPLASIA TGLs = 2-7

Note: HYDROMETRA TGLs = 2-7

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 430

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043615

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      | Lung                    |
| Lymph Node - Mandibular   | Mammary Gland            | Nose                       | Ovary                   |
| Pancreas                  | Parathyroid Gland        | Salivary Glands            | Skin                    |
| Stomach - Forestomach     | Stomach - Glandular      | Thyroid Gland              | Trachea                 |

**OBSERVATIONS**

|                              |                 |                |                   |
|------------------------------|-----------------|----------------|-------------------|
| Brain                        | Thalamus        | Mineralization | Minimal           |
| Kidney                       | Renal Tubule    | Atrophy        | Minimal           |
|                              | Interstitialium | Pigmentation   | Minimal           |
|                              | Renal Tubule    | Regeneration   | Minimal           |
| Lymph Node                   | Mesenteric      | Hyperplasia    | Lymphoid, Mild    |
| Pituitary Gland              | Pars Distalis   | Hyperplasia    | Minimal           |
| Spleen                       | Red Pulp        | Hyperplasia    | Moderate          |
| Note: HYPERPLASIA TGLs = 1-6 |                 |                |                   |
| Thymus                       |                 | Angiectasis    | Mild              |
|                              |                 | Cyst           |                   |
| Urinary Bladder              |                 | Hyperplasia    | Lymphoid, Minimal |
| Uterus                       |                 | Angiectasis    | Mild              |
|                              |                 | Hyperplasia    | Cystic, Mild      |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 431

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043616

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex     | Adrenal Gland - Medulla | Bone Marrow               | Esophagus                |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Mammary Gland              | Nose                    | Ovary                     | Parathyroid Gland        |
| Pituitary Gland            | Salivary Glands         | Skin                      | Stomach - Forestomach    |
| Stomach - Glandular        | Thymus                  | Trachea                   |                          |

**OBSERVATIONS**

|                      |             |                                  |                 |
|----------------------|-------------|----------------------------------|-----------------|
| Bone                 |             | Hyperostosis                     | Moderate        |
| Brain                | Thalamus    | Mineralization                   | Moderate        |
| Gallbladder          |             | Lymphoma Malignant Mixed         |                 |
| Harderian Gland      |             | Hyperplasia                      | Focal, Moderate |
| Kidney               |             | Lymphoma Malignant Mixed         |                 |
| Liver                |             | Lymphoma Malignant Mixed         |                 |
| Note: LYMPH MAL MIXD | TGLs = 4-6  |                                  |                 |
| Lung                 |             | Lymphoma Malignant Mixed         |                 |
| Lymph Node           | Iliac       | Lymphoma Malignant Mixed         |                 |
|                      | Mandibular  | Lymphoma Malignant Mixed         |                 |
|                      | Mediastinal | Lymphoma Malignant Mixed         |                 |
|                      | Mesenteric  | Lymphoma Malignant Mixed         |                 |
|                      | Pancreatic  | Lymphoma Malignant Mixed         |                 |
|                      | Renal       | Lymphoma Malignant Mixed         |                 |
| Note: LYMPH MAL MIXD | TGLs = 3-21 |                                  |                 |
| Note: LYMPH MAL MIXD | TGLs = 5-22 |                                  |                 |
| Note: LYMPH MAL MIXD | TGLs = 6-23 |                                  |                 |
| Note: LYMPH MAL MIXD | TGLs = 7-2  |                                  |                 |
| Mesentery            |             | Lymphoma Malignant Mixed         |                 |
| Pancreas             |             | Lymphoma Malignant Mixed         |                 |
| Spleen               |             | Hematopoietic Cell Proliferation | Mild            |
|                      |             | Lymphoma Malignant Mixed         |                 |
| Note: HEMA CELL PROL | TGLs = 2-6  |                                  |                 |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 431

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043616

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: LYMPH MAL MIXD TGLs = 2-6

Thyroid Gland  
Urinary Bladder  
Uterus

Degeneration  
Lymphoma Malignant Mixed  
Hyperplasia  
Lymphoma Malignant Mixed

Cystic, Mild  
  
Cystic, Marked

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Note: HYPERPLASIA TGLs = 1-7

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                            |                         |
|-----------------------|-------------------------------|----------------------------|-------------------------|
| <b>ANIMAL ID:</b> 432 | <b>TRT#:</b> 23               | <b>SEX:</b> Female         | <b>DAY ON TEST:</b> 362 |
|                       | <b>DOSE:</b> 0.0140% CHLORINE | <b>DISP:</b> Natural Death | <b>HISTO:</b> A86037689 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                         |                          |                            |                         |
|-------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus               | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Lymph Node - Mandibular |
| Mammary Gland           | Nose                     | Salivary Glands            | Skin                    |
| Stomach - Forestomach   | Stomach - Glandular      | Thyroid Gland              | Trachea                 |
| Urinary Bladder         | Uterus                   |                            |                         |

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**MISSING**

|                   |                 |        |
|-------------------|-----------------|--------|
| Parathyroid Gland | Pituitary Gland | Spleen |
|-------------------|-----------------|--------|

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**AUTO PRECLUDES DIAG.**

|                         |                           |                    |                         |
|-------------------------|---------------------------|--------------------|-------------------------|
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic | Lymph Node - Mesenteric |
| Pancreas                |                           |                    |                         |

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**OBSERVATIONS**

|                  |              |                    |          |
|------------------|--------------|--------------------|----------|
| Brain            | Thalamus     | Mineralization     | Mild     |
| Kidney           | Renal Tubule | Necrosis           | Moderate |
|                  | Renal Tubule | Pigmentation       | Moderate |
| Liver            | Lobules      | Necrosis           | Moderate |
| Note: NECROSIS   | TGLs = 4-6   |                    |          |
| Lung             |              | Leukocytosis       | Mild     |
| Ovary            |              | Hemorrhage         | Marked   |
| Note: HEMORRHAGE | TGLs = 3-21  |                    |          |
| Thymus           |              | Depletion Cellular | Mild     |

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 433

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 453

**DOSE:** 0.0140% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A86037690

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex   | Adrenal Gland - Medulla    | Bone                    | Bone Marrow               |
| Esophagus                | Gallbladder                | Heart                   | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Lymph Node - Mesenteric | Nose                      |
| Ovary                    | Parathyroid Gland          | Pituitary Gland         | Salivary Glands           |
| Stomach - Forestomach    | Stomach - Glandular        | Thymus                  | Trachea                   |

**OBSERVATIONS**

|                                 |               |                                  |                    |
|---------------------------------|---------------|----------------------------------|--------------------|
| Brain                           | Thalamus      | Mineralization                   | Minimal            |
| Intestine Large                 | Cecum         | Edema                            | Mild               |
| Kidney                          |               | Hyperplasia                      | Lymphoid, Mild     |
|                                 | Renal Tubule  | Regeneration                     | Minimal            |
| Liver                           |               | Hematopoietic Cell Proliferation | Mild               |
|                                 | Centrilobular | Necrosis                         | Mild               |
| Lymph Node                      | Mandibular    | Fibrosarcoma                     | Metastatic (Skin)  |
|                                 | Mandibular    | Hyperplasia                      | Lymphoid, Moderate |
| Mammary Gland                   |               | Hyperplasia                      | Cystic, Minimal    |
| Pancreas                        |               | Cytoplasmic Alteration           | Moderate           |
| Skin                            | Subcut Tiss   | Fibrosarcoma                     |                    |
| Note: FIBROSARC TGLs = 1-21     |               |                                  |                    |
| Spleen                          |               | Hematopoietic Cell Proliferation | Marked             |
| Note: HEMA CELL PROL TGLs = 2-6 |               |                                  |                    |
| Thyroid Gland                   |               | Degeneration                     | Cystic, Moderate   |
| Urinary Bladder                 |               | Hyperplasia                      | Lymphoid, Minimal  |
| Uterus                          |               | Hyperplasia                      | Cystic, Mild       |
| Note: HYPERPLASIA TGLs = 3-5    |               |                                  |                    |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 434 | <b>TRT#:</b> 23               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 733 |
|                       | <b>DOSE:</b> 0.0140% CHLORINE | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87043617 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex   | Adrenal Gland - Medulla    | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   |
| Mammary Gland            | Nose                       | Ovary                   | Pancreas                  |
| Parathyroid Gland        | Spleen                     | Stomach - Forestomach   | Stomach - Glandular       |
| Thymus                   | Thyroid Gland              | Trachea                 |                           |

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**MISSING**

Pituitary Gland

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**OBSERVATIONS**

|                 |              |                |                    |
|-----------------|--------------|----------------|--------------------|
| Bone            |              | Hyperostosis   | Minimal            |
| Brain           | Thalamus     | Mineralization | Mild               |
| Kidney          | Renal Tubule | Regeneration   | Minimal            |
| Liver           | Lobules      | Necrosis       | Minimal            |
| Salivary Glands |              | Hyperplasia    | Lymphoid, Mild     |
| Skin            | Subcut Tiss  | Fibrosarcoma   |                    |
| Note: FIBROSARC | TGLs = 1-21  |                |                    |
| Urinary Bladder |              | Hyperplasia    | Lymphoid, Moderate |
| Uterus          |              | Hyperplasia    | Cystic, Minimal    |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 435

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 726

**DOSE:** 0.0140% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87043618

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Gallbladder  
Intestine Large - Rectum  
Lung  
Nose  
Salivary Glands  
Trachea

Adrenal Gland - Medulla  
Heart  
Intestine Small - Ileum  
Lymph Node - Mandibular  
Ovary  
Skin

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Jejunum  
Lymph Node - Mesenteric  
Parathyroid Gland  
Spleen

Esophagus  
Intestine Large - Colon  
Islets, Pancreatic  
Mammary Gland  
Pituitary Gland  
Thyroid Gland

**OBSERVATIONS**

Bone  
Brain  
Intestine Small  
Kidney  
  
Liver  
  
Pancreas  
Stomach  
  
Thymus  
Urinary Bladder  
Uterus

Thalamus  
Duodenum  
Renal Tubule  
  
Renal Tubule  
  
Hepatocyte  
  
Forestomach, Mucosa  
Glandular

Osteosarcoma  
Mineralization  
Ulcer  
Atrophy  
Mineralization  
Regeneration  
Hyperplasia  
Vacuolization Cytoplasmic  
  
Cytoplasmic Alteration  
Hyperplasia  
Metaplasia  
Depletion Cellular  
Hyperplasia  
Angiectasis  
Hydrometra  
Hyperplasia

Mild  
Mild  
Mild  
Minimal  
Moderate  
Focal, Moderate  
Mild  
  
Moderate  
Mild  
Squamous, Mild  
Mild  
Lymphoid, Minimal  
Mild  
Mild  
Cystic, Mild

Note: HYPERPLASIA TGLs = 3-21

Note: HYDROMETRA TGLs = 1-7

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 436      **TRT#:** 23      **SEX:** Female      **DAY ON TEST:** 681  
**DOSE:** 0.0140% CHLORINE      **DISP:** Moribund Sacrifice      **HISTO:** A87043619

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Medulla    | Bone                    | Bone Marrow               | Esophagus                |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Lymph Node - Mandibular    | Lymph Node - Mesenteric | Nose                      | Pancreas                 |
| Parathyroid Gland          | Salivary Glands         | Skin                      | Stomach - Forestomach    |
| Stomach - Glandular        | Thymus                  | Thyroid Gland             | Trachea                  |

**OBSERVATIONS**

|                                       |               |                                   |                  |
|---------------------------------------|---------------|-----------------------------------|------------------|
| Adrenal Gland                         | Cortex        | Accessory Adrenal Cortical Nodule |                  |
| Brain                                 | Thalamus      | Mineralization                    | Mild             |
| Gallbladder                           |               | Hyperplasia                       | Lymphoid, Mild   |
| Harderian Gland                       |               | Adenoma                           |                  |
| Note: ADENOMA      TGLs = 4-22        |               |                                   |                  |
| Kidney                                | Renal Tubule  | Metaplasia                        | Osseous, Minimal |
|                                       |               | Regeneration                      | Minimal          |
| Liver                                 |               | Clear Cell Focus                  |                  |
|                                       |               | Hepatocellular Carcinoma          |                  |
|                                       | Kupffer Cell  | Hyperplasia                       | Mild             |
| Note: HEPATOCLR CARC      TGLs = 1-21 |               |                                   |                  |
| Lung                                  |               | Hyperplasia                       | Lymphoid, Mild   |
| Mammary Gland                         |               | Hyperplasia                       | Cystic, Minimal  |
| Ovary                                 |               | Angiectasis                       | Mild             |
|                                       |               | Cyst                              |                  |
| Pituitary Gland                       | Pars Distalis | Hyperplasia                       | Mild             |
| Spleen                                |               | Hematopoietic Cell Proliferation  | Marked           |
| Note: HEMA CELL PROL      TGLs = 3-6  |               |                                   |                  |
| Urinary Bladder                       |               | Hyperplasia                       | Lymphoid, Mild   |
| Uterus                                |               | Hydrometra                        | Moderate         |
|                                       |               | Hyperplasia                       | Cystic, Mild     |
| Note: HYDROMETRA      TGLs = 2-7      |               |                                   |                  |

PRIMARY CAUSE OF DEATH      -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 437

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043620

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric | Mammary Gland             |
| Nose                     | Pancreas                   | Parathyroid Gland       | Salivary Glands           |
| Skin                     | Spleen                     | Stomach - Forestomach   | Thymus                    |
| Trachea                  | Urinary Bladder            |                         |                           |

**OBSERVATIONS**

|                                  |                |                                   |                  |
|----------------------------------|----------------|-----------------------------------|------------------|
| Adrenal Gland                    | Cortex         | Accessory Adrenal Cortical Nodule |                  |
| Brain                            | Thalamus       | Mineralization                    | Mild             |
| Kidney                           |                | Casts Protein                     | Minimal          |
|                                  |                | Mineralization                    | Minimal          |
|                                  | Renal Tubule   | Regeneration                      | Minimal          |
| Liver                            |                | Clear Cell Focus                  |                  |
|                                  |                | Hepatocellular Adenoma            |                  |
| Note: HEPATOCLR ADEN TGLs = 5-22 |                |                                   |                  |
| Lung                             |                | Hyperplasia                       | Lymphoid, Mild   |
| Mesentery                        | Fat            | Necrosis                          | Marked           |
| Note: NECROSIS TGLs = 1-21       |                |                                   |                  |
| Ovary                            |                | Cystadenoma                       |                  |
| Note: CYSTADENOMA TGLs = 2-7,3-7 |                |                                   |                  |
| Pituitary Gland                  | Pars Distalis  | Adenoma                           |                  |
| Stomach                          | Glandular      | Cyst                              |                  |
| Thyroid Gland                    | Follicular Cel | Hyperplasia                       | Minimal          |
| Uterus                           |                | Hyperplasia                       | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 4-7     |                |                                   |                  |

**PRIMARY CAUSE OF DEATH** -

**Animal Note:** TRACHEA PRESENT ON SLIDE 2

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 438

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 268

**DOSE:** 0.0140% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A86037691

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex   | Adrenal Gland - Medulla    | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   |
| Mammary Gland            | Nose                       | Parathyroid Gland       | Pituitary Gland           |
| Salivary Glands          | Skin                       | Spleen                  | Stomach - Forestomach     |
| Thymus                   | Trachea                    |                         |                           |

**OBSERVATIONS**

|   |              |                           |                   |
|---|--------------|---------------------------|-------------------|
| Bone  |              | Osteosarcoma              |                   |
| Note: OSTEOSARC   | TGLs = 3-1-1 |                           |                   |
| Brain   |              | Hemorrhage                | Moderate          |
|   |              | Hydrocephalus             | Mild              |
|   | Thalamus     | Mineralization            | Mild              |
|   |              | Necrosis                  | Mild              |
| [ Mineralization TGLS = 2-1 ]                               |              |                           |                   |
| Kidney  |              | Casts Protein             | Minimal           |
|   | Renal Tubule | Regeneration              | Minimal           |
| Liver   |              | Inflammation              | Subacute, Mild    |
|   | Hepatocyte   | Vacuolization Cytoplasmic | Marked            |
| Note: THE CYTOPLASMIC VACUOLIZATION APPEARS TO BE GLYCOGEN. |              |                           |                   |
| Note: VACUOLIZ CYTO   | TGLs = 1-6   |                           |                   |
| Ovary   |              | Angiectasis               | Moderate          |
| Pancreas  |              | Cytoplasmic Alteration    | Moderate          |
| Stomach   | Glandular    | Cyst                      |                   |
| Thyroid Gland   |              | Degeneration              | Cystic, Minimal   |
| Urinary Bladder   |              | Hyperplasia               | Lymphoid, Minimal |
| Uterus  |              | Hyperplasia               | Cystic, Minimal   |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 439 | <b>TRT#:</b> 23               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 728 |
|                       | <b>DOSE:</b> 0.0140% CHLORINE | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87043621 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Medulla    | Bone                    | Bone Marrow               | Esophagus                |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Kidney                     | Lymph Node - Mandibular | Lymph Node - Mesenteric   | Mammary Gland            |
| Parathyroid Gland          | Pituitary Gland         | Salivary Glands           | Stomach - Glandular      |
| Trachea                    | Urinary Bladder         |                           |                          |

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**MISSING**

Gallbladder

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**INSUFFICIENT TISSUE**

Thymus

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**OBSERVATIONS**

|   |                     |                                   |                    |
|---|---------------------|-----------------------------------|--------------------|
| Adrenal Gland                                   | Cortex              | Accessory Adrenal Cortical Nodule |                    |
| Brain   | Thalamus            | Mineralization                    | Mild               |
| Liver   |                     | Hepatocellular Adenoma            |                    |
|   |                     | Hepatocellular Carcinoma          | Four, Multiple     |
|   | Kupffer Cell        | Hyperplasia                       | Mild               |
| Note: HEPATOCLR CARC TGLs = 5-23,6-24,7-25,8-26 |                     |                                   |                    |
| Note: CARCINOMA ON SLIDE 23 IS NECROTIC         |                     |                                   |                    |
| Note: HEPATOCLR ADEN TGLs = 9-27                |                     |                                   |                    |
| Lung  |                     | Hepatocellular Carcinoma          | Metastatic (Liver) |
| Note: HEPATOCLR CARC TGLs = 10-2                |                     |                                   |                    |
| Nose  | Glands              | Hyperplasia                       | Cystic, Minimal    |
| Ovary   |                     | Cyst                              |                    |
| Pancreas  |                     | Hyperplasia                       | Lymphoid, Minimal  |
| Skin  | Subcut Tiss         | Fibrosarcoma                      |                    |
| Note: FIBROSARC TGLs = 1-21,2-22                |                     |                                   |                    |
| Spleen  |                     | Hematopoietic Cell Proliferation  | Marked             |
| Note: HEMA CELL PROL TGLs = 4-6                 |                     |                                   |                    |
| Stomach   | Forestomach, Mucosa | Hyperplasia                       | Minimal            |
| Thyroid Gland                                   |                     | Degeneration                      | Cystic, Mild       |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 439

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 728

**DOSE:** 0.0140% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87043621

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Uterus

Hydrometra

Marked

Hyperplasia

Cystic, Mild

Note: HYDROMETRA TGLs = 3-7

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 440

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 575

**DOSE:** 0.0140% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87043622

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex     | Adrenal Gland - Medulla | Bone                      | Esophagus                |
| Gallbladder                | Heart                   | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Mammary Gland            |
| Parathyroid Gland          | Pituitary Gland         | Salivary Glands           | Skin                     |
| Stomach - Glandular        | Thyroid Gland           | Trachea                   |                          |

**OBSERVATIONS**

|                    |             |                                  |         |
|--------------------|-------------|----------------------------------|---------|
| Bone Marrow        |             | Hypercellularity                 | Mild    |
| Brain              | Thalamus    | Mineralization                   | Mild    |
| Intestine Large    | Cecum       | Lymphoma Malignant Mixed         |         |
| Islets, Pancreatic |             | Hyperplasia                      | Minimal |
| Kidney             |             | Lymphoma Malignant Mixed         |         |
|                    |             | Mineralization                   | Minimal |
| Liver              |             | Hematopoietic Cell Proliferation | Marked  |
|                    | Lobules     | Necrosis                         | Minimal |
|                    | Hepatocyte  | Vacuolization Cytoplasmic        | Mild    |
| Lung               |             | Lymphoma Malignant Mixed         |         |
| Lymph Node         | Mesenteric  | Hemorrhage                       | Marked  |
|                    | Axillary    | Lymphoma Malignant Mixed         |         |
|                    | Mandibular  | Lymphoma Malignant Mixed         |         |
|                    | Mediastinal | Lymphoma Malignant Mixed         |         |
|                    | Mesenteric  | Lymphoma Malignant Mixed         |         |
|                    | Pancreatic  | Lymphoma Malignant Mixed         |         |
|                    | Renal       | Lymphoma Malignant Mixed         |         |

Note: LYMPH MAL MIXD TGLs = 10-2  
 Note: LYMPH MAL MIXD TGLs = 3-21  
 Note: LYMPH MAL MIXD TGLs = 9-5  
 Note: LYMPH MAL MIXD TGLs = 8-24  
 Note: LYMPH MAL MIXD TGLs = 7-23  
 Note: LYMPH MAL MIXD TGLs = 2-22

Mesentery Lymphoma Malignant Mixed

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 440 | <b>TRT#:</b> 23               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 575 |
|                       | <b>DOSE:</b> 0.0140% CHLORINE | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87043622 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                      |              |                                  |                 |
|----------------------|--------------|----------------------------------|-----------------|
| Nose                 | Glands       | Hyperplasia                      | Cystic, Minimal |
| Ovary                |              | Cyst                             |                 |
| Note: CYST           | TGLs = 4-7-1 |                                  |                 |
| Pancreas             |              | Lymphoma Malignant Mixed         |                 |
| Spleen               |              | Hematopoietic Cell Proliferation | Mild            |
|                      |              | Lymphoma Malignant Mixed         |                 |
| Note: HEMA CELL PROL | TGLs = 1-6   |                                  |                 |
| Stomach              | Forestomach  | Ulcer                            | Minimal         |
| Thymus               |              | Lymphoma Malignant Mixed         |                 |
| Urinary Bladder      |              | Lymphoma Malignant Mixed         |                 |
| Uterus               |              | Hyperplasia                      | Cystic, Mild    |
| Note: HYPERPLASIA    | TGLs = 5-7   |                                  |                 |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 441

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 558

**DOSE:** 0.0140% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87043623

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Kidney                   | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Mammary Gland            | Nose                       | Ovary                   |
| Pancreas                  | Parathyroid Gland        | Pituitary Gland            | Salivary Glands         |
| Skin                      | Stomach - Forestomach    | Thyroid Gland              | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**OBSERVATIONS**

|                                  |           |                                  |              |
|----------------------------------|-----------|----------------------------------|--------------|
| Brain                            | Thalamus  | Mineralization                   | Mild         |
| Islets, Pancreatic               |           | Hyperplasia                      | Minimal      |
| Liver                            |           | Hepatocellular Carcinoma         |              |
| Note: HEPATOCLR CARC TGLs = 3-22 |           |                                  |              |
| Mesentery                        | Fat       | Necrosis                         | Moderate     |
| Note: NECROSIS TGLs = 2-21       |           |                                  |              |
| Spleen                           |           | Hematopoietic Cell Proliferation | Minimal      |
| Stomach                          | Glandular | Cyst                             |              |
| Thymus                           |           | Depletion Cellular               | Mild         |
| Uterus                           |           | Hydrometra                       | Moderate     |
|                                  |           | Hyperplasia                      | Cystic, Mild |
| Note: HYDROMETRA TGLs = 1-7      |           |                                  |              |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 442

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 716

**DOSE:** 0.0140% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87043624

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Medulla    | Bone                    | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Kidney                     | Lymph Node - Mandibular | Lymph Node - Mesenteric   | Mammary Gland            |
| Nose                       | Parathyroid Gland       | Salivary Glands           | Skin                     |
| Spleen                     | Stomach - Glandular     | Thyroid Gland             | Trachea                  |
| Urinary Bladder            |                         |                           |                          |

**OBSERVATIONS**

|                                |                     |                                |                      |
|--------------------------------|---------------------|--------------------------------|----------------------|
| Adrenal Gland                  | Cortex              | Hyperplasia                    | Focal, Mild          |
| Bone Marrow                    |                     | Hypercellularity               | Mild                 |
| Brain                          | Thalamus            | Mineralization                 | Mild                 |
| Liver                          | Lobules             | Inflammation                   | Subacute, Moderate   |
|                                |                     | Necrosis                       | Mild                 |
| Note: INFLAMMATION TGLs = 3-6  |                     |                                |                      |
| Lung                           |                     | Alveolar/Bronchiolar Carcinoma |                      |
|                                |                     | Hyperplasia                    | Lymphoid, Minimal    |
| Note: ALV BRON CARC TGLs = 4-2 |                     |                                |                      |
| Ovary                          |                     | Cyst                           |                      |
| Pancreas                       |                     | Cytoplasmic Alteration         | Marked               |
| Pituitary Gland                | Pars Distalis       | Hyperplasia                    | Mild                 |
| Stomach                        | Forestomach         | Edema                          | Mild                 |
|                                | Forestomach, Mucosa | Hyperplasia                    | Mild                 |
|                                | Forestomach         | Inflammation                   | Suppurative, Minimal |
| Thymus                         |                     | Cyst                           |                      |
| Uterus                         |                     | Hydrometra                     | Marked               |
|                                |                     | Hyperplasia                    | Cystic, Moderate     |
| Note: HYDROMETRA TGLs = 1-7-1  |                     |                                |                      |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 443

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 735

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043625

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex   | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Liver                    | Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   |
| Mammary Gland            | Nose                       | Pancreas                | Parathyroid Gland         |
| Pituitary Gland          | Salivary Glands            | Skin                    | Spleen                    |
| Stomach - Forestomach    | Stomach - Glandular        | Thyroid Gland           | Trachea                   |

**OBSERVATIONS**

|   |              |                         |                   |
|---|--------------|-------------------------|-------------------|
| Adrenal Gland   | Medulla      | Pheochromocytoma Benign |                   |
| Brain   | Thalamus     | Mineralization          | Mild              |
| Islets, Pancreatic  |              | Hyperplasia             | Minimal           |
| Kidney  | Renal Tubule | Atrophy                 | Minimal           |
|   |              | Hyperplasia             | Lymphoid, Minimal |
|   |              | Mineralization          | Minimal           |
|   | Renal Tubule | Regeneration            | Minimal           |
| Ovary   |              | Angiectasis             | Marked            |
|   |              | Cyst                    |                   |
| Note: AREAS OF ANGIECTASIS INCLUDES ORGANIZED AND MINERALIZED |              |                         |                   |
| Note: HEMORRHAGE  |              |                         |                   |
| Note: ANGIECTASIS TGLs = 2-22                                 |              |                         |                   |
| Thymus  |              | Cyst                    |                   |
| Urinary Bladder   |              | Hyperplasia             | Lymphoid, Mild    |
| Uterus  |              | Hyperplasia             | Cystic, Mild      |
| Note: HYPERPLASIA TGLs = 3-7                                  |              |                         |                   |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 444

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 735

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043626

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Esophagus                  | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Mammary Gland           |
| Nose                      | Ovary                    | Pancreas                   | Parathyroid Gland       |
| Pituitary Gland           | Salivary Glands          | Skin                       | Stomach - Forestomach   |
| Trachea                   | Urinary Bladder          |                            |                         |

**MISSING**

Gallbladder

**OBSERVATIONS**

|                      |                    |                                   |                     |
|----------------------|--------------------|-----------------------------------|---------------------|
| Adrenal Gland        | Cortex             | Accessory Adrenal Cortical Nodule |                     |
|                      | Cortex             | Hematopoietic Cell Proliferation  | Moderate            |
| Bone Marrow          |                    | Hypercellularity                  | Marked              |
| Brain                | Thalamus           | Mineralization                    | Mild                |
| Heart                | Myocardium         | Fibrosis                          | Minimal             |
| Kidney               | Renal Tubule       | Dilatation                        | Mild                |
|                      | Renal Tubule       | Regeneration                      | Marked              |
| Liver                |                    | Hematopoietic Cell Proliferation  | Marked              |
|                      |                    | Hepatocellular Adenoma            | Multiple, Two       |
|                      | Lobules            | Necrosis                          | Minimal             |
| Lung                 |                    | Hyperplasia                       | Lymphoid, Minimal   |
| Lymph Node           | Mesenteric         | Hematopoietic Cell Proliferation  | Moderate            |
| Mesentery            | Fat                | Necrosis                          | Moderate            |
| Note: NECROSIS       | TGLs = 5-21        |                                   |                     |
| Spleen               |                    | Hematopoietic Cell Proliferation  | Marked              |
| Note: HEMA CELL PROL | TGLs = 4-6         |                                   |                     |
| Stomach              | Glandular          | Inflammation                      | Subacute, Mild      |
| Thymus               |                    | Depletion Cellular                | Moderate            |
| Thyroid Gland        |                    | Degeneration                      | Cystic, Moderate    |
| Uterus               |                    | Inflammation                      | Suppurative, Marked |
| Note: INFLAMMATION   | TGLs = 1-7,2-7,3-7 |                                   |                     |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 444

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 735

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043626

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 445

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 658

**DOSE:** 0.0140% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87043627

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Medulla | Bone Marrow               | Esophagus                | Gallbladder                |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    |
| Lymph Node - Mesenteric | Mammary Gland             | Ovary                    | Parathyroid Gland          |
| Pituitary Gland         | Salivary Glands           | Skin                     | Stomach - Glandular        |
| Urinary Bladder         |                           |                          |                            |

**MISSING**

Thymus

**OBSERVATIONS**

|                      |                  |                                |                   |
|----------------------|------------------|--------------------------------|-------------------|
| Adrenal Gland        | Cortex           | Alveolar/Bronchiolar Carcinoma | Metastatic (Lung) |
| Note: ALV BRON CARC  | TGLs = 2-10,2-21 |                                |                   |
| Bone                 |                  | Hyperostosis                   | Mild              |
| Brain                | Thalamus         | Mineralization                 | Minimal           |
| Heart                |                  | Alveolar/Bronchiolar Carcinoma | Metastatic (Lung) |
| Kidney               |                  | Alveolar/Bronchiolar Carcinoma | Metastatic (Lung) |
|                      |                  | Mineralization                 | Moderate          |
|                      | Renal Tubule     | Regeneration                   | Moderate          |
| Note: ALV BRON CARC  | TGLs = 3-22      |                                |                   |
| Liver                |                  | Alveolar/Bronchiolar Carcinoma | Metastatic (Lung) |
|                      |                  | Clear Cell Focus               |                   |
|                      |                  | Hepatocellular Adenoma         |                   |
|                      | Kupffer Cell     | Hyperplasia                    | Mild              |
| Note: ALV BRON CARC  | TGLs = 7-26      |                                |                   |
| Note: CLEAR CL FOCUS | TGLs = 8-27      |                                |                   |
| Note: HEPATOCLR ADEN | TGLs = 6-25      |                                |                   |
| Lung                 |                  | Alveolar/Bronchiolar Carcinoma |                   |
| Note: ALV BRON CARC  | TGLs = 9-2       |                                |                   |
| Lymph Node           | Bronchial        | Alveolar/Bronchiolar Carcinoma | Metastatic (Lung) |
|                      | Mediastinal      | Alveolar/Bronchiolar Carcinoma | Metastatic (Lung) |
| Note: ALV BRON CARC  | TGLs = 10-2      |                                |                   |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 445

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 658

**DOSE:** 0.0140% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87043627

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Alveolar/Bronchiolar Carcinoma TGLs = 10-2 ]

|                     |                     |                                  |                   |
|---------------------|---------------------|----------------------------------|-------------------|
| Mesentery           |                     | Alveolar/Bronchiolar Carcinoma   | Metastatic (Lung) |
| Note: ALV BRON CARC | TGLs = 4-23         |                                  |                   |
| Nose                |                     | Exudate                          |                   |
| Pancreas            |                     | Atrophy                          | Minimal           |
|                     |                     | Cytoplasmic Alteration           | Moderate          |
| Skeletal Muscle     |                     | Alveolar/Bronchiolar Carcinoma   | Metastatic (Lung) |
| Note: ALV BRON CARC | TGLs = 5-24         |                                  |                   |
| Spleen              |                     | Hematopoietic Cell Proliferation | Mild              |
| Stomach             | Forestomach, Mucosa | Hyperplasia                      | Mild              |
|                     | Forestomach         | Inflammation                     | Suppurative, Mild |
| Thyroid Gland       |                     | Degeneration                     | Cystic, Mild      |
| Trachea             |                     | Inflammation                     | Suppurative, Mild |
| Uterus              |                     | Hyperplasia                      | Cystic, Mild      |
|                     |                     | Metaplasia                       | Squamous, Minimal |
| Note: HYPERPLASIA   | TGLs = 1-7          |                                  |                   |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 451

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 455

**DOSE:** 0.0140% CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** 37692

---

**OBSERVATIONS**

Kidney  
[ Regeneration TGLS = 5 ]

Renal Tubule

Regeneration

Minimal

Uterus  
Note: [ HYPERPLASIA ] TGLs = 7

Hyperplasia

Cystic, Moderate

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 452

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** 0.0140% CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** 38693

---

**OBSERVATIONS**

Kidney  
[ Regeneration TGLS = 5 ]

Renal Tubule

Regeneration

Minimal

Uterus  
Note: [ HYPERPLASIA ] TGLs = 7

Hyperplasia

Cystic, Minimal

---

**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 453

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 456

**DOSE:** 0.0140% CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** 37694

---

**OBSERVATIONS**

Kidney

Renal Tubule

Regeneration

Minimal

Uterus

Hyperplasia

Cystic, Minimal

Note: [ HYPERPLASIA ] TGLs = 7

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 454

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 456

**DOSE:** 0.0140% CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** 37695

---

**OBSERVATIONS**

Kidney  
[ Regeneration TGLS = 5 ]

Renal Tubule

Regeneration

Minimal

Uterus  
[ Hyperplasia TGLS = 7 ]

Hyperplasia

Cystic, Mild

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 455

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 456

**DOSE:** 0.0140% CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** 37696

---

**OBSERVATIONS**

Kidney  
[ Regeneration TGLS = 5 ]

Renal Tubule

Regeneration

Minimal

Uterus  
[ Hyperplasia TGLS = 7 ]

Hyperplasia

Cystic, Mild

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 456

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 735

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043652

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Mammary Gland           |
| Ovary                     | Parathyroid Gland        | Salivary Glands            | Skin                    |
| Stomach - Forestomach     | Thymus                   | Thyroid Gland              | Trachea                 |

**OBSERVATIONS**

|   |               |                                  |                    |
|---|---------------|----------------------------------|--------------------|
| Brain                                     | Thalamus      | Mineralization                   | Mild               |
| Islets, Pancreatic                        |               | Hyperplasia                      | Minimal            |
| Kidney                                    |               | Hyperplasia                      | Lymphoid, Mild     |
|   | Renal Tubule  | Regeneration                     | Minimal            |
| Liver                                     |               | Hepatocellular Adenoma           | Multiple, Two      |
|   |               | Hepatocellular Carcinoma         |                    |
| Note: HEPATOCLR CARC TGLs = 3-22,4-6,4-23 |               |                                  |                    |
| Lung                                      |               | Alveolar/Bronchiolar Adenoma     |                    |
|   |               | Infiltration Cellular            | Histiocyte, Mild   |
| Note: ALV BRON ADEN TGLs = 5-2-1          |               |                                  |                    |
| Mesentery                                 | Fat           | Necrosis                         | Mild               |
| Note: NECROSIS IS ON SLIDE 7              |               |                                  |                    |
| Nose                                      | Glands        | Hyperplasia                      | Cystic, Minimal    |
| Pancreas                                  |               | Hyperplasia                      | Lymphoid, Mild     |
| Pituitary Gland                           | Pars Distalis | Adenoma                          |                    |
| [ Adenoma TGLS = 6-1 ]                    |               |                                  |                    |
| Spleen                                    |               | Hematopoietic Cell Proliferation | Mild               |
| Note: HEMA CELL PROL TGLs = 1-6           |               |                                  |                    |
| Stomach                                   | Glandular     | Cyst                             |                    |
| Urinary Bladder                           |               | Hyperplasia                      | Lymphoid, Moderate |
| Uterus                                    |               | Hyperplasia                      | Cystic, Minimal    |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 457

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 666

**DOSE:** 0.00700%CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A86040092

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex   | Adrenal Gland - Medulla    | Bone                    | Bone Marrow               |
| Esophagus                | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric | Mammary Gland             |
| Nose                     | Parathyroid Gland          | Pituitary Gland         | Spinal Cord               |
| Stomach - Forestomach    | Trachea                    |                         |                           |

**OBSERVATIONS**

|                                  |              |                                  |                   |
|----------------------------------|--------------|----------------------------------|-------------------|
| Brain                            | Thalamus     | Mineralization                   | Minimal           |
| Gallbladder                      |              | Cyst                             |                   |
| Kidney                           |              | Casts Protein                    | Minimal           |
|                                  |              | Hyperplasia                      | Lymphoid, Minimal |
|                                  |              | Mineralization                   | Minimal           |
|                                  | Renal Tubule | Regeneration                     | Mild              |
| Liver                            |              | Hepatocellular Adenoma           | Multiple, Two     |
|                                  |              | Hepatocellular Carcinoma         |                   |
|                                  | Kupffer Cell | Hyperplasia                      | Moderate          |
| Note: HEPATOCLR CARC TGLs = 5-22 |              |                                  |                   |
| Lung                             |              | Hyperplasia                      | Lymphoid, Minimal |
| Ovary                            |              | Angiectasis                      | Mild              |
| Pancreas                         |              | Cytoplasmic Alteration           | Marked            |
| Salivary Glands                  |              | Hyperplasia                      | Lymphoid, Mild    |
| Skin                             | Subcut Tiss  | Fibrosarcoma                     |                   |
| Note: FIBROSARC TGLs = 1-21      |              |                                  |                   |
| Spleen                           |              | Hematopoietic Cell Proliferation | Mild              |
| Stomach                          | Glandular    | Cyst                             |                   |
| Thymus                           |              | Cyst                             |                   |
|                                  |              | Depletion Cellular               | Mild              |
| Thyroid Gland                    |              | Degeneration                     | Cystic, Mild      |
| Urinary Bladder                  |              | Dilatation                       | Marked            |
|                                  |              | Hyperplasia                      | Lymphoid, Minimal |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 457

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 666

**DOSE:** 0.00700%CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A86040092

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: DILATATION TGLs = 2-8

Uterus

Hyperplasia

Cystic, Mild

Note: HYPERPLASIA TGLs = 3-7

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 458

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 616

**DOSE:** 0.00700%CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87043653

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Medulla    | Bone                    | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Kidney                     | Lung                    | Lymph Node - Mandibular   | Lymph Node - Mesenteric  |
| Nose                       | Pancreas                | Parathyroid Gland         | Pituitary Gland          |
| Salivary Glands            | Stomach - Forestomach   | Trachea                   | Urinary Bladder          |

**OBSERVATIONS**

|                      |                  |                                   |                 |
|----------------------|------------------|-----------------------------------|-----------------|
| Adrenal Gland        | Cortex           | Accessory Adrenal Cortical Nodule |                 |
| Bone Marrow          |                  | Hypercellularity                  | Mild            |
| Brain                | Thalamus         | Mineralization                    | Mild            |
| Liver                | Lobules          | Necrosis                          | Minimal         |
| Mammary Gland        |                  | Hyperplasia                       | Cystic, Minimal |
| Ovary                |                  | Cyst                              |                 |
| Note: CYST           | TGLs = 4-7       |                                   |                 |
| Skin                 |                  | Acanthosis                        | Mild            |
|                      |                  | Ulcer                             | Marked          |
| Note: ULCER          | TGLs = 1-21,6-23 |                                   |                 |
| Note: ACANTHOSIS     | TGLs = 2-8,2-22  |                                   |                 |
| Spleen               |                  | Hematopoietic Cell Proliferation  | Moderate        |
|                      |                  | Lymphoma Malignant Mixed          |                 |
| Note: HEMA CELL PROL | TGLs = 5-6       |                                   |                 |
| Note: LYMPH MAL MIXD | TGLs = 5-6       |                                   |                 |
| Stomach              | Glandular        | Ulcer                             | Moderate        |
| Note: ULCER          | TGLs = 7-4       |                                   |                 |
| Thymus               |                  | Depletion Cellular                | Moderate        |
| Thyroid Gland        |                  | Degeneration                      | Cystic, Minimal |
| Uterus               |                  | Hyperplasia                       | Cystic, Mild    |
| Note: HYPERPLASIA    | TGLs = 3-7       |                                   |                 |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 459

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0.00700%CHLORINE

**DISP:** Natural Death

**HISTO:** A87043654

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Brain                   |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Kidney                     | Lymph Node - Mandibular |
| Mammary Gland             | Nose                     | Ovary                      | Parathyroid Gland       |
| Skin                      | Stomach - Forestomach    | Thyroid Gland              | Trachea                 |

**OBSERVATIONS**

|                      |                       |                                   |              |
|----------------------|-----------------------|-----------------------------------|--------------|
| Adrenal Gland        | Cortex                | Accessory Adrenal Cortical Nodule |              |
| Liver                |                       | Clear Cell Focus                  |              |
| Lung                 |                       | Hemorrhage                        | Mild         |
| Note: HEMORRHAGE     | TGLs = 3-2            | Lymphoma Malignant Lymphocytic    |              |
| Lymph Node           | Lymphatic, Mesenteric | Dilatation                        | Moderate     |
|                      | Mesenteric            | Hemorrhage                        | Moderate     |
|                      | Mesenteric            | Lymphoma Malignant Lymphocytic    |              |
| Note: DILATATION     | TGLs = 1-21           |                                   |              |
| Pancreas             |                       | Cytoplasmic Alteration            | Moderate     |
| Pituitary Gland      | Pars Distalis         | Angiectasis                       | Mild         |
|                      | Pars Distalis         | Hyperplasia                       | Mild         |
| Salivary Glands      |                       | Lymphoma Malignant Lymphocytic    |              |
| Spleen               |                       | Lymphoma Malignant Lymphocytic    |              |
| Note: LYMPH MAL LYMP | TGLs = 2-6            |                                   |              |
| Stomach              | Glandular             | Erosion                           | Marked       |
| Note: EROSION        | TGLs = 4-4            |                                   |              |
| Thymus               |                       | Depletion Cellular                | Mild         |
|                      |                       | Lymphoma Malignant Lymphocytic    |              |
| Urinary Bladder      |                       | Edema                             | Moderate     |
|                      |                       | Lymphoma Malignant Lymphocytic    |              |
| Uterus               |                       | Hyperplasia                       | Cystic, Mild |
|                      |                       | Lymphoma Malignant Lymphocytic    |              |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 459

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0.00700%CHLORINE

**DISP:** Natural Death

**HISTO:** A87043654

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 460

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 735

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043655

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Medulla    | Bone Marrow             | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Lung                       | Lymph Node - Mandibular | Mammary Gland             | Nose                     |
| Pancreas                   | Parathyroid Gland       | Salivary Glands           | Skin                     |
| Stomach - Forestomach      | Stomach - Glandular     | Thymus                    | Trachea                  |

**MISSING**

Lymph Node - Mesenteric

**OBSERVATIONS**

|                      |               |                                   |                   |
|----------------------|---------------|-----------------------------------|-------------------|
| Adrenal Gland        | Cortex        | Accessory Adrenal Cortical Nodule |                   |
| Bone                 |               | Hyperostosis                      | Mild              |
| Brain                | Thalamus      | Mineralization                    | Mild              |
| Kidney               |               | Mineralization                    | Minimal           |
|                      | Renal Tubule  | Regeneration                      | Mild              |
| Liver                |               | Hyperplasia                       | Focal, Mild       |
| Note: HYPERPLASIA    | TGLs = 5-21   |                                   |                   |
| Ovary                |               | Cyst                              |                   |
| Note: CYST           | TGLs = 3-7    |                                   |                   |
| Pituitary Gland      | Pars Distalis | Hyperplasia                       | Minimal           |
| Spleen               |               | Hematopoietic Cell Proliferation  | Mild              |
| Note: HEMA CELL PROL | TGLs = 4-6    |                                   |                   |
| Thyroid Gland        |               | Degeneration                      | Cystic, Mild      |
| Urinary Bladder      |               | Hyperplasia                       | Lymphoid, Minimal |
| Uterus               |               | Hydrometra                        | Marked            |
|                      |               | Hyperplasia                       | Cystic, Moderate  |
| Note: HYDROMETRA     | TGLs = 1-7    |                                   |                   |
| Note: HYPERPLASIA    | TGLs = 2-7    |                                   |                   |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 461

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 533

**DOSE:** 0.00700%CHLORINE

**DISP:** Natural Death

**HISTO:** A87043656

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex   | Adrenal Gland - Medulla    | Bone                    | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Kidney                     | Liver                   | Mammary Gland             |
| Nose                     | Pancreas                   | Parathyroid Gland       | Pituitary Gland           |
| Salivary Glands          | Skin                       | Stomach - Forestomach   | Stomach - Glandular       |
| Trachea                  |                            |                         |                           |

**OBSERVATIONS**

|                            |                |                          |      |
|----------------------------|----------------|--------------------------|------|
| Blood Vessel               |                | Lymphoma Malignant Mixed |      |
| Note: LYMPH MAL MIXD       | TGLs = 14-27   |                          |      |
| Bone Marrow                |                | Lymphoma Malignant Mixed |      |
| Brain                      | Thalamus       | Mineralization           | Mild |
| Lung                       |                | Lymphoma Malignant Mixed |      |
| Note: LYMPH MAL MIXD       | TGLs = 12-2    |                          |      |
| Lymph Node                 | Iliac          | Lymphoma Malignant Mixed |      |
|                            | Inguinal       | Lymphoma Malignant Mixed |      |
|                            | Mandibular     | Lymphoma Malignant Mixed |      |
|                            | Mediastinal    | Lymphoma Malignant Mixed |      |
|                            | Mesenteric     | Lymphoma Malignant Mixed |      |
|                            | Renal          | Lymphoma Malignant Mixed |      |
| Note: LYMPH MAL MIXD       | TGLs = 16-8    |                          |      |
| [ Lymphoma Malignant Mixed | TGLS = 1-8 ]   |                          |      |
| [ Lymphoma Malignant Mixed | TGLS = 15-2 ]  |                          |      |
| [ Lymphoma Malignant Mixed | TGLS = 9-5 ]   |                          |      |
| [ Lymphoma Malignant Mixed | TGLS = 10-24 ] |                          |      |
| [ Lymphoma Malignant Mixed | TGLS = 11-25 ] |                          |      |
| Mesentery                  |                | Lymphoma Malignant Mixed |      |
| Note: LYMPH MAL MIXD       | TGLs = 8-23    |                          |      |
| Ovary                      |                | Lymphoma Malignant Mixed |      |
| Note: LYMPH MAL MIXD       | TGLs = 6-22    |                          |      |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                            |                         |
|-----------------------|-------------------------------|----------------------------|-------------------------|
| <b>ANIMAL ID:</b> 461 | <b>TRT#:</b> 27               | <b>SEX:</b> Female         | <b>DAY ON TEST:</b> 533 |
|                       | <b>DOSE:</b> 0.00700%CHLORINE | <b>DISP:</b> Natural Death | <b>HISTO:</b> A87043656 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|  |  |                  |
|--|--|------------------|
| Skeletal Muscle<br>Note: LYMPH MAL MIXD TGLs = 5-21                              | Lymphoma Malignant Mixed                                     |                  |
| Spleen<br><br>Note: HEMA CELL PROL TGLs = 4-6<br>Note: LYMPH MAL MIXD TGLs = 4-6 | Hematopoietic Cell Proliferation<br>Lymphoma Malignant Mixed | Moderate         |
| Thymus<br>[ Lymphoma Malignant Mixed TGLS = 13-26 ]                              | Lymphoma Malignant Mixed                                     |                  |
| Thyroid Gland  | Degeneration<br>Lymphoma Malignant Mixed                     | Cystic, Moderate |
| Urinary Bladder  | Lymphoma Malignant Mixed                                     |                  |
| Uterus<br><br>Note: HYPERPLASIA TGLs = 7-7,7-7-1                                 | Hyperplasia<br>Lymphoma Malignant Mixed                      | Cystic, Moderate |

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 462

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043657

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lymph Node - Mandibular    | Mammary Gland           | Nose                      |
| Pancreas                 | Parathyroid Gland          | Pituitary Gland         | Skin                      |
| Stomach - Forestomach    | Stomach - Glandular        | Thymus                  | Trachea                   |
| Urinary Bladder          |                            |                         |                           |

**INSUFFICIENT TISSUE**

Ovary

**OBSERVATIONS**

|                      |                 |                                   |                   |
|----------------------|-----------------|-----------------------------------|-------------------|
| Adrenal Gland        | Cortex          | Accessory Adrenal Cortical Nodule |                   |
|                      | Cortex, X-Zone  | Degeneration                      | Fatty, Mild       |
|                      | Capsule, Cortex | Hyperplasia                       | Moderate          |
| Brain                | Thalamus        | Mineralization                    | Moderate          |
| Kidney               |                 | Hyperplasia                       | Lymphoid, Minimal |
|                      | Renal Tubule    | Regeneration                      | Minimal           |
| Liver                |                 | Hepatocellular Adenoma            |                   |
|                      |                 | Inflammation                      | Subacute, Minimal |
| Note: HEPATOCLR ADEN |                 |                                   |                   |
|                      |                 |                                   |                   |
| Lung                 |                 | Hyperplasia                       | Lymphoid, Minimal |
| Lymph Node           | Mesenteric      | Hyperplasia                       | Plasma Cell, Mild |
| Salivary Glands      |                 | Hyperplasia                       | Lymphoid, Minimal |
| Spleen               |                 | Hematopoietic Cell Proliferation  | Mild              |
| Note: HEMA CELL PROL |                 |                                   |                   |
|                      |                 |                                   |                   |
| Thyroid Gland        |                 | Degeneration                      | Cystic, Mild      |
| Uterus               |                 | Angiectasis                       | Moderate          |
|                      |                 | Hydrometra                        | Moderate          |
|                      |                 | Hyperplasia                       | Cystic, Moderate  |
| Note: HYDROMETRA     |                 |                                   |                   |
|                      |                 |                                   |                   |
| Note: HYPERPLASIA    |                 |                                   |                   |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 462

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043657

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 463

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043658

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       |
| Lymph Node - Mandibular | Lymph Node - Mesenteric   | Mammary Gland            | Nose                       |
| Ovary                   | Pancreas                  | Parathyroid Gland        | Salivary Glands            |
| Skin                    | Stomach - Forestomach     | Thymus                   | Trachea                    |
| Urinary Bladder         |                           |                          |                            |

**OBSERVATIONS**

|                                  |                |                                  |                  |
|----------------------------------|----------------|----------------------------------|------------------|
| Kidney                           |                | Cyst                             |                  |
| Liver                            |                | Hepatocellular Adenoma           |                  |
|                                  |                | Mixed Cell Focus                 |                  |
|                                  | Lobules        | Necrosis                         | Marked           |
| Note: HEPATOCLR ADEN TGLs = 2-21 |                |                                  |                  |
| Note: NECROSIS TGLs = 3-22       |                |                                  |                  |
| Pituitary Gland                  | Pars Distalis  | Hyperplasia                      | Mild             |
| Spleen                           |                | Hematopoietic Cell Proliferation | Mild             |
|                                  | Lymph Follic   | Hyperplasia                      | Mild             |
|                                  | Glandular      | Cyst                             |                  |
| Stomach                          |                | Degeneration                     | Cystic, Moderate |
| Thyroid Gland                    | Follicular Cel | Hyperplasia                      | Moderate         |
|                                  |                | Hydrometra                       | Marked           |
| Uterus                           |                | Hyperplasia                      | Cystic, Moderate |
| Note: HYDROMETRA TGLs = 1-7      |                |                                  |                  |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 464

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043659

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex   | Adrenal Gland - Medulla    | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Mammary Gland           | Ovary                     |
| Pancreas                 | Parathyroid Gland          | Salivary Glands         | Skin                      |
| Stomach - Forestomach    | Stomach - Glandular        | Thymus                  | Trachea                   |
| Urinary Bladder          |                            |                         |                           |

**OBSERVATIONS**

|  |               |                          |                   |
|--|---------------|--------------------------|-------------------|
| Bone                                     |               | Hyperostosis             | Minimal           |
| Brain                                    | Thalamus      | Mineralization           | Mild              |
| Kidney                                   |               | Glomerulosclerosis       | Minimal           |
|  | Renal Tubule  | Regeneration             | Minimal           |
| Liver                                    |               | Hepatocellular Adenoma   | Multiple, Two     |
|  |               | Inflammation             | Subacute, Minimal |
|  |               | Lymphoma Malignant Mixed |                   |
| Note: HEPATOCLR ADEN TGLs = 6-23         |               |                          |                   |
| Lymph Node                               | Iliac         | Lymphoma Malignant Mixed |                   |
|  | Mandibular    | Lymphoma Malignant Mixed |                   |
|  | Mediastinal   | Lymphoma Malignant Mixed |                   |
|  | Mesenteric    | Lymphoma Malignant Mixed |                   |
|  | Renal         | Lymphoma Malignant Mixed |                   |
| Note: LYMPH MAL MIXD TGLs = 7-2          |               |                          |                   |
| Note: LYMPH MAL MIXD TGLs = 5-22         |               |                          |                   |
| [ Lymphoma Malignant Mixed TGLs = 4-21 ] |               |                          |                   |
| [ Lymphoma Malignant Mixed TGLs = 1-8 ]  |               |                          |                   |
| Mesentery                                |               | Lymphoma Malignant Mixed |                   |
| Note: LYMPHOMA IS ON SLIDE 8             |               |                          |                   |
| Nose                                     | Glands        | Hyperplasia              | Cystic, Minimal   |
| Pituitary Gland                          | Pars Distalis | Hyperplasia              | Minimal           |
| Spleen                                   |               | Lymphoma Malignant Mixed |                   |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 464 | <b>TRT#:</b> 27               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 734 |
|                       | <b>DOSE:</b> 0.00700%CHLORINE | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87043659 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                                 |                |                             |                           |
|---------------------------------|----------------|-----------------------------|---------------------------|
| Note: LYMPH MAL MIXD TGLs = 3-6 |                |                             |                           |
| Thyroid Gland                   | Follicular Cel | Hyperplasia<br>Inflammation | Mild<br>Subacute, Minimal |
| Uterus                          |                | Hyperplasia                 | Cystic, Moderate          |
| Note: HYPERPLASIA TGLs = 2-7    |                |                             |                           |
| PRIMARY CAUSE OF DEATH          | -              |                             |                           |

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 465

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 673

**DOSE:** 0.00700%CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87043660

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Mammary Gland            | Nose                       | Pancreas                |
| Parathyroid Gland         | Pituitary Gland          | Salivary Glands            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Stomach - Glandular        | Thymus                  |
| Trachea                   | Urinary Bladder          |                            |                         |

**OBSERVATIONS**

|                     |                 |                                |                    |
|---------------------|-----------------|--------------------------------|--------------------|
| Brain               | Thalamus        | Mineralization                 | Mild               |
| Kidney              | Renal Tubule    | Atrophy                        | Moderate           |
|                     | Interstitialium | Pigmentation                   | Mild               |
|                     | Renal Tubule    | Regeneration                   | Minimal            |
| Lung                |                 | Alveolar/Bronchiolar Carcinoma |                    |
|                     |                 | Hyperplasia                    | Lymphoid, Mild     |
|                     |                 | Infiltration Cellular          | Histiocyte, Marked |
| Note: ALV BRON CARC | TGLs = 3-21     |                                |                    |
| Ovary               |                 | Angiectasis                    | Mild               |
| Thyroid Gland       |                 | Degeneration                   | Cystic, Moderate   |
| Uterus              |                 | Hydrometra                     | Moderate           |
|                     |                 | Hyperplasia                    | Cystic, Minimal    |
| Note: HYDROMETRA    | TGLs = 1-7      |                                |                    |
| Note: HYPERPLASIA   | TGLs = 2-7      |                                |                    |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 466

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043661

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Medulla    | Bone Marrow             | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Liver                      | Lymph Node - Mesenteric | Mammary Gland             | Nose                     |
| Ovary                      | Pancreas                | Parathyroid Gland         | Pituitary Gland          |
| Salivary Glands            | Skin                    | Spleen                    | Stomach - Forestomach    |
| Thymus                     | Trachea                 | Urinary Bladder           |                          |

**INSUFFICIENT TISSUE**

Lymph Node - Mandibular

**OBSERVATIONS**

|                     |              |                                   |                |
|---------------------|--------------|-----------------------------------|----------------|
| Adrenal Gland       | Cortex       | Accessory Adrenal Cortical Nodule |                |
| Bone                |              | Hyperostosis                      | Moderate       |
| Brain               | Thalamus     | Mineralization                    | Mild           |
| Kidney              |              | Casts Protein                     | Minimal        |
|                     |              | Hydronephrosis                    | Minimal        |
|                     |              | Mineralization                    | Minimal        |
| Lung                |              | Alveolar/Bronchiolar Adenoma      |                |
|                     |              | Hyperplasia                       | Lymphoid, Mild |
| Note: ALV BRON ADEN | TGLs = 4-22  |                                   |                |
| Stomach             | Glandular    | Cyst                              |                |
| Thyroid Gland       |              | Degeneration                      | Cystic, Mild   |
|                     |              | Hyperplasia                       | Lymphoid, Mild |
| Uterus              |              | Hydrometra                        | Marked         |
|                     |              | Hyperplasia                       | Cystic, Marked |
| Note: HYDROMETRA    | TGLs = 2-7-1 |                                   |                |
| Note: HYPERPLASIA   | TGLs = 2-7-1 |                                   |                |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 467 | <b>TRT#:</b> 27               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 589 |
|                       | <b>DOSE:</b> 0.00700%CHLORINE | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87043662 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Salivary Glands           | Skin                     | Stomach - Forestomach      | Stomach - Glandular     |
| Thymus                    | Trachea                  |                            |                         |

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**MISSING**

|       |                 |        |
|-------|-----------------|--------|
| Ovary | Urinary Bladder | Uterus |
|-------|-----------------|--------|

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**OBSERVATIONS**

|                                      |          |                                  |                   |
|--------------------------------------|----------|----------------------------------|-------------------|
| Brain                                | Thalamus | Mineralization                   | Mild              |
| Kidney                               |          | Casts Protein                    | Minimal           |
|                                      |          | Hyperplasia                      | Lymphoid, Minimal |
| Liver                                |          | Hepatocellular Carcinoma         |                   |
| Note: HEPATOCLR CARC TGLs = 4-6,4-21 |          |                                  |                   |
| Lung                                 |          | Hemorrhage                       | Moderate          |
| Mammary Gland                        |          | Hyperplasia                      | Cystic, Minimal   |
| Spleen                               |          | Hematopoietic Cell Proliferation | Moderate          |
| Note: HEMA CELL PROL TGLs = 3-6      |          |                                  |                   |
| Thyroid Gland                        |          | Degeneration                     | Cystic, Moderate  |

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PRIMARY CAUSE OF DEATH -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 468 | <b>TRT#:</b> 27               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 734 |
|                       | <b>DOSE:</b> 0.00700%CHLORINE | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87043663 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   |
| Mammary Gland            | Nose                       | Ovary                   | Parathyroid Gland         |
| Pituitary Gland          | Salivary Glands            | Skin                    | Spleen                    |
| Stomach - Forestomach    | Stomach - Glandular        | Trachea                 |                           |

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**OBSERVATIONS**

|                                  |                |                                   |                   |
|----------------------------------|----------------|-----------------------------------|-------------------|
| Adrenal Gland                    | Cortex         | Accessory Adrenal Cortical Nodule |                   |
| Brain                            | Thalamus       | Mineralization                    | Mild              |
| Kidney                           |                | Mineralization                    | Minimal           |
|                                  | Renal Tubule   | Regeneration                      | Minimal           |
| Liver                            |                | Hepatocellular Adenoma            |                   |
| Note: HEPATOCLR ADEN TGLs = 2-21 |                |                                   |                   |
| Pancreas                         |                | Hyperplasia                       | Lymphoid, Minimal |
| Thymus                           |                | Cyst                              |                   |
| Thyroid Gland                    | Follicular Cel | Hyperplasia                       | Minimal           |
| Urinary Bladder                  |                | Hyperplasia                       | Lymphoid, Minimal |
| Uterus                           |                | Hyperplasia                       | Cystic, Mild      |
| Note: HYPERPLASIA TGLs = 1-7     |                |                                   |                   |

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 469

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 735

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043664

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Mammary Gland             | Nose                     | Pancreas                   | Parathyroid Gland       |
| Salivary Glands           | Skin                     | Spleen                     | Stomach - Forestomach   |
| Thymus                    | Trachea                  | Urinary Bladder            |                         |

**OBSERVATIONS**

|                   |               |                |                   |
|-------------------|---------------|----------------|-------------------|
| Brain             | Thalamus      | Mineralization | Mild              |
| Kidney            |               | Casts Protein  | Minimal           |
|                   |               | Hyperplasia    | Lymphoid, Minimal |
|                   |               | Metaplasia     | Osseous, Minimal  |
|                   | Renal Tubule  | Regeneration   | Minimal           |
| Liver             |               | Hyperplasia    | Focal, Moderate   |
| Note: HYPERPLASIA | TGLs = 3-21   |                |                   |
| Lung              |               | Hyperplasia    | Lymphoid, Mild    |
| Ovary             |               | Angiectasis    | Mild              |
|                   |               | Cyst           |                   |
| Pituitary Gland   | Pars Distalis | Adenoma        |                   |
| Stomach           | Glandular     | Cyst           |                   |
| Thyroid Gland     |               | Degeneration   | Cystic, Minimal   |
| Uterus            |               | Hydrometra     | Moderate          |
|                   |               | Hyperplasia    | Cystic, Mild      |
| Note: HYDROMETRA  | TGLs = 1-7    |                |                   |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 470

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043665

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Mammary Gland             | Nose                     | Ovary                      | Pancreas                |
| Parathyroid Gland         | Pituitary Gland          | Salivary Glands            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Thymus                     | Thyroid Gland           |
| Trachea                   | Urinary Bladder          |                            |                         |

**OBSERVATIONS**

|         |              |                |                   |
|---------|--------------|----------------|-------------------|
| Brain   | Thalamus     | Mineralization | Mild              |
| Kidney  | Renal Tubule | Atrophy        | Moderate          |
| Liver   |              | Hyperplasia    | Lymphoid, Minimal |
| Lung    |              | Hyperplasia    | Lymphoid, Minimal |
| Stomach | Glandular    | Cyst           |                   |
| Uterus  |              | Hyperplasia    | Cystic, Marked    |

Note: HYPERPLASIA TGLs = 1-7

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 471

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 351

**DOSE:** 0.00700%CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A86037678

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Medulla    | Bone                    | Bone Marrow               | Esophagus                |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Kidney                     | Lymph Node - Mandibular | Lymph Node - Mesenteric   | Nose                     |
| Ovary                      | Pancreas                | Pituitary Gland           | Skin                     |
| Spleen                     | Stomach - Forestomach   | Stomach - Glandular       | Trachea                  |

**MISSING**

Parathyroid Gland

**OBSERVATIONS**

|  |          |                        |                            |
|--|----------|------------------------|----------------------------|
| Adrenal Gland                            | Cortex   | Hyperplasia            | Focal, Moderate            |
| Brain                                    | Thalamus | Mineralization         | Mild                       |
| Gallbladder                              |          | Dilatation             | Moderate                   |
| Liver                                    |          | Chemodectoma Malignant | Metastatic (Thyroid Gland) |
| Note: CHEMODECTO MAL TGLs = 2-6,2-21     |          |                        |                            |
| Lung                                     |          | Chemodectoma Malignant | Metastatic (Thyroid Gland) |
| Mammary Gland                            |          | Hyperplasia            | Cystic, Minimal            |
| Salivary Glands                          |          | Hyperplasia            | Lymphoid, Minimal          |
| Thymus                                   |          | Depletion Cellular     | Moderate                   |
| Note: THE THYMUS IS PRESENT ON SLIDE #3. |          |                        |                            |
| Thyroid Gland                            |          | Chemodectoma Malignant |                            |
| Note: CHEMODECTO MAL TGLs = 3-3,3-3-1    |          |                        |                            |
| Urinary Bladder                          |          | Inflammation           | Chronic, Minimal           |
| Uterus                                   |          | Hyperplasia            | Cystic, Mild               |
| Note: HYPERPLASIA TGLs = 1-7             |          |                        |                            |

**PRIMARY CAUSE OF DEATH** -

Animal Note: THE PARATHYROID GL WAS OBSCURED BY THE THYROID GL MASS.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 472

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043666

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Liver                      | Lung                    | Lymph Node - Mesenteric   |
| Mammary Gland            | Ovary                      | Parathyroid Gland       | Salivary Glands           |
| Skin                     | Stomach - Forestomach      | Stomach - Glandular     | Thymus                    |
| Trachea                  |                            |                         |                           |

**OBSERVATIONS**

|                                 |                |                          |                    |
|---------------------------------|----------------|--------------------------|--------------------|
| Adrenal Gland                   | Cortex         | Hyperplasia              | Focal, Minimal     |
| Brain                           | Thalamus       | Mineralization           | Moderate           |
| Kidney                          |                | Casts Protein            | Minimal            |
|                                 |                | Cyst                     |                    |
|                                 |                | Lymphoma Malignant Mixed |                    |
| Lymph Node                      | Mandibular     | Hyperplasia              | Lymphoid, Mild     |
| Nose                            |                | Exudate                  |                    |
|                                 | Glands         | Hyperplasia              | Cystic, Mild       |
| Pancreas                        |                | Lymphoma Malignant Mixed |                    |
| Pituitary Gland                 | Pars Distalis  | Adenoma                  |                    |
| Spleen                          |                | Lymphoma Malignant Mixed |                    |
| Note: LYMPH MAL MIXD TGLs = 1-6 |                |                          |                    |
| Thyroid Gland                   | Follicular Cel | Hyperplasia              | Minimal            |
| Urinary Bladder                 |                | Hyperplasia              | Lymphoid, Moderate |
| Uterus                          |                | Hyperplasia              | Cystic, Minimal    |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 473

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 734

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043667

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Medulla    | Bone                    | Bone Marrow               | Esophagus                |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   | Mammary Gland            |
| Nose                       | Pancreas                | Parathyroid Gland         | Pituitary Gland          |
| Skin                       | Stomach - Forestomach   | Stomach - Glandular       | Thymus                   |
| Trachea                    |                         |                           |                          |

**MISSING**

Gallbladder

**OBSERVATIONS**

|                   |              |                                   |                   |
|-------------------|--------------|-----------------------------------|-------------------|
| Adrenal Gland     | Cortex       | Accessory Adrenal Cortical Nodule |                   |
|                   | Cortex       | Clear Cell Focus                  |                   |
| Brain             | Thalamus     | Mineralization                    | Mild              |
| Kidney            |              | Cyst                              |                   |
|                   | Renal Tubule | Regeneration                      | Minimal           |
| Liver             |              | Hyperplasia                       | Focal, Mild       |
| Note: HYPERPLASIA | TGLs = 3-21  |                                   |                   |
| Ovary             |              | Angiectasis                       | Mild              |
| Salivary Glands   |              | Hyperplasia                       | Lymphoid, Minimal |
| Spleen            | Lymph Follic | Hyperplasia                       | Moderate          |
| Note: HYPERPLASIA | TGLs = 2-6   |                                   |                   |
| Thyroid Gland     |              | Degeneration                      | Cystic, Mild      |
| Urinary Bladder   |              | Hyperplasia                       | Lymphoid, Minimal |
| Uterus            |              | Hydrometra                        | Moderate          |
|                   |              | Hyperplasia                       | Cystic, Marked    |
| Note: HYPERPLASIA | TGLs = 1-7   |                                   |                   |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 474

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043668

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    |
| Lymph Node - Mesenteric | Mammary Gland             | Ovary                    | Pancreas                   |
| Parathyroid Gland       | Pituitary Gland           | Salivary Glands          | Skin                       |
| Stomach - Forestomach   | Stomach - Glandular       | Thymus                   | Trachea                    |
| Urinary Bladder         |                           |                          |                            |

**OBSERVATIONS**

|   |              |               |                   |
|---|--------------|---------------|-------------------|
| Kidney                                  |              | Casts Protein | Minimal           |
|   | Renal Tubule | Regeneration  | Minimal           |
| Liver                                   |              | Hyperplasia   | Focal, Moderate   |
| Note: HYPERPLASIA TGLs = 2-21           |              |               |                   |
| Note: FOCAL HYPERPLASIA ALSO ON SLIDE 6 |              |               |                   |
| Lung                                    |              | Hemorrhage    | Minimal           |
|   |              | Hyperplasia   | Lymphoid, Minimal |
| Nose                                    |              | Exudate       |                   |
|   | Glands       | Hyperplasia   | Cystic, Minimal   |
| Spleen                                  |              | Pigmentation  | Hemosiderin, Mild |
| Thyroid Gland                           |              | Degeneration  | Cystic, Minimal   |
|   |              | Inflammation  | Subacute, Minimal |
| Uterus                                  |              | Carcinoma     |                   |
|   |              | Hyperplasia   | Cystic, Mild      |
| Note: HYPERPLASIA TGLs = 1-7            |              |               |                   |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 475

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043669

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Brain                   |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Nose                       | Pancreas                |
| Parathyroid Gland         | Pituitary Gland          | Salivary Glands            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Stomach - Glandular        | Thymus                  |
| Trachea                   | Urinary Bladder          |                            |                         |

**MISSING**

|                         |               |       |
|-------------------------|---------------|-------|
| Lymph Node - Mesenteric | Mammary Gland | Ovary |
|-------------------------|---------------|-------|

**OBSERVATIONS**

|                                 |                |              |                   |
|---------------------------------|----------------|--------------|-------------------|
| Adrenal Gland                   | Cortex         | Hyperplasia  | Focal, Minimal    |
| Islets, Pancreatic              |                | Hyperplasia  | Minimal           |
| Kidney                          | Renal Tubule   | Regeneration | Minimal           |
| Liver                           |                | Inflammation | Subacute, Minimal |
| Lung                            | Alveolar Epith | Hyperplasia  | Mild              |
| Mesentery                       | Fat            | Necrosis     | Moderate          |
| Note: NECROSIS      TGLs = 1-21 |                |              |                   |
| Thyroid Gland                   |                | Degeneration | Cystic, Mild      |
|                                 | Follicular Cel | Hyperplasia  | Minimal           |
| Uterus                          |                | Hyperplasia  | Cystic, Mild      |
|                                 |                | Hyperplasia  | Lymphoid, Minimal |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 476      **TRT#:** 27      **SEX:** Female      **DAY ON TEST:** 733  
**DOSE:** 0.00700%CHLORINE      **DISP:** Terminal Sacrifice      **HISTO:** A87043670

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric | Mammary Gland             |
| Nose                     | Ovary                      | Parathyroid Gland       | Salivary Glands           |
| Skin                     | Stomach - Forestomach      | Stomach - Glandular     | Thymus                    |
| Trachea                  | Urinary Bladder            |                         |                           |

**OBSERVATIONS**

|                                     |                |                                   |                   |
|-------------------------------------|----------------|-----------------------------------|-------------------|
| Adrenal Gland                       | Cortex         | Accessory Adrenal Cortical Nodule |                   |
| Brain                               | Thalamus       | Mineralization                    | Mild              |
| Kidney                              |                | Cyst                              |                   |
|                                     |                | Mineralization                    | Minimal           |
|                                     | Renal Tubule   | Regeneration                      | Minimal           |
| Liver                               |                | Hepatocellular Carcinoma          |                   |
|                                     |                | Hyperplasia                       | Focal, Minimal    |
| Note: HEPATOCLR CARC    TGLs = 2-21 |                |                                   |                   |
| Lung                                |                | Alveolar/Bronchiolar Carcinoma    |                   |
|                                     |                | Infiltration Cellular             | Histiocyte, Mild  |
| Note: ALV BRON CARC    TGLs = 3-22  |                |                                   |                   |
| Pancreas                            |                | Hyperplasia                       | Lymphoid, Minimal |
| Pituitary Gland                     | Pars Distalis  | Hyperplasia                       | Minimal           |
| Spleen                              | Lymph Follic   | Hyperplasia                       | Mild              |
| Thyroid Gland                       |                | Degeneration                      | Cystic, Mild      |
|                                     | Follicular Cel | Hyperplasia                       | Minimal           |
| Uterus                              |                | Hyperplasia                       | Cystic, Moderate  |
| Note: HYPERPLASIA    TGLs = 1-7     |                |                                   |                   |

PRIMARY CAUSE OF DEATH      -

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 477

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043671

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Mammary Gland             | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Salivary Glands           | Skin                     | Spleen                     | Stomach - Forestomach   |
| Stomach - Glandular       | Thymus                   | Trachea                    | Urinary Bladder         |

**OBSERVATIONS**

|                                 |              |                                |                   |
|---------------------------------|--------------|--------------------------------|-------------------|
| Brain                           | Thalamus     | Mineralization                 | Moderate          |
| Kidney                          | Renal Tubule | Regeneration                   | Minimal           |
| Liver                           |              | Hyperplasia                    | Lymphoid, Minimal |
| Lung                            |              | Alveolar/Bronchiolar Carcinoma |                   |
| Note: ALV BRON CARC TGLs = 2-21 |              |                                |                   |
| Nose                            | Glands       | Exudate                        |                   |
|                                 |              | Hyperplasia                    | Cystic, Minimal   |
| Ovary                           |              | Angiectasis                    | Mild              |
| Thyroid Gland                   |              | Degeneration                   | Cystic, Moderate  |
| Uterus                          |              | Angiectasis                    | Mild              |
|                                 |              | Hyperplasia                    | Cystic, Moderate  |
| Note: HYPERPLASIA TGLs = 1-7    |              |                                |                   |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 478

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 552

**DOSE:** 0.00700%CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87043672

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Mammary Gland             | Nose                     | Parathyroid Gland          | Pituitary Gland         |
| Salivary Glands           | Skin                     | Stomach - Forestomach      | Stomach - Glandular     |
| Trachea                   | Urinary Bladder          |                            |                         |

**OBSERVATIONS**

|  |                       |                        |                  |
|--|-----------------------|------------------------|------------------|
| Brain  | Thalamus              | Mineralization         | Mild             |
| Kidney   | Renal Tubule          | Dilatation             | Mild             |
|  |                       | Glomerulosclerosis     | Minimal          |
|  | Renal Tubule          | Regeneration           | Minimal          |
| Liver  |                       | Clear Cell Focus       |                  |
|  |                       | Hepatocellular Adenoma |                  |
| Note: CLEAR CELL FOCUS ALSO ON SLIDE 6         |                       |                        |                  |
| Note: CLEAR CL FOCUS TGLs = 5-23               |                       |                        |                  |
| Note: [ HEPATOCLR ADEN ] TGLs = 22             |                       |                        |                  |
| Lymph Node                                     | Lymphatic, Mesenteric | Dilatation             | Mild             |
| Mesentery                                      | Fat                   | Necrosis               | Marked           |
| Note: NECROSIS TGLs = 2-21                     |                       |                        |                  |
| Note: FAT NECROSIS ALSO ON SLIDES 7,7-1,AND 10 |                       |                        |                  |
| Ovary  |                       | Cyst                   |                  |
| Pancreas                                       |                       | Atrophy                | Mild             |
|  |                       | Cyst                   |                  |
| Note: CYST TGLs = 3-7-1                        |                       |                        |                  |
| Spleen   | Lymph Follic          | Atrophy                | Moderate         |
| Thymus   |                       | Cyst                   |                  |
|  |                       | Depletion Cellular     | Moderate         |
| Thyroid Gland                                  |                       | Degeneration           | Cystic, Mild     |
| Uterus   |                       | Hyperplasia            | Cystic, Moderate |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 478

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 552

**DOSE:** 0.00700%CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87043672

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: HYPERPLASIA TGLs = 1-7

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 479

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043673

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Mammary Gland             | Nose                     | Pancreas                   | Parathyroid Gland       |
| Pituitary Gland           | Salivary Glands          | Skin                       | Stomach - Forestomach   |
| Thymus                    | Trachea                  | Urinary Bladder            |                         |

**MISSING**

Ovary

**OBSERVATIONS**

|                              |                |                          |                 |
|------------------------------|----------------|--------------------------|-----------------|
| Brain                        | Thalamus       | Mineralization           | Mild            |
| Kidney                       | Renal Tubule   | Regeneration             | Minimal         |
| Liver                        |                | Hyperplasia              | Focal, Minimal  |
| Lymph Node                   | Mesenteric     | Hyperplasia              | Lymphoid, Mild  |
| Mesentery                    | Fat            | Necrosis                 | Moderate        |
| Note: NECROSIS TGLs = 4-21   |                |                          |                 |
| Spleen                       |                | Lymphoma Malignant Mixed |                 |
| Stomach                      | Glandular      | Cyst                     |                 |
| Thyroid Gland                | Follicular Cel | Hyperplasia              | Minimal         |
| Uterus                       |                | Hydrometra               | Moderate        |
|                              |                | Hyperplasia              | Cystic, Minimal |
| Note: HYDROMETRA TGLs = 2-7  |                |                          |                 |
| Note: HYPERPLASIA TGLs = 3-7 |                |                          |                 |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 480

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 622

**DOSE:** 0.00700%CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87043674

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex   | Adrenal Gland - Medulla    | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Liver                    | Lymph Node - Mandibular    | Lymph Node - Mesenteric | Mammary Gland             |
| Nose                     | Parathyroid Gland          | Pituitary Gland         | Salivary Glands           |
| Skin                     | Stomach - Forestomach      | Stomach - Glandular     | Thymus                    |
| Trachea                  |                            |                         |                           |

**MISSING**

|                    |          |
|--------------------|----------|
| Islets, Pancreatic | Pancreas |
|--------------------|----------|

**OBSERVATIONS**

|   |              |                                |                    |
|---|--------------|--------------------------------|--------------------|
| Bone  |              | Hyperostosis                   | Mild               |
| Brain   | Thalamus     | Mineralization                 | Mild               |
| Kidney  |              | Hyperplasia                    | Lymphoid, Mild     |
|   | Renal Tubule | Regeneration                   | Minimal            |
| Lung  |              | Alveolar/Bronchiolar Carcinoma |                    |
|   |              | Hyperplasia                    | Lymphoid, Marked   |
|   |              | Infiltration Cellular          | Histiocyte, Marked |
| Note: INFILTRAT CELL TGLs = 4-2<br>[ Infiltration Cellular TGLS = 3-2-1 ] |              |                                |                    |
| Ovary   |              | Angiectasis                    | Mild               |
|   |              | Cyst                           |                    |
| Note: CYST TGLs = 1-7   |              |                                |                    |
| Spleen  |              | Pigmentation                   | Hemosiderin, Mild  |
| Thyroid Gland   |              | Degeneration                   | Cystic, Mild       |
| Urinary Bladder   |              | Hyperplasia                    | Lymphoid, Minimal  |
| Uterus  |              | Hyperplasia                    | Cystic, Mild       |
| Note: HYPERPLASIA TGLs = 2-7  |              |                                |                    |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 486

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 455

**DOSE:** 0.00700%CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** 37679

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**OBSERVATIONS**

Uterus

Hyperplasia

Cystic, Mild

[ Hyperplasia TGLS = 7 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 487

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 456

**DOSE:** 0.00700%CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** 37680

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**OBSERVATIONS**

Uterus

Hyperplasia

Cystic, Moderate

[ Hyperplasia TGLS = 7 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 488

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** 0.00700%CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** 37681

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**OBSERVATIONS**

Uterus

Hyperplasia

Cystic, Mild

[ Hyperplasia TGLS = 7 ]

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 489

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 456

**DOSE:** 0.00700%CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** 37682

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**OBSERVATIONS**

Kidney

Renal Tubule

Regeneration

Minimal

Uterus

Hyperplasia

Cystic, Mild

Note: [ HYPERPLASIA ] TGLs = 7

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 490

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 455

**DOSE:** 0.00700%CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** 37683

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**OBSERVATIONS**

Kidney

Renal Tubule

Regeneration

Minimal

Uterus

Hyperplasia

Cystic, Mild

Note: [ HYPERPLASIA ] TGLs = 7

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 766      **TRT#:** 3      **SEX:** Female      **DAY ON TEST:** 688  
**DOSE:** VEHICLE CONTROL      **DISP:** Moribund Sacrifice      **HISTO:** A87043384

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                         |
|--------------------------|----------------------------|-------------------------|-------------------------|
| Adrenal Gland - Cortex   | Adrenal Gland - Medulla    | Bone                    | Esophagus               |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Islets, Pancreatic      |
| Kidney                   | Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric |
| Mammary Gland            | Nose                       | Parathyroid Gland       | Salivary Glands         |
| Skin                     | Stomach - Glandular        | Thymus                  | Trachea                 |
| Urinary Bladder          |                            |                         |                         |

**OBSERVATIONS**

|                                     |               |                                  |                    |
|-------------------------------------|---------------|----------------------------------|--------------------|
| Bone Marrow                         |               | Hypercellularity                 | Marked             |
| Brain                               | Thalamus      | Mineralization                   | Moderate           |
| Intestine Small                     | Jejunum       | Lymphoma Malignant Lymphocytic   |                    |
| Note: LYMPH MAL LYMP    TGLs = 4-22 |               |                                  |                    |
| Liver                               |               | Hematopoietic Cell Proliferation | Minimal            |
| Lymph Node                          | Mediastinal   | Lymphoma Malignant Lymphocytic   |                    |
| Note: LYMPH MAL LYMP    TGLs = 5-2  |               |                                  |                    |
| Mesentery                           |               | Lymphoma Malignant Lymphocytic   |                    |
| Note: LYMPH MAL LYMP    TGLs = 3-21 |               |                                  |                    |
| Ovary                               |               | Angiectasis                      | Mild               |
|                                     |               | Cyst                             |                    |
| Pancreas                            |               | Hyperplasia                      | Lymphoid, Moderate |
| Pituitary Gland                     | Pars Distalis | Angiectasis                      | Mild               |
|                                     | Pars Distalis | Hyperplasia                      | Mild               |
| Spleen                              |               | Hematopoietic Cell Proliferation | Moderate           |
| Note: HEMA CELL PROL    TGLs = 2-6  |               |                                  |                    |
| Stomach                             | Forestomach   | Diverticulum                     | Moderate           |
| Thyroid Gland                       |               | Degeneration                     | Cystic, Mild       |
| Uterus                              |               | Hydrometra                       | Marked             |
|                                     |               | Hyperplasia                      | Cystic, Mild       |
| Note: HYDROMETRA        TGLs = 1-7  |               |                                  |                    |

PRIMARY CAUSE OF DEATH      -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 767

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 681

**DOSE:** VEHICLE CONTROL

**DISP:** Moribund Sacrifice

**HISTO:** A87043385

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex     | Adrenal Gland - Medulla | Bone                      | Esophagus                |
| Gallbladder                | Heart                   | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Lymph Node - Mandibular    | Mammary Gland           | Nose                      | Ovary                    |
| Parathyroid Gland          | Pituitary Gland         | Stomach - Forestomach     | Stomach - Glandular      |
| Thymus                     | Trachea                 | Urinary Bladder           |                          |

**INSUFFICIENT TISSUE**

Intestine Large - Cecum

**OBSERVATIONS**

|                 |                    |                                  |                     |
|-----------------|--------------------|----------------------------------|---------------------|
| Bone Marrow     |                    | Hypercellularity                 | Moderate            |
| Brain           | Thalamus           | Mineralization                   | Moderate            |
| Kidney          |                    | Hyperplasia                      | Lymphoid, Minimal   |
|                 |                    | Mineralization                   | Minimal             |
|                 | Renal Tubule       | Regeneration                     | Minimal             |
| Liver           |                    | Hematopoietic Cell Proliferation | Mild                |
|                 |                    | Hepatocellular Adenoma           |                     |
|                 | Kupffer Cell       | Hyperplasia                      | Mild                |
|                 | Lobules            | Necrosis                         | Minimal             |
| Lung            |                    | Fibrosarcoma                     | Metastatic (Skin)   |
|                 |                    | Infiltration Cellular            | Histiocyte, Minimal |
| Note: FIBROSARC | TGLs = 6-2-1,7-2-1 |                                  |                     |
| Lymph Node      |                    | Fibrosarcoma                     | Metastatic (Skin)   |
|                 | Axillary           | Hematopoietic Cell Proliferation | Moderate            |
|                 | Mesenteric         | Hemorrhage                       | Minimal             |
|                 | Mesenteric         |                                  |                     |
| Note: FIBROSARC | TGLs = 3-23        |                                  |                     |
| Pancreas        |                    | Hyperplasia                      | Lymphoid, Minimal   |
| Salivary Glands | Acinus             | Hyperplasia                      | Cystic, Moderate    |
|                 |                    | Hyperplasia                      | Lymphoid, Moderate  |
| Skeletal Muscle |                    | Fibrosarcoma                     | Metastatic (Skin)   |
| Note: FIBROSARC | TGLs = 2-22        |                                  |                     |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 767

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 681

**DOSE:** VEHICLE CONTROL

**DISP:** Moribund Sacrifice

**HISTO:** A87043385

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                      |             |                                  |                  |
|----------------------|-------------|----------------------------------|------------------|
| Skin                 |             | Fibrosarcoma                     |                  |
| Note: FIBROSARC      | TGLs = 1-21 |                                  |                  |
| Spleen               |             | Hematopoietic Cell Proliferation | Marked           |
| Note: HEMA CELL PROL | TGLs = 5-6  |                                  |                  |
| Thyroid Gland        |             | Degeneration                     | Cystic, Mild     |
| Uterus               |             | Hyperplasia                      | Cystic, Moderate |
| Note: HYPERPLASIA    | TGLs = 4-7  |                                  |                  |

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 768

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87043386

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Kidney                     | Lung                    |
| Lymph Node - Mandibular   | Lymph Node - Mesenteric  | Mammary Gland              | Nose                    |
| Ovary                     | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Salivary Glands           | Skin                     | Stomach - Forestomach      | Stomach - Glandular     |
| Thymus                    | Trachea                  |                            |                         |

**OBSERVATIONS**

|  |                |                                  |                   |
|--|----------------|----------------------------------|-------------------|
| Brain  | Thalamus       | Mineralization                   | Moderate          |
| Liver  |                | Hepatocellular Adenoma           | Four, Multiple    |
|  |                | Hepatocellular Carcinoma         |                   |
| Note: HEPATOCLR CARC TGLs = 4-22             |                |                                  |                   |
| Note: HEPATOCLR ADEN TGLs = 5-23,6-24,7-25   |                |                                  |                   |
| Note: HEPATOCELLULAR ADENOMA ALSO ON SLIDE 6 |                |                                  |                   |
| Mesentery                                    |                | Hemangiosarcoma                  |                   |
| Note: HEMANGIOSARC TGLs = 2-21               |                |                                  |                   |
| Spleen                                       |                | Hematopoietic Cell Proliferation | Moderate          |
|  |                | Pigmentation                     | Hemosiderin, Mild |
| Note: HEMA CELL PROL TGLs = 3-6              |                |                                  |                   |
| Thyroid Gland                                | Follicular Cel | Adenoma                          | Cystic, Moderate  |
|  |                | Degeneration                     | Lymphoid, Minimal |
| Urinary Bladder                              |                | Hyperplasia                      | Moderate          |
| Uterus                                       |                | Hydrometra                       | Cystic, Mild      |
|  |                | Hyperplasia                      |                   |
| Note: HYDROMETRA TGLs = 1-7                  |                |                                  |                   |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 769

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A78043387

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    |
| Mammary Gland           | Nose                      | Pancreas                 | Parathyroid Gland          |
| Pituitary Gland         | Salivary Glands           | Skin                     | Spleen                     |
| Stomach - Forestomach   | Stomach - Glandular       | Thymus                   | Thyroid Gland              |
| Trachea                 |                           |                          |                            |

**OBSERVATIONS**

|   |              |                                  |                    |
|---|--------------|----------------------------------|--------------------|
| Kidney  |              | Hyperplasia                      | Lymphoid, Moderate |
|   |              | Mineralization                   | Minimal            |
|   | Renal Tubule | Regeneration                     | Minimal            |
| Liver   |              | Hepatocellular Adenoma           | Multiple, Two      |
| Note: HEPATOCLR ADEN TGLs = 2-21,4-22         |              |                                  |                    |
| Lung  |              | Alveolar/Bronchiolar Adenoma     |                    |
| [ Alveolar/Bronchiolar Adenoma TGLS = 3-2-1 ] |              |                                  |                    |
| Lymph Node                                    | Mesenteric   | Hematopoietic Cell Proliferation | Minimal            |
|   | Mesenteric   | Hemorrhage                       | Mild               |
| Ovary   |              | Cyst                             |                    |
| Note: CYST TGLs = 1-7                         |              |                                  |                    |
| Urinary Bladder                               |              | Hyperplasia                      | Lymphoid, Minimal  |
| Uterus  |              | Hyperplasia                      | Cystic, Moderate   |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 770

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87043388

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Mammary Gland            | Nose                       | Ovary                   |
| Pancreas                  | Pituitary Gland          | Skin                       | Stomach - Forestomach   |
| Trachea                   |                          |                            |                         |

**MISSING**

Parathyroid Gland

**OBSERVATIONS**

|                      |                |                                  |                   |
|----------------------|----------------|----------------------------------|-------------------|
| Brain                | Thalamus       | Mineralization                   | Mild              |
| Kidney               |                | Mineralization                   | Minimal           |
|                      | Renal Tubule   | Regeneration                     | Mild              |
| Liver                |                | Hepatocellular Adenoma           |                   |
|                      |                | Hyperplasia                      | Lymphoid, Minimal |
| Note: HEPATOCLR ADEN | TGLs = 3-21    |                                  |                   |
| Salivary Glands      |                | Hyperplasia                      | Lymphoid, Mild    |
| Spleen               |                | Hematopoietic Cell Proliferation | Minimal           |
| Stomach              | Glandular      | Cyst                             |                   |
| Thymus               |                | Cyst                             |                   |
| Thyroid Gland        | Follicular Cel | Hyperplasia                      | Minimal           |
| Urinary Bladder      |                | Hyperplasia                      | Lymphoid, Mild    |
| Uterus               |                | Hydrometra                       | Marked            |
|                      |                | Hyperplasia                      | Cystic, Mild      |
| Note: HYPERPLASIA    | TGLs = 2-7     |                                  |                   |
| Note: HYDROMETRA     | TGLs = 1-7,2-7 |                                  |                   |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                              |                                  |                         |
|-----------------------|------------------------------|----------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 771 | <b>TRT#:</b> 3               | <b>SEX:</b> Female               | <b>DAY ON TEST:</b> 16  |
|                       | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Accidentally Killed | <b>HISTO:</b> A85033606 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                        |                         |                         |                       |
|------------------------|-------------------------|-------------------------|-----------------------|
| Adrenal Gland - Cortex | Adrenal Gland - Medulla | Bone                    | Bone Marrow           |
| Esophagus              | Heart                   | Islets, Pancreatic      | Kidney                |
| Liver                  | Lung                    | Lymph Node - Mandibular | Mammary Gland         |
| Nose                   | Ovary                   | Pancreas                | Parathyroid Gland     |
| Salivary Glands        | Skin                    | Spleen                  | Stomach - Forestomach |
| Stomach - Glandular    | Thyroid Gland           | Trachea                 | Urinary Bladder       |
| Uterus                 |                         |                         |                       |

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**MISSING**

|        |             |                          |                 |
|--------|-------------|--------------------------|-----------------|
| Brain  | Gallbladder | Intestine Large - Rectum | Pituitary Gland |
| Thymus |             |                          |                 |

---

**AUTO PRECLUDES DIAG.**

|                           |                         |                            |                         |
|---------------------------|-------------------------|----------------------------|-------------------------|
| Intestine Large - Cecum   | Intestine Large - Colon | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mesenteric |                            |                         |

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 772

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87043389

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    |
| Lymph Node - Mesenteric | Mammary Gland             | Nose                     | Pancreas                   |
| Skin                    | Stomach - Glandular       | Trachea                  |                            |

**MISSING**

Parathyroid Gland

**OBSERVATIONS**

|   |                |                                  |                    |
|---|----------------|----------------------------------|--------------------|
| Islets, Pancreatic                            |                | Hyperplasia                      | Mild               |
| Kidney  |                | Hyperplasia                      | Lymphoid, Mild     |
|   |                | Mineralization                   | Minimal            |
|   | Renal Tubule   | Regeneration                     | Minimal            |
| Liver   |                | Hepatocellular Adenoma           | Multiple, Two      |
|   |                | Hepatocellular Carcinoma         |                    |
|   | Lobules        | Necrosis                         | Mild               |
| Note: HEPATOCLR ADEN TGLs = 4-22              |                |                                  |                    |
| Note: HEPATOCLR CARC TGLs = 2-21              |                |                                  |                    |
| Note: HEPATOCELLULAR ADENOMA ALSO ON SLIDE 21 |                |                                  |                    |
| Ovary   |                | Cyst                             |                    |
| Note: CYST TGLs = 1-7-1                       |                |                                  |                    |
| Pituitary Gland                               | Pars Distalis  | Adenoma                          |                    |
| Salivary Glands                               |                | Hyperplasia                      | Lymphoid, Moderate |
| Spleen  |                | Hematopoietic Cell Proliferation | Minimal            |
|   | Lymph Follic   | Hyperplasia                      | Moderate           |
| Stomach                                       | Forestomach    | Cyst                             |                    |
| Thymus  |                | Cyst                             |                    |
| Thyroid Gland                                 | Follicular Cel | Adenoma                          |                    |
|   | Follicular Cel | Hyperplasia                      | Mild               |
| Urinary Bladder                               |                | Hyperplasia                      | Lymphoid, Mild     |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 772

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87043389

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Uterus

Angiectasis

Mild

Hyperplasia

Cystic, Marked

Hyperplasia

Lymphoid, Mild

Note: HYPERPLASIA TGLs = 3-7

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 773

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 510

**DOSE:** VEHICLE CONTROL

**DISP:** Natural Death

**HISTO:** A87043390

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Medulla    | Bone Marrow             | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Liver                      | Lymph Node - Mesenteric | Mammary Gland             | Nose                     |
| Pancreas                   | Parathyroid Gland       | Pituitary Gland           | Skin                     |
| Stomach - Forestomach      | Stomach - Glandular     | Thymus                    | Trachea                  |
| Urinary Bladder            |                         |                           |                          |

**OBSERVATIONS**

|                   |                |                  |                    |
|-------------------|----------------|------------------|--------------------|
| Adrenal Gland     | Cortex         | Basophilic Focus |                    |
| Bone              |                | Hyperostosis     | Moderate           |
| Brain             | Thalamus       | Mineralization   | Mild               |
| Kidney            |                | Hyperplasia      | Lymphoid, Minimal  |
|                   | Renal Tubule   | Regeneration     | Minimal            |
| Lung              |                | Congestion       | Mild               |
|                   |                | Hyperplasia      | Lymphoid, Moderate |
| Lymph Node        | Mandibular     | Hyperplasia      | Lymphoid, Mild     |
| Ovary             |                | Angiectasis      | Mild               |
| Salivary Glands   |                | Hyperplasia      | Lymphoid, Mild     |
| Spleen            | Lymph Follic   | Hyperplasia      | Moderate           |
| Note: HYPERPLASIA | TGLs = 4-6     |                  |                    |
| Thyroid Gland     |                | Degeneration     | Cystic, Mild       |
| Uterus            |                | Angiectasis      | Mild               |
|                   |                | Hyperplasia      | Cystic, Marked     |
| Note: HYPERPLASIA | TGLs = 2-7,3-7 |                  |                    |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 774

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** VEHICLE CONTROL

**DISP:** Moribund Sacrifice

**HISTO:** A87043391

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex   | Adrenal Gland - Medulla    | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lymph Node - Mandibular    | Mammary Gland           | Pancreas                  |
| Parathyroid Gland        | Pituitary Gland            | Skin                    | Stomach - Forestomach     |
| Trachea                  | Urinary Bladder            |                         |                           |

**OBSERVATIONS**

|                      |              |                                  |                    |
|----------------------|--------------|----------------------------------|--------------------|
| Bone                 |              | Osteosarcoma                     |                    |
| Note: OSTEOSARC      | TGLs = 7-22  |                                  |                    |
| Brain                | Thalamus     | Mineralization                   | Moderate           |
| Kidney               |              | Hyperplasia                      | Lymphoid, Moderate |
| Liver                | Hepatocyte   | Karyomegaly                      | Mild               |
|                      | Lobules      | Necrosis                         | Minimal            |
|                      | Kupffer Cell | Pigmentation                     | Moderate           |
| Lung                 |              | Hyperplasia                      | Lymphoid, Mild     |
| Lymph Node           | Mesenteric   | Hyperplasia                      | Lymphoid, Mild     |
| Mesentery            | Fat          | Necrosis                         | Mild               |
| Note: NECROSIS       | TGLs = 4-21  |                                  |                    |
| Nose                 |              | Exudate                          |                    |
|                      | Glands       | Hyperplasia                      | Cystic, Mild       |
| Ovary                |              | Cyst                             |                    |
| Note: CYST           | TGLs = 1-7   |                                  |                    |
| Salivary Glands      |              | Hyperplasia                      | Lymphoid, Moderate |
| Skeletal Muscle      |              | Osteosarcoma                     | Metastatic (Bone)  |
| Note: OSTEOSARC      | TGLs = 7-22  |                                  |                    |
| Spleen               |              | Hematopoietic Cell Proliferation | Moderate           |
| Note: HEMA CELL PROL | TGLs = 5-6   |                                  |                    |
| Stomach              | Glandular    | Inflammation                     | Subacute, Mild     |
| Thymus               |              | Angiectasis                      | Mild               |
| Thyroid Gland        |              | Degeneration                     | Cystic, Mild       |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 774

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** VEHICLE CONTROL

**DISP:** Moribund Sacrifice

**HISTO:** A87043391

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Uterus

Hydrometra

Mild

Hyperplasia

Cystic, Mild

Note: HYPERPLASIA TGLs = 2-7

Note: HYDROMETRA TGLs = 3-7

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 775

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87043392

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex   | Adrenal Gland - Medulla    | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   |
| Mammary Gland            | Nose                       | Ovary                   | Pancreas                  |
| Parathyroid Gland        | Salivary Glands            | Skin                    | Stomach - Forestomach     |
| Thymus                   | Trachea                    |                         |                           |

**OBSERVATIONS**

|  |                |                        |                   |
|--|----------------|------------------------|-------------------|
| Bone                                     |                | Hyperostosis           | Mild              |
| Brain                                    | Thalamus       | Mineralization         | Moderate          |
| Kidney                                   | Renal Tubule   | Regeneration           | Minimal           |
| Liver                                    |                | Hepatocellular Adenoma |                   |
| Note: HEPATOCLR ADEN TGLs = 4-21         |                |                        |                   |
| Pituitary Gland                          | Pars Distalis  | Hyperplasia            | Minimal           |
| Spleen                                   | Red Pulp       | Hyperplasia            | Moderate          |
| Note: HYPERPLASIA TGLs = 3-6             |                |                        |                   |
| Stomach                                  | Glandular      | Cyst                   |                   |
| Thyroid Gland                            | Follicular Cel | Hyperplasia            | Minimal           |
| Urinary Bladder                          |                | Hyperplasia            | Lymphoid, Minimal |
| Uterus                                   |                | Hydrometra             | Marked            |
|  |                | Hyperplasia            | Cystic, Minimal   |
| Note: HYPERPLASIA TGLs = 1-7             |                |                        |                   |
| Note: ENDOMETRIAL STROMA IS HYPERPLASTIC |                |                        |                   |
| Note: HYDROMETRA TGLs = 2-7,2-7-1        |                |                        |                   |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 776

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A86041438

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Medulla    | Bone Marrow             | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Lymph Node - Mandibular    | Mammary Gland           | Nose                      | Pancreas                 |
| Parathyroid Gland          | Pituitary Gland         | Skin                      | Stomach - Forestomach    |
| Stomach - Glandular        | Trachea                 |                           |                          |

**INSUFFICIENT TISSUE**

Ovary

**OBSERVATIONS**

|  |                |                                   |                      |
|--|----------------|-----------------------------------|----------------------|
| Adrenal Gland                                | Cortex         | Accessory Adrenal Cortical Nodule |                      |
| Bone   |                | Hyperostosis                      | Mild                 |
| Brain  | Thalamus       | Mineralization                    | Minimal              |
| Kidney                                       |                | Casts Protein                     | Minimal              |
|  |                | Mineralization                    | Minimal              |
|  | Renal Tubule   | Regeneration                      | Minimal              |
| Liver  |                | Hepatocellular Adenoma            | Five, Multiple       |
| Note: HEPATOCLR ADEN TGLs = 4-22,7-24        |                |                                   |                      |
| Note: HEPATOCELLULAR ADENOMA ALSO ON SLIDE 6 |                |                                   |                      |
| Lung   |                | Alveolar/Bronchiolar Carcinoma    |                      |
|  |                | Infiltration Cellular             | Histiocyte, Moderate |
| Note: ALV BRON CARC TGLs = 5-23              |                |                                   |                      |
| Lymph Node                                   | Mesenteric     | Hyperplasia                       | Lymphoid, Mild       |
| Mesentery                                    | Fat            | Necrosis                          | Moderate             |
| Note: NECROSIS TGLs = 3-21                   |                |                                   |                      |
| Salivary Glands                              |                | Hyperplasia                       | Lymphoid, Mild       |
| Spleen                                       |                | Hematopoietic Cell Proliferation  | Mild                 |
| Note: HEMA CELL PROL TGLs = 2-6              |                |                                   |                      |
| Thymus                                       |                | Thymoma Benign                    |                      |
| Note: THYMOMA BGN TGLs = 6-2                 |                |                                   |                      |
| Thyroid Gland                                | Follicular Cel | Hyperplasia                       | Minimal              |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 776

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A86041438

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Urinary Bladder

Hyperplasia

Lymphoid, Minimal

Uterus

Hydrometra

Moderate

Hyperplasia

Cystic, Mild

Note: HYDROMETRA TGLs = 1-7

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PRIMARY CAUSE OF DEATH

-

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**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 777

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 536

**DOSE:** VEHICLE CONTROL

**DISP:** Moribund Sacrifice

**HISTO:** A87043393

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Kidney                     | Liver                   |
| Lung                      | Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Mammary Gland           |
| Nose                      | Ovary                    | Parathyroid Gland          | Pituitary Gland         |
| Skin                      | Spleen                   | Stomach - Forestomach      | Stomach - Glandular     |
| Thymus                    | Trachea                  |                            |                         |

**OBSERVATIONS**

|                 |          |                |                   |
|-----------------|----------|----------------|-------------------|
| Brain           | Thalamus | Mineralization | Mild              |
| Pancreas        |          | Hyperplasia    | Lymphoid, Minimal |
| Salivary Glands |          | Hyperplasia    | Lymphoid, Mild    |
| Thyroid Gland   |          | Degeneration   | Cystic, Minimal   |
| Urinary Bladder |          | Hyperplasia    | Lymphoid, Minimal |
| Uterus          |          | Hyperplasia    | Cystic, Minimal   |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 778      **TRT#:** 3      **SEX:** Female      **DAY ON TEST:** 653  
**DOSE:** VEHICLE CONTROL      **DISP:** Moribund Sacrifice      **HISTO:** A86040091

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                           |                         |                          |
|----------------------------|---------------------------|-------------------------|--------------------------|
| Adrenal Gland - Medulla    | Bone                      | Esophagus               | Gallbladder              |
| Heart                      | Intestine Large - Cecum   | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Jejunum | Islets, Pancreatic      | Lung                     |
| Lymph Node - Mandibular    | Mammary Gland             | Nose                    | Pancreas                 |
| Parathyroid Gland          | Pituitary Gland           | Salivary Glands         | Stomach - Forestomach    |
| Stomach - Glandular        | Trachea                   | Urinary Bladder         |                          |

**OBSERVATIONS**

|                                     |            |                                   |          |
|-------------------------------------|------------|-----------------------------------|----------|
| Adrenal Gland                       | Cortex     | Accessory Adrenal Cortical Nodule |          |
| Bone Marrow                         |            | Hypercellularity                  | Marked   |
| Brain                               | Thalamus   | Mineralization                    | Mild     |
| Intestine Small                     | Ileum      | Lymphoma Malignant Mixed          |          |
| Note: LYMPH MAL MIXD    TGLs = 7-23 |            |                                   |          |
| Kidney                              |            | Casts Protein                     | Minimal  |
|                                     |            | Lymphoma Malignant Mixed          |          |
| Liver                               |            | Hematopoietic Cell Proliferation  | Moderate |
| Lymph Node                          | Mesenteric | Lymphoma Malignant Mixed          |          |
|                                     | Pancreatic | Lymphoma Malignant Mixed          |          |
| Note: LYMPH MAL MIXD    TGLs = 8-5  |            |                                   |          |
| Note: LYMPH MAL MIXD    TGLs = 9-25 |            |                                   |          |
| Mesentery                           |            | Lymphoma Malignant Mixed          |          |
|                                     | Fat        | Necrosis                          | Moderate |
| Note: NECROSIS          TGLs = 4-22 |            |                                   |          |
| Note: LYMPH MAL MIXD    TGLs = 3-24 |            |                                   |          |
| Ovary                               |            | Cyst                              |          |
| Skin                                |            | Acanthosis                        | Mild     |
| Note: ACANTHOSIS IS ON SLIDE 8      |            |                                   |          |
| Spleen                              |            | Hematopoietic Cell Proliferation  | Marked   |
|                                     |            | Lymphoma Malignant Mixed          |          |
| Note: HEMA CELL PROL    TGLs = 6-6  |            |                                   |          |
| Note: LYMPH MAL MIXD    TGLs = 6-6  |            |                                   |          |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 778

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 653

**DOSE:** VEHICLE CONTROL

**DISP:** Moribund Sacrifice

**HISTO:** A86040091

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Thymus

Depletion Cellular

Moderate

Thyroid Gland

Degeneration

Cystic, Minimal

Uterus

Hydrometra

Moderate

Hyperplasia

Cystic, Mild

Note: HYDROMETRA TGLs = 5-7

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 779

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87043394

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Mammary Gland           |
| Nose                      | Parathyroid Gland        | Pituitary Gland            | Salivary Glands         |
| Skin                      | Stomach - Glandular      | Thymus                     | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**OBSERVATIONS**

|                                  |              |                              |                   |
|----------------------------------|--------------|------------------------------|-------------------|
| Brain                            | Thalamus     | Mineralization               | Moderate          |
| Islets, Pancreatic               |              | Hyperplasia                  | Lymphoid, Minimal |
| Kidney                           |              | Casts Protein                | Minimal           |
|                                  |              | Mineralization               | Minimal           |
|                                  | Renal Tubule | Regeneration                 | Minimal           |
| Liver                            |              | Hepatocellular Adenoma       |                   |
| Lung                             |              | Alveolar/Bronchiolar Adenoma |                   |
| Note: ALV BRON ADEN TGLs = 1-2-1 |              |                              |                   |
| Mesentery                        | Fat          | Necrosis                     | Mild              |
| Note: NECROSIS TGLs = 2-21       |              |                              |                   |
| Ovary                            |              | Angiectasis                  | Moderate          |
| Pancreas                         |              | Hyperplasia                  | Lymphoid, Minimal |
| Spleen                           |              | Pigmentation                 | Hemosiderin, Mild |
| Stomach                          | Forestomach  | Ulcer                        | Minimal           |
| Thyroid Gland                    |              | Degeneration                 | Cystic, Minimal   |
| Uterus                           |              | Hyperplasia                  | Cystic, Moderate  |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                              |                                 |                         |
|-----------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 780 | <b>TRT#:</b> 3               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 733 |
|                       | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87043395 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      | Lymph Node - Mesenteric |
| Mammary Gland             | Nose                     | Ovary                      | Parathyroid Gland       |
| Pituitary Gland           | Skin                     | Stomach - Forestomach      | Stomach - Glandular     |
| Thymus                    | Trachea                  |                            |                         |

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**MISSING**

Spleen

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**OBSERVATIONS**

|                 |                |                |                    |
|-----------------|----------------|----------------|--------------------|
| Brain           | Thalamus       | Mineralization | Mild               |
| Kidney          |                | Hyperplasia    | Lymphoid, Moderate |
|                 |                | Mineralization | Minimal            |
|                 | Renal Tubule   | Regeneration   | Minimal            |
| Lung            |                | Hyperplasia    | Lymphoid, Minimal  |
| Lymph Node      | Mandibular     | Hyperplasia    | Lymphoid, Marked   |
| Pancreas        |                | Hyperplasia    | Lymphoid, Minimal  |
| Salivary Glands |                | Hyperplasia    | Lymphoid, Mild     |
| Thyroid Gland   | Follicular Cel | Hyperplasia    | Minimal            |
| Urinary Bladder |                | Hyperplasia    | Lymphoid, Minimal  |
| Uterus          |                | Hyperplasia    | Cystic, Moderate   |

Note: HYPERPLASIA TGLs = 1-7

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 781

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87043396

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                          |                            |                           |
|-------------------------|--------------------------|----------------------------|---------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla  | Bone                       | Bone Marrow               |
| Esophagus               | Gallbladder              | Heart                      | Intestine Large - Cecum   |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Jejunum |
| Islets, Pancreatic      | Lung                     | Mammary Gland              | Nose                      |
| Ovary                   | Parathyroid Gland        | Pituitary Gland            | Skin                      |
| Stomach - Forestomach   | Stomach - Glandular      | Thymus                     | Thyroid Gland             |
| Trachea                 | Urinary Bladder          |                            |                           |

**MISSING**

|                         |                 |
|-------------------------|-----------------|
| Lymph Node - Mandibular | Salivary Glands |
|-------------------------|-----------------|

**OBSERVATIONS**

|                                  |              |                          |                  |
|----------------------------------|--------------|--------------------------|------------------|
| Brain                            | Thalamus     | Mineralization           | Mild             |
| Intestine Small                  | Ileum        | Lymphoma Malignant Mixed |                  |
| Note: LYMPH MAL MIXD TGLs = 3-21 |              |                          |                  |
| Kidney                           | Renal Tubule | Regeneration             | Minimal          |
| Liver                            |              | Hemangiosarcoma          |                  |
| Note: HEMANGIOSARC TGLs = 4-22   |              |                          |                  |
| Lymph Node                       | Mesenteric   | Lymphoma Malignant Mixed |                  |
| Pancreas                         |              | Hemangioma               |                  |
| Spleen                           |              | Lymphoma Malignant Mixed |                  |
| Note: LYMPH MAL MIXD TGLs = 2-6  |              |                          |                  |
| Uterus                           |              | Hyperplasia              | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 1-7     |              |                          |                  |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 782

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87043397

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Medulla    | Bone Marrow             | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   | Mammary Gland            |
| Nose                       | Pancreas                | Parathyroid Gland         | Salivary Glands          |
| Skin                       | Stomach - Forestomach   | Stomach - Glandular       | Thymus                   |
| Trachea                    | Urinary Bladder         |                           |                          |

**OBSERVATIONS**

|                                       |                |                        |                   |
|---------------------------------------|----------------|------------------------|-------------------|
| Adrenal Gland                         | Cortex         | Basophilic Focus       |                   |
| Bone                                  |                | Hyperostosis           | Mild              |
| Brain                                 | Thalamus       | Mineralization         | Mild              |
| Harderian Gland                       |                | Adenoma                |                   |
| Kidney                                |                | Hyperplasia            | Lymphoid, Minimal |
|                                       |                | Mineralization         | Minimal           |
|                                       | Renal Tubule   | Regeneration           | Mild              |
| Liver                                 |                | Hepatocellular Adenoma | Multiple, Three   |
|                                       |                | Hyperplasia            | Focal, Moderate   |
| Note: HYPERPLASIA TGLs = 6-24,8-26    |                |                        |                   |
| Note: HEPATOCLR ADEN TGLs = 5-23,7-25 |                |                        |                   |
| Mesentery                             | Fat            | Necrosis               | Marked            |
| Note: NECROSIS TGLs = 1-21            |                |                        |                   |
| Ovary                                 |                | Adenoma                |                   |
| Pituitary Gland                       | Pars Distalis  | Hyperplasia            | Mild              |
| Spleen                                | Red Pulp       | Hyperplasia            | Mild              |
|                                       |                | Pigmentation           | Hemosiderin, Mild |
| Note: HYPERPLASIA TGLs = 2-6          |                |                        |                   |
| Thyroid Gland                         |                | Degeneration           | Cystic, Mild      |
|                                       | Follicular Cel | Hyperplasia            | Minimal           |
| Uterus                                |                | Hydrometra             | Marked            |
|                                       |                | Hyperplasia            | Cystic, Moderate  |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 782

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87043397

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: HYDROMETRA TGLs = 2-7

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 783

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87043398

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   |
| Mammary Gland            | Nose                       | Ovary                   | Pancreas                  |
| Parathyroid Gland        | Pituitary Gland            | Skin                    | Spleen                    |
| Stomach - Forestomach    | Stomach - Glandular        | Thymus                  | Trachea                   |

**OBSERVATIONS**

|                 |                 |                           |                |
|-----------------|-----------------|---------------------------|----------------|
| Adrenal Gland   | Capsule, Cortex | Hyperplasia               | Mild           |
| Brain           | Thalamus        | Mineralization            | Minimal        |
| Kidney          |                 | Casts Protein             | Minimal        |
| Liver           | Hepatocyte      | Vacuolization Cytoplasmic | Mild           |
| Salivary Glands |                 | Hyperplasia               | Lymphoid, Mild |
| Thyroid Gland   |                 | Degeneration              | Cystic, Mild   |
| Urinary Bladder |                 | Hyperplasia               | Lymphoid, Mild |
| Uterus          |                 | Hyperplasia               | Cystic, Mild   |

Note: HYPERPLASIA TGLs = 1-7

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 784

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 518

**DOSE:** VEHICLE CONTROL

**DISP:** Moribund Sacrifice

**HISTO:** A87043399

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      | Lung                    |
| Lymph Node - Mandibular   | Lymph Node - Mesenteric  | Mammary Gland              | Nose                    |
| Pancreas                  | Parathyroid Gland        | Pituitary Gland            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Thymus                     | Trachea                 |

**OBSERVATIONS**

|  |                |                |                    |
|--|----------------|----------------|--------------------|
| Brain  | Thalamus       | Mineralization | Minimal            |
| Kidney   | Renal Tubule   | Atrophy        | Marked             |
|  | Renal Tubule   | Dilatation     | Moderate           |
|  |                | Hydronephrosis | Marked             |
|  | Transit Epithe | Hyperplasia    | Moderate           |
|  |                | Hyperplasia    | Lymphoid, Moderate |
|  | Renal Tubule   | Regeneration   | Marked             |
| <p>Note: HYDRONEPHROSIS TGLs = 6-5<br/>         Note: ATROPHY TGLs = 3-5,5-5<br/>         Note: REGENERATION TGLs = 3-5<br/>         Note: DILATATION TGLs = 3-5</p> |                |                |                    |
| Ovary  |                | Angiectasis    | Mild               |
| Salivary Glands  |                | Hyperplasia    | Lymphoid, Minimal  |
| Stomach  | Glandular      | Cyst           |                    |
| Thyroid Gland  |                | Degeneration   | Cystic, Minimal    |
| Urinary Bladder  |                | Dilatation     | Marked             |
|  | Mucosa         | Hyperplasia    | Moderate           |
|  |                | Hyperplasia    | Lymphoid, Mild     |
|  |                | Inflammation   | Subacute, Moderate |
| <p>Note: DILATATION TGLs = 2-8</p>   |                |                |                    |
| Uterus   |                | Hyperplasia    | Cystic, Mild       |
| <p>Note: HYPERPLASIA TGLs = 4-7</p>  |                |                |                    |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 784

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 518

**DOSE:** VEHICLE CONTROL

**DISP:** Moribund Sacrifice

**HISTO:** A87043399

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 785

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87043400

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Liver                      | Lung                    | Lymph Node - Mesenteric   |
| Mammary Gland            | Pancreas                   | Parathyroid Gland       | Pituitary Gland           |
| Skin                     | Spleen                     | Stomach - Forestomach   | Stomach - Glandular       |
| Thymus                   | Trachea                    | Urinary Bladder         |                           |

**INSUFFICIENT TISSUE**

Lymph Node - Mandibular

**OBSERVATIONS**

|                 |              |                                   |                  |
|-----------------|--------------|-----------------------------------|------------------|
| Adrenal Gland   | Cortex       | Accessory Adrenal Cortical Nodule |                  |
|                 | Cortex       | Basophilic Focus                  |                  |
| Brain           | Thalamus     | Mineralization                    | Mild             |
| Kidney          |              | Casts Protein                     | Minimal          |
|                 |              | Mineralization                    | Minimal          |
|                 | Renal Tubule | Regeneration                      | Minimal          |
| Nose            | Glands       | Hyperplasia                       | Cystic, Minimal  |
| Ovary           |              | Angiectasis                       | Moderate         |
| Salivary Glands |              | Hyperplasia                       | Lymphoid, Mild   |
| Thyroid Gland   |              | Degeneration                      | Cystic, Minimal  |
| Uterus          |              | Hydrometra                        | Marked           |
|                 |              | Hyperplasia                       | Cystic, Moderate |

Note: HYDROMETRA TGLs = 1-7

Note: HYPERPLASIA TGLs = 2-7

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 786

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87043401

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Medulla    | Bone Marrow             | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   | Mammary Gland            |
| Nose                       | Pancreas                | Parathyroid Gland         | Pituitary Gland          |
| Skin                       | Spleen                  | Stomach - Glandular       | Thyroid Gland            |
| Trachea                    | Urinary Bladder         |                           |                          |

**INSUFFICIENT TISSUE**

Ovary

**OBSERVATIONS**

|                                  |             |                                   |                |
|----------------------------------|-------------|-----------------------------------|----------------|
| Adrenal Gland                    | Cortex      | Accessory Adrenal Cortical Nodule |                |
| Bone                             |             | Hyperostosis                      | Moderate       |
| Brain                            | Thalamus    | Mineralization                    | Moderate       |
| Kidney                           |             | Mineralization                    | Minimal        |
| Liver                            |             | Hepatocellular Adenoma            |                |
|                                  |             | Hyperplasia                       | Focal, Mild    |
| Note: HEPATOCLR ADEN TGLs = 2-22 |             |                                   |                |
| Note: HYPERPLASIA TGLs = 3-23    |             |                                   |                |
| Mesentery                        | Fat         | Necrosis                          | Marked         |
| Note: NECROSIS TGLs = 1-21       |             |                                   |                |
| Salivary Glands                  |             | Hyperplasia                       | Lymphoid, Mild |
| Stomach                          | Forestomach | Leiomyoma                         |                |
| Thymus                           |             | Angiectasis                       | Mild           |
| Uterus                           |             | Hyperplasia                       | Cystic, Mild   |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 787

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87043402

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   |
| Mammary Gland            | Nose                       | Ovary                   | Pancreas                  |
| Parathyroid Gland        | Salivary Glands            | Skin                    | Stomach - Forestomach     |
| Stomach - Glandular      | Thyroid Gland              | Trachea                 |                           |

**OBSERVATIONS**

|                   |               |                                   |                  |
|-------------------|---------------|-----------------------------------|------------------|
| Adrenal Gland     | Cortex        | Accessory Adrenal Cortical Nodule |                  |
| Brain             | Thalamus      | Mineralization                    | Minimal          |
| Kidney            |               | Mineralization                    | Minimal          |
|                   | Renal Tubule  | Regeneration                      | Minimal          |
| Liver             |               | Hyperplasia                       | Focal, Mild      |
| Pituitary Gland   | Pars Distalis | Hyperplasia                       | Minimal          |
| Spleen            | Lymph Follic  | Hyperplasia                       | Moderate         |
| Note: HYPERPLASIA | TGLs = 2-6    |                                   |                  |
| Thymus            |               | Angiectasis                       | Mild             |
| Urinary Bladder   |               | Hyperplasia                       | Lymphoid, Mild   |
| Uterus            |               | Hyperplasia                       | Cystic, Moderate |
| Note: HYPERPLASIA | TGLs = 1-7    |                                   |                  |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 788

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87043403

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Medulla    | Bone                    | Bone Marrow               | Esophagus                |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Lymph Node - Mandibular    | Lymph Node - Mesenteric | Mammary Gland             | Nose                     |
| Parathyroid Gland          | Salivary Glands         | Skin                      | Stomach - Forestomach    |
| Thymus                     | Trachea                 |                           |                          |

**INSUFFICIENT TISSUE**

Gallbladder

**OBSERVATIONS**

|                          |               |                                   |                   |
|--------------------------|---------------|-----------------------------------|-------------------|
| Adrenal Gland            | Cortex        | Accessory Adrenal Cortical Nodule |                   |
| Brain                    | Thalamus      | Mineralization                    | Mild              |
| Kidney                   |               | Casts Protein                     | Minimal           |
|                          |               | Hyperplasia                       | Lymphoid, Minimal |
|                          | Renal Tubule  | Regeneration                      | Mild              |
| Liver                    |               | Hepatocellular Adenoma            |                   |
|                          |               | Hepatocellular Carcinoma          |                   |
|                          |               | Hyperplasia                       | Focal, Mild       |
| Note: [ HEPATOCLR ADEN ] |               |                                   |                   |
| TGLs = 4-23              |               |                                   |                   |
| Note: [ HEPATOCLR CARC ] |               |                                   |                   |
| TGLs = 3-22              |               |                                   |                   |
| Lung                     |               | Alveolar/Bronchiolar Adenoma      |                   |
| Mesentery                |               | Chemodectoma Malignant            |                   |
|                          | Fat           | Necrosis                          | Moderate          |
| Note: NECROSIS           |               |                                   |                   |
| TGLs = 1-21              |               |                                   |                   |
| Note: CHEMODECTO MAL     |               |                                   |                   |
| TGLs = 5-24              |               |                                   |                   |
| Ovary                    |               | Cyst                              |                   |
| Pancreas                 |               | Atrophy                           | Minimal           |
| Pituitary Gland          | Pars Distalis | Adenoma                           |                   |
| [ Adenoma TGLS = 6-1 ]   |               |                                   |                   |
| Spleen                   |               | Hematopoietic Cell Proliferation  | Mild              |
|                          | Red Pulp      | Hyperplasia                       | Moderate          |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                              |                                 |                         |
|-----------------------|------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 788 | <b>TRT#:</b> 3               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 736 |
|                       | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87043403 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: HEMA CELL PROL TGLs = 2-6

Note: HYPERPLASIA TGLs = 2-6

|                 |           |              |                   |
|-----------------|-----------|--------------|-------------------|
| Stomach         | Glandular | Cyst         |                   |
| Thyroid Gland   | Follicle  | Cyst         |                   |
|                 |           | Degeneration | Cystic, Mild      |
|                 |           | Inflammation | Subacute, Minimal |
| Urinary Bladder |           | Hyperplasia  | Lymphoid, Mild    |
| Uterus          |           | Hyperplasia  | Cystic, Mild      |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 789

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 452

**DOSE:** VEHICLE CONTROL

**DISP:** Moribund Sacrifice

**HISTO:** A86037814

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone Marrow              | Esophagus                  | Heart                   |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Mammary Gland              | Nose                    |
| Parathyroid Gland         | Pituitary Gland          | Salivary Glands            | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**OBSERVATIONS**

|   |                           |   |                 |
|---|---------------------------|---|-----------------|
| Adrenal Gland                                     | Capsule, Cortex<br>Cortex | Hyperplasia<br>Lymphoma Malignant Lymphocytic | Mild            |
| Blood Vessel                                      |                           | Thrombosis                                    |                 |
| Note: THE THROMBUS IS PRESENT ON SLIDE NUMBER 26. |                           |   |                 |
| Bone  |                           | Fibrous Osteodystrophy                        | Mild            |
| Brain   | Thalamus                  | Mineralization                                | Mild            |
| Gallbladder                                       |                           | Lymphoma Malignant Lymphocytic                |                 |
| Intestine Large                                   | Cecum                     | Edema   | Mild            |
| Kidney  | Renal Tubule              | Casts Protein                                 | Mild            |
|   |                           | Dilatation                                    | Moderate        |
|   |                           | Glomerulosclerosis                            | Mild            |
|   |                           | Lymphoma Malignant Lymphocytic                |                 |
|   | Renal Tubule              | Mineralization                                | Mild            |
|   |                           | Regeneration                                  | Moderate        |
| Note: GLMSCLEROSIS TGLs = 9-6                     |                           |   |                 |
| Note: DILATATION TGLs = 9-6                       |                           |   |                 |
| Note: REGENERATION TGLs = 9-6                     |                           |   |                 |
| Liver   |                           | Hyperplasia<br>Lymphoma Malignant Lymphocytic | Focal, Moderate |
|   |                           | Mineralization                                | Moderate        |
|   | Lobules                   | Necrosis                                      | Mild            |
| Note: MINERALIZATION TGLs = 15-25                 |                           |   |                 |
| Note: NECROSIS TGLs = 14-24                       |                           |   |                 |
| Note: HYPERPLASIA TGLs = 13-23                    |                           |   |                 |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 789      **TRT#:** 3      **SEX:** Female      **DAY ON TEST:** 452  
**DOSE:** VEHICLE CONTROL      **DISP:** Moribund Sacrifice      **HISTO:** A86037814

**ORGAN AND ACCOUNTABLE SITE STATUS**

|                      |                     |                                  |                       |
|----------------------|---------------------|----------------------------------|-----------------------|
| Lung                 |                     | Alveolar/Bronchiolar Adenoma     |                       |
|                      |                     | Edema                            | Mild                  |
|                      |                     | Hemorrhage                       | Mild                  |
|                      |                     | Infiltration Cellular            | Histiocyte, Moderate  |
|                      |                     | Lymphoma Malignant Lymphocytic   |                       |
| Note: HEMORRHAGE     | TGLs = 19-2,20-2    |                                  |                       |
| Lymph Node           | Iliac               | Lymphoma Malignant Lymphocytic   |                       |
|                      | Mandibular          | Lymphoma Malignant Lymphocytic   |                       |
|                      | Mediastinal         | Lymphoma Malignant Lymphocytic   |                       |
|                      | Mesenteric          | Lymphoma Malignant Lymphocytic   |                       |
|                      | Renal               | Lymphoma Malignant Lymphocytic   |                       |
| Mesentery            |                     | Edema                            | Moderate              |
|                      | Fat                 | Inflammation                     | Suppurative, Moderate |
|                      | Fat                 | Necrosis                         | Moderate              |
| Note: INFLAMMATION   | TGLs = 5-21         |                                  |                       |
| Note: EDEMA          | TGLs = 5-21         |                                  |                       |
| Note: NECROSIS       | TGLs = 5-21         |                                  |                       |
| Ovary                |                     | Cyst                             |                       |
|                      |                     | Lymphoma Malignant Lymphocytic   |                       |
| Note: CYST           | TGLs = 6-7.1        |                                  |                       |
| Pancreas             |                     | Lymphoma Malignant Lymphocytic   |                       |
| Skin                 | Subcut Tiss         | Edema                            | Moderate              |
| Note: EDEMA          | TGLs = 1-8          |                                  |                       |
| Spleen               |                     | Hematopoietic Cell Proliferation | Moderate              |
|                      |                     | Hemorrhage                       | Moderate              |
|                      |                     | Lymphoma Malignant Lymphocytic   |                       |
|                      |                     | Necrosis                         | Mild                  |
| Note: HEMA CELL PROL | TGLs = 8-5          |                                  |                       |
| Stomach              | Forestomach, Mucosa | Hyperplasia                      | Mild                  |
|                      | Glandular           | Mineralization                   | Moderate              |
| Thymus               |                     | Lymphoma Malignant Lymphocytic   |                       |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 789

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 452

**DOSE:** VEHICLE CONTROL

**DISP:** Moribund Sacrifice

**HISTO:** A86037814

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Thyroid Gland

Degeneration

Cystic, Mild

Uterus

Hyperplasia

Cystic, Mild

Note: HYPERPLASIA TGLs = 7-7

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 790

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87043404

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Mammary Gland              |
| Pancreas                | Salivary Glands           | Skin                     | Stomach - Forestomach      |
| Stomach - Glandular     | Trachea                   |                          |                            |

**OBSERVATIONS**

|                                       |               |                                  |                   |
|---------------------------------------|---------------|----------------------------------|-------------------|
| Kidney                                |               | Mineralization                   | Minimal           |
|                                       | Renal Tubule  | Regeneration                     | Minimal           |
| Liver                                 |               | Hyperplasia                      | Lymphoid, Minimal |
| Lung                                  |               | Hyperplasia                      | Lymphoid, Mild    |
| Lymph Node                            | Mesenteric    | Hyperplasia                      | Lymphoid, Mild    |
|                                       | Inguinal      | Lymphoma Malignant Mixed         |                   |
|                                       | Mandibular    | Lymphoma Malignant Mixed         |                   |
|                                       | Mediastinal   | Lymphoma Malignant Mixed         |                   |
| Note: HYPERPLASIA TGLs = 4-5          |               |                                  |                   |
| Note: LYMPH MAL MIXD TGLs = 3-2       |               |                                  |                   |
| Note: LYMPH MAL MIXD TGLs = 5-8,5-8-1 |               |                                  |                   |
| Nose                                  |               | Exudate                          |                   |
|                                       | Glands        | Hyperplasia                      | Cystic, Mild      |
| Ovary                                 |               | Hyperplasia                      | Moderate          |
| Note: HYPERPLASIA IS EPITHELIAL       |               |                                  |                   |
| Parathyroid Gland                     |               | Hyperplasia                      | Mild              |
| Pituitary Gland                       | Pars Distalis | Hyperplasia                      | Minimal           |
| Spleen                                |               | Hematopoietic Cell Proliferation | Mild              |
|                                       |               | Lymphoma Malignant Mixed         |                   |
| Note: LYMPH MAL MIXD TGLs = 1-6       |               |                                  |                   |
| Thymus                                |               | Hyperplasia                      | Lymphoid, Marked  |
|                                       |               | Lymphoma Malignant Mixed         |                   |
| Note: HYPERPLASIA TGLs = 2-2          |               |                                  |                   |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 790

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** VEHICLE CONTROL

**DISP:** Terminal Sacrifice

**HISTO:** A87043404

**ORGAN AND ACCOUNTABLE SITE STATUS**

Note: LYMPH MAL MIXD TGLs = 2-2

Thyroid Gland

Follicular Cel

Hyperplasia

Minimal

Urinary Bladder

Hyperplasia

Lymphoid, Minimal

Uterus

Hydrometra

Mild

Hyperplasia

Cystic, Mild

Note: HYPERPLASIA TGLs = 6-7

Note: HYDROMETRA TGLs = 6-7

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 791

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 101

**DOSE:** VEHICLE 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033901

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Intestine Large - Cecum  
Intestine Small - Jejunum  
Lung  
Nose  
Pituitary Gland  
Stomach - Forestomach  
Trachea

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Colon  
Islets, Pancreatic  
Lymph Node - Mandibular  
Ovary  
Salivary Glands  
Stomach - Glandular  
Urinary Bladder

Bone  
Gallbladder  
Intestine Large - Rectum  
Kidney  
Lymph Node - Mesenteric  
Pancreas  
Skin  
Thymus  
Uterus

Bone Marrow  
Heart  
Intestine Small - Ileum  
Liver  
Mammary Gland  
Parathyroid Gland  
Spleen  
Thyroid Gland

**MISSING**

Intestine Small - Duodenum

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 792

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 100

**DOSE:** VEHICLE 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033902

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lung  
Nose  
Pituitary Gland  
Stomach - Forestomach  
Trachea

Bone  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mandibular  
Ovary  
Salivary Glands  
Stomach - Glandular  
Urinary Bladder

Bone Marrow  
Heart  
Intestine Small - Duodenum  
Kidney  
Lymph Node - Mesenteric  
Pancreas  
Skin  
Thymus  
Uterus

Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Liver  
Mammary Gland  
Parathyroid Gland  
Spleen  
Thyroid Gland

**MISSING**

Adrenal Gland - Medulla

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 793

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 101

**DOSE:** VEHICLE 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033903

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lung  
Nose  
Pituitary Gland  
Stomach - Forestomach  
Trachea

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mandibular  
Ovary  
Salivary Glands  
Stomach - Glandular  
Urinary Bladder

Bone  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mesenteric  
Pancreas  
Skin  
Thymus  
Uterus

Bone Marrow  
Heart  
Intestine Small - Duodenum  
Liver  
Mammary Gland  
Parathyroid Gland  
Spleen  
Thyroid Gland

**OBSERVATIONS**

Kidney                      Renal Tubule                      Regeneration                      Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 794

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 102

**DOSE:** VEHICLE 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033904

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lung  
Nose  
Pituitary Gland  
Stomach - Forestomach  
Trachea

Bone  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mandibular  
Ovary  
Salivary Glands  
Stomach - Glandular  
Urinary Bladder

Bone Marrow  
Heart  
Intestine Small - Duodenum  
Kidney  
Lymph Node - Mesenteric  
Pancreas  
Skin  
Thymus  
Uterus

Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Liver  
Mammary Gland  
Parathyroid Gland  
Spleen  
Thyroid Gland

**OBSERVATIONS**

Adrenal Gland

Cortex

Accessory Adrenal Cortical Nodule

**PRIMARY CAUSE OF DEATH**

-

Animal Note: THE SKIN IS PRESENT ON SLIDE NUMBER 9.

Animal Note: THE ESOPHAGUS IS PRESENT ON SLIDE NUMBER 2.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 795

**TRT#:** 4

**SEX:** Female

**DAY ON TEST:** 100

**DOSE:** VEHICLE 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033905

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Kidney                     |
| Liver                   | Lung                      | Lymph Node - Mandibular  | Lymph Node - Mesenteric    |
| Mammary Gland           | Nose                      | Pancreas                 | Parathyroid Gland          |
| Pituitary Gland         | Salivary Glands           | Skin                     | Spleen                     |
| Stomach - Forestomach   | Stomach - Glandular       | Thymus                   | Thyroid Gland              |
| Trachea                 | Urinary Bladder           | Uterus                   |                            |

**OBSERVATIONS**

|       |            |        |
|-------|------------|--------|
| Ovary | Hemorrhage | Marked |
|-------|------------|--------|

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 796

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** VEHICLE CONTROL

**DISP:** Scheduled Sacrifice

**HISTO:** A86037746

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      | Lung                    |
| Lymph Node - Mandibular   | Lymph Node - Mesenteric  | Mammary Gland              | Nose                    |
| Pancreas                  | Parathyroid Gland        | Pituitary Gland            | Salivary Glands         |
| Skin                      | Spleen                   | Stomach - Forestomach      | Stomach - Glandular     |
| Thymus                    | Thyroid Gland            | Trachea                    | Urinary Bladder         |

**OBSERVATIONS**

|  |              |                |                   |
|--|--------------|----------------|-------------------|
| Brain  |              | Cyst           |                   |
| Note: THE CYST IS NEAR THE MID-LINE OF THE CEREBRUM. |              |                |                   |
| Kidney   |              | Hyperplasia    | Lymphoid, Mild    |
|  |              | Mineralization | Minimal           |
|  | Renal Tubule | Regeneration   | Minimal           |
|  |              | Cystadenoma    |                   |
| Ovary  |              |                |                   |
| Note: CYSTADENOMA TGLs = 2-7                         |              |                |                   |
| Uterus   |              | Hydrometra     | Moderate          |
|  |              | Hyperplasia    | Cystic, Mild      |
|  |              | Inflammation   | Suppurative, Mild |
| Note: HYDROMETRA TGLs = 1-7                          |              |                |                   |
| Note: HYPERPLASIA TGLs = 1-7                         |              |                |                   |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 797

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** VEHICLE CONTROL

**DISP:** Scheduled Sacrifice

**HISTO:** A86037747

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Mammary Gland            | Nose                       | Ovary                   |
| Pancreas                  | Parathyroid Gland        | Pituitary Gland            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Stomach - Glandular        | Thymus                  |
| Thyroid Gland             | Trachea                  | Urinary Bladder            |                         |

**OBSERVATIONS**

|                                  |              |                        |                   |
|----------------------------------|--------------|------------------------|-------------------|
| Brain                            | Thalamus     | Mineralization         | Minimal           |
| Kidney                           |              | Casts Protein          | Minimal           |
|                                  |              | Mineralization         | Minimal           |
|                                  | Renal Tubule | Regeneration           | Minimal           |
| Liver                            |              | Hepatocellular Adenoma |                   |
| Note: HEPATOCLR ADEN TGLs = 3-22 |              |                        |                   |
| Salivary Glands                  |              | Hyperplasia            | Lymphoid, Minimal |
| Uterus                           |              | Hyperplasia            | Cystic, Moderate  |
|                                  |              | Inflammation           | Suppurative, Mild |
| Note: HYPERPLASIA TGLs = 2-7     |              |                        |                   |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 798

**TRT#:** 3

**SEX:** Female

**DAY ON TEST:** 458

**DOSE:** VEHICLE CONTROL

**DISP:** Scheduled Sacrifice

**HISTO:** A86037748

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       |
| Lymph Node - Mandibular | Lymph Node - Mesenteric   | Mammary Gland            | Nose                       |
| Ovary                   | Pancreas                  | Pituitary Gland          | Salivary Glands            |
| Skin                    | Spleen                    | Stomach - Forestomach    | Thymus                     |
| Thyroid Gland           | Trachea                   |                          |                            |

**OBSERVATIONS**

|                   |              |                |                   |
|-------------------|--------------|----------------|-------------------|
| Kidney            |              | Hyperplasia    | Lymphoid, Mild    |
|                   | Renal Tubule | Regeneration   | Minimal           |
| Liver             |              | Hemorrhage     | Minimal           |
|                   |              | Inflammation   | Subacute, Minimal |
| Parathyroid Gland |              | Ectopic Thymus |                   |
| Stomach           | Glandular    | Cyst           |                   |
|                   | Glandular    | Metaplasia     | Squamous, Mild    |
| Urinary Bladder   |              | Hyperplasia    | Lymphoid, Mild    |
| Uterus            |              | Hydrometra     | Moderate          |
|                   |              | Hyperplasia    | Cystic, Moderate  |

Note: HYDROMETRA TGLs = 1-7

Note: HYPERPLASIA TGLs = 1-7

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                              |                                  |                         |
|-----------------------|------------------------------|----------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 799 | <b>TRT#:</b> 3               | <b>SEX:</b> Female               | <b>DAY ON TEST:</b> 456 |
|                       | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Scheduled Sacrifice | <b>HISTO:</b> A86037749 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       |
| Lymph Node - Mandibular | Lymph Node - Mesenteric   | Mammary Gland            | Nose                       |
| Ovary                   | Pancreas                  | Parathyroid Gland        | Pituitary Gland            |
| Spleen                  | Stomach - Forestomach     | Thymus                   | Thyroid Gland              |
| Trachea                 |                           |                          |                            |

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**OBSERVATIONS**

|                                |              |              |                    |
|--------------------------------|--------------|--------------|--------------------|
| Kidney                         | Renal Tubule | Regeneration | Minimal            |
| Liver                          |              | Inflammation | Chronic, Minimal   |
|                                | Kupffer Cell | Pigmentation | Minimal            |
| Salivary Glands                |              | Hyperplasia  | Lymphoid, Minimal  |
| Skin                           |              | Inflammation | Chronic, Minimal   |
| Note: INFLAMMATION TGLs = 1-21 |              |              |                    |
| Stomach                        | Glandular    | Cyst         |                    |
| Urinary Bladder                |              | Inflammation | Subacute, Moderate |
| Uterus                         |              | Hyperplasia  | Cystic, Moderate   |
| Note: [ HYPERPLASIA ] TGLs = 7 |              |              |                    |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                              |                                  |                         |
|-----------------------|------------------------------|----------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 800 | <b>TRT#:</b> 3               | <b>SEX:</b> Female               | <b>DAY ON TEST:</b> 458 |
|                       | <b>DOSE:</b> VEHICLE CONTROL | <b>DISP:</b> Scheduled Sacrifice | <b>HISTO:</b> A86037750 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Mammary Gland            | Nose                       | Pancreas                |
| Parathyroid Gland         | Pituitary Gland          | Skin                       | Spleen                  |
| Stomach - Forestomach     | Stomach - Glandular      | Thymus                     | Thyroid Gland           |
| Trachea                   | Urinary Bladder          |                            |                         |

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**OBSERVATIONS**

|                 |          |                |                   |
|-----------------|----------|----------------|-------------------|
| Brain           | Thalamus | Mineralization | Minimal           |
| Kidney          |          | Casts Protein  | Minimal           |
| Lung            |          | Inflammation   | Chronic, Moderate |
| Ovary           |          | Cyst           |                   |
| Salivary Glands |          | Hyperplasia    | Lymphoid, Minimal |
| Uterus          |          | Hyperplasia    | Cystic, Mild      |
|                 |          | Inflammation   | Suppurative, Mild |

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Note: HYPERPLASIA TGLs = 1-7

**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 801

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 738

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043429

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                           |                         |
|--------------------------|----------------------------|---------------------------|-------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow               | Esophagus               |
| Gallbladder              | Heart                      | Intestine Large - Cecum   | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Jejunum | Islets, Pancreatic      |
| Kidney                   | Lung                       | Lymph Node - Mandibular   | Mammary Gland           |
| Pancreas                 | Parathyroid Gland          | Salivary Glands           | Skin                    |
| Stomach - Forestomach    | Stomach - Glandular        | Thymus                    | Trachea                 |
| Urinary Bladder          |                            |                           |                         |

**OBSERVATIONS**

|                                    |                 |                                  |                   |
|------------------------------------|-----------------|----------------------------------|-------------------|
| Adrenal Gland                      | Capsule, Cortex | Hyperplasia                      | Mild              |
| Brain                              | Thalamus        | Mineralization                   | Moderate          |
| Intestine Small                    | Ileum           | Lymphoma Malignant Mixed         |                   |
| Note: LYMPH MAL MIXD   TGLs = 3-21 |                 |                                  |                   |
| Liver                              |                 | Hepatocellular Adenoma           |                   |
| Note: HEPATOCLR ADEN   TGLs = 5-22 |                 | Inflammation                     | Subacute, Minimal |
| Lymph Node                         | Mesenteric      | Lymphoma Malignant Mixed         |                   |
| Nose                               | Glands          | Exudate                          |                   |
| Ovary                              |                 | Hyperplasia                      | Cystic, Mild      |
| Pituitary Gland                    | Pars Distalis   | Angiectasis                      | Mild              |
| Note: ADENOMA        TGLs = 4-1    |                 | Adenoma                          |                   |
| Spleen                             |                 | Hemangioma                       |                   |
| Note: HEMA CELL PROL   TGLs = 2-6  |                 | Hematopoietic Cell Proliferation | Minimal           |
| Thyroid Gland                      | Follicle        | Cyst                             |                   |
|                                    | Follicular Cel  | Hyperplasia                      | Mild              |
| Uterus                             |                 | Hyperplasia                      | Cystic, Moderate  |
| Note: HYPERPLASIA    TGLs = 1-7    |                 |                                  |                   |

**PRIMARY CAUSE OF DEATH**                   -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 802

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 738

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043430

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                         |
|--------------------------|----------------------------|-------------------------|-------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus               |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Islets, Pancreatic      |
| Liver                    | Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric |
| Mammary Gland            | Nose                       | Pancreas                | Parathyroid Gland       |
| Pituitary Gland          | Salivary Glands            | Skin                    | Stomach - Forestomach   |
| Thymus                   | Thyroid Gland              | Trachea                 | Urinary Bladder         |

**OBSERVATIONS**

|                                  |           |                                   |                    |
|----------------------------------|-----------|-----------------------------------|--------------------|
| Adrenal Gland                    | Cortex    | Accessory Adrenal Cortical Nodule |                    |
| Brain                            | Thalamus  | Mineralization                    | Mild               |
| Intestine Small                  | Jejunum   | Lymphoma Malignant Mixed          |                    |
| Note: LYMPH MAL MIXD TGLs = 5-21 |           |                                   |                    |
| Kidney                           |           | Mineralization                    | Minimal            |
| Ovary                            |           | Angiectasis                       | Moderate           |
|                                  |           | Cyst                              |                    |
| Spleen                           |           | Hematopoietic Cell Proliferation  | Mild               |
|                                  |           | Lymphoma Malignant Mixed          |                    |
| Note: HEMA CELL PROL TGLs = 4-6  |           |                                   |                    |
| Note: LYMPH MAL MIXD TGLs = 4-6  |           |                                   |                    |
| Stomach                          | Glandular | Cyst                              |                    |
| Uterus                           |           | Hydrometra                        | Moderate           |
|                                  |           | Hyperplasia                       | Cystic, Moderate   |
|                                  |           | Metaplasia                        | Squamous, Moderate |
| Note: HYPERPLASIA TGLs = 2-7     |           |                                   |                    |
| Note: HYDROMETRA TGLs = 1-7,3-7  |           |                                   |                    |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 803

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 738

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043431

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Mammary Gland              | Nose                    | Ovary                     |
| Parathyroid Gland        | Stomach - Forestomach      | Stomach - Glandular     | Thymus                    |
| Trachea                  |                            |                         |                           |

**OBSERVATIONS**

|                                       |                |                                   |                   |
|---------------------------------------|----------------|-----------------------------------|-------------------|
| Adrenal Gland                         | Cortex         | Accessory Adrenal Cortical Nodule |                   |
| Brain                                 | Thalamus       | Mineralization                    | Mild              |
| Kidney                                |                | Lymphoma Malignant Lymphocytic    |                   |
|                                       |                | Mineralization                    | Minimal           |
|                                       | Renal Tubule   | Regeneration                      | Minimal           |
| Liver                                 |                | Hepatocellular Adenoma            | Multiple, Two     |
|                                       |                | Inflammation                      | Chronic, Moderate |
|                                       | Lobules        | Necrosis                          | Minimal           |
| Note: HEPATOCLR ADEN TGLs = 4-21,5-22 |                |                                   |                   |
| Lung                                  |                | Infiltration Cellular             | Histiocyte, Mild  |
|                                       |                | Lymphoma Malignant Lymphocytic    |                   |
| Note: LYMPH MAL LYMP TGLs = 6-2       |                |                                   |                   |
| Lymph Node                            | Mandibular     | Lymphoma Malignant Lymphocytic    |                   |
|                                       | Mesenteric     | Lymphoma Malignant Lymphocytic    |                   |
| Pancreas                              |                | Lymphoma Malignant Lymphocytic    |                   |
| Pituitary Gland                       | Pars Distalis  | Hyperplasia                       | Minimal           |
| Salivary Glands                       |                | Lymphoma Malignant Lymphocytic    |                   |
| Skin                                  |                | Acanthosis                        | Minimal           |
| Spleen                                |                | Hematopoietic Cell Proliferation  | Moderate          |
|                                       |                | Lymphoma Malignant Lymphocytic    |                   |
| Note: LYMPH MAL LYMP TGLs = 3-6       |                |                                   |                   |
| Note: HEMA CELL PROL TGLs = 3-6       |                |                                   |                   |
| Thyroid Gland                         | Follicular Cel | Hyperplasia                       | Minimal           |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 803

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 738

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043431

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Urinary Bladder  
Uterus

Hyperplasia  
Angiectasis  
Hydrometra  
Hyperplasia

Lymphoid, Minimal  
Marked  
Moderate  
Cystic, Moderate

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Note: HYDROMETRA TGLs = 1-7-1

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 804

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 738

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043432

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Liver                      | Lung                    | Mammary Gland             |
| Nose                     | Pancreas                   | Parathyroid Gland       | Salivary Glands           |
| Skin                     | Stomach - Forestomach      | Stomach - Glandular     | Thyroid Gland             |
| Trachea                  |                            |                         |                           |

**OBSERVATIONS**

|  |               |                                   |                   |
|--|---------------|-----------------------------------|-------------------|
| Adrenal Gland  | Cortex        | Accessory Adrenal Cortical Nodule |                   |
|  | Cortex        | Cyst                              |                   |
| Brain  | Thalamus      | Mineralization                    | Minimal           |
| Kidney   |               | Lymphoma Malignant Mixed          |                   |
|  | Renal Tubule  | Regeneration                      | Minimal           |
| Lymph Node   | Iliac         | Lymphoma Malignant Mixed          |                   |
|  | Mandibular    | Lymphoma Malignant Mixed          |                   |
|  | Mediastinal   | Lymphoma Malignant Mixed          |                   |
|  | Mesenteric    | Lymphoma Malignant Mixed          |                   |
| Note: LYMPH MAL MIXD TGLs = 6-21<br>Note: LYMPH MAL MIXD TGLs = 5-2<br>[ Lymphoma Malignant Mixed TGLS = 1-8 ] |               |                                   |                   |
| Ovary  |               | Cyst                              |                   |
|  |               |                                   |                   |
| Pituitary Gland  | Pars Distalis | Hyperplasia                       | Moderate          |
| Spleen   |               | Lymphoma Malignant Mixed          |                   |
|  |               |                                   |                   |
| Thymus   |               | Lymphoma Malignant Mixed          |                   |
| Urinary Bladder  |               | Hyperplasia                       | Lymphoid, Minimal |
| Uterus   |               | Hydrometra                        | Marked            |
|  |               | Hyperplasia                       | Cystic, Marked    |
| Note: HYDROMETRA TGLs = 3-7-1  |               |                                   |                   |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 804

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 738

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043432

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 805

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 738

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043433

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Ear                     |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      | Lung                    |
| Lymph Node - Mandibular   | Lymph Node - Mesenteric  | Mammary Gland              | Nose                    |
| Ovary                     | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Spleen                    | Stomach - Forestomach    | Thyroid Gland              | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**MISSING**

Thymus

**OBSERVATIONS**

|                                  |             |                                   |                   |
|----------------------------------|-------------|-----------------------------------|-------------------|
| Adrenal Gland                    | Cortex      | Accessory Adrenal Cortical Nodule |                   |
| Brain                            | Thalamus    | Mineralization                    | Mild              |
| Kidney                           |             | Hyperplasia                       | Lymphoid, Minimal |
| Salivary Glands                  |             | Hyperplasia                       | Lymphoid, Minimal |
| Skin                             | Subcut Tiss | Schwannoma Malignant              |                   |
| Note: SCHWANNOMA MAL TGLs = 1-21 |             |                                   |                   |
| Stomach                          | Glandular   | Cyst                              |                   |
| Uterus                           |             | Hydrometra                        | Moderate          |
|                                  |             | Hyperplasia                       | Cystic, Moderate  |
|                                  |             | Metaplasia                        | Squamous, Minimal |
| Note: HYDROMETRA TGLs = 3-7      |             |                                   |                   |
| Note: HYPERPLASIA TGLs = 2-7     |             |                                   |                   |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 806

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 738

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043434

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Mammary Gland             | Nose                     | Pancreas                   | Parathyroid Gland       |
| Pituitary Gland           | Skin                     | Stomach - Forestomach      | Stomach - Glandular     |
| Thymus                    | Trachea                  |                            |                         |

**OBSERVATIONS**

|                   |              |                |                  |
|-------------------|--------------|----------------|------------------|
| Brain             | Thalamus     | Mineralization | Moderate         |
| Kidney            | Renal Tubule | Regeneration   | Minimal          |
| Liver             |              | Hyperplasia    | Focal, Moderate  |
| Note: HYPERPLASIA | TGLs = 3-21  |                |                  |
| Lung              |              | Hyperplasia    | Lymphoid, Mild   |
| Ovary             |              | Angiectasis    | Mild             |
| Salivary Glands   |              | Hyperplasia    | Lymphoid, Mild   |
| Spleen            | Lymph Follic | Hyperplasia    | Moderate         |
| Thyroid Gland     |              | Degeneration   | Cystic, Minimal  |
| Urinary Bladder   |              | Hyperplasia    | Lymphoid, Mild   |
| Uterus            |              | Hydrometra     | Moderate         |
|                   |              | Hyperplasia    | Cystic, Moderate |
| Note: HYPERPLASIA | TGLs = 2-7   |                |                  |
| Note: HYDROMETRA  | TGLs = 1-7   |                |                  |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 807

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043435

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex   | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric | Mammary Gland             |
| Nose                     | Ovary                      | Parathyroid Gland       | Pituitary Gland           |
| Skin                     | Stomach - Forestomach      | Stomach - Glandular     | Thyroid Gland             |
| Trachea                  | Urinary Bladder            |                         |                           |

**MISSING**

Thymus

**OBSERVATIONS**

|                                 |              |                          |                   |
|---------------------------------|--------------|--------------------------|-------------------|
| Adrenal Gland                   | Medulla      | Pheochromocytoma Benign  |                   |
| Brain                           | Thalamus     | Mineralization           | Minimal           |
| Harderian Gland                 |              | Adenoma                  |                   |
| Kidney                          |              | Hyperplasia              | Lymphoid, Minimal |
|                                 |              | Mineralization           | Minimal           |
|                                 | Renal Tubule | Regeneration             | Minimal           |
| Liver                           |              | Hyperplasia              | Focal, Moderate   |
|                                 |              | Lymphoma Malignant Mixed |                   |
| Note: HYPERPLASIA TGLs = 3-22   |              |                          |                   |
| Lung                            |              | Hyperplasia              | Lymphoid, Minimal |
| Pancreas                        |              | Cyst                     |                   |
| Note: CYST TGLs = 1-21          |              |                          |                   |
| Salivary Glands                 |              | Hyperplasia              | Lymphoid, Mild    |
| Spleen                          |              | Lymphoma Malignant Mixed |                   |
| Note: LYMPH MAL MIXD TGLs = 2-6 |              |                          |                   |
| Uterus                          |              | Hyperplasia              | Cystic, Moderate  |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 808 | <b>TRT#:</b> 7                | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 661 |
|                       | <b>DOSE:</b> 0.0200% CHLORAMI | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87043436 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                         |                            |                         |                           |
|-------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla    | Bone                    | Bone Marrow               |
| Esophagus               | Gallbladder                | Heart                   | Intestine Large - Cecum   |
| Intestine Large - Colon | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic      | Liver                      | Lung                    | Lymph Node - Mandibular   |
| Mammary Gland           | Nose                       | Pancreas                | Parathyroid Gland         |
| Pituitary Gland         | Salivary Glands            | Skin                    | Stomach - Forestomach     |
| Stomach - Glandular     | Thyroid Gland              | Trachea                 | Urinary Bladder           |

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**MISSING**

|                          |                         |        |
|--------------------------|-------------------------|--------|
| Intestine Large - Rectum | Lymph Node - Mesenteric | Thymus |
|--------------------------|-------------------------|--------|

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**OBSERVATIONS**

|                   |              |                |                   |
|-------------------|--------------|----------------|-------------------|
| Brain             | Thalamus     | Mineralization | Mild              |
| Kidney            |              | Mineralization | Mild              |
|                   | Renal Tubule | Regeneration   | Minimal           |
| Ovary             |              | Cyst           |                   |
| Note: CYST        | TGLs = 2-7   |                |                   |
| Spleen            |              | Pigmentation   | Hemosiderin, Mild |
| Uterus            |              | Hyperplasia    | Cystic, Mild      |
| Note: HYPERPLASIA | TGLs = 1-7   |                |                   |

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 809

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 675

**DOSE:** 0.0200% CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87043437

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Brain                   |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Mammary Gland             | Nose                     | Ovary                      | Pancreas                |
| Parathyroid Gland         | Pituitary Gland          | Stomach - Forestomach      | Stomach - Glandular     |
| Thymus                    | Trachea                  |                            |                         |

**OBSERVATIONS**

|                      |                |                                  |                    |
|----------------------|----------------|----------------------------------|--------------------|
| Bone Marrow          |                | Hemangiosarcoma                  |                    |
| Islets, Pancreatic   |                | Hyperplasia                      | Minimal            |
| Kidney               |                | Hyperplasia                      | Lymphoid, Moderate |
|                      | Renal Tubule   | Pigmentation                     | Marked             |
| Liver                |                | Hematopoietic Cell Proliferation | Moderate           |
|                      |                | Hepatocellular Adenoma           |                    |
|                      | Kupffer Cell   | Hyperplasia                      | Moderate           |
|                      |                | Hyperplasia                      | Focal, Marked      |
|                      |                | Mixed Cell Focus                 |                    |
| Note: MIXED CL FOCUS | TGLs = 6-24    |                                  |                    |
| Note: HYPERPLASIA    | TGLs = 4-22    |                                  |                    |
| Note: HEPATOCLR ADEN | TGLs = 5-23    |                                  |                    |
| Salivary Glands      |                | Hyperplasia                      | Lymphoid, Moderate |
| Skin                 | Subcut Tiss    | Edema                            | Moderate           |
| Spleen               |                | Hemangiosarcoma                  |                    |
| Note: HEMANGIOSARC   | TGLs = 3-6,7-6 |                                  |                    |
| Thyroid Gland        |                | Degeneration                     | Cystic, Mild       |
| Urinary Bladder      |                | Hyperplasia                      | Lymphoid, Mild     |
| Uterus               |                | Hemangiosarcoma                  |                    |
| Note: HEMANGIOSARC   | TGLs = 2-21    |                                  |                    |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 810

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043438

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mandibular  
Ovary  
Salivary Glands  
Trachea

Adrenal Gland - Medulla  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mesenteric  
Pancreas  
Skin  
Urinary Bladder

Bone  
Heart  
Intestine Small - Duodenum  
Liver  
Mammary Gland  
Parathyroid Gland  
Stomach - Forestomach

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lung  
Nose  
Pituitary Gland  
Stomach - Glandular

**MISSING**

Thymus

**OBSERVATIONS**

Brain  
Kidney

Thalamus

Mineralization  
Mineralization

Mild  
Minimal

Spleen  
Thyroid Gland  
Uterus

Renal Tubule  
Red Pulp

Regeneration  
Hyperplasia  
Degeneration  
Hyperplasia

Minimal  
Mild  
Cystic, Minimal  
Cystic, Moderate

Note: HYPERPLASIA TGLs = 1-7

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 811

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043439

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      | Lymph Node - Mesenteric |
| Mammary Gland             | Nose                     | Pancreas                   | Parathyroid Gland       |
| Salivary Glands           | Skin                     | Stomach - Forestomach      | Stomach - Glandular     |
| Thyroid Gland             | Trachea                  |                            |                         |

**OBSERVATIONS**

|                                    |               |                                  |                  |
|------------------------------------|---------------|----------------------------------|------------------|
| Brain                              | Thalamus      | Mineralization                   | Mild             |
| Kidney                             | Renal Tubule  | Regeneration                     | Minimal          |
| Lung                               |               | Lymphoma Malignant Lymphocytic   |                  |
| Lymph Node                         | Mandibular    | Lymphoma Malignant Lymphocytic   |                  |
| Ovary                              |               | Angiectasis                      | Marked           |
|                                    |               | Cyst                             |                  |
| Note: ANGIECTASIS TGLs = 1-7-1,3-7 |               |                                  |                  |
| Pituitary Gland                    | Pars Distalis | Hyperplasia                      | Mild             |
| Spleen                             |               | Hematopoietic Cell Proliferation | Minimal          |
| Note: HEMA CELL PROL TGLs = 2-6    |               |                                  |                  |
| Thymus                             |               | Lymphoma Malignant Lymphocytic   |                  |
| Urinary Bladder                    |               | Lymphoma Malignant Lymphocytic   |                  |
| Uterus                             |               | Hyperplasia                      | Cystic, Moderate |
|                                    |               | Lymphoma Malignant Lymphocytic   |                  |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 812 | <b>TRT#:</b> 7                | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 736 |
|                       | <b>DOSE:</b> 0.0200% CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87043440 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                         |                          |                            |                           |
|-------------------------|--------------------------|----------------------------|---------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla  | Bone Marrow                | Brain                     |
| Esophagus               | Gallbladder              | Heart                      | Intestine Large - Cecum   |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Jejunum |
| Islets, Pancreatic      | Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Mammary Gland             |
| Nose                    | Pancreas                 | Parathyroid Gland          | Pituitary Gland           |
| Salivary Glands         | Skin                     | Spleen                     | Stomach - Forestomach     |
| Stomach - Glandular     | Thymus                   | Thyroid Gland              | Trachea                   |

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**MISSING**

Intestine Small - Ileum

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**OBSERVATIONS**

|                                |                |                              |                    |
|--------------------------------|----------------|------------------------------|--------------------|
| Bone                           |                | Hyperostosis                 | Mild               |
| Kidney                         |                | Casts Protein                | Minimal            |
|                                |                | Hyperplasia                  | Lymphoid, Minimal  |
|                                | Renal Tubule   | Regeneration                 | Minimal            |
| Liver                          |                | Hepatocellular Adenoma       |                    |
|                                | Lobules        | Necrosis                     | Minimal            |
| Note: HEPATOCLR ADEN           | TGLs = 3-21    |                              |                    |
| Lung                           |                | Alveolar/Bronchiolar Adenoma |                    |
| [ Alveolar/Bronchiolar Adenoma | TGLS = 4-2-1 ] |                              |                    |
| Ovary                          |                | Angiectasis                  | Mild               |
| Note: ANGIECTASIS              | TGLs = 5-7     |                              |                    |
| Urinary Bladder                |                | Hyperplasia                  | Lymphoid, Moderate |
| Uterus                         |                | Hydrometra                   | Moderate           |
|                                |                | Hyperplasia                  | Cystic, Moderate   |
| Note: HYPERPLASIA              | TGLs = 6-7     |                              |                    |
| Note: HYDROMETRA               | TGLs = 1-7     |                              |                    |

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 813

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043441

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Brain                   | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Mammary Gland              | Ovary                   | Pancreas                  |
| Parathyroid Gland        | Pituitary Gland            | Salivary Glands         | Skin                      |
| Stomach - Forestomach    | Stomach - Glandular        | Trachea                 |                           |

**MISSING**

Thymus

**OBSERVATIONS**

|  |            |                                   |                    |
|--|------------|-----------------------------------|--------------------|
| Adrenal Gland  | Cortex     | Accessory Adrenal Cortical Nodule |                    |
| Bone Marrow  |            | Fibrous Histiocytoma              |                    |
| Kidney   |            | Casts Protein                     | Minimal            |
|  |            | Lymphoma Malignant Mixed          |                    |
| Liver  |            | Fibrous Histiocytoma              |                    |
|  |            | Hepatocellular Carcinoma          |                    |
|  |            | Hyperplasia                       | Focal, Moderate    |
|  |            | Lymphoma Malignant Mixed          |                    |
| Note: FIB HISTIOCYT TGLs = 3-21,4-22<br>Note: HEPATOCLR CARC TGLs = 5-23<br>Note: HYPERPLASIA TGLs = 6-24<br>Note: LYMPH MAL MIXD TGLs = 3-21,4-22 |            |                                   |                    |
| Lung   |            | Fibrous Histiocytoma              |                    |
|  |            | Hyperplasia                       | Lymphoid, Moderate |
|  |            | Infiltration Cellular             | Histiocyte, Mild   |
| Lymph Node   | Mandibular | Lymphoma Malignant Mixed          |                    |
|  | Mesenteric | Lymphoma Malignant Mixed          |                    |
| Nose   |            | Exudate                           |                    |
|  | Glands     | Hyperplasia                       | Cystic, Minimal    |
| Spleen   |            | Fibrous Histiocytoma              |                    |
|  |            | Hematopoietic Cell Proliferation  | Moderate           |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 813

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043441

**ORGAN AND ACCOUNTABLE SITE STATUS**

Lymphoma Malignant Mixed

Note: LYMPH MAL MIXD TGLs = 2-6

Note: HEMA CELL PROL TGLs = 2-6

Note: FIB HISTIOCYT TGLs = 2-6

Thyroid Gland

Urinary Bladder

Uterus

Degeneration

Hyperplasia

Hyperplasia

Lymphoma Malignant Mixed

Cystic, Mild

Lymphoid, Moderate

Cystic, Mild

Note: HYPERPLASIA TGLs = 1-7

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 814

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043442

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Brain                   |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Kidney                     | Mammary Gland           |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Salivary Glands           | Stomach - Forestomach    | Stomach - Glandular        | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**INSUFFICIENT TISSUE**

Skin

**OBSERVATIONS**

|   |            |                                |                   |
|---|------------|--------------------------------|-------------------|
| Bone Marrow                                   |            | Hypercellularity               | Moderate          |
| Liver   |            | Hepatocellular Adenoma         |                   |
|   |            | Lymphoma Malignant Lymphocytic |                   |
| Note: HEPATOCLR ADEN TGLs = 2-21              |            |                                |                   |
| Lung  |            | Lymphoma Malignant Lymphocytic |                   |
| Lymph Node                                    | Inguinal   | Lymphoma Malignant Lymphocytic |                   |
|   | Mandibular | Lymphoma Malignant Lymphocytic |                   |
|   | Mesenteric | Lymphoma Malignant Lymphocytic |                   |
| Note: LYMPH MAL LYMP TGLs = 4-22              |            |                                |                   |
| Ovary   |            | Angiectasis                    | Moderate          |
| Note: ANGIECTASIS TGLs = 5-7                  |            |                                |                   |
| Spleen  |            | Lymphoma Malignant Lymphocytic |                   |
| Note: LYMPH MAL LYMP TGLs = 1-6               |            |                                |                   |
| Thymus  |            | Lymphoma Malignant Lymphocytic |                   |
| [ Lymphoma Malignant Lymphocytic TGLS = 3-2 ] |            |                                |                   |
| Thyroid Gland                                 |            | Degeneration                   | Cystic, Minimal   |
| Uterus  |            | Hyperplasia                    | Cystic, Mild      |
|   |            | Inflammation                   | Suppurative, Mild |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:14  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 815

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 647

**DOSE:** 0.0200% CHLORAMI

**DISP:** Natural Death

**HISTO:** A87043443

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Brain                   |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Kidney                   | Liver                      | Lung                    |
| Lymph Node - Mandibular   | Mammary Gland            | Nose                       | Pancreas                |
| Parathyroid Gland         | Pituitary Gland          | Salivary Glands            | Skin                    |
| Stomach - Forestomach     | Stomach - Glandular      | Thymus                     | Thyroid Gland           |
| Trachea                   |                          |                            |                         |

**MISSING**

Lymph Node - Mesenteric

**OBSERVATIONS**

|                    |                 |              |                   |
|--------------------|-----------------|--------------|-------------------|
| Adrenal Gland      | Capsule, Cortex | Adenoma      |                   |
| Note: ADENOMA      | TGLs = 2-21     |              |                   |
| Islets, Pancreatic |                 | Adenoma      |                   |
| Ovary              |                 | Cyst         |                   |
| Spleen             | Red Pulp        | Atrophy      | Mild              |
| Note: ATROPHY      | TGLs = 1-6      |              |                   |
| Urinary Bladder    |                 | Hyperplasia  | Lymphoid, Minimal |
| Uterus             |                 | Inflammation | Suppurative, Mild |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 816      **TRT#:** 7      **SEX:** Female      **DAY ON TEST:** 737  
**DOSE:** 0.0200% CHLORAMI      **DISP:** Terminal Sacrifice      **HISTO:** A87043444

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                           |                         |                          |
|----------------------------|---------------------------|-------------------------|--------------------------|
| Adrenal Gland - Medulla    | Bone Marrow               | Esophagus               | Gallbladder              |
| Heart                      | Intestine Large - Cecum   | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Jejunum | Lymph Node - Mandibular | Lymph Node - Mesenteric  |
| Mammary Gland              | Nose                      | Ovary                   | Pancreas                 |
| Parathyroid Gland          | Salivary Glands           | Skin                    | Thymus                   |
| Trachea                    | Urinary Bladder           |                         |                          |

**OBSERVATIONS**

|                                     |                |                                   |                 |
|-------------------------------------|----------------|-----------------------------------|-----------------|
| Adrenal Gland                       | Cortex         | Accessory Adrenal Cortical Nodule |                 |
| Bone                                |                | Hyperostosis                      | Moderate        |
| Brain                               | Thalamus       | Mineralization                    | Minimal         |
| Harderian Gland                     |                | Hyperplasia                       | Focal, Moderate |
| Intestine Small                     | Ileum          | Histiocytic Sarcoma               |                 |
| Islets, Pancreatic                  |                | Hyperplasia                       | Minimal         |
| Kidney                              | Renal Tubule   | Regeneration                      | Minimal         |
| Liver                               |                | Hepatocellular Adenoma            |                 |
| Note: HEPATOCLR ADEN    TGLs = 3-21 |                |                                   |                 |
| Lung                                |                | Hyperplasia                       | Lymphoid, Mild  |
| Pituitary Gland                     | Pars Distalis  | Adenoma                           |                 |
| Note: ADENOMA          TGLs = 4-1   |                |                                   |                 |
| Spleen                              |                | Hematopoietic Cell Proliferation  | Mild            |
|                                     | Lymph Follic   | Hyperplasia                       | Mild            |
|                                     | Red Pulp       | Hyperplasia                       | Mild            |
| Note: HEMA CELL PROL    TGLs = 2-6  |                |                                   |                 |
| Note: HYPERPLASIA      TGLs = 2-6   |                |                                   |                 |
| Note: HYPERPLASIA      TGLs = 2-6   |                |                                   |                 |
| Stomach                             | Glandular      | Cyst                              |                 |
|                                     | Forestomach    | Diverticulum                      | Moderate        |
| Thyroid Gland                       | Follicle       | Cyst                              |                 |
|                                     |                | Degeneration                      | Cystic, Minimal |
|                                     | Follicular Cel | Hyperplasia                       | Minimal         |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 816

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043444

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Uterus

Angiectasis  
Histiocytic Sarcoma  
Hyperplasia

Mild  
  
Cystic, Moderate

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 817

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043445

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   |
| Mammary Gland            | Nose                       | Pancreas                | Parathyroid Gland         |
| Pituitary Gland          | Salivary Glands            | Skin                    | Spleen                    |
| Stomach - Forestomach    | Thymus                     | Trachea                 | Urinary Bladder           |

**OBSERVATIONS**

|                   |                |                                   |                  |
|-------------------|----------------|-----------------------------------|------------------|
| Adrenal Gland     | Cortex         | Accessory Adrenal Cortical Nodule |                  |
| Brain             | Thalamus       | Mineralization                    | Mild             |
| Kidney            |                | Casts Protein                     | Minimal          |
|                   |                | Hyperplasia                       | Lymphoid, Mild   |
|                   | Renal Tubule   | Regeneration                      | Minimal          |
| Liver             |                | Hyperplasia                       | Lymphoid, Mild   |
| Lymph Node        | Iliac          | Hyperplasia                       | Lymphoid, Mild   |
|                   | Renal          | Hyperplasia                       | Lymphoid, Mild   |
| Note: HYPERPLASIA | TGLs = 3-21    |                                   |                  |
| Note: HYPERPLASIA | TGLs = 4-22    |                                   |                  |
| Ovary             |                | Angiectasis                       | Mild             |
| Stomach           | Glandular      | Metaplasia                        | Squamous, Mild   |
| Thyroid Gland     |                | Inflammation                      | Subacute, Mild   |
| Uterus            |                | Hydrometra                        | Marked           |
|                   |                | Hyperplasia                       | Cystic, Moderate |
| Note: HYDROMETRA  | TGLs = 1-7,2-7 |                                   |                  |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 818

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043446

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Kidney                     | Lung                    |
| Lymph Node - Mandibular   | Mammary Gland            | Nose                       | Parathyroid Gland       |
| Pituitary Gland           | Salivary Glands          | Skin                       | Stomach - Forestomach   |
| Stomach - Glandular       | Thymus                   | Thyroid Gland              | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**OBSERVATIONS**

|                                      |              |                          |                  |
|--------------------------------------|--------------|--------------------------|------------------|
| Blood Vessel                         |              | Hypertrophy              | Moderate         |
| Note: HYPERTROPHY IS IN OVARY        |              |                          |                  |
| Brain                                | Thalamus     | Mineralization           | Minimal          |
| Liver                                |              | Hyperplasia              | Lymphoid, Mild   |
| Lymph Node                           | Mesenteric   | Lymphoma Malignant Mixed |                  |
| Mesentery                            |              | Accessory Spleen         |                  |
| Note: ACCESSORY SPLEEN IS ON SLIDE 7 |              |                          |                  |
| Ovary                                |              | Angiectasis              | Mild             |
|                                      |              | Cyst                     |                  |
| Pancreas                             |              | Atrophy                  | Minimal          |
| Spleen                               |              | Congestion               | Mild             |
|                                      | Lymph Follic | Hyperplasia              | Mild             |
|                                      | Red Pulp     | Hyperplasia              | Mild             |
| Note: HYPERPLASIA TGLs = 2-6         |              |                          |                  |
| Note: HYPERPLASIA TGLs = 2-6         |              |                          |                  |
| Note: CONGESTION TGLs = 2-6          |              |                          |                  |
| Uterus                               |              | Hyperplasia              | Cystic, Moderate |
|                                      |              | Polyp Stromal            |                  |
| Note: HYPERPLASIA TGLs = 1-7         |              |                          |                  |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 819

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043447

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Mammary Gland             | Nose                     | Ovary                      | Pancreas                |
| Parathyroid Gland         | Skin                     | Stomach - Forestomach      | Thymus                  |
| Trachea                   |                          |                            |                         |

**OBSERVATIONS**

|                      |                   |                                  |                   |
|----------------------|-------------------|----------------------------------|-------------------|
| Brain                | Thalamus          | Mineralization                   | Mild              |
| Islets, Pancreatic   |                   | Hyperplasia                      | Minimal           |
| Kidney               |                   | Casts Protein                    | Minimal           |
|                      |                   | Lymphoma Malignant Mixed         |                   |
| Liver                |                   | Lymphoma Malignant Mixed         |                   |
| Pituitary Gland      | Pars Distalis     | Hyperplasia                      | Minimal           |
| Salivary Glands      |                   | Hyperplasia                      | Lymphoid, Mild    |
| Spleen               |                   | Hematopoietic Cell Proliferation | Minimal           |
|                      |                   | Lymphoma Malignant Mixed         |                   |
| Note: HEMA CELL PROL |                   |                                  | TGLs = 3-6        |
| Note: LYMPH MAL MIXD |                   |                                  | TGLs = 3-6        |
| Stomach              | Glandular         | Cyst                             |                   |
|                      | Glandular, Mucosa | Hyperplasia                      | Minimal           |
|                      | Glandular         | Inflammation                     | Subacute, Mild    |
| Thyroid Gland        |                   | Degeneration                     | Cystic, Minimal   |
| Urinary Bladder      |                   | Hyperplasia                      | Lymphoid, Minimal |
| Uterus               |                   | Hyperplasia                      | Cystic, Moderate  |
| Note: HYPERPLASIA    |                   |                                  | TGLs = 1-7,2-7    |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 820

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043448

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Medulla    | Bone Marrow             | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Mammary Gland              | Nose                    | Ovary                     | Parathyroid Gland        |
| Pituitary Gland            | Skin                    | Stomach - Forestomach     | Stomach - Glandular      |
| Trachea                    | Urinary Bladder         |                           |                          |

**OBSERVATIONS**

|                      |                |                                   |                   |
|----------------------|----------------|-----------------------------------|-------------------|
| Adrenal Gland        | Cortex         | Accessory Adrenal Cortical Nodule |                   |
| Bone                 |                | Hyperostosis                      | Moderate          |
| Brain                | Thalamus       | Mineralization                    | Mild              |
| Kidney               |                | Lymphoma Malignant Mixed          |                   |
|                      | Renal Tubule   | Regeneration                      | Minimal           |
| Liver                | Kupffer Cell   | Hyperplasia                       | Moderate          |
|                      |                | Hyperplasia                       | Lymphoid, Mild    |
| Lung                 |                | Hyperplasia                       | Lymphoid, Mild    |
| Lymph Node           | Mandibular     | Hyperplasia                       | Plasma Cell, Mild |
|                      | Mandibular     | Lymphoma Malignant Mixed          |                   |
|                      | Mesenteric     | Lymphoma Malignant Mixed          |                   |
| Pancreas             |                | Lymphoma Malignant Mixed          |                   |
| Salivary Glands      |                | Lymphoma Malignant Mixed          |                   |
| Spleen               |                | Hematopoietic Cell Proliferation  | Mild              |
|                      |                | Lymphoma Malignant Mixed          |                   |
| Note: LYMPH MAL MIXD | TGLs = 1-6     |                                   |                   |
| Note: HEMA CELL PROL | TGLs = 1-6     |                                   |                   |
| Thymus               |                | Lymphoma Malignant Mixed          |                   |
| Thyroid Gland        | Follicular Cel | Hyperplasia                       | Minimal           |
| Uterus               |                | Hyperplasia                       | Cystic, Mild      |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 821

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043449

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Mammary Gland            | Nose                       | Ovary                   |
| Pancreas                  | Pituitary Gland          | Skin                       | Stomach - Forestomach   |
| Stomach - Glandular       | Thymus                   | Trachea                    | Urinary Bladder         |

**OBSERVATIONS**

|                                 |              |                                  |                   |
|---------------------------------|--------------|----------------------------------|-------------------|
| Brain                           | Thalamus     | Mineralization                   | Mild              |
| Kidney                          |              | Hyperplasia                      | Lymphoid, Mild    |
|                                 |              | Mineralization                   | Minimal           |
| Liver                           |              | Hyperplasia                      | Lymphoid, Minimal |
| Parathyroid Gland               |              | Ectopic Thymus                   |                   |
| Salivary Glands                 |              | Hyperplasia                      | Lymphoid, Minimal |
| Spleen                          |              | Hematopoietic Cell Proliferation | Moderate          |
|                                 | Lymph Follic | Hyperplasia                      | Moderate          |
| Note: HEMA CELL PROL TGLs = 2-6 |              |                                  |                   |
| Thyroid Gland                   |              | Degeneration                     | Cystic, Minimal   |
| Uterus                          |              | Hydrometra                       | Marked            |
|                                 |              | Hyperplasia                      | Cystic, Mild      |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 822

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043450

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mesenteric    | Mammary Gland           |
| Nose                      | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Skin                      | Stomach - Forestomach    | Stomach - Glandular        | Thyroid Gland           |
| Trachea                   |                          |                            |                         |

**OBSERVATIONS**

|                   |              |                              |                    |
|-------------------|--------------|------------------------------|--------------------|
| Brain             | Thalamus     | Mineralization               | Minimal            |
| Kidney            |              | Cyst                         |                    |
|                   |              | Mineralization               | Minimal            |
|                   | Renal Tubule | Regeneration                 | Minimal            |
| Liver             |              | Hyperplasia                  | Focal, Moderate    |
| Lung              |              | Alveolar/Bronchiolar Adenoma | Multiple, Two      |
| Lymph Node        | Mandibular   | Hyperplasia                  | Lymphoid, Moderate |
| Ovary             |              | Angiectasis                  | Mild               |
| Salivary Glands   |              | Hyperplasia                  | Lymphoid, Mild     |
| Spleen            | Lymph Follic | Hyperplasia                  | Moderate           |
| Note: HYPERPLASIA | TGLs = 2-6   |                              |                    |
| Thymus            |              | Thymoma Benign               |                    |
| Note: THYMOMA BGN | TGLs = 3-2   |                              |                    |
| Urinary Bladder   |              | Hyperplasia                  | Lymphoid, Minimal  |
| Uterus            |              | Hydrometra                   | Mild               |
|                   |              | Hyperplasia                  | Cystic, Mild       |
| Note: HYDROMETRA  | TGLs = 1-7   |                              |                    |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 823

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 691

**DOSE:** 0.0200% CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87043451

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Kidney                     | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Mammary Gland            | Nose                       | Ovary                   |
| Pancreas                  | Parathyroid Gland        | Pituitary Gland            | Skin                    |
| Stomach - Forestomach     | Thymus                   | Thyroid Gland              | Trachea                 |

**OBSERVATIONS**

|                      |                  |                                  |                     |
|----------------------|------------------|----------------------------------|---------------------|
| Brain                | Thalamus         | Mineralization                   | Mild                |
| Liver                |                  | Hepatocellular Adenoma           |                     |
|                      |                  | Hepatocellular Carcinoma         |                     |
|                      |                  | Hyperplasia                      | Lymphoid, Minimal   |
| Note: HEPATOCLR CARC | TGLs = 2-21,3-22 |                                  |                     |
| Lung                 |                  | Hemorrhage                       | Mild                |
|                      |                  | Hepatocellular Carcinoma         | Metastatic (Liver)  |
|                      |                  | Hyperplasia                      | Lymphoid, Minimal   |
|                      |                  | Infiltration Cellular            | Histiocyte, Minimal |
| Note: HEPATOCLR CARC | TGLs = 4-2       |                                  |                     |
| Salivary Glands      |                  | Hyperplasia                      | Lymphoid, Minimal   |
| Spleen               |                  | Hematopoietic Cell Proliferation | Mild                |
| Stomach              | Glandular        | Inflammation                     | Subacute, Mild      |
| Urinary Bladder      |                  | Hyperplasia                      | Lymphoid, Moderate  |
| Uterus               |                  | Hydrometra                       | Moderate            |
| Note: HYDROMETRA     | TGLs = 1-7       |                                  |                     |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 824

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043452

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   |
| Mammary Gland            | Nose                       | Pancreas                | Parathyroid Gland         |
| Pituitary Gland          | Skin                       | Stomach - Forestomach   | Stomach - Glandular       |
| Thymus                   | Thyroid Gland              | Trachea                 | Urinary Bladder           |

**OBSERVATIONS**

|                 |              |                |                    |
|-----------------|--------------|----------------|--------------------|
| Adrenal Gland   | Cortex       | Cyst           |                    |
| Brain           | Thalamus     | Mineralization | Minimal            |
| Kidney          |              | Cyst           |                    |
|                 | Renal Tubule | Regeneration   | Minimal            |
| Liver           |              | Hyperplasia    | Lymphoid, Moderate |
| Ovary           |              | Cyst           |                    |
| Salivary Glands |              | Hyperplasia    | Lymphoid, Minimal  |
| Spleen          | Lymph Follic | Hyperplasia    | Moderate           |
| Uterus          |              | Hyperplasia    | Cystic, Moderate   |

Note: HYPERPLASIA TGLs = 1-7

**PRIMARY CAUSE OF DEATH**

-

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 825

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.0200% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043453

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Kidney                     | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Mammary Gland            | Nose                       | Parathyroid Gland       |
| Skin                      | Thymus                   | Thyroid Gland              | Trachea                 |

**MISSING**

|                       |                     |
|-----------------------|---------------------|
| Stomach - Forestomach | Stomach - Glandular |
|-----------------------|---------------------|

**OBSERVATIONS**

|                                  |               |                          |                    |
|----------------------------------|---------------|--------------------------|--------------------|
| Brain                            | Thalamus      | Mineralization           | Mild               |
| Harderian Gland                  |               | Adenoma                  |                    |
| Liver                            |               | Hepatocellular Carcinoma |                    |
| Note: HEPATOCLR CARC TGLs = 1-21 |               |                          |                    |
| Lung                             |               | Hyperplasia              | Lymphoid, Mild     |
| Ovary                            |               | Adenoma                  |                    |
| Pancreas                         |               | Hyperplasia              | Lymphoid, Mild     |
| Pituitary Gland                  | Pars Distalis | Hyperplasia              | Minimal            |
| Salivary Glands                  |               | Hyperplasia              | Lymphoid, Moderate |
| Spleen                           | Red Pulp      | Hyperplasia              | Mild               |
| Urinary Bladder                  |               | Hyperplasia              | Lymphoid, Minimal  |
| Uterus                           |               | Hyperplasia              | Cystic, Moderate   |
| Note: HYPERPLASIA TGLs = 2-7     |               |                          |                    |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 826

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 101

**DOSE:** 0.0200% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033906

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mandibular  
Ovary  
Salivary Glands  
Stomach - Glandular  
Urinary Bladder

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mesenteric  
Pancreas  
Skin  
Thymus  
Uterus

Bone  
Heart  
Intestine Small - Duodenum  
Kidney  
Mammary Gland  
Parathyroid Gland  
Spleen  
Thyroid Gland

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lung  
Nose  
Pituitary Gland  
Stomach - Forestomach  
Trachea

**MISSING**

Gallbladder

**OBSERVATIONS**

Liver Inflammation

Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 827

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 102

**DOSE:** 0.0200% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033907

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lung  
Nose  
Salivary Glands  
Stomach - Glandular  
Urinary Bladder

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mandibular  
Ovary  
Skin  
Thymus  
Uterus

Bone  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mesenteric  
Pancreas  
Spleen  
Thyroid Gland

Bone Marrow  
Heart  
Intestine Small - Duodenum  
Kidney  
Mammary Gland  
Parathyroid Gland  
Stomach - Forestomach  
Trachea

**MISSING**

Pituitary Gland

**OBSERVATIONS**

Liver

Inflammation

Chronic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                             |                                  |                         |
|-----------------------|-----------------------------|----------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 828 | <b>TRT#:</b> 8              | <b>SEX:</b> Female               | <b>DAY ON TEST:</b> 100 |
|                       | <b>DOSE:</b> 0.0200% 3 SSAC | <b>DISP:</b> Scheduled Sacrifice | <b>HISTO:</b> A85033908 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Brain                   |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      | Lung                    |
| Lymph Node - Mandibular   | Lymph Node - Mesenteric  | Mammary Gland              | Nose                    |
| Ovary                     | Pancreas                 | Pituitary Gland            | Salivary Glands         |
| Skin                      | Spleen                   | Stomach - Forestomach      | Stomach - Glandular     |
| Thymus                    | Thyroid Gland            | Trachea                    | Urinary Bladder         |
| Uterus                    |                          |                            |                         |

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**MISSING**

Parathyroid Gland

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**OBSERVATIONS**

|               |              |                                   |         |
|---------------|--------------|-----------------------------------|---------|
| Adrenal Gland | Cortex       | Accessory Adrenal Cortical Nodule |         |
| Kidney        | Renal Tubule | Regeneration                      | Minimal |

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**PRIMARY CAUSE OF DEATH**

-

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Animal Note: THE THYROID GLAND IS PRESENT ON SLIDE NUMBER 4.

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 829

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 101

**DOSE:** 0.0200% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033909

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mandibular  
Ovary  
Salivary Glands  
Stomach - Glandular  
Urinary Bladder

Bone  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mesenteric  
Pancreas  
Skin  
Thymus

Bone Marrow  
Heart  
Intestine Small - Duodenum  
Kidney  
Mammary Gland  
Parathyroid Gland  
Spleen  
Thyroid Gland

Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lung  
Nose  
Pituitary Gland  
Stomach - Forestomach  
Trachea

**MISSING**

Adrenal Gland - Medulla

**OBSERVATIONS**

Liver  
Uterus  
Note: [ CYST ] TGLs = 7

Endometrium

Inflammation  
Cyst

Chronic, Minimal  
Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 830

**TRT#:** 8

**SEX:** Female

**DAY ON TEST:** 100

**DOSE:** 0.0200% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033910

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mandibular  
Ovary  
Salivary Glands  
Stomach - Glandular  
Urinary Bladder

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mesenteric  
Pancreas  
Skin  
Thymus  
Uterus

Bone  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Mammary Gland  
Parathyroid Gland  
Spleen  
Thyroid Gland

Bone Marrow  
Heart  
Intestine Small - Duodenum  
Lung  
Nose  
Pituitary Gland  
Stomach - Forestomach  
Trachea

**OBSERVATIONS**

Kidney                      Renal Tubule  
Liver

Regeneration  
Inflammation

Minimal  
Chronic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 831

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 456

**DOSE:** 0.0200% CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** A86037756

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Brain                     |
| Esophagus                | Gallbladder                | Heart                   | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Kidney                     | Liver                   | Lung                      |
| Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Mammary Gland           | Nose                      |
| Ovary                    | Pancreas                   | Parathyroid Gland       | Pituitary Gland           |
| Skin                     | Spleen                     | Stomach - Glandular     | Thymus                    |
| Thyroid Gland            | Trachea                    |                         |                           |

**OBSERVATIONS**

|                 |             |             |                   |
|-----------------|-------------|-------------|-------------------|
| Adrenal Gland   | Cortex      | Hyperplasia | Focal, Minimal    |
| Intestine Large | Cecum       | Edema       | Minimal           |
| Salivary Glands |             | Hyperplasia | Lymphoid, Mild    |
| Stomach         | Forestomach | Edema       | Mild              |
| Urinary Bladder |             | Hyperplasia | Lymphoid, Minimal |
| Uterus          |             | Hyperplasia | Cystic, Moderate  |

Note: HYPERPLASIA TGLs = 1-7

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 832

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** 0.0200% CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** A86037757

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       |
| Lymph Node - Mandibular | Lymph Node - Mesenteric   | Mammary Gland            | Nose                       |
| Pancreas                | Pituitary Gland           | Salivary Glands          | Skin                       |
| Spleen                  | Stomach - Forestomach     | Stomach - Glandular      | Trachea                    |

**OBSERVATIONS**

|  |              |              |                   |
|--|--------------|--------------|-------------------|
| Kidney   | Renal Tubule | Regeneration | Minimal           |
| Liver  |              | Inflammation | Subacute, Minimal |
| Ovary  |              | Cyst         |                   |
| Note: CYST   | TGLs = 1-7   |              |                   |
| Parathyroid Gland                                  |              | Pigmentation | Mild              |
| Note: THE PIGMENTATION IS WITHIN PHAGOCYtic CELLS. |              |              |                   |
| Thymus   |              | Cyst         |                   |
| Thyroid Gland                                      |              | Inflammation | Subacute, Minimal |
| Urinary Bladder                                    |              | Hyperplasia  | Lymphoid, Mild    |
| Uterus   |              | Hyperplasia  | Cystic, Mild      |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 833

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 456

**DOSE:** 0.0200% CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** A86037758

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Liver                    | Lung                       |
| Lymph Node - Mandibular | Lymph Node - Mesenteric   | Mammary Gland            | Nose                       |
| Ovary                   | Pancreas                  | Parathyroid Gland        | Pituitary Gland            |
| Skin                    | Spleen                    | Stomach - Forestomach    | Stomach - Glandular        |
| Thymus                  | Trachea                   |                          |                            |

**OBSERVATIONS**

|                    |              |              |                   |
|--------------------|--------------|--------------|-------------------|
| Islets, Pancreatic |              | Hyperplasia  | Minimal           |
| Kidney             | Renal Tubule | Regeneration | Minimal           |
| Salivary Glands    |              | Hyperplasia  | Lymphoid, Minimal |
| Thyroid Gland      |              | Degeneration | Cystic, Mild      |
| Urinary Bladder    |              | Hyperplasia  | Lymphoid, Mild    |
| Uterus             |              | Hyperplasia  | Cystic, Moderate  |

Note: HYPERPLASIA TGLs = 1-7

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 834

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 458

**DOSE:** 0.0200% CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** A86037759

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Brain                   |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      | Lung                    |
| Lymph Node - Mandibular   | Lymph Node - Mesenteric  | Mammary Gland              | Nose                    |
| Pancreas                  | Parathyroid Gland        | Pituitary Gland            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Trachea                    |                         |

**OBSERVATIONS**

|                 |              |                                   |                   |
|-----------------|--------------|-----------------------------------|-------------------|
| Adrenal Gland   | Cortex       | Accessory Adrenal Cortical Nodule |                   |
| Kidney          |              | Hyperplasia                       | Lymphoid, Mild    |
|                 | Renal Tubule | Regeneration                      | Minimal           |
| Ovary           |              | Cyst                              |                   |
| Salivary Glands |              | Hyperplasia                       | Lymphoid, Mild    |
| Stomach         | Glandular    | Cyst                              |                   |
| Thymus          |              | Angiectasis                       | Moderate          |
|                 |              | Cyst                              |                   |
| Thyroid Gland   |              | Degeneration                      | Cystic, Mild      |
|                 |              | Inflammation                      | Subacute, Minimal |
| Urinary Bladder |              | Hyperplasia                       | Lymphoid, Minimal |
| Uterus          |              | Hyperplasia                       | Cystic, Mild      |

Note: HYPERPLASIA TGLs = 1-7

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 835

**TRT#:** 7

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** 0.0200% CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** A86037760

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      |
| Lung                    | Lymph Node - Mandibular   | Lymph Node - Mesenteric  | Mammary Gland              |
| Nose                    | Ovary                     | Pancreas                 | Parathyroid Gland          |
| Pituitary Gland         | Skin                      | Spleen                   | Stomach - Forestomach      |
| Stomach - Glandular     | Thyroid Gland             | Trachea                  |                            |

**OBSERVATIONS**

|                 |              |              |                   |
|-----------------|--------------|--------------|-------------------|
| Kidney          |              | Hyperplasia  | Lymphoid, Mild    |
|                 | Renal Tubule | Regeneration | Minimal           |
| Salivary Glands |              | Hyperplasia  | Lymphoid, Mild    |
| Thymus          |              | Cyst         |                   |
| Urinary Bladder |              | Hyperplasia  | Lymphoid, Mild    |
| Uterus          |              | Hyperplasia  | Cystic, Moderate  |
|                 |              | Inflammation | Suppurative, Mild |

**PRIMARY CAUSE OF DEATH**

-

Animal Note: FOCUS OF MINERALIZATION IN BRAIN; CONSIDERED TO BE ARTIFACT

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 836      **TRT#:** 11      **SEX:** Female      **DAY ON TEST:** 737  
**DOSE:** 0.0100% CHLORAMI      **DISP:** Terminal Sacrifice      **HISTO:** A87043532

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Mammary Gland             | Nose                     | Ovary                      | Pancreas                |
| Parathyroid Gland         | Skin                     | Stomach - Forestomach      | Stomach - Glandular     |
| Thymus                    | Trachea                  |                            |                         |

**OBSERVATIONS**

|                                  |                |                          |                   |
|----------------------------------|----------------|--------------------------|-------------------|
| Brain                            | Thalamus       | Mineralization           | Mild              |
| Harderian Gland                  |                | Carcinoma                |                   |
| Kidney                           |                | Hyperplasia              | Lymphoid, Minimal |
|                                  | Renal Tubule   | Regeneration             | Minimal           |
| Liver                            |                | Hemorrhage               | Minimal           |
|                                  |                | Hepatocellular Adenoma   |                   |
| Note: HEPATOCLR ADEN TGLs = 3-21 |                |                          |                   |
| Lung                             |                | Hyperplasia              | Lymphoid, Mild    |
| Pituitary Gland                  | Pars Distalis  | Angiectasis              | Minimal           |
|                                  | Pars Distalis  | Hyperplasia              | Minimal           |
| Salivary Glands                  |                | Hyperplasia              | Lymphoid, Minimal |
| Spleen                           |                | Lymphoma Malignant Mixed |                   |
| Note: LYMPH MAL MIXD TGLs = 2-6  |                |                          |                   |
| Thyroid Gland                    |                | Degeneration             | Cystic, Mild      |
|                                  | Follicular Cel | Hyperplasia              | Minimal           |
| Urinary Bladder                  |                | Hyperplasia              | Lymphoid, Mild    |
| Uterus                           |                | Hydrometra               | Marked            |
|                                  |                | Hyperplasia              | Cystic, Moderate  |
|                                  |                | Hyperplasia              | Lymphoid, Minimal |
| Note: HYDROMETRA TGLs = 1-7      |                |                          |                   |

PRIMARY CAUSE OF DEATH -

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 837

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043533

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mesenteric  
Pancreas  
Spleen  
Trachea

Bone  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Mammary Gland  
Parathyroid Gland  
Stomach - Forestomach

Bone Marrow  
Heart  
Intestine Small - Duodenum  
Liver  
Nose  
Pituitary Gland  
Stomach - Glandular

Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mandibular  
Ovary  
Skin  
Thymus

**OBSERVATIONS**

Adrenal Gland  
Kidney

Medulla  
Renal Tubule  
  
Renal Tubule

Hyperplasia  
Atrophy  
Hyperplasia  
Regeneration  
Hyperplasia  
Hyperplasia  
Degeneration  
Hyperplasia  
Hyperplasia

Minimal  
Mild  
Lymphoid, Mild  
Minimal  
Lymphoid, Minimal  
Lymphoid, Minimal  
Cystic, Mild  
Lymphoid, Minimal  
Cystic, Moderate

Lung  
Salivary Glands  
Thyroid Gland  
Urinary Bladder  
Uterus

Note: HYPERPLASIA TGLs = 1-7

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 838      **TRT#:** 11      **SEX:** Female      **DAY ON TEST:** 737  
**DOSE:** 0.0100% CHLORAMI      **DISP:** Terminal Sacrifice      **HISTO:** A87043534

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular | Mammary Gland             |
| Nose                     | Pancreas                   | Parathyroid Gland       | Pituitary Gland           |
| Salivary Glands          | Skin                       | Spleen                  | Stomach - Forestomach     |
| Stomach - Glandular      | Thymus                     | Trachea                 | Urinary Bladder           |

**MISSING**

Lymph Node - Mesenteric

**OBSERVATIONS**

|  |                |                                   |                   |
|--|----------------|-----------------------------------|-------------------|
| Adrenal Gland                              | Cortex         | Accessory Adrenal Cortical Nodule |                   |
| Brain                                      | Thalamus       | Mineralization                    | Moderate          |
| Kidney                                     |                | Hyperplasia                       | Lymphoid, Minimal |
|  |                | Mineralization                    | Mild              |
|  | Renal Tubule   | Regeneration                      | Minimal           |
| Liver                                      |                | Hepatocellular Adenoma            | Multiple, Three   |
|  |                | Hyperplasia                       | Focal, Mild       |
|  | Lobules        | Necrosis                          | Minimal           |
| Note: NECROSIS IS ON SLIDE 22              |                |                                   |                   |
| Note: HEPATOCLR ADEN TGLs = 2-21,3-22,5-24 |                |                                   |                   |
| Ovary                                      |                | Angiectasis                       | Moderate          |
| Thyroid Gland                              | Follicular Cel | Adenoma                           |                   |
|  |                | Degeneration                      | Cystic, Moderate  |
| Uterus                                     |                | Angiectasis                       | Mild              |
|  |                | Hyperplasia                       | Cystic, Moderate  |

Note: HYPERPLASIA TGLs = 1-7

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 839

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0.0100% CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87043535

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Bone                       | Bone Marrow             | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Lymph Node - Mandibular    | Lymph Node - Mesenteric | Mammary Gland             | Nose                     |
| Ovary                      | Pancreas                | Parathyroid Gland         | Skin                     |
| Stomach - Forestomach      | Thyroid Gland           | Trachea                   |                          |

**OBSERVATIONS**

|   |               |                         |                    |
|---|---------------|-------------------------|--------------------|
| Adrenal Gland   | Cortex        | Hyperplasia             | Focal, Minimal     |
|   | Medulla       | Pheochromocytoma Benign |                    |
| Brain   | Thalamus      | Mineralization          | Minimal            |
| Kidney  | Renal Tubule  | Atrophy                 | Minimal            |
|   |               | Hyperplasia             | Lymphoid, Mild     |
|   | Renal Tubule  | Regeneration            | Minimal            |
| Liver   |               | Angiectasis             | Moderate           |
|   |               | Basophilic Focus        |                    |
|   |               | Hyperplasia             | Focal, Moderate    |
|   | Lobules       | Necrosis                | Marked             |
| Note: NECROSIS TGLs = 1-21<br>Note: ANGIECTASIS TGLs = 2-22<br>Note: BASOPHILIC FOCUS IS ON SLIDE 22<br>Note: FOCAL HYPERPLASIA ON SLIDE 6 AND 22 |               |                         |                    |
| Lung  |               | Hyperplasia             | Lymphoid, Minimal  |
| Pituitary Gland   | Pars Distalis | Hyperplasia             | Minimal            |
| Salivary Glands   |               | Hyperplasia             | Lymphoid, Mild     |
| Spleen  | Red Pulp      | Hyperplasia             | Mild               |
| Stomach   | Glandular     | Edema                   | Mild               |
| Note: MILD LYMPHOID INFILTRATION; NOT CODED   |               |                         |                    |
| Thymus  |               | Cyst                    |                    |
| Urinary Bladder   |               | Hyperplasia             | Lymphoid, Moderate |
| Uterus  |               | Hyperplasia             | Cystic, Moderate   |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 839

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0.0100% CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87043535

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Polyp Stromal

Note: HYPERPLASIA TGLs = 3-7

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 840

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043536

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Mammary Gland           | Nose                      |
| Ovary                    | Pancreas                   | Parathyroid Gland       | Salivary Glands           |
| Skin                     | Stomach - Forestomach      | Stomach - Glandular     | Thymus                    |
| Trachea                  | Urinary Bladder            |                         |                           |

**OBSERVATIONS**

|                        |                |                                   |              |
|------------------------|----------------|-----------------------------------|--------------|
| Adrenal Gland          | Cortex         | Accessory Adrenal Cortical Nodule |              |
| Brain                  | Thalamus       | Mineralization                    | Moderate     |
| Islets, Pancreatic     |                | Cyst                              |              |
| Kidney                 | Renal Tubule   | Regeneration                      | Minimal      |
| Liver                  |                | Hyperplasia                       | Focal, Mild  |
| Lung                   |                | Alveolar/Bronchiolar Adenoma      |              |
| Pituitary Gland        | Pars Distalis  | Adenoma                           |              |
| [ Adenoma TGLS = 2-1 ] |                |                                   |              |
| Spleen                 | Lymph Follic   | Hyperplasia                       | Mild         |
| Thyroid Gland          | Follicular Cel | Hyperplasia                       | Minimal      |
| Uterus                 |                | Hyperplasia                       | Cystic, Mild |

Note: HYPERPLASIA TGLs = 1-7

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 841

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 721

**DOSE:** 0.0100% CHLORAMI

**DISP:** Natural Death

**HISTO:** A87043537

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      | Lung                    |
| Lymph Node - Mandibular   | Lymph Node - Mesenteric  | Nose                       | Ovary                   |
| Pituitary Gland           | Skin                     | Spleen                     | Stomach - Forestomach   |
| Stomach - Glandular       | Trachea                  | Urinary Bladder            |                         |

**MISSING**

Parathyroid Gland

**OBSERVATIONS**

|                                  |                |                        |                   |
|----------------------------------|----------------|------------------------|-------------------|
| Brain                            | Thalamus       | Mineralization         | Minimal           |
| Kidney                           |                | Casts Protein          | Minimal           |
| Mammary Gland                    |                | Hyperplasia            | Cystic, Minimal   |
| Pancreas                         |                | Cytoplasmic Alteration | Moderate          |
| Salivary Glands                  |                | Hyperplasia            | Lymphoid, Minimal |
| Thymus                           |                | Depletion Cellular     | Moderate          |
| Thyroid Gland                    | Follicular Cel | Carcinoma              |                   |
| Note: [ CARCINOMA ] TGLs = 3,3.1 |                |                        |                   |
| Uterus                           |                | Angiectasis            | Marked            |
| Note: ANGIECTASIS TGLs = 1-7     |                | Hyperplasia            | Cystic, Mild      |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 842

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0.0100% CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87043538

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex   | Adrenal Gland - Medulla    | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   |
| Mammary Gland            | Nose                       | Pancreas                | Parathyroid Gland         |
| Pituitary Gland          | Salivary Glands            | Spleen                  | Stomach - Forestomach     |
| Stomach - Glandular      | Thyroid Gland              | Trachea                 |                           |

**OBSERVATIONS**

|                                    |              |                        |                   |
|------------------------------------|--------------|------------------------|-------------------|
| Bone                               |              | Hyperostosis           | Marked            |
| Brain                              | Thalamus     | Mineralization         | Mild              |
| Kidney                             | Renal Tubule | Regeneration           | Minimal           |
| Liver                              |              | Hepatocellular Adenoma |                   |
| Note: [ HEPATOCLR ADEN ] TGLs = 22 |              |                        |                   |
| Ovary                              |              | Angiectasis            | Mild              |
|                                    |              | Cyst                   |                   |
| Note: CYST TGLs = 4-7              |              |                        |                   |
| Skin                               |              | Acanthosis             | Minimal           |
| Note: ACANTHOSIS TGLs = 1-21       |              |                        |                   |
| Thymus                             |              | Cyst                   |                   |
| Urinary Bladder                    |              | Hyperplasia            | Lymphoid, Minimal |
| Uterus                             |              | Hydrometra             | Marked            |
|                                    |              | Hyperplasia            | Cystic, Moderate  |
| Note: HYDROMETRA TGLs = 2-7        |              |                        |                   |
| Note: HYPERPLASIA TGLs = 3-7       |              |                        |                   |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 843

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 688

**DOSE:** 0.0100% CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87043539

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lung                     | Lymph Node - Mesenteric    |
| Mammary Gland           | Nose                      | Ovary                    | Pancreas                   |
| Parathyroid Gland       | Pituitary Gland           | Salivary Glands          | Skin                       |
| Spleen                  | Stomach - Forestomach     | Stomach - Glandular      | Thymus                     |
| Trachea                 |                           |                          |                            |

**MISSING**

Lymph Node - Mandibular

**INSUFFICIENT TISSUE**

Urinary Bladder

**OBSERVATIONS**

|   |              |                        |                   |
|---|--------------|------------------------|-------------------|
| Islets, Pancreatic                            |              | Adenoma                |                   |
| Note: ADENOMA IS ON SLIDE 4                   |              |                        |                   |
| Kidney  | Renal Tubule | Mineralization         | Minimal           |
|   |              | Regeneration           | Minimal           |
| Liver   | Lobules      | Hepatocellular Adenoma | Four, Multiple    |
|   |              | Inflammation           | Subacute, Minimal |
|   |              | Necrosis               | Mild              |
| Note: TWO HEPATOCELLULAR ADENOMAS ON SLIDE 21 |              |                        |                   |
| Note: HEPATOCLR ADEN TGLs = 3-21,4-22,7-23    |              |                        |                   |
| Note: NECROSIS IS ON SLIDE 21                 |              |                        |                   |
| Thyroid Gland                                 |              | Degeneration           | Cystic, Minimal   |
| Uterus  |              | Angiectasis            | Marked            |
|   |              | Hyperplasia            | Cystic, Moderate  |
| Note: HYPERPLASIA TGLs = 2-7                  |              |                        |                   |
| Note: ANGIECTASIS TGLs = 1-7                  |              |                        |                   |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 844      **TRT#:** 11      **SEX:** Female      **DAY ON TEST:** 736  
**DOSE:** 0.0100% CHLORAMI      **DISP:** Terminal Sacrifice      **HISTO:** A87043540

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    | Mammary Gland           |
| Nose                      | Ovary                    | Parathyroid Gland          | Pituitary Gland         |
| Salivary Glands           | Spleen                   | Stomach - Forestomach      | Stomach - Glandular     |
| Thymus                    | Trachea                  |                            |                         |

**MISSING**

Islets, Pancreatic      Skin

**INSUFFICIENT TISSUE**

Pancreas

**OBSERVATIONS**

|                                    |                |                        |                   |
|------------------------------------|----------------|------------------------|-------------------|
| Brain                              | Thalamus       | Mineralization         | Mild              |
| Kidney                             |                | Mineralization         | Minimal           |
|                                    | Renal Tubule   | Regeneration           | Mild              |
| Liver                              |                | Hepatocellular Adenoma |                   |
|                                    | Lobules        | Necrosis               | Minimal           |
| Note: [ HEPATOCLR ADEN ] TGLs = 21 |                |                        |                   |
| Lymph Node                         | Mesenteric     | Hemorrhage             | Mild              |
| Mesentery                          | Fat            | Necrosis               | Marked            |
| Note: NECROSIS TGLs = 4-22         |                |                        |                   |
| Thyroid Gland                      | Follicular Cel | Hyperplasia            | Mild              |
| Urinary Bladder                    |                | Hyperplasia            | Lymphoid, Minimal |
| Uterus                             |                | Hydrometra             | Marked            |
|                                    |                | Hyperplasia            | Cystic, Mild      |
| Note: HYPERPLASIA TGLs = 1-7       |                |                        |                   |
| Note: HYDROMETRA TGLs = 2-7-1      |                |                        |                   |

**PRIMARY CAUSE OF DEATH**      -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 845

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043541

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Mammary Gland  
Parathyroid Gland  
Stomach - Forestomach  
Trachea

Adrenal Gland - Medulla  
Heart  
Intestine Small - Duodenum  
Lung  
Nose  
Pituitary Gland  
Stomach - Glandular

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mandibular  
Ovary  
Skin  
Thymus

Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mesenteric  
Pancreas  
Spleen  
Thyroid Gland

**OBSERVATIONS**

Bone  
Brain  
Kidney  
Liver  
    Note: [ HEPATOCLR ADEN ] TGLs = 21,22  
Salivary Glands  
Urinary Bladder  
Uterus

Thalamus  
Renal Tubule

Hyperostosis  
Mineralization  
Regeneration  
Hepatocellular Adenoma  
  
Hyperplasia  
Hyperplasia  
Hyperplasia

Moderate  
Mild  
Minimal  
Multiple, Two  
  
Lymphoid, Minimal  
Lymphoid, Minimal  
Cystic, Mild

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 846

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043542

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                         |                            |
|-------------------------|---------------------------|-------------------------|----------------------------|
| Adrenal Gland - Cortex  | Bone                      | Bone Marrow             | Gallbladder                |
| Heart                   | Intestine Large - Cecum   | Intestine Large - Colon | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Liver                   | Lymph Node - Mandibular    |
| Lymph Node - Mesenteric | Mammary Gland             | Nose                    | Ovary                      |
| Parathyroid Gland       | Pituitary Gland           | Salivary Glands         | Skin                       |
| Spleen                  | Stomach - Forestomach     | Stomach - Glandular     | Thymus                     |
| Trachea                 | Urinary Bladder           |                         |                            |

**MISSING**

|           |                          |
|-----------|--------------------------|
| Esophagus | Intestine Large - Rectum |
|-----------|--------------------------|

**OBSERVATIONS**

|                    |                |                |                   |
|--------------------|----------------|----------------|-------------------|
| Adrenal Gland      | Medulla        | Hyperplasia    | Minimal           |
| Brain              | Thalamus       | Mineralization | Mild              |
| Islets, Pancreatic |                | Hyperplasia    | Mild              |
| Kidney             |                | Hyperplasia    | Lymphoid, Minimal |
|                    | Renal Tubule   | Regeneration   | Minimal           |
| Lung               |                | Hyperplasia    | Lymphoid, Minimal |
| Pancreas           |                | Atrophy        | Mild              |
| Note: ATROPHY      | TGLs = 3-5,3-7 |                |                   |
| Thyroid Gland      |                | Degeneration   | Cystic, Minimal   |
| Uterus             |                | Hydrometra     | Marked            |
| Note: HYDROMETRA   | TGLs = 1-7     |                |                   |

**PRIMARY CAUSE OF DEATH**

-

Animal Note: ISLET AND PANCREATIC LESIONS ARE ON SLIDES 5 AND 7

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 847

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043543

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                         |                          |
|-------------------------|---------------------------|-------------------------|--------------------------|
| Adrenal Gland - Medulla | Bone                      | Esophagus               | Gallbladder              |
| Heart                   | Intestine Large - Cecum   | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic      | Kidney                   |
| Lung                    | Lymph Node - Mesenteric   | Mammary Gland           | Ovary                    |
| Pancreas                | Parathyroid Gland         | Pituitary Gland         | Skin                     |
| Stomach - Forestomach   | Thymus                    | Trachea                 |                          |

**INSUFFICIENT TISSUE**

Intestine Small - Duodenum

**OBSERVATIONS**

|                                      |                 |                                  |                   |
|--------------------------------------|-----------------|----------------------------------|-------------------|
| Adrenal Gland                        | Capsule, Cortex | Hyperplasia                      | Mild              |
| Bone Marrow                          |                 | Hypercellularity                 | Mild              |
| Brain                                | Thalamus        | Mineralization                   | Mild              |
| Liver                                |                 | Inflammation                     | Subacute, Minimal |
| Lymph Node                           | Mandibular      | Hyperplasia                      | Lymphoid, Mild    |
| Mesentery                            | Fat             | Necrosis                         | Marked            |
| Note: NECROSIS      TGLs = 1-21      |                 |                                  |                   |
| Nose                                 | Glands          | Carcinoma                        |                   |
| Note: CARCINOMA      TGLs = 4-9      |                 |                                  |                   |
| Salivary Glands                      |                 | Hyperplasia                      | Lymphoid, Mild    |
| Spleen                               |                 | Hematopoietic Cell Proliferation | Mild              |
| Note: HEMA CELL PROL      TGLs = 3-6 |                 |                                  |                   |
| Stomach                              | Glandular       | Cyst                             |                   |
| Thyroid Gland                        |                 | Degeneration                     | Cystic, Minimal   |
| Urinary Bladder                      |                 | Hyperplasia                      | Lymphoid, Minimal |
| Uterus                               |                 | Hydrometra                       | Marked            |
| Note: HYDROMETRA      TGLs = 2-7     |                 |                                  |                   |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 848

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 738

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043544

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Kidney                   | Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   |
| Mammary Gland            | Nose                       | Ovary                   | Pancreas                  |
| Parathyroid Gland        | Pituitary Gland            | Skin                    | Spleen                    |
| Stomach - Forestomach    | Stomach - Glandular        | Trachea                 |                           |

**MISSING**

Thymus

**OBSERVATIONS**

|                    |          |                                   |                   |
|--------------------|----------|-----------------------------------|-------------------|
| Adrenal Gland      | Cortex   | Accessory Adrenal Cortical Nodule |                   |
| Brain              | Thalamus | Mineralization                    | Minimal           |
| Islets, Pancreatic |          | Hyperplasia                       | Minimal           |
| Liver              |          | Hyperplasia                       | Lymphoid, Minimal |
| Salivary Glands    |          | Hyperplasia                       | Lymphoid, Minimal |
| Thyroid Gland      |          | Degeneration                      | Cystic, Mild      |
| Urinary Bladder    |          | Hyperplasia                       | Lymphoid, Minimal |
| Uterus             |          | Hyperplasia                       | Cystic, Moderate  |
|                    |          | Hyperplasia                       | Lymphoid, Mild    |

Note: HYPERPLASIA TGLs = 1-7

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 849

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 738

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043545

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                         |
|--------------------------|----------------------------|-------------------------|-------------------------|
| Adrenal Gland - Cortex   | Adrenal Gland - Medulla    | Bone Marrow             | Esophagus               |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Lung                    |
| Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Mammary Gland           | Nose                    |
| Ovary                    | Pancreas                   | Parathyroid Gland       | Pituitary Gland         |
| Salivary Glands          | Skin                       | Stomach - Forestomach   | Stomach - Glandular     |
| Thymus                   | Trachea                    | Urinary Bladder         |                         |

**OBSERVATIONS**

|                                  |              |                                  |                  |
|----------------------------------|--------------|----------------------------------|------------------|
| Bone                             |              | Hyperostosis                     | Moderate         |
| Brain                            | Thalamus     | Mineralization                   | Mild             |
| Intestine Small                  | Jejunum      | Lymphoma Malignant Mixed         |                  |
| Note: LYMPH MAL MIXD TGLs = 5-22 |              |                                  |                  |
| Islets, Pancreatic               |              | Carcinoma                        |                  |
| Note: CARCINOMA TGLs = 6-23      |              |                                  |                  |
| Kidney                           | Renal Tubule | Regeneration                     | Minimal          |
| Liver                            |              | Hyperplasia                      | Focal, Moderate  |
| Note: HYPERPLASIA TGLs = 7-24    |              |                                  |                  |
| Mesentery                        | Fat          | Necrosis                         | Mild             |
| Note: NECROSIS TGLs = 2-21       |              |                                  |                  |
| Spleen                           |              | Hematopoietic Cell Proliferation | Minimal          |
| Note: HEMA CELL PROL TGLs = 3-6  |              |                                  |                  |
| Thyroid Gland                    | Follicle     | Cyst                             |                  |
|                                  |              | Degeneration                     | Cystic, Mild     |
| Uterus                           |              | Hyperplasia                      | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 1-7     |              |                                  |                  |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 850

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043546

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Brain                   |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Mammary Gland            | Nose                       | Pancreas                |
| Parathyroid Gland         | Pituitary Gland          | Skin                       | Spleen                  |
| Stomach - Forestomach     | Thymus                   | Trachea                    |                         |

**OBSERVATIONS**

|  |              |                  |                   |
|--|--------------|------------------|-------------------|
| Adrenal Gland  | Cortex       | Hyperplasia      | Focal, Mild       |
| Kidney   |              | Hyperplasia      | Lymphoid, Minimal |
|  | Renal Tubule | Regeneration     | Minimal           |
| Liver  |              | Basophilic Focus | Moderate          |
|  |              | Hyperplasia      | Focal, Mild       |
|  |              | Inflammation     | Subacute, Minimal |
| Note: [ BASOPH FOCUS ] TGLs = 21,22<br>Note: HYPERPLASIA TGLs = 4-22 |              |                  |                   |
| Ovary  |              | Cyst             |                   |
| Note: CYST TGLs = 3-7  |              |                  |                   |
| Salivary Glands  |              | Hyperplasia      | Lymphoid, Mild    |
| Stomach  | Glandular    | Cyst             |                   |
| Thyroid Gland  |              | Degeneration     | Cystic, Mild      |
| Urinary Bladder  |              | Hyperplasia      | Lymphoid, Mild    |
| Uterus   |              | Hydrometra       | Moderate          |
|  |              | Hyperplasia      | Cystic, Moderate  |
| Note: HYPERPLASIA TGLs = 1-7   |              |                  |                   |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 851

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 738

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043547

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mandibular  
Pancreas  
Skin  
Thyroid Gland

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mesenteric  
Parathyroid Gland  
Spleen  
Trachea

Bone  
Gallbladder  
Intestine Large - Rectum  
Liver  
Mammary Gland  
Pituitary Gland  
Stomach - Forestomach

Bone Marrow  
Heart  
Intestine Small - Duodenum  
Lung  
Nose  
Salivary Glands  
Thymus

**MISSING**

Islets, Pancreatic

**OBSERVATIONS**

Kidney  
Ovary  
Stomach  
Urinary Bladder  
Uterus

Renal Tubule  
Glandular

Regeneration  
Angiectasis  
Cyst  
Hyperplasia  
Hyperplasia

Minimal  
Moderate  
Lymphoid, Mild  
Cystic, Moderate

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 852 | <b>TRT#:</b> 11               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 730 |
|                       | <b>DOSE:</b> 0.0100% CHLORAMI | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87043548 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      |
| Lung                    | Lymph Node - Mandibular   | Lymph Node - Mesenteric  | Mammary Gland              |
| Nose                    | Pancreas                  | Parathyroid Gland        | Pituitary Gland            |
| Skin                    | Spleen                    | Stomach - Forestomach    | Stomach - Glandular        |
| Thymus                  | Trachea                   |                          |                            |

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**OBSERVATIONS**

|                   |              |                |                   |
|-------------------|--------------|----------------|-------------------|
| Kidney            |              | Mineralization | Mild              |
|                   | Renal Tubule | Regeneration   | Minimal           |
| Ovary             |              | Angiectasis    | Mild              |
| Note: ANGIECTASIS | TGLs = 2-7   |                |                   |
| Salivary Glands   |              | Hyperplasia    | Lymphoid, Minimal |
| Thyroid Gland     |              | Degeneration   | Cystic, Mild      |
| Urinary Bladder   |              | Hyperplasia    | Lymphoid, Minimal |
| Uterus            |              | Hydrometra     | Marked            |
| Note: HYDROMETRA  | TGLs = 1-7-1 |                |                   |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 853

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 738

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043549

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       |
| Lymph Node - Mandibular | Lymph Node - Mesenteric   | Mammary Gland            | Nose                       |
| Parathyroid Gland       | Salivary Glands           | Skin                     | Stomach - Forestomach      |
| Stomach - Glandular     | Trachea                   | Urinary Bladder          |                            |

**OBSERVATIONS**

|  |                |                        |                    |
|--|----------------|------------------------|--------------------|
| Kidney   |                | Casts Protein          | Minimal            |
|  |                | Hyperplasia            | Lymphoid, Minimal  |
|  | Renal Tubule   | Regeneration           | Minimal            |
| Liver  |                | Basophilic Focus       |                    |
|  |                | Hepatocellular Adenoma |                    |
|  |                | Hyperplasia            | Focal, Moderate    |
|  |                | Hyperplasia            | Lymphoid, Moderate |
| Note: HYPERPLASIA TGLs = 5-22,6-23               |                |                        |                    |
| Note: [ HEPATOCLR ADEN ] TGLs = 21               |                |                        |                    |
| Note: LYMPHOID HYPERPLASIA ON SLIDES 6,21,AND 22 |                |                        |                    |
| Ovary  |                | Cyst                   |                    |
| Note: CYST TGLs = 1-7-1                          |                |                        |                    |
| Pancreas   |                | Hyperplasia            | Lymphoid, Mild     |
| Pituitary Gland                                  | Pars Distalis  | Angiectasis            | Minimal            |
| Spleen   | Lymph Follic   | Hyperplasia            | Moderate           |
| Note: HYPERPLASIA TGLs = 3-6                     |                |                        |                    |
| Thymus   |                | Angiectasis            | Moderate           |
| Thyroid Gland                                    |                | Degeneration           | Cystic, Minimal    |
|  | Follicular Cel | Hyperplasia            | Minimal            |
| Uterus   |                | Hydrometra             | Moderate           |
|  |                | Hyperplasia            | Cystic, Mild       |
| Note: HYDROMETRA TGLs = 2-7                      |                |                        |                    |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 853

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 738

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043549

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 854

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043550

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    |
| Lymph Node - Mesenteric | Mammary Gland             | Nose                     | Parathyroid Gland          |
| Pituitary Gland         | Salivary Glands           | Skin                     | Spleen                     |
| Stomach - Forestomach   | Stomach - Glandular       | Trachea                  | Urinary Bladder            |

**OBSERVATIONS**

|   |              |                           |                    |
|---|--------------|---------------------------|--------------------|
| Islets, Pancreatic  |              | Hyperplasia               | Lymphoid, Moderate |
| Kidney  | Renal Tubule | Atrophy                   | Marked             |
|   |              | Casts Protein             | Minimal            |
|   |              | Hyperplasia               | Lymphoid, Marked   |
|   | Renal Tubule | Metaplasia                | Osseous, Moderate  |
|   |              | Regeneration              | Minimal            |
|   |              | Thrombosis                |                    |
| <p>Note: HYPERPLASIA TGLs = 2-21<br/>         Note: ATROPHY TGLs = 2-21<br/>         [ Thrombosis TGLS = 2-21 ]</p> |              |                           |                    |
| Liver   |              | Hepatocellular Adenoma    |                    |
| Ovary   |              | Cyst                      |                    |
| <p>Note: CYST CONTAINS BLOOD<br/>         Note: CYST TGLs = 1-7-1</p>   |              |                           |                    |
| Pancreas  |              | Hyperplasia               | Lymphoid, Marked   |
| Thymus  |              | Ectopic Parathyroid Gland |                    |
| Thyroid Gland   |              | Degeneration              | Cystic, Minimal    |
| Uterus  |              | Hyperplasia               | Cystic, Mild       |
|   |              | Metaplasia                | Squamous, Mild     |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 855 | <b>TRT#:</b> 11               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 733 |
|                       | <b>DOSE:</b> 0.0100% CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87043551 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Mammary Gland            | Nose                       | Ovary                   |
| Pancreas                  | Parathyroid Gland        | Salivary Glands            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Stomach - Glandular        | Thymus                  |
| Thyroid Gland             | Trachea                  |                            |                         |

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**OBSERVATIONS**

|                                  |               |                        |                    |
|----------------------------------|---------------|------------------------|--------------------|
| Brain                            | Thalamus      | Mineralization         | Mild               |
| Kidney                           |               | Metaplasia             | Osseous, Minimal   |
| Liver                            |               | Hepatocellular Adenoma |                    |
| Note: HEPATOCLR ADEN TGLs = 4-22 |               |                        |                    |
| Mesentery                        | Fat           | Necrosis               | Marked             |
| Note: NECROSIS TGLs = 3-21       |               |                        |                    |
| Pituitary Gland                  | Pars Distalis | Angiectasis            | Minimal            |
|                                  | Pars Distalis | Hyperplasia            | Mild               |
| Urinary Bladder                  |               | Hyperplasia            | Lymphoid, Moderate |
| Uterus                           |               | Carcinoma              |                    |
|                                  |               | Histiocytic Sarcoma    |                    |
|                                  |               | Hyperplasia            | Cystic, Moderate   |
| Note: HYPERPLASIA TGLs = 1-7     |               |                        |                    |
| Note: CARCINOMA TGLs = 2-7-1     |               |                        |                    |

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 856

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0.0100% CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87043552

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex   | Adrenal Gland - Medulla    | Bone                    | Bone Marrow               |
| Esophagus                | Gallbladder                | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric | Mammary Gland             |
| Pancreas                 | Parathyroid Gland          | Salivary Glands         | Spleen                    |
| Stomach - Forestomach    | Stomach - Glandular        | Thymus                  | Trachea                   |
| Urinary Bladder          |                            |                         |                           |

**OBSERVATIONS**

|                    |                  |                        |                   |
|--------------------|------------------|------------------------|-------------------|
| Brain              | Thalamus         | Mineralization         | Mild              |
| Heart              | Myocardium       | Inflammation           | Chronic, Mild     |
| Kidney             | Transit Epithe   | Hyperplasia            | Moderate          |
|                    |                  | Hyperplasia            | Lymphoid, Minimal |
|                    | Renal Tubule     | Regeneration           | Mild              |
| Liver              |                  | Basophilic Focus       |                   |
|                    |                  | Hepatocellular Adenoma |                   |
|                    |                  | Hyperplasia            | Focal, Moderate   |
| Lung               |                  | Hyperplasia            | Lymphoid, Minimal |
| Nose               | Glands           | Hyperplasia            | Cystic, Minimal   |
| Ovary              |                  | Cyst                   |                   |
| Pituitary Gland    | Pars Distalis    | Cyst                   |                   |
|                    | Pars Distalis    | Hyperplasia            | Minimal           |
| Skin               |                  | Acanthosis             | Minimal           |
|                    |                  | Inflammation           | Chronic, Minimal  |
| Note: ACANTHOSIS   | TGLs = 1-8,1-21  |                        |                   |
| Note: INFLAMMATION | TGLs = 1-8,1-21  |                        |                   |
| Thyroid Gland      | Follicular Cel   | Hyperplasia            | Mild              |
| Uterus             |                  | Hydrometra             | Marked            |
|                    |                  | Hyperplasia            | Cystic, Moderate  |
| Note: HYDROMETRA   | TGLs = 2-7,2-7-1 |                        |                   |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 857 | <b>TRT#:</b> 11               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 733 |
|                       | <b>DOSE:</b> 0.0100% CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87043553 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Liver                      | Lung                    | Lymph Node - Mandibular   |
| Lymph Node - Mesenteric  | Mammary Gland              | Nose                    | Pancreas                  |
| Parathyroid Gland        | Salivary Glands            | Skin                    | Spleen                    |
| Stomach - Forestomach    | Stomach - Glandular        | Thymus                  | Trachea                   |

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**MISSING**

Ovary

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**OBSERVATIONS**

|                 |               |                |                   |
|-----------------|---------------|----------------|-------------------|
| Adrenal Gland   | Cortex        | Adenoma        |                   |
| Brain           | Thalamus      | Mineralization | Mild              |
| Kidney          | Renal Tubule  | Regeneration   | Minimal           |
| Pituitary Gland | Pars Distalis | Hyperplasia    | Minimal           |
| Thyroid Gland   |               | Degeneration   | Cystic, Minimal   |
|                 |               | Inflammation   | Subacute, Minimal |
| Urinary Bladder |               | Hyperplasia    | Lymphoid, Minimal |
| Uterus          |               | Hyperplasia    | Cystic, Minimal   |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 858

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 681

**DOSE:** 0.0100% CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87043554

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Mammary Gland           | Nose                      |
| Ovary                    | Parathyroid Gland          | Pituitary Gland         | Salivary Glands           |
| Skin                     | Stomach - Forestomach      | Trachea                 | Urinary Bladder           |

**OBSERVATIONS**

|                                     |              |                          |                          |
|-------------------------------------|--------------|--------------------------|--------------------------|
| Adrenal Gland                       | Cortex       | Cyst                     |                          |
| Brain                               | Thalamus     | Mineralization           | Mild                     |
| Kidney                              | Renal Tubule | Casts Protein            | Minimal                  |
|                                     |              | Dilatation               | Mild                     |
|                                     |              | Lymphoma Malignant Mixed |                          |
| Liver                               | Renal Tubule | Regeneration             | Minimal                  |
|                                     | Lobules      | Necrosis                 | Mild                     |
| Lymph Node                          | Iliac        | Lymphoma Malignant Mixed |                          |
|                                     | Mandibular   | Lymphoma Malignant Mixed |                          |
|                                     | Mediastinal  | Lymphoma Malignant Mixed |                          |
|                                     | Mesenteric   | Lymphoma Malignant Mixed |                          |
|                                     | Pancreatic   | Lymphoma Malignant Mixed |                          |
|                                     | Renal        | Lymphoma Malignant Mixed |                          |
|                                     |              |                          | Lymphoma Malignant Mixed |
| Mesentery                           |              | Lymphoma Malignant Mixed |                          |
| Note: LYMPHOMA IS ON SLIDES 4 AND 7 |              |                          |                          |
| Pancreas                            |              | Lymphoma Malignant Mixed |                          |
| Spleen                              |              | Hemorrhage               | Marked                   |
|                                     |              | Lymphoma Malignant Mixed |                          |

Note: LYMPH MAL MIXD TGLs = 11-3  
 Note: LYMPH MAL MIXD TGLs = 4-21  
 [ Lymphoma Malignant Mixed TGLs = 10-24 ]  
 [ Lymphoma Malignant Mixed TGLs = 7-5 ]  
 [ Lymphoma Malignant Mixed TGLs = 9-23 ]

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 858 | <b>TRT#:</b> 11               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 681 |
|                       | <b>DOSE:</b> 0.0100% CHLORAMI | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87043554 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                      |             |                          |                  |
|----------------------|-------------|--------------------------|------------------|
| Note: HEMORRHAGE     | TGLs = 6-22 |                          |                  |
| Note: LYMPH MAL MIXD | TGLs = 5-6  |                          |                  |
| Stomach              | Glandular   | Cyst                     |                  |
| Thymus               |             | Lymphoma Malignant Mixed |                  |
| Thyroid Gland        |             | Degeneration             | Cystic, Mild     |
| Uterus               |             | Hydrometra               | Marked           |
|                      |             | Hyperplasia              | Cystic, Moderate |
| Note: HYPERPLASIA    | TGLs = 2-7  |                          |                  |
| Note: HYDROMETRA     | TGLs = 3-7  |                          |                  |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 859 | <b>TRT#:</b> 11               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 733 |
|                       | <b>DOSE:</b> 0.0100% CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87043555 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Liver                      | Lung                    | Lymph Node - Mandibular   |
| Lymph Node - Mesenteric  | Mammary Gland              | Nose                    | Pancreas                  |
| Parathyroid Gland        | Salivary Glands            | Skin                    | Stomach - Forestomach     |
| Stomach - Glandular      | Trachea                    |                         |                           |

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**MISSING**

Thymus

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**OBSERVATIONS**

|                 |               |                                   |                      |
|-----------------|---------------|-----------------------------------|----------------------|
| Adrenal Gland   | Cortex        | Accessory Adrenal Cortical Nodule |                      |
| Brain           | Thalamus      | Mineralization                    | Mild                 |
| Kidney          |               | Hyperplasia                       | Lymphoid, Minimal    |
|                 | Renal Tubule  | Regeneration                      | Minimal              |
| Ovary           |               | Cyst                              |                      |
| Note: CYST      | TGLs = 1-7    |                                   |                      |
| Pituitary Gland | Pars Distalis | Adenoma                           |                      |
| Note: ADENOMA   | TGLs = 2-1    |                                   |                      |
| Spleen          |               | Hematopoietic Cell Proliferation  | Minimal              |
| Thyroid Gland   |               | Inflammation                      | Subacute, Minimal    |
| Urinary Bladder |               | Hyperplasia                       | Lymphoid, Mild       |
| Uterus          |               | Hyperplasia                       | Cystic, Mild         |
|                 |               | Inflammation                      | Suppurative, Minimal |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 860

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.0100% CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043556

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mesenteric  
Pituitary Gland  
Stomach - Forestomach  
Urinary Bladder

Bone  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Mammary Gland  
Salivary Glands  
Stomach - Glandular

Bone Marrow  
Heart  
Intestine Small - Duodenum  
Lung  
Nose  
Skin  
Thymus

Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mandibular  
Parathyroid Gland  
Spleen  
Trachea

**OBSERVATIONS**

Adrenal Gland  
Kidney  
  
Liver  
Ovary  
Pancreas  
Thyroid Gland  
Uterus

Cortex  
Renal Tubule  
Renal Tubule  
  
  
  
Follicular Cel

Accessory Adrenal Cortical Nodule  
Atrophy  
Regeneration  
Inflammation  
Cyst  
Atrophy  
Hyperplasia  
Hyperplasia

Minimal  
Minimal  
Subacute, Minimal  
  
Moderate  
Minimal  
Cystic, Mild

Note: HYPERPLASIA TGLs = 1-7

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 861

**TRT#:** 12  
**DOSE:** 0.0100% 3 SSAC

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:** 101  
**HISTO:** 39570

---

**OBSERVATIONS**

Uterus  
[ Cyst TGLS = 7.1 ]

Endometrium

Cyst

Minimal

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 862

**TRT#:** 12  
**DOSE:** 0.0100% 3 SSAC

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:** 100  
**HISTO:** 39571

---

**OBSERVATIONS**

Uterus  
[ Cyst TGLS = 7 ]

Endometrium

Cyst

Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 865

**TRT#:** 12

**SEX:** Female

**DAY ON TEST:** 102

**DOSE:** 0.0100% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** 39574

---

**OBSERVATIONS**

Uterus  
[ Cyst TGLS = 7 ]

Endometrium

Cyst

Minimal

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 866

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 456

**DOSE:** 0.0100% CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** 37766

---

**OBSERVATIONS**

Kidney  
[ Regeneration TGLS = 5 ]

Renal Tubule

Regeneration

Minimal

Uterus  
[ Hyperplasia TGLS = 7 ]

Hyperplasia

Cystic, Mild

---

PRIMARY CAUSE OF DEATH

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 867

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** 0.0100% CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** 37767

---

**OBSERVATIONS**

Kidney  
[ Regeneration TGLS = 5 ]

Renal Tubule

Regeneration

Minimal

Uterus  
[ Hyperplasia TGLS = 7 ]

Hyperplasia

Cystic, Mild

---

PRIMARY CAUSE OF DEATH

-

---



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 868

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 456

**DOSE:** 0.0100% CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** 37768

---

**OBSERVATIONS**

Kidney

Renal Tubule

Regeneration

Mild

[ Regeneration TGLS = 5 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 869

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 458

**DOSE:** 0.0100% CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** 37769

---

**OBSERVATIONS**

Uterus

Hyperplasia

Cystic, Moderate

[ Hyperplasia TGLS = 7 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 870

**TRT#:** 11

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** 0.0100% CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** 37770

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**OBSERVATIONS**

Uterus

Hyperplasia

Cystic, Mild

[ Hyperplasia TGLS = 7 ]

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 871

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043582

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       |
| Lymph Node - Mandibular | Lymph Node - Mesenteric   | Mammary Gland            | Nose                       |
| Ovary                   | Pancreas                  | Pituitary Gland          | Salivary Glands            |
| Skin                    | Stomach - Forestomach     | Stomach - Glandular      | Thymus                     |
| Trachea                 | Urinary Bladder           |                          |                            |

**OBSERVATIONS**

|                      |              |                                  |                  |
|----------------------|--------------|----------------------------------|------------------|
| Kidney               |              | Mineralization                   | Minimal          |
|                      | Renal Tubule | Regeneration                     | Minimal          |
| Liver                |              | Hyperplasia                      | Focal, Moderate  |
| Note: HYPERPLASIA    | TGLs = 4-6-1 |                                  |                  |
| Mesentery            | Fat          | Necrosis                         | Marked           |
| Note: NECROSIS       | TGLs = 2-21  |                                  |                  |
| Parathyroid Gland    |              | Cyst                             |                  |
| Spleen               |              | Hematopoietic Cell Proliferation | Minimal          |
| Note: HEMA CELL PROL | TGLs = 3-6   |                                  |                  |
| Thyroid Gland        |              | Degeneration                     | Cystic, Mild     |
| Uterus               |              | Hyperplasia                      | Cystic, Moderate |
| Note: HYPERPLASIA    | TGLs = 1-7   |                                  |                  |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 872 | <b>TRT#:</b> 15               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 733 |
|                       | <b>DOSE:</b> 0.00500%CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87043583 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      |
| Lung                    | Lymph Node - Mandibular   | Mammary Gland            | Nose                       |
| Ovary                   | Pancreas                  | Parathyroid Gland        | Pituitary Gland            |
| Salivary Glands         | Skin                      | Spleen                   | Stomach - Forestomach      |
| Stomach - Glandular     | Thymus                    | Trachea                  | Urinary Bladder            |

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**OBSERVATIONS**

|               |                |               |                    |
|---------------|----------------|---------------|--------------------|
| Kidney        | Renal Tubule   | Atrophy       | Marked             |
|               | Renal Tubule   | Regeneration  | Minimal            |
| Lymph Node    | Mesenteric     | Hyperplasia   | Lymphoid, Mild     |
| Thyroid Gland |                | Degeneration  | Cystic, Marked     |
|               | Follicular Cel | Hyperplasia   | Moderate           |
|               |                | Hyperplasia   | Lymphoid, Moderate |
| Uterus        |                | Hydrometra    | Moderate           |
|               |                | Hyperplasia   | Cystic, Mild       |
|               |                | Polyp Stromal |                    |

Note: HYPERPLASIA TGLs = 1-7

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 873

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 564

**DOSE:** 0.00500%CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87043584

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                          |                         |                           |
|-------------------------|--------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla  | Bone                    | Bone Marrow               |
| Esophagus               | Gallbladder              | Heart                   | Intestine Large - Cecum   |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic      | Liver                    | Lung                    | Lymph Node - Mandibular   |
| Lymph Node - Mesenteric | Mammary Gland            | Nose                    | Pancreas                  |
| Parathyroid Gland       | Pituitary Gland          | Salivary Glands         | Skin                      |
| Spleen                  | Stomach - Glandular      | Trachea                 |                           |

**MISSING**

Intestine Small - Duodenum

**OBSERVATIONS**

|                               |                     |                |                |
|-------------------------------|---------------------|----------------|----------------|
| Brain                         | Thalamus            | Mineralization | Minimal        |
| Kidney                        | Transit Epithe      | Hyperplasia    | Minimal        |
| Ovary                         |                     | Cyst           |                |
| Stomach                       | Forestomach, Mucosa | Hyperplasia    | Minimal        |
| Thymus                        |                     | Thymoma Benign |                |
| Note: THYMOMA BGN TGLs = 3-21 |                     |                |                |
| Thyroid Gland                 |                     | Degeneration   | Cystic, Mild   |
| Urinary Bladder               |                     | Hyperplasia    | Lymphoid, Mild |
| Uterus                        |                     | Hydrometra     | Moderate       |
|                               |                     | Hyperplasia    | Cystic, Mild   |
|                               |                     | Metaplasia     | Squamous, Mild |
| Note: HYPERPLASIA TGLs = 1-7  |                     |                |                |
| Note: HYDROMETRA TGLs = 2-7-1 |                     |                |                |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 874

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043585

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Mammary Gland            | Nose                       | Ovary                   |
| Pancreas                  | Parathyroid Gland        | Pituitary Gland            | Salivary Glands         |
| Skin                      | Spleen                   | Stomach - Forestomach      | Thymus                  |
| Thyroid Gland             | Trachea                  | Urinary Bladder            |                         |

**OBSERVATIONS**

|  |              |                        |               |
|--|--------------|------------------------|---------------|
| Brain                                    | Thalamus     | Mineralization         | Minimal       |
| Kidney                                   | Renal Tubule | Regeneration           | Minimal       |
| Liver                                    |              | Hepatocellular Adenoma | Multiple, Two |
| Note: [ HEPATOCLR ADEN ] TGLs = 21,6,6.1 |              |                        |               |
| Stomach                                  | Glandular    | Cyst                   |               |
| Uterus                                   |              | Hydrometra             | Mild          |
|  |              | Hyperplasia            | Cystic, Mild  |
| Note: HYDROMETRA TGLs = 2-7              |              |                        |               |
| Note: HYPERPLASIA TGLs = 1-7             |              |                        |               |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 875

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043586

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                          |                         |                           |
|-------------------------|--------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla | Bone                     | Bone Marrow             | Brain                     |
| Esophagus               | Gallbladder              | Heart                   | Intestine Large - Cecum   |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Lymph Node - Mandibular | Lymph Node - Mesenteric  | Mammary Gland           | Nose                      |
| Ovary                   | Pancreas                 | Parathyroid Gland       | Salivary Glands           |
| Skin                    | Stomach - Forestomach    | Thymus                  | Trachea                   |

**MISSING**

Intestine Small - Duodenum

**OBSERVATIONS**

|                      |               |                                   |                   |
|----------------------|---------------|-----------------------------------|-------------------|
| Adrenal Gland        | Cortex        | Accessory Adrenal Cortical Nodule |                   |
| Islets, Pancreatic   |               | Hyperplasia                       | Mild              |
| Kidney               |               | Hyperplasia                       | Lymphoid, Mild    |
|                      |               | Lymphoma Malignant Mixed          |                   |
| Liver                |               | Basophilic Focus                  | Moderate          |
|                      |               | Hematopoietic Cell Proliferation  | Mild              |
|                      |               | Lymphoma Malignant Mixed          |                   |
| Lung                 |               | Hyperplasia                       | Lymphoid, Mild    |
| Lymph Node           | Iliac         | Hyperplasia                       | Lymphoid, Mild    |
|                      | Renal         | Lymphoma Malignant Mixed          |                   |
| Note: LYMPH MAL MIXD |               |                                   |                   |
| TGLs = 3-22          |               |                                   |                   |
| Note: HYPERPLASIA    |               |                                   |                   |
| TGLs = 4-23          |               |                                   |                   |
| Pituitary Gland      | Pars Distalis | Angiectasis                       | Minimal           |
| Spleen               |               | Hematopoietic Cell Proliferation  | Moderate          |
|                      |               | Lymphoma Malignant Mixed          |                   |
| Note: LYMPH MAL MIXD |               |                                   |                   |
| TGLs = 1-6,2-21      |               |                                   |                   |
| Note: HEMA CELL PROL |               |                                   |                   |
| TGLs = 1-6           |               |                                   |                   |
| Stomach              | Glandular     | Inflammation                      | Subacute, Mild    |
| Thyroid Gland        |               | Degeneration                      | Cystic, Minimal   |
|                      |               | Inflammation                      | Subacute, Minimal |
| Urinary Bladder      |               | Hyperplasia                       | Lymphoid, Mild    |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 875

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043586

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Uterus

Hyperplasia

Cystic, Mild

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 876

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 547

**DOSE:** 0.00500%CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87043587

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Mammary Gland  
Parathyroid Gland  
Stomach - Forestomach  
Urinary Bladder

Adrenal Gland - Medulla  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Nose  
Pituitary Gland  
Stomach - Glandular

Bone  
Heart  
Intestine Small - Duodenum  
Lung  
Ovary  
Salivary Glands  
Thyroid Gland

Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mandibular  
Pancreas  
Skin  
Trachea

**OBSERVATIONS**

Bone Marrow  
Note: MODERATE AMOUNT OF HEMOSIDERIN-LIKE PIGMENT IN  
Note: PHAGOCYTIC CELLS

Hypercellularity Mild

Kidney  
Liver  
Lymph Node  
Spleen  
Centrilobular  
Mesenteric  
Lymph Follic

Hyperplasia  
Necrosis  
Depletion Cellular  
Atrophy  
Hematopoietic Cell Proliferation  
Depletion Cellular  
Hyperplasia  
Lymphoid, Minimal  
Mild  
Mild  
Mild  
Moderate  
Moderate  
Cystic, Mild

Thymus  
Uterus  
Note: HYPERPLASIA TGLs = 2-7

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 877

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043588

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Brain                   |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Mammary Gland           |
| Nose                      | Ovary                    | Pancreas                   | Parathyroid Gland       |
| Pituitary Gland           | Salivary Glands          | Skin                       | Stomach - Forestomach   |
| Stomach - Glandular       | Thymus                   | Thyroid Gland              | Trachea                 |

**OBSERVATIONS**

|   |              |                                  |                   |
|---|--------------|----------------------------------|-------------------|
| Adrenal Gland   | Cortex       | Cyst                             |                   |
| Islets, Pancreatic  |              | Hyperplasia                      | Minimal           |
| Kidney  | Renal Tubule | Regeneration                     | Minimal           |
| Liver   |              | Hepatocellular Adenoma           | Multiple, Three   |
|   |              | Hepatocellular Carcinoma         |                   |
|   |              | Hyperplasia                      | Focal, Mild       |
|   |              | Inflammation                     | Chronic, Moderate |
|   | Hepatocyte   | Karyomegaly                      | Mild              |
|   | Hepatocyte   | Vacuolization Cytoplasmic        | Moderate          |
| Note: PORTION OF HEPATOCELLULAR CARCINOMA ALSO ON SLIDE 6 |              |                                  |                   |
| Note: VACUOLIZ CYTO TGLs = 3-6                            |              |                                  |                   |
| Note: INFLAMMATION TGLs = 3-6                             |              |                                  |                   |
| Note: [ HEPATOCLR CARC ] TGLs = 24                        |              |                                  |                   |
| [ Karyomegaly TGLS = 9-25,10-26 ]                         |              |                                  |                   |
| [ Vacuolization Cytoplasmic TGLS = 3-6 ]                  |              |                                  |                   |
| Lung  |              | Alveolar/Bronchiolar Carcinoma   |                   |
| [ Alveolar/Bronchiolar Carcinoma TGLS = 8-2-1 ]           |              |                                  |                   |
| Spleen  |              | Angiectasis                      | Mild              |
|   |              | Hematopoietic Cell Proliferation | Mild              |
| Note: HEMA CELL PROL TGLs = 2-6                           |              |                                  |                   |
| Urinary Bladder   |              | Hyperplasia                      | Lymphoid, Minimal |
| Uterus  |              | Hydrometra                       | Marked            |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 877

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043588

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Hyperplasia

Cystic, Moderate

Note: HYDROMETRA TGLs = 1-7

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 878

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 397

**DOSE:** 0.00500%CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A86037776

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Liver                      | Lung                    | Lymph Node - Mandibular   |
| Lymph Node - Mesenteric  | Mammary Gland              | Nose                    | Ovary                     |
| Pancreas                 | Parathyroid Gland          | Salivary Glands         | Skin                      |
| Stomach - Glandular      | Thymus                     | Thyroid Gland           | Trachea                   |
| Urinary Bladder          |                            |                         |                           |

**OBSERVATIONS**

|   |                     |                                   |                 |
|---|---------------------|-----------------------------------|-----------------|
| Adrenal Gland   | Cortex              | Accessory Adrenal Cortical Nodule |                 |
| Brain   | Thalamus            | Compression                       |                 |
|   |                     | Mineralization                    | Minimal         |
|   |                     | Necrosis                          | Mild            |
| [ Mineralization TGLS = 3-1 ]                               |                     |                                   |                 |
| Kidney  | Renal Tubule        | Casts Protein                     | Mild            |
|   | Renal Tubule        | Dilatation                        | Moderate        |
|   |                     | Regeneration                      | Minimal         |
| Note: THE DILATATION INVOLVES TUBULES DISTRIBUTED DIFFUSELY |                     |                                   |                 |
| Note: THROUGHOUT THE CORTEX.                                |                     |                                   |                 |
| Pituitary Gland   | Pars Distalis       | Adenoma                           |                 |
| Note: ADENOMA TGLs = 2-1                                    |                     |                                   |                 |
| Spleen  | Lymph Follic        | Hyperplasia                       | Moderate        |
| Stomach   | Forestomach, Mucosa | Hyperplasia                       | Mild            |
| Uterus  |                     | Hyperplasia                       | Cystic, Minimal |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 879 | <b>TRT#:</b> 15               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 737 |
|                       | <b>DOSE:</b> 0.00500%CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87043589 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex   | Adrenal Gland - Medulla    | Bone                    | Bone Marrow               |
| Esophagus                | Gallbladder                | Heart                   | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Liver                    | Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   |
| Mammary Gland            | Nose                       | Pancreas                | Parathyroid Gland         |
| Pituitary Gland          | Skin                       | Spleen                  | Stomach - Forestomach     |
| Stomach - Glandular      | Thyroid Gland              | Trachea                 | Urinary Bladder           |

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**MISSING**

|                         |       |
|-------------------------|-------|
| Intestine Large - Cecum | Ovary |
|-------------------------|-------|

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**OBSERVATIONS**

|                    |              |                |                    |
|--------------------|--------------|----------------|--------------------|
| Brain              | Thalamus     | Mineralization | Moderate           |
| Islets, Pancreatic |              | Hyperplasia    | Moderate           |
| Kidney             |              | Mineralization | Minimal            |
|                    | Renal Tubule | Regeneration   | Minimal            |
| Salivary Glands    |              | Hyperplasia    | Lymphoid, Moderate |
| Thymus             |              | Cyst           |                    |
| Uterus             |              | Hyperplasia    | Cystic, Mild       |

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**PRIMARY CAUSE OF DEATH** -

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Animal Note: INFUSION ARTIFACT IN URINARY BLADDER

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 880

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043590

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mesenteric    |
| Mammary Gland           | Pancreas                  | Parathyroid Gland        | Pituitary Gland            |
| Salivary Glands         | Skin                      | Spleen                   | Stomach - Forestomach      |
| Stomach - Glandular     | Trachea                   | Urinary Bladder          |                            |

**OBSERVATIONS**

|   |                |                                |                    |
|---|----------------|--------------------------------|--------------------|
| Kidney  | Renal Tubule   | Atrophy                        | Minimal            |
|   |                | Mineralization                 | Minimal            |
|   | Renal Tubule   | Regeneration                   | Mild               |
| Liver   |                | Hyperplasia                    | Focal, Marked      |
|   |                | Inflammation                   | Subacute, Minimal  |
| Note: HYPERPLASIA TGLs = 9-22   |                |                                |                    |
| Lung  |                | Alveolar/Bronchiolar Carcinoma |                    |
|   |                | Infiltration Cellular          | Histiocyte, Marked |
| Note: INFILTRAT CELL TGLs = 7-2<br>[ Infiltration Cellular TGLS = 6-2 ] |                |                                |                    |
| Lymph Node  | Mandibular     | Hyperplasia                    | Lymphoid, Mild     |
|   | Mediastinal    | Hyperplasia                    | Lymphoid, Mild     |
| Note: HYPERPLASIA TGLs = 8-2  |                |                                |                    |
| Nose  |                | Exudate                        |                    |
| Ovary   |                | Angiectasis                    | Mild               |
| Thymus  |                | Cyst                           |                    |
| Thyroid Gland   |                | Degeneration                   | Cystic, Minimal    |
|   | Follicular Cel | Hyperplasia                    | Minimal            |
| Uterus  |                | Angiectasis                    | Marked             |
|   |                | Hydrometra                     | Marked             |
|   |                | Hyperplasia                    | Cystic, Mild       |
| Note: HYPERPLASIA TGLs = 5-7  |                |                                |                    |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 880

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043590

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: HYDROMETRA TGLs = 1-7,2-7,4-7

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE



Experiment Number: 05089-02  
Test Type: CHRONIC  
Route: DOSED WATER  
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA  
Test Compound: Chloraminated water  
CAS Number: CHLORAMINEMX

Date Report Requested: 10/20/2014  
Time Report Requested: 00:10:15  
First Dose M/F: NA / NA  
Lab: SRI

ANIMAL ID: 881      TRT#: 15      SEX: Female      DAY ON TEST: 585  
DOSE: 0.00500%CHLORAMI      DISP: Natural Death      HISTO: A87043591

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Mammary Gland            | Nose                       | Ovary                   |
| Pancreas                  | Parathyroid Gland        | Pituitary Gland            | Salivary Glands         |
| Skin                      | Stomach - Forestomach    | Thymus                     | Thyroid Gland           |
| Trachea                   |                          |                            |                         |

MISSING

Urinary Bladder

OBSERVATIONS

|  |              |                                  |              |
|--|--------------|----------------------------------|--------------|
| Brain  | Thalamus     | Mineralization                   | Minimal      |
| Kidney   |              | Casts Protein                    | Minimal      |
|  | Renal Tubule | Regeneration                     | Mild         |
| Liver  |              | Hepatocellular Carcinoma         |              |
|  | Lobules      | Necrosis                         | Marked       |
| Note: HEPATOCLR CARC TGLs = 1-21                     |              |                                  |              |
| Note: PORTION OF HEPATOCELLULAR CARCINOMA ON SLIDE 6 |              |                                  |              |
| Spleen   |              | Hematopoietic Cell Proliferation | Mild         |
| Stomach  | Glandular    | Edema                            | Mild         |
| Uterus   |              | Hyperplasia                      | Cystic, Mild |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 882

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0.00500%CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87043592

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                          |                         |                           |
|-------------------------|--------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla  | Bone                    | Bone Marrow               |
| Esophagus               | Gallbladder              | Heart                   | Intestine Large - Cecum   |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic      | Mammary Gland            | Nose                    | Ovary                     |
| Parathyroid Gland       | Pituitary Gland          | Stomach - Forestomach   | Trachea                   |

**OBSERVATIONS**

|                        |                  |                                  |                          |
|------------------------|------------------|----------------------------------|--------------------------|
| Brain                  | Thalamus         | Mineralization                   | Moderate                 |
| Intestine Small        | Duodenum         | Fibrous Histiocytoma             |                          |
| Kidney                 |                  | Fibrous Histiocytoma             |                          |
|                        |                  | Hydronephrosis                   | Mild                     |
| Liver                  |                  | Fibrous Histiocytoma             |                          |
| Note: FIB HISTIOCYT    | TGLs = 3-6       |                                  |                          |
| Lung                   |                  | Fibrous Histiocytoma             |                          |
| Note: FIB HISTIOCYT    | TGLs = 5-2,5-2-1 |                                  |                          |
| Lymph Node             | Mesenteric       | Fibrous Histiocytoma             |                          |
|                        | Renal            | Fibrous Histiocytoma             |                          |
|                        | Mandibular       | Hyperplasia                      | Lymphoid, Moderate       |
| Note: FIB HISTIOCYT    | TGLs = 6-22      |                                  |                          |
| Note: FIB HISTIOCYT    | TGLs = 4-5       |                                  |                          |
| Pancreas               |                  | Fibrous Histiocytoma             |                          |
| Salivary Glands        |                  | Hyperplasia                      | Lymphoid, Moderate       |
| Skin                   |                  | Inflammation                     | Chronic, Focal, Moderate |
| Note: [ INFLAMMATION ] | TGLs = 21        |                                  |                          |
| Spleen                 |                  | Fibrous Histiocytoma             |                          |
|                        |                  | Hematopoietic Cell Proliferation | Mild                     |
| Note: HEMA CELL PROL   | TGLs = 2-6       |                                  |                          |
| Note: FIB HISTIOCYT    | TGLs = 2-6       |                                  |                          |
| Stomach                | Glandular        | Cyst                             |                          |
|                        | Glandular        | Fibrous Histiocytoma             |                          |
| Thymus                 |                  | Depletion Cellular               | Moderate                 |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 882

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0.00500%CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87043592

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

Thyroid Gland

Degeneration

Cystic, Minimal

Urinary Bladder

Hyperplasia

Lymphoid, Marked

Uterus

Hyperplasia

Cystic, Mild

Inflammation

Suppurative, Mild

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 883 | <b>TRT#:</b> 15               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 733 |
|                       | <b>DOSE:</b> 0.00500%CHLORAMI | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87043593 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Medulla    | Bone                    | Bone Marrow               | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Lymph Node - Mandibular    | Lymph Node - Mesenteric | Mammary Gland             | Nose                     |
| Pancreas                   | Pituitary Gland         | Salivary Glands           | Skin                     |
| Stomach - Glandular        | Trachea                 | Urinary Bladder           |                          |

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**MISSING**

|           |       |                   |               |
|-----------|-------|-------------------|---------------|
| Esophagus | Ovary | Parathyroid Gland | Thyroid Gland |
|-----------|-------|-------------------|---------------|

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**OBSERVATIONS**

|                              |                     |                                   |                    |
|------------------------------|---------------------|-----------------------------------|--------------------|
| Adrenal Gland                | Cortex              | Accessory Adrenal Cortical Nodule |                    |
| Brain                        | Thalamus            | Mineralization                    | Minimal            |
| Kidney                       | Renal Tubule        | Regeneration                      | Minimal            |
| Liver                        |                     | Basophilic Focus                  |                    |
| Lung                         |                     | Hyperplasia                       | Lymphoid, Mild     |
|                              |                     | Thrombosis                        |                    |
| Spleen                       | Lymph Follic        | Hyperplasia                       | Mild               |
|                              |                     | Pigmentation                      | Hemosiderin, Mild  |
| Note: HYPERPLASIA TGLs = 1-6 |                     |                                   |                    |
| Stomach                      | Forestomach, Mucosa | Hyperplasia                       | Minimal            |
| Thymus                       |                     | Hyperplasia                       | Lymphoid, Moderate |
| Uterus                       |                     | Hyperplasia                       | Cystic, Moderate   |

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 884

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043594

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone Marrow                | Brain                   |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Mammary Gland             | Nose                     | Pancreas                   | Parathyroid Gland       |
| Salivary Glands           | Skin                     | Spleen                     | Stomach - Forestomach   |
| Stomach - Glandular       | Thymus                   | Thyroid Gland              | Trachea                 |

**OBSERVATIONS**

|   |               |                              |                   |
|---|---------------|------------------------------|-------------------|
| Bone                                    |               | Hyperostosis                 | Moderate          |
| Kidney                                  | Renal Tubule  | Regeneration                 | Minimal           |
| Liver                                   |               | Hepatocellular Adenoma       |                   |
|   |               | Hyperplasia                  | Focal, Moderate   |
|   |               | Inflammation                 | Subacute, Minimal |
| Note: FOCAL HYPERPLASIA ALSO ON SLIDE 6 |               |                              |                   |
| Note: HYPERPLASIA TGLs = 4-23           |               |                              |                   |
| Lung                                    |               | Alveolar/Bronchiolar Adenoma |                   |
| Note: ALV BRON ADEN TGLs = 5-2          |               |                              |                   |
| Mesentery                               | Fat           | Necrosis                     | Marked            |
| Note: NECROSIS TGLs = 2-21              |               |                              |                   |
| Ovary                                   |               | Cyst                         |                   |
| Note: CYST TGLs = 1-7                   |               |                              |                   |
| Pituitary Gland                         | Pars Distalis | Hyperplasia                  | Moderate          |
| Urinary Bladder                         |               | Hyperplasia                  | Lymphoid, Mild    |
| Uterus                                  |               | Hyperplasia                  | Cystic, Marked    |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 885

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 661

**DOSE:** 0.00500%CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87043595

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Medulla | Bone Marrow               | Esophagus                | Gallbladder                |
| Heart                   | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Kidney                     |
| Lung                    | Lymph Node - Mandibular   | Lymph Node - Mesenteric  | Mammary Gland              |
| Nose                    | Pancreas                  | Parathyroid Gland        | Salivary Glands            |
| Skin                    | Stomach - Forestomach     | Stomach - Glandular      | Trachea                    |
| Urinary Bladder         |                           |                          |                            |

**MISSING**

Intestine Large - Cecum

**OBSERVATIONS**

|                    |                |                                   |                   |
|--------------------|----------------|-----------------------------------|-------------------|
| Adrenal Gland      | Cortex         | Accessory Adrenal Cortical Nodule |                   |
| Bone               |                | Hyperostosis                      | Minimal           |
| Brain              | Thalamus       | Mineralization                    | Mild              |
| Liver              | Lobules        | Necrosis                          | Minimal           |
| Ovary              |                | Angiectasis                       | Moderate          |
|                    |                | Cyst                              |                   |
| Note: CYST         | TGLs = 1-7     |                                   |                   |
| Pituitary Gland    | Pars Distalis  | Angiectasis                       | Moderate          |
|                    | Pars Distalis  | Hyperplasia                       | Mild              |
| Spleen             |                | Hematopoietic Cell Proliferation  | Moderate          |
| Thymus             |                | Cyst                              |                   |
| Thyroid Gland      | Follicular Cel | Hyperplasia                       | Mild              |
|                    |                | Inflammation                      | Subacute, Minimal |
| Uterus             |                | Hydrometra                        | Moderate          |
|                    |                | Hyperplasia                       | Cystic, Mild      |
|                    |                | Sarcoma Stromal                   |                   |
| Note: HYDROMETRA   | TGLs = 2-7     |                                   |                   |
| Note: SARC STROMAL | TGLs = 3-21    |                                   |                   |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 886

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 0.00500%CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87043596

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Medulla    | Bone                    | Bone Marrow               | Esophagus                |
| Gallbladder                | Heart                   | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Mammary Gland              | Nose                    | Parathyroid Gland         | Salivary Glands          |
| Stomach - Forestomach      | Stomach - Glandular     | Trachea                   | Urinary Bladder          |

**MISSING**

Intestine Large - Cecum

**OBSERVATIONS**

|                      |   |                                  |          |
|----------------------|---|----------------------------------|----------|
| Adrenal Gland        | Cortex                                    | Lymphoma Malignant Mixed         |          |
| Brain                | Thalamus                                  | Mineralization                   | Moderate |
| Kidney               |   | Hydronephrosis                   | Mild     |
|                      |   | Lymphoma Malignant Mixed         |          |
| Note: LYMPH MAL MIXD | TGLs = 9-5                                |                                  |          |
| Liver                |   | Hematopoietic Cell Proliferation | Mild     |
|                      |   | Lymphoma Malignant Mixed         |          |
| Note: LYMPH MAL MIXD | TGLs = 13-28,14-6                         |                                  |          |
| Lung                 |   | Lymphoma Malignant Mixed         |          |
| Note: LYMPH MAL MIXD | TGLs = 16-2,17-2,18-2                     |                                  |          |
| Lymph Node           | Axillary                                  | Lymphoma Malignant Mixed         |          |
|                      | Iliac                                     | Lymphoma Malignant Mixed         |          |
|                      | Inguinal                                  | Lymphoma Malignant Mixed         |          |
|                      | Mandibular                                | Lymphoma Malignant Mixed         |          |
|                      | Mediastinal                               | Lymphoma Malignant Mixed         |          |
|                      | Mesenteric                                | Lymphoma Malignant Mixed         |          |
|                      | Renal                                     | Lymphoma Malignant Mixed         |          |
| Note: LYMPH MAL MIXD | TGLs = 1-21                               |                                  |          |
| Note: LYMPH MAL MIXD | TGLs = 15-2-1                             |                                  |          |
|                      | [ Lymphoma Malignant Mixed TGLS = 8-24 ]  |                                  |          |
|                      | [ Lymphoma Malignant Mixed TGLS = 4-23 ]  |                                  |          |
|                      | [ Lymphoma Malignant Mixed TGLS = 12-27 ] |                                  |          |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 886 | <b>TRT#:</b> 15               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 730 |
|                       | <b>DOSE:</b> 0.00500%CHLORAMI | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87043596 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|   |               |                                  |                  |
|---|---------------|----------------------------------|------------------|
| [ Lymphoma Malignant Mixed TGLS = 10-25 ] |               |                                  |                  |
| [ Lymphoma Malignant Mixed TGLS = 3-8 ]   |               |                                  |                  |
| Mesentery                                 |               | Lymphoma Malignant Mixed         |                  |
| Note: LYMPH MAL MIXD TGLs = 11-26         |               |                                  |                  |
| Ovary                                     |               | Lymphoma Malignant Mixed         |                  |
| Note: LYMPH MAL MIXD TGLs = 6-7-1         |               |                                  |                  |
| Pancreas                                  |               | Lymphoma Malignant Mixed         |                  |
| Note: LYMPHOMA IS ON SLIDE 24             |               |                                  |                  |
| Pituitary Gland                           | Pars Distalis | Adenoma                          |                  |
| Note: ADENOMA TGLs = 19-1                 |               |                                  |                  |
| Skin                                      |               | Acanthosis                       | Minimal          |
| Note: ACANTHOSIS TGLs = 2-22              |               |                                  |                  |
| Spleen                                    |               | Hematopoietic Cell Proliferation | Mild             |
|   |               | Lymphoma Malignant Mixed         |                  |
| Note: LYMPH MAL MIXD TGLs = 5-6           |               |                                  |                  |
| Note: HEMA CELL PROL TGLs = 5-6           |               |                                  |                  |
| Thymus                                    |               | Lymphoma Malignant Mixed         |                  |
| Thyroid Gland                             |               | Degeneration                     | Cystic, Moderate |
| Uterus                                    |               | Hyperplasia                      | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 7-7              |               |                                  |                  |

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 887

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043597

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Liver                      | Lung                    | Lymph Node - Mandibular   |
| Lymph Node - Mesenteric  | Mammary Gland              | Nose                    | Ovary                     |
| Pancreas                 | Parathyroid Gland          | Salivary Glands         | Spleen                    |
| Stomach - Forestomach    | Thymus                     | Thyroid Gland           | Trachea                   |

**OBSERVATIONS**

|                              |               |                |                   |
|------------------------------|---------------|----------------|-------------------|
| Adrenal Gland                | Cortex        | Cyst           |                   |
| Brain                        | Thalamus      | Mineralization | Mild              |
| Kidney                       |               | Hyperplasia    | Lymphoid, Minimal |
|                              | Renal Tubule  | Regeneration   | Minimal           |
| Pituitary Gland              | Pars Distalis | Adenoma        |                   |
|                              | Pars Distalis | Hyperplasia    | Moderate          |
| Skin                         |               | Acanthosis     | Minimal           |
| Note: ACANTHOSIS TGLs = 1-21 |               |                |                   |
| Stomach                      | Glandular     | Cyst           |                   |
| Urinary Bladder              |               | Hyperplasia    | Lymphoid, Mild    |
| Uterus                       |               | Angiectasis    | Mild              |
|                              |               | Hyperplasia    | Cystic, Mild      |
|                              |               | Metaplasia     | Squamous, Minimal |

Note: HYPERPLASIA TGLs = 2-7

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 888 | <b>TRT#:</b> 15               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 730 |
|                       | <b>DOSE:</b> 0.00500%CHLORAMI | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87043598 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

---

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex   | Adrenal Gland - Medulla    | Bone                    | Brain                     |
| Esophagus                | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   |
| Mammary Gland            | Nose                       | Ovary                   | Parathyroid Gland         |
| Skin                     | Stomach - Forestomach      | Stomach - Glandular     | Trachea                   |
| Urinary Bladder          |                            |                         |                           |

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**MISSING**

|             |        |
|-------------|--------|
| Gallbladder | Thymus |
|-------------|--------|

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**OBSERVATIONS**

|                                  |               |                                  |                   |
|----------------------------------|---------------|----------------------------------|-------------------|
| Bone Marrow                      |               | Hypercellularity                 | Mild              |
| Kidney                           | Renal Tubule  | Regeneration                     | Minimal           |
| Liver                            |               | Hepatocellular Adenoma           |                   |
|                                  |               | Hepatocellular Carcinoma         |                   |
| Note: HEPATOCLR ADEN TGLs = 1-21 |               |                                  |                   |
| Note: HEPATOCLR CARC TGLs = 2-22 |               |                                  |                   |
| Pancreas                         |               | Hyperplasia                      | Lymphoid, Mild    |
| Pituitary Gland                  | Pars Distalis | Adenoma                          |                   |
| [ Adenoma TGLS = 3-1 ]           |               |                                  |                   |
| Salivary Glands                  |               | Hyperplasia                      | Lymphoid, Minimal |
| Spleen                           |               | Hematopoietic Cell Proliferation | Minimal           |
| Thyroid Gland                    |               | Degeneration                     | Cystic, Minimal   |
| Uterus                           |               | Hyperplasia                      | Cystic, Moderate  |

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 889

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 648

**DOSE:** 0.00500%CHLORAMI

**DISP:** Natural Death

**HISTO:** A87043599

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone Marrow                | Brain                   |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Kidney                     | Lung                    |
| Lymph Node - Mandibular   | Mammary Gland            | Nose                       | Pancreas                |
| Parathyroid Gland         | Pituitary Gland          | Salivary Glands            | Skin                    |
| Stomach - Glandular       | Trachea                  | Urinary Bladder            |                         |

**OBSERVATIONS**

|   |                     |                                  |               |
|---|---------------------|----------------------------------|---------------|
| Bone  |                     | Hyperostosis                     | Mild          |
| Liver   |                     | Hepatocellular Carcinoma         | Multiple, Two |
|   | Lobules             | Necrosis                         | Marked        |
| Note: HEPATOCLR CARC  | TGLs = 4-21,5-22    |                                  |               |
| Lymph Node  | Mesenteric          | Hemorrhage                       | Minimal       |
| Ovary   |                     | Cyst                             |               |
| Note: CYST  | TGLs = 2-7-1        |                                  |               |
| Note: CYST ALSO PRESENT ON SLIDE 7;CYST ON SLIDE 7-1 IS LARGE |                     |                                  |               |
| Note: AND CONTAINS BLOOD                                      |                     |                                  |               |
| Spleen  | Lymph Follic        | Atrophy                          | Mild          |
|   |                     | Hematopoietic Cell Proliferation | Moderate      |
| Stomach   | Forestomach, Mucosa | Hyperplasia                      | Mild          |
| Thymus  |                     | Depletion Cellular               | Moderate      |
| Thyroid Gland   |                     | Degeneration                     | Cystic, Mild  |
| Uterus  |                     | Hyperplasia                      | Cystic, Mild  |
|   |                     | Polyp Stromal                    |               |
| Note: HYPERPLASIA   | TGLs = 3-7          |                                  |               |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 890

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043600

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                          |                            |                         |
|-------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus               | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Lung                    | Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Mammary Gland           |
| Nose                    | Ovary                    | Pancreas                   | Parathyroid Gland       |
| Pituitary Gland         | Skin                     | Stomach - Forestomach      | Stomach - Glandular     |
| Thymus                  | Trachea                  | Urinary Bladder            |                         |

**MISSING**

Intestine Small - Jejunum

**OBSERVATIONS**

|                              |                |                |                   |
|------------------------------|----------------|----------------|-------------------|
| Brain                        | Thalamus       | Mineralization | Minimal           |
| Islets, Pancreatic           |                | Hyperplasia    | Minimal           |
| Kidney                       |                | Mineralization | Minimal           |
|                              | Renal Tubule   | Regeneration   | Minimal           |
| Liver                        |                | Hyperplasia    | Focal, Mild       |
| Salivary Glands              |                | Hyperplasia    | Lymphoid, Minimal |
| Spleen                       | Lymph Follic   | Hyperplasia    | Mild              |
| Note: HYPERPLASIA TGLs = 2-6 |                |                |                   |
| Thyroid Gland                | Follicular Cel | Adenoma        |                   |
|                              |                | Degeneration   | Cystic, Minimal   |
| Uterus                       |                | Hyperplasia    | Cystic, Mild      |
|                              |                | Hyperplasia    | Lymphoid, Mild    |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 891

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043601

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Brain                   |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Kidney                     | Liver                   |
| Lymph Node - Mesenteric   | Mammary Gland            | Nose                       | Pancreas                |
| Parathyroid Gland         | Pituitary Gland          | Salivary Glands            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Trachea                    | Urinary Bladder         |

**OBSERVATIONS**

|                            |             |                                   |                    |
|----------------------------|-------------|-----------------------------------|--------------------|
| Adrenal Gland              | Cortex      | Accessory Adrenal Cortical Nodule |                    |
| Eye                        | Cornea      | Inflammation                      | Chronic, Mild      |
| Note: INFLAMMATION         | TGLs = 1-21 |                                   |                    |
| Harderian Gland            |             | Adenoma                           |                    |
| Note: ADENOMA              | TGLs = 3-22 |                                   |                    |
| Lung                       |             | Hyperplasia                       | Lymphoid, Minimal  |
| Lymph Node                 | Mandibular  | Hyperplasia                       | Plasma Cell, Mild  |
| Ovary                      |             | Angiectasis                       | Mild               |
| Note: ANGIECTASIS          | TGLs = 5-7  |                                   |                    |
| Stomach                    | Glandular   | Cyst                              |                    |
| Thymus                     |             | Angiectasis                       | Mild               |
|                            |             | Hyperplasia                       | Lymphoid, Moderate |
| [ Angiectasis TGLS = 4-2 ] |             |                                   |                    |
| Thyroid Gland              |             | Degeneration                      | Cystic, Minimal    |
| Uterus                     |             | Hyperplasia                       | Cystic, Moderate   |
| Note: HYPERPLASIA          | TGLs = 2-7  |                                   |                    |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 892

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043602

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Brain                   |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Kidney                     | Lung                    |
| Lymph Node - Mandibular   | Lymph Node - Mesenteric  | Mammary Gland              | Nose                    |
| Pancreas                  | Parathyroid Gland        | Salivary Glands            | Stomach - Forestomach   |
| Trachea                   |                          |                            |                         |

**OBSERVATIONS**

|                                  |                |                        |                   |
|----------------------------------|----------------|------------------------|-------------------|
| Adrenal Gland                    | Cortex, X-Zone | Degeneration           | Fatty, Moderate   |
| Liver                            |                | Basophilic Focus       |                   |
| Ovary                            |                | Angiectasis            | Moderate          |
|                                  |                | Cyst                   |                   |
| Pituitary Gland                  | Pars Distalis  | Adenoma                |                   |
| Skin                             |                | Mast Cell Tumor Benign |                   |
| Note: MAST CL TM BGN TGLs = 4-21 |                |                        |                   |
| Spleen                           |                | Pigmentation           | Hemosiderin, Mild |
| Stomach                          | Glandular      | Cyst                   |                   |
| Thymus                           |                | Cyst                   |                   |
| Thyroid Gland                    | Follicular Cel | Hyperplasia            | Marked            |
|                                  |                | Hyperplasia            | Lymphoid, Mild    |
| Note: HYPERPLASIA TGLs = 3-3     |                |                        |                   |
| Urinary Bladder                  |                | Hyperplasia            | Lymphoid, Mild    |
| Uterus                           |                | Hydrometra             | Marked            |
|                                  |                | Hyperplasia            | Cystic, Mild      |
| Note: HYDROMETRA TGLs = 1-7-1    |                |                        |                   |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 893

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.00500%CHLORAMI

**DISP:** Terminal Sacrifice

**HISTO:** A87043603

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex   | Adrenal Gland - Medulla    | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   |
| Mammary Gland            | Nose                       | Ovary                   | Pancreas                  |
| Parathyroid Gland        | Pituitary Gland            | Skin                    | Stomach - Forestomach     |
| Stomach - Glandular      | Thymus                     | Trachea                 |                           |

**OBSERVATIONS**

|                              |                |                        |                    |
|------------------------------|----------------|------------------------|--------------------|
| Bone                         |                | Hyperostosis           | Mild               |
| Brain                        | Thalamus       | Mineralization         | Mild               |
| Kidney                       |                | Hyperplasia            | Lymphoid, Moderate |
|                              |                | Mineralization         | Minimal            |
|                              | Renal Tubule   | Regeneration           | Minimal            |
| Liver                        |                | Hepatocellular Adenoma |                    |
| Salivary Glands              |                | Hyperplasia            | Lymphoid, Minimal  |
| Spleen                       | Lymph Follic   | Hyperplasia            | Mild               |
| Note: HYPERPLASIA TGLs = 2-6 |                |                        |                    |
| Thyroid Gland                |                | Degeneration           | Cystic, Minimal    |
|                              | Follicular Cel | Hyperplasia            | Mild               |
| Urinary Bladder              |                | Hyperplasia            | Lymphoid, Moderate |
| Uterus                       |                | Hyperplasia            | Cystic, Mild       |
| Note: HYPERPLASIA TGLs = 1-7 |                |                        |                    |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 894

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 717

**DOSE:** 0.00500%CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87043604

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex   | Adrenal Gland - Medulla    | Bone                    | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lymph Node - Mesenteric    | Mammary Gland           | Nose                      |
| Pancreas                 | Parathyroid Gland          | Pituitary Gland         | Stomach - Forestomach     |
| Stomach - Glandular      | Thyroid Gland              | Trachea                 |                           |

**MISSING**

Lymph Node - Mandibular

**OBSERVATIONS**

|                      |                  |                                  |                    |
|----------------------|------------------|----------------------------------|--------------------|
| Bone Marrow          |                  | Hypercellularity                 | Mild               |
| Brain                | Thalamus         | Mineralization                   | Minimal            |
| Kidney               | Renal Tubule     | Atrophy                          | Mild               |
|                      |                  | Hemorrhage                       | Mild               |
| Liver                |                  | Clear Cell Focus                 |                    |
|                      |                  | Hepatocellular Adenoma           |                    |
|                      |                  | Hepatocellular Carcinoma         | Multiple, Two      |
|                      | Kupffer Cell     | Hyperplasia                      | Mild               |
|                      |                  | Hyperplasia                      | Focal, Moderate    |
| Note: HYPERPLASIA    | TGLs = 8-27      |                                  |                    |
| Note: HEPATOCLR CARC | TGLs = 4-23,7-26 |                                  |                    |
| Note: HEPATOCLR ADEN | TGLs = 6-25      |                                  |                    |
| Note: CLEAR CL FOCUS | TGLs = 5-24      |                                  |                    |
| Lung                 |                  | Hepatocellular Carcinoma         | Metastatic (Liver) |
| Mesentery            | Fat              | Necrosis                         | Marked             |
| Note: NECROSIS       | TGLs = 3-22      |                                  |                    |
| Ovary                |                  | Cyst                             |                    |
| Salivary Glands      |                  | Necrosis                         | Marked             |
| Skin                 | Subcut Tiss      | Schwannoma Malignant             |                    |
| Note: SCHWANNOMA MAL | TGLs = 1-21      |                                  |                    |
| Spleen               |                  | Hematopoietic Cell Proliferation | Mild               |

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 894

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 717

**DOSE:** 0.00500%CHLORAMI

**DISP:** Moribund Sacrifice

**HISTO:** A87043604

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                 |                    |                  |
|-----------------|--------------------|------------------|
| Thymus          | Depletion Cellular | Moderate         |
| Urinary Bladder | Edema              | Moderate         |
| Uterus          | Hyperplasia        | Cystic, Moderate |

Note: HYPERPLASIA TGLs = 2-7

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**PRIMARY CAUSE OF DEATH**

-

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Animal Note: GALLBLADDER IS ON SLIDE 26

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 895

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 698

**DOSE:** 0.00500%CHLORAMI

**DISP:** Natural Death

**HISTO:** A87043605

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                         |                          |
|-------------------------|---------------------------|-------------------------|--------------------------|
| Adrenal Gland - Medulla | Bone                      | Esophagus               | Gallbladder              |
| Heart                   | Intestine Large - Cecum   | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic      | Kidney                   |
| Lymph Node - Mandibular | Mammary Gland             | Nose                    | Pancreas                 |
| Parathyroid Gland       | Pituitary Gland           | Salivary Glands         | Skin                     |
| Stomach - Forestomach   | Stomach - Glandular       | Thymus                  | Thyroid Gland            |
| Trachea                 | Urinary Bladder           |                         |                          |

**AUTO PRECLUDES DIAG.**

Intestine Small - Duodenum

**OBSERVATIONS**

|  |                      |   |               |
|--|----------------------|---|---------------|
| Adrenal Gland  | Cortex, Zona Reticul | Proliferation                                 | Marked        |
| Bone Marrow  |                      | Hypercellularity                              | Mild          |
| Brain  | Thalamus             | Mineralization                                | Minimal       |
| Liver  |                      | Hematopoietic Cell Proliferation              | Mild          |
|  |                      | Hepatocellular Carcinoma                      | Multiple, Two |
|  | Lobules              | Lymphoma Malignant Undifferentiated Cell Type |               |
|  |                      | Necrosis                                      | Moderate      |
| Note: AND OVAL CELLS                                       |                      |   |               |
| Note: HEPATOCELLULAR CARCINOMA CONTAINS TUBULAR STRUCTURES |                      |   |               |
| Note: HEPATOCLR CARC TGLs = 6-21,7-22                      |                      |   |               |
| Lung   | Alveolar Epith       | Hyperplasia                                   | Minimal       |
|  |                      | Leukocytosis                                  | Mild          |
| Lymph Node   | Mesenteric           | Hematopoietic Cell Proliferation              | Mild          |
|  | Mesenteric           | Hemorrhage                                    | Marked        |
|  | Pancreatic           | Lymphoma Malignant Undifferentiated Cell Type |               |
| Note: HEMA CELL PROL TGLs = 11-5                           |                      |   |               |
| Note: HEMORRHAGE TGLs = 11-5                               |                      |   |               |
| Note: LYMPH MAL UNDF TGLs = 10-23                          |                      |   |               |
| Ovary  |                      | Angiectasis                                   | Moderate      |
|  |                      | Cyst  |               |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 895

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 698

**DOSE:** 0.00500%CHLORAMI

**DISP:** Natural Death

**HISTO:** A87043605

**ORGAN AND ACCOUNTABLE SITE STATUS**

Note: ANGIECTASIS TGLs = 9-7

Note: CYST TGLs = 4-7

Spleen

Hematopoietic Cell Proliferation

Marked

Lymphoma Malignant Undifferentiated Cell Type

Note: HEMA CELL PROL TGLs = 5-6

Note: LYMPH MAL UNDF TGLs = 5-6

Uterus

Angiectasis

Moderate

Hydrometra

Marked

Note: ANGIECTASIS TGLs = 8-7-1

Note: HYDROMETRA TGLs = 3-7

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 899

**TRT#:** 16

**SEX:** Female

**DAY ON TEST:** 101

**DOSE:** 0.00500% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** 39578

---

**OBSERVATIONS**

Uterus

Endometrium

Cyst

Minimal

[ Cyst TGLS = 7 ]

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**PRIMARY CAUSE OF DEATH**

-

---

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 900

**TRT#:** 16

**SEX:** Female

**DAY ON TEST:** 100

**DOSE:** 0.00500% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** 39579

---

**OBSERVATIONS**

Kidney

Renal Tubule

Regeneration

Minimal

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 901

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** 0.00500%CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** 37777

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**OBSERVATIONS**

Uterus

Hyperplasia

Cystic, Minimal

[ Hyperplasia TGLS = 7 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 902

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 456

**DOSE:** 0.00500%CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** 37778

---

**OBSERVATIONS**

Uterus

Hyperplasia

Cystic, Mild

[ Hyperplasia TGLS = 7 ]

---

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 903

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 458

**DOSE:** 0.00500%CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** 37779

---

**OBSERVATIONS**

Uterus

Hyperplasia

Cystic, Moderate

[ Hyperplasia TGLS = 7.1 ]

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 904

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** 0.00500%CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** 37780

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**OBSERVATIONS**

Uterus

Hyperplasia

Cystic, Moderate

[ Hyperplasia TGLS = 7 ]

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 905

**TRT#:** 15

**SEX:** Female

**DAY ON TEST:** 456

**DOSE:** 0.00500%CHLORAMI

**DISP:** Scheduled Sacrifice

**HISTO:** 37781

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**OBSERVATIONS**

Kidney

Renal Tubule

Regeneration

Minimal

Uterus

Hyperplasia

Cystic, Mild

Note: [ HYPERPLASIA ] TGLs = 7

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**PRIMARY CAUSE OF DEATH**

-

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**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 906

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043479

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                         |
|----------------------------|-------------------------|---------------------------|-------------------------|
| Adrenal Gland - Cortex     | Bone                    | Bone Marrow               | Esophagus               |
| Gallbladder                | Heart                   | Intestine Large - Cecum   | Intestine Large - Colon |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic      |
| Liver                      | Lymph Node - Mandibular | Lymph Node - Mesenteric   | Mammary Gland           |
| Nose                       | Pancreas                | Parathyroid Gland         | Salivary Glands         |
| Skin                       | Stomach - Forestomach   | Stomach - Glandular       | Thymus                  |
| Thyroid Gland              | Trachea                 | Urinary Bladder           |                         |

**MISSING**

Intestine Large - Rectum

**OBSERVATIONS**

|                                 |               |                                  |                |
|---------------------------------|---------------|----------------------------------|----------------|
| Adrenal Gland                   | Medulla       | Hyperplasia                      | Minimal        |
| Brain                           | Thalamus      | Mineralization                   | Mild           |
| Harderian Gland                 |               | Hyperplasia                      | Moderate       |
| Kidney                          |               | Hyperplasia                      | Lymphoid, Mild |
|                                 | Renal Tubule  | Regeneration                     | Minimal        |
| Lung                            |               | Hyperplasia                      | Lymphoid, Mild |
| Ovary                           |               | Angiectasis                      | Moderate       |
| Note: ANGIOECTASIS TGLs = 2-7   |               |                                  |                |
| Pituitary Gland                 | Pars Distalis | Hyperplasia                      | Mild           |
| Spleen                          |               | Hematopoietic Cell Proliferation | Minimal        |
|                                 | Lymph Follic  | Hyperplasia                      | Mild           |
| Note: HYPERPLASIA TGLs = 1-6    |               |                                  |                |
| Note: HEMA CELL PROL TGLs = 1-6 |               |                                  |                |
| Uterus                          |               | Hyperplasia                      | Cystic, Mild   |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 907

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043480

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Brain                   |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Mammary Gland             | Pancreas                 | Parathyroid Gland          | Salivary Glands         |
| Skin                      | Stomach - Forestomach    | Stomach - Glandular        | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**MISSING**

Ovary

**OBSERVATIONS**

|                                 |               |                                  |                 |
|---------------------------------|---------------|----------------------------------|-----------------|
| Bone Marrow                     |               | Hypercellularity                 | Moderate        |
| Kidney                          | Renal Tubule  | Regeneration                     | Minimal         |
| Liver                           |               | Hyperplasia                      | Focal, Mild     |
| Lung                            |               | Hyperplasia                      | Lymphoid, Mild  |
| Nose                            |               | Exudate                          |                 |
|                                 | Glands        | Hyperplasia                      | Cystic, Minimal |
| Pituitary Gland                 | Pars Distalis | Adenoma                          |                 |
| [ Adenoma TGLS = 3-1 ]          |               |                                  |                 |
| Spleen                          |               | Hematopoietic Cell Proliferation | Moderate        |
| Note: HEMA CELL PROL TGLs = 1-6 |               |                                  |                 |
| Thymus                          |               | Cyst                             |                 |
| Thyroid Gland                   |               | Degeneration                     | Cystic, Mild    |
| Uterus                          |               | Hydrometra                       | Moderate        |
|                                 |               | Hyperplasia                      | Cystic, Mild    |
| Note: HYPERPLASIA TGLs = 2-7    |               |                                  |                 |
| Note: HYDROMETRA TGLs = 2-7     |               |                                  |                 |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 908      **TRT#:** 19      **SEX:** Female      **DAY ON TEST:** 480  
**DOSE:** 0.0275% CHLORINE      **DISP:** Moribund Sacrifice      **HISTO:** A87043481

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Brain                   |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Mammary Gland             | Nose                     | Pancreas                   | Parathyroid Gland       |
| Pituitary Gland           | Stomach - Forestomach    | Stomach - Glandular        | Thymus                  |
| Trachea                   |                          |                            |                         |

**OBSERVATIONS**

|   |              |                                  |                       |
|---|--------------|----------------------------------|-----------------------|
| Bone Marrow                                     |              | Hypercellularity                 | Marked                |
| Kidney  |              | Hyperplasia                      | Lymphoid, Minimal     |
|   | Renal Tubule | Pigmentation                     | Moderate              |
|   | Renal Tubule | Regeneration                     | Minimal               |
| Liver   |              | Hematopoietic Cell Proliferation | Marked                |
|   | Lobules      | Necrosis                         | Moderate              |
| Note: NECROSIS      TGLs = 4-21                 |              |                                  |                       |
| Note: HEMA CELL PROL      TGLs = 2-6            |              |                                  |                       |
| Lymph Node                                      | Iliac        | Hematopoietic Cell Proliferation | Marked                |
|   | Mesenteric   | Hematopoietic Cell Proliferation | Mild                  |
|   | Renal        | Hematopoietic Cell Proliferation | Moderate              |
|   | Renal        | Hyperplasia                      | Plasma Cell, Moderate |
| Note: HEMA CELL PROL      TGLs = 5-22           |              |                                  |                       |
| Note: HEMA CELL PROL      TGLs = 6-23           |              |                                  |                       |
| Note: HYPERPLASIA      TGLs = 5-22              |              |                                  |                       |
| Ovary   |              | Cystadenocarcinoma               |                       |
| Note: CYSTADENOCARCINOMA IS WELL DIFFERENTIATED |              |                                  |                       |
| Note: CYSTADENOCARC      TGLs = 1-7-1           |              |                                  |                       |
| Salivary Glands                                 |              | Hyperplasia                      | Lymphoid, Minimal     |
| Skin  |              | Inflammation                     | Chronic, Minimal      |
| Spleen  |              | Hematopoietic Cell Proliferation | Marked                |
| Note: HEMA CELL PROL      TGLs = 2-6            |              |                                  |                       |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 908

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 480

**DOSE:** 0.0275% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87043481

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Thyroid Gland

Degeneration

Cystic, Minimal

Urinary Bladder

Hyperplasia

Lymphoid, Minimal

Uterus

Hyperplasia

Cystic, Mild

Note: HYPERPLASIA TGLs = 3-7

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 909

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 536

**DOSE:** 0.0275% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87043482

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Brain                   |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Kidney                     | Liver                   |
| Lung                      | Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Mammary Gland           |
| Nose                      | Ovary                    | Parathyroid Gland          | Pituitary Gland         |
| Salivary Glands           | Skin                     | Stomach - Forestomach      | Stomach - Glandular     |
| Trachea                   | Urinary Bladder          |                            |                         |

**OBSERVATIONS**

|               |              |                       |                   |
|---------------|--------------|-----------------------|-------------------|
| Adrenal Gland | Cortex       | Necrosis              | Minimal           |
| Pancreas      |              | Focal Cellular Change |                   |
| Spleen        | Lymph Follic | Atrophy               | Mild              |
|               |              | Congestion            | Moderate          |
| Thymus        |              | Depletion Cellular    | Mild              |
| Thyroid Gland |              | Degeneration          | Cystic, Minimal   |
| Uterus        |              | Hydrometra            | Marked            |
|               |              | Hyperplasia           | Cystic, Mild      |
|               |              | Inflammation          | Suppurative, Mild |

Note: HYPERPLASIA TGLs = 3-7  
Note: HYDROMETRA TGLs = 1-7-1,2-7-1  
Note: INFLAMMATION TGLs = 2-7-1

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 910

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043483

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Mammary Gland  
Skin  
Trachea

Adrenal Gland - Medulla  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Nose  
Spleen

Bone Marrow  
Heart  
Intestine Small - Duodenum  
Lymph Node - Mandibular  
Parathyroid Gland  
Stomach - Forestomach

Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mesenteric  
Salivary Glands  
Stomach - Glandular

**MISSING**

Ovary

**OBSERVATIONS**

|                 |                            |                  |                   |
|-----------------|----------------------------|------------------|-------------------|
| Bone            |                            | Hyperostosis     | Mild              |
| Kidney          | Renal Tubule               | Regeneration     | Minimal           |
| Liver           |                            | Basophilic Focus |                   |
| Lung            |                            | Hyperplasia      | Lymphoid, Minimal |
| Pancreas        |                            | Atrophy          | Minimal           |
| Pituitary Gland | Pars Distalis              | Angiectasis      | Moderate          |
|                 | Pars Distalis              | Hyperplasia      | Mild              |
|                 | [ Angiectasis TGLS = 2-1 ] |                  |                   |
| Thymus          |                            | Angiectasis      | Mild              |
| Thyroid Gland   | Follicular Cel             | Hyperplasia      | Moderate          |
| Urinary Bladder |                            | Hyperplasia      | Lymphoid, Minimal |
| Uterus          |                            | Hyperplasia      | Cystic, Mild      |
|                 |                            | Hyperplasia      | Lymphoid, Mild    |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 911

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043484

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Mammary Gland            | Nose                       | Pancreas                |
| Parathyroid Gland         | Pituitary Gland          | Salivary Glands            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Stomach - Glandular        | Thymus                  |
| Trachea                   | Urinary Bladder          |                            |                         |

**OBSERVATIONS**

|                                  |              |                        |                  |
|----------------------------------|--------------|------------------------|------------------|
| Brain                            | Thalamus     | Mineralization         | Mild             |
| Kidney                           | Renal Tubule | Regeneration           | Minimal          |
| Liver                            |              | Hepatocellular Adenoma |                  |
| Note: HEPATOCLR ADEN TGLs = 2-21 |              |                        |                  |
| Ovary                            |              | Angiectasis            | Mild             |
| Thyroid Gland                    |              | Degeneration           | Cystic, Mild     |
| Uterus                           |              | Hyperplasia            | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 1-7     |              |                        |                  |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 912

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 519

**DOSE:** 0.0275% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87043485

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Kidney                     | Liver                   | Lymph Node - Mandibular   |
| Lymph Node - Mesenteric  | Mammary Gland              | Nose                    | Pancreas                  |
| Parathyroid Gland        | Pituitary Gland            | Salivary Glands         | Skin                      |
| Stomach - Forestomach    | Stomach - Glandular        | Trachea                 | Urinary Bladder           |

**OBSERVATIONS**

|                                  |              |                                  |                 |
|----------------------------------|--------------|----------------------------------|-----------------|
| Adrenal Gland                    | Cortex       | Hyperplasia                      | Focal, Minimal  |
| Brain                            | Thalamus     | Mineralization                   | Mild            |
| Lung                             |              | Alveolar/Bronchiolar Adenoma     |                 |
| Note: ALV BRON ADEN TGLs = 5-2-1 |              |                                  |                 |
| Ovary                            |              | Cyst                             |                 |
| Note: CYST TGLs = 2-7            |              |                                  |                 |
| Skeletal Muscle                  |              | Sarcoma                          |                 |
| Spleen                           | Lymph Follic | Atrophy                          | Moderate        |
|                                  |              | Hematopoietic Cell Proliferation | Marked          |
| Note: HEMA CELL PROL TGLs = 3-6  |              |                                  |                 |
| Thymus                           |              | Depletion Cellular               | Mild            |
| Thyroid Gland                    |              | Degeneration                     | Cystic, Minimal |
| Uterus                           |              | Hyperplasia                      | Cystic, Minimal |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 913

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 693

**DOSE:** 0.0275% CHLORINE

**DISP:** Natural Death

**HISTO:** A87043486

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Esophagus  
Intestine Large - Colon  
Islets, Pancreatic  
Nose  
Skin  
Trachea

Adrenal Gland - Medulla  
Gallbladder  
Intestine Large - Rectum  
Liver  
Ovary  
Stomach - Forestomach  
Urinary Bladder

Bone  
Heart  
Intestine Small - Duodenum  
Lymph Node - Mandibular  
Pituitary Gland  
Stomach - Glandular

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Jejunum  
Mammary Gland  
Salivary Glands  
Thymus

**MISSING**

Lymph Node - Mesenteric

Parathyroid Gland

**AUTO PRECLUDES DIAG.**

Intestine Small - Ileum

**OBSERVATIONS**

Brain  
Kidney

Thalamus

Mineralization  
Hyperplasia  
Mineralization  
Congestion  
Hemorrhage  
Cytoplasmic Alteration  
Pigmentation  
Degeneration  
Hyperplasia

Mild  
Lymphoid, Minimal  
Minimal  
Moderate  
Moderate  
Marked  
Hemosiderin, Mild  
Cystic, Minimal  
Cystic, Mild

Lung

Pancreas  
Spleen  
Thyroid Gland  
Uterus

Note: HYPERPLASIA TGLs = 1-7

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 914 | <b>TRT#:</b> 19               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 733 |
|                       | <b>DOSE:</b> 0.0275% CHLORINE | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87043487 |

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Brain                   |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Mammary Gland           |
| Nose                      | Pancreas                 | Parathyroid Gland          | Skin                    |
| Stomach - Forestomach     | Stomach - Glandular      | Thymus                     | Trachea                 |

**OBSERVATIONS**

|   |                |                                   |                    |
|---|----------------|-----------------------------------|--------------------|
| Adrenal Gland                                 | Cortex         | Accessory Adrenal Cortical Nodule |                    |
| Harderian Gland                               |                | Adenoma                           |                    |
| Note: ADENOMA                                 | TGLs = 4-21    |                                   |                    |
| Islets, Pancreatic                            |                | Hyperplasia                       | Moderate           |
| Kidney  |                | Hyperplasia                       | Lymphoid, Minimal  |
|   | Renal Tubule   | Regeneration                      | Minimal            |
| Liver   |                | Hepatocellular Adenoma            |                    |
|   |                | Hyperplasia                       | Lymphoid, Minimal  |
| Note: HEPATOCLR ADEN                          | TGLs = 5-22    |                                   |                    |
| Lung  |                | Infiltration Cellular             | Histiocyte, Marked |
| Note: INFILTRAT CELL                          | TGLs = 3-2     |                                   |                    |
| Note: HISTIOCYTIC CELLS CONTAIN BROWN PIGMENT |                |                                   |                    |
| Ovary   |                | Cyst                              |                    |
| Note: CYST                                    | TGLs = 1-7     |                                   |                    |
| Pituitary Gland                               | Pars Distalis  | Hyperplasia                       | Mild               |
| Salivary Glands                               |                | Hyperplasia                       | Lymphoid, Minimal  |
| Spleen  | Red Pulp       | Hyperplasia                       | Mild               |
|   |                | Pigmentation                      | Hemosiderin, Mild  |
| Note: HYPERPLASIA                             | TGLs = 2-6     |                                   |                    |
| Thyroid Gland                                 | Follicular Cel | Hyperplasia                       | Minimal            |
| Urinary Bladder                               |                | Hyperplasia                       | Lymphoid, Minimal  |
| Uterus  |                | Hyperplasia                       | Cystic, Mild       |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 915

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043488

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       |
| Lymph Node - Mandibular | Lymph Node - Mesenteric   | Mammary Gland            | Nose                       |
| Ovary                   | Parathyroid Gland         | Pituitary Gland          | Salivary Glands            |
| Skin                    | Stomach - Forestomach     | Thymus                   | Thyroid Gland              |
| Trachea                 | Urinary Bladder           |                          |                            |

**OBSERVATIONS**

|  |              |                                  |                   |
|--|--------------|----------------------------------|-------------------|
| Clitoral Gland                                     |              | Ectasia                          | Moderate          |
| Kidney   | Renal Tubule | Atrophy                          | Minimal           |
|  | Renal Tubule | Hyperplasia                      | Lymphoid, Minimal |
|  |              | Regeneration                     | Minimal           |
| Liver  |              | Hepatocellular Adenoma           |                   |
| Note: HEPATOCLR ADEN TGLs = 4-21                   |              |                                  |                   |
| Note: PORTION OF HEPATOCELLULAR ADENOMA ON SLIDE 6 |              |                                  |                   |
| Pancreas   |              | Atrophy                          | Mild              |
| Spleen   |              | Hematopoietic Cell Proliferation | Mild              |
| Stomach  | Glandular    | Cyst                             |                   |
| Uterus   |              | Hydrometra                       | Marked            |
|  |              | Hyperplasia                      | Cystic, Marked    |
| Note: HYDROMETRA TGLs = 2-7                        |              |                                  |                   |
| Note: HYPERPLASIA TGLs = 3-7                       |              |                                  |                   |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 916

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0.0275% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87043489

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mesenteric    |
| Mammary Gland           | Nose                      | Ovary                    | Pancreas                   |
| Parathyroid Gland       | Pituitary Gland           | Skin                     | Stomach - Forestomach      |
| Stomach - Glandular     | Thyroid Gland             | Trachea                  |                            |

**OBSERVATIONS**

|   |              |                                  |                |
|---|--------------|----------------------------------|----------------|
| Harderian Gland                                 |              | Adenoma                          |                |
| Kidney  |              | Casts Protein                    | Mild           |
|   |              | Lymphoma Malignant Mixed         |                |
|   | Renal Tubule | Regeneration                     | Mild           |
| Liver   |              | Hepatocellular Carcinoma         |                |
|   | Kupffer Cell | Hyperplasia                      | Mild           |
| [ Hepatocellular Carcinoma TGLS = 4-21 ]        |              |                                  |                |
| Lung  |              | Congestion                       | Mild           |
|   |              | Hyperplasia                      | Lymphoid, Mild |
| Lymph Node                                      | Iliac        | Lymphoma Malignant Mixed         |                |
|   | Mandibular   | Lymphoma Malignant Mixed         |                |
|   | Renal        | Lymphoma Malignant Mixed         |                |
| Note: LYMPH MAL MIXD TGLs = 6-23                |              |                                  |                |
| Note: LYMPH MAL MIXD TGLs = 1-8                 |              |                                  |                |
| Note: LYMPH MAL MIXD TGLs = 5-22                |              |                                  |                |
| Mesentery                                       |              | Lymphoma Malignant Mixed         |                |
| Salivary Glands                                 |              | Hyperplasia                      | Lymphoid, Mild |
| Spleen  |              | Hematopoietic Cell Proliferation | Marked         |
|   |              | Lymphoma Malignant Mixed         |                |
| [ Hematopoietic Cell Proliferation TGLS = 3-6 ] |              |                                  |                |
| [ Lymphoma Malignant Mixed TGLS = 3-6 ]         |              |                                  |                |
| Thymus  |              | Lymphoma Malignant Mixed         |                |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 916

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0.0275% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87043489

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Urinary Bladder

Hyperplasia

Lymphoid, Mild

Uterus

Hydrometra

Marked

Note: [ HYDROMETRA ] TGLs = 7

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 917

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043490

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mesenteric |
| Mammary Gland             | Parathyroid Gland        | Pituitary Gland            | Salivary Glands         |
| Skin                      | Spleen                   | Stomach - Forestomach      | Stomach - Glandular     |
| Thymus                    | Trachea                  | Urinary Bladder            |                         |

**INSUFFICIENT TISSUE**

Lymph Node - Mandibular

**OBSERVATIONS**

|                      |              |                        |                   |
|----------------------|--------------|------------------------|-------------------|
| Brain                | Thalamus     | Mineralization         | Mild              |
| Kidney               | Renal Tubule | Regeneration           | Minimal           |
| Liver                |              | Hepatocellular Adenoma |                   |
| Note: HEPATOCLR ADEN | TGLs = 5-21  |                        |                   |
| Nose                 |              | Exudate                |                   |
|                      | Glands       | Hyperplasia            | Cystic, Minimal   |
| Ovary                |              | Cyst                   |                   |
| Note: CYST           | TGLs = 1-7   |                        |                   |
| Pancreas             |              | Atrophy                | Minimal           |
| Thyroid Gland        |              | Degeneration           | Cystic, Minimal   |
|                      |              | Inflammation           | Subacute, Minimal |
| Uterus               |              | Hydrometra             | Mild              |
|                      |              | Hyperplasia            | Cystic, Moderate  |
| Note: HYPERPLASIA    | TGLs = 2-7   |                        |                   |
| Note: HYDROMETRA     | TGLs = 3-7   |                        |                   |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 918

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 704

**DOSE:** 0.0275% CHLORINE

**DISP:** Natural Death

**HISTO:** A87043491

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                           |                         |                          |
|----------------------------|---------------------------|-------------------------|--------------------------|
| Adrenal Gland - Medulla    | Bone                      | Bone Marrow             | Esophagus                |
| Gallbladder                | Heart                     | Intestine Large - Colon | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Jejunum | Islets, Pancreatic      | Lung                     |
| Lymph Node - Mandibular    | Lymph Node - Mesenteric   | Mammary Gland           | Nose                     |
| Pancreas                   | Parathyroid Gland         | Pituitary Gland         | Salivary Glands          |
| Skin                       | Stomach - Forestomach     | Stomach - Glandular     | Thymus                   |
| Trachea                    | Urinary Bladder           |                         |                          |

**AUTO PRECLUDES DIAG.**

Intestine Large - Cecum

**INSUFFICIENT TISSUE**

Intestine Small - Ileum

**OBSERVATIONS**

|   |                |                                   |                   |
|---|----------------|-----------------------------------|-------------------|
| Adrenal Gland   | Cortex         | Accessory Adrenal Cortical Nodule |                   |
| Brain   | Thalamus       | Mineralization                    | Moderate          |
| Kidney  |                | Hyperplasia                       | Lymphoid, Minimal |
|   | Renal Tubule   | Pigmentation                      | Marked            |
|   | Renal Tubule   | Regeneration                      | Minimal           |
| Liver   |                | Hepatocellular Adenoma            |                   |
| Note: HEPATOCLR ADEN TGLs = 5-21                            |                |                                   |                   |
| Mesentery   | Fat            | Necrosis                          | Mild              |
| Note: NECROSIS TGLs = 6-22                                  |                |                                   |                   |
| Ovary   |                | Cyst                              |                   |
| Note: CYST TGLs = 3-7                                       |                |                                   |                   |
| Note: CYST CONTAINS CASEOUS MATERIAL & ORGANIZED HEMORRHAGE |                |                                   |                   |
| Spleen  |                | Hematopoietic Cell Proliferation  | Mild              |
| Note: HEMA CELL PROL TGLs = 4-6                             |                |                                   |                   |
| Thyroid Gland   | Follicular Cel | Adenoma                           |                   |
| Uterus  |                | Hydrometra                        | Marked            |
|   |                | Hyperplasia                       | Cystic, Moderate  |
| Note: HYDROMETRA TGLs = 2-7                                 |                |                                   |                   |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 918

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 704

**DOSE:** 0.0275% CHLORINE

**DISP:** Natural Death

**HISTO:** A87043491

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 919

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043492

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Liver                    | Lung                       |
| Lymph Node - Mandibular | Lymph Node - Mesenteric   | Mammary Gland            | Nose                       |
| Ovary                   | Pancreas                  | Parathyroid Gland        | Pituitary Gland            |
| Skin                    | Spleen                    | Stomach - Forestomach    | Thymus                     |
| Trachea                 | Urinary Bladder           |                          |                            |

**OBSERVATIONS**

|                    |              |              |                   |
|--------------------|--------------|--------------|-------------------|
| Islets, Pancreatic |              | Hyperplasia  | Mild              |
| Kidney             | Renal Tubule | Atrophy      | Minimal           |
|                    |              | Cyst         |                   |
| Salivary Glands    |              | Hyperplasia  | Lymphoid, Minimal |
| Stomach            | Glandular    | Cyst         |                   |
| Thyroid Gland      |              | Degeneration | Cystic, Mild      |
| Uterus             |              | Hyperplasia  | Cystic, Moderate  |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 920

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043493

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Kidney                     |
| Lung                    | Lymph Node - Mandibular   | Lymph Node - Mesenteric  | Mammary Gland              |
| Nose                    | Ovary                     | Pancreas                 | Parathyroid Gland          |
| Pituitary Gland         | Skin                      | Stomach - Forestomach    | Stomach - Glandular        |
| Thymus                  | Trachea                   |                          |                            |

**OBSERVATIONS**

|                                  |                |                                 |                                       |
|----------------------------------|----------------|---------------------------------|---------------------------------------|
| Liver                            |                | Clear Cell Focus<br>Hyperplasia | Lymphoid, Minimal                     |
| Note: CLEAR CL FOCUS TGLs = 2-21 |                |                                 |                                       |
| Salivary Glands                  |                | Hyperplasia                     | Lymphoid, Minimal                     |
| Spleen                           | Lymph Follic   | Hyperplasia                     | Mild                                  |
| Note: HYPERPLASIA TGLs = 1-6     |                |                                 |                                       |
| Thyroid Gland                    | Follicular Cel | Degeneration<br>Hyperplasia     | Cystic, Minimal<br>Minimal            |
| Urinary Bladder                  |                | Hyperplasia                     | Lymphoid, Mild                        |
| Uterus                           |                | Hyperplasia<br>Inflammation     | Cystic, Moderate<br>Suppurative, Mild |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 921

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043494

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex   | Adrenal Gland - Medulla    | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric | Mammary Gland             |
| Nose                     | Ovary                      | Pancreas                | Parathyroid Gland         |
| Pituitary Gland          | Salivary Glands            | Skin                    | Stomach - Forestomach     |
| Stomach - Glandular      | Thymus                     | Trachea                 | Urinary Bladder           |

**OBSERVATIONS**

|  |              |                                  |                    |
|--|--------------|----------------------------------|--------------------|
| Bone   |              | Hyperostosis                     | Minimal            |
| Brain  | Thalamus     | Mineralization                   | Mild               |
| Kidney   |              | Hyperplasia                      | Lymphoid, Minimal  |
|  |              | Mineralization                   | Minimal            |
|  | Renal Tubule | Regeneration                     | Minimal            |
| Liver  |              | Hepatocellular Adenoma           | Multiple, Two      |
| Note: HEPATOCLR ADEN TGLs = 3-21                               |              |                                  |                    |
| Note: ONE HEPATOCELLULAR ADENOMA ON SLIDE 6                    |              |                                  |                    |
| Lung   |              | Alveolar/Bronchiolar Carcinoma   |                    |
|  |              | Infiltration Cellular            | Histiocyte, Mild   |
| Note: ALV BRON CARC TGLs = 4-2                                 |              |                                  |                    |
| Spleen   |              | Angiectasis                      | Moderate           |
|  |              | Hematopoietic Cell Proliferation | Minimal            |
|  | Lymph Follic | Hyperplasia                      | Mild               |
| Thyroid Gland  |              | Degeneration                     | Cystic, Minimal    |
| Uterus   |              | Hydrometra                       | Marked             |
|  |              | Hyperplasia                      | Cystic, Moderate   |
|  |              | Metaplasia                       | Squamous, Moderate |
| Note: HYPERPLASIA TGLs = 2-7                                   |              |                                  |                    |
| Note: HYDROMETRA TGLs = 1-7                                    |              |                                  |                    |
| Note: SQUAMOUS METAPLASIA INVOLVES EPITHELIUM SURROUNDING AREA |              |                                  |                    |
| Note: OF HYDROMETRA  |              |                                  |                    |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 921

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043494

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 922

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043495

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Medulla    | Brain                   | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Lymph Node - Mandibular    | Lymph Node - Mesenteric | Mammary Gland             | Nose                     |
| Ovary                      | Pancreas                | Parathyroid Gland         | Skin                     |
| Stomach - Glandular        | Thymus                  | Trachea                   |                          |

**OBSERVATIONS**

|                                |                     |                                   |                    |
|--------------------------------|---------------------|-----------------------------------|--------------------|
| Adrenal Gland                  | Cortex              | Accessory Adrenal Cortical Nodule |                    |
| Bone                           |                     | Hyperostosis                      | Mild               |
| Bone Marrow                    |                     | Hypercellularity                  | Mild               |
| Kidney                         | Renal Tubule        | Atrophy                           | Mild               |
|                                |                     | Cyst                              |                    |
|                                |                     | Hyperplasia                       | Lymphoid, Moderate |
|                                |                     | Mineralization                    | Mild               |
| Liver                          |                     | Hepatocellular Adenoma            |                    |
|                                |                     | Hepatocellular Carcinoma          |                    |
|                                | Kupffer Cell        | Hyperplasia                       | Mild               |
|                                | Kupffer Cell        | Pigmentation                      | Mild               |
| Note: HYPERPLASIA TGLs = 4-21  |                     |                                   |                    |
| Lung                           |                     | Hepatocellular Carcinoma          | Metastatic (Liver) |
|                                |                     | Hyperplasia                       | Lymphoid, Minimal  |
| Pituitary Gland                | Pars Distalis       | Adenoma                           |                    |
| [ Adenoma TGLS = 7-1 ]         |                     |                                   |                    |
| Salivary Glands                |                     | Hyperplasia                       | Lymphoid, Mild     |
| Spleen                         |                     | Hematopoietic Cell Proliferation  | Mild               |
| Stomach                        | Forestomach, Mucosa | Hyperplasia                       | Mild               |
| Note: HYPERPLASIA TGLs = 8-4-1 |                     |                                   |                    |
| Thyroid Gland                  | Follicular Cel      | Hyperplasia                       | Marked             |
| Urinary Bladder                |                     | Hyperplasia                       | Lymphoid, Minimal  |
| Uterus                         |                     | Hydrometra                        | Marked             |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 922

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043495

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: HYDROMETRA TGLs = 1-7,2-7,3-7

PRIMARY CAUSE OF DEATH

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Animal Note: GALLBLADDER IS ON SLIDE 23

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 923

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043496

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Mammary Gland           |
| Nose                      | Ovary                    | Pancreas                   | Parathyroid Gland       |
| Pituitary Gland           | Skin                     | Stomach - Glandular        | Thymus                  |
| Trachea                   |                          |                            |                         |

**OBSERVATIONS**

|   |                |                                  |                   |
|---|----------------|----------------------------------|-------------------|
| Blood Vessel                                    |                | Hypertrophy                      | Moderate          |
| Note: HYPERTROPHIED VESSELS ARE IN UTERUS.      |                |                                  |                   |
| Brain   | Thalamus       | Mineralization                   | Minimal           |
| Harderian Gland                                 |                | Hyperplasia                      | Focal, Minimal    |
| Islets, Pancreatic                              |                | Hyperplasia                      | Minimal           |
| Kidney  | Renal Tubule   | Atrophy                          | Minimal           |
|   | Renal Tubule   | Metaplasia                       | Osseous, Minimal  |
|   |                | Regeneration                     | Minimal           |
| Liver   |                | Hepatocellular Adenoma           | > Five, Multiple  |
| Note: HEPATOCLR ADEN TGLs = 3-21,4-22,5-23,6-24 |                |                                  |                   |
| Note: HEPATOCELLULAR ADENOMA ALSO ON SLIDE 6    |                |                                  |                   |
| Lung  | Alveolar Epith | Hyperplasia                      | Mild              |
|   |                | Infiltration Cellular            | Histiocyte, Mild  |
| Salivary Glands                                 |                | Hyperplasia                      | Lymphoid, Mild    |
| Spleen  |                | Hematopoietic Cell Proliferation | Minimal           |
| Note: HEMA CELL PROL TGLs = 2-6                 |                |                                  |                   |
| Stomach   | Forestomach    | Squamous Cell Papilloma          |                   |
| Note: PAPILOMA SQUA TGLs = 7-4-1                |                |                                  |                   |
| Thyroid Gland                                   | Follicular Cel | Hyperplasia                      | Minimal           |
| Urinary Bladder                                 |                | Hyperplasia                      | Lymphoid, Minimal |
| Uterus  |                | Angiectasis                      | Moderate          |
|   |                | Hyperplasia                      | Cystic, Minimal   |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 923

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043496

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: HYPERPLASIA TGLs = 1-7

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 924

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 738

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043497

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                          |                            |                         |
|-------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus               | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Islets, Pancreatic      | Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Mammary Gland           |
| Nose                    | Parathyroid Gland        | Skin                       | Stomach - Forestomach   |
| Trachea                 | Urinary Bladder          |                            |                         |

**MISSING**

Thymus

**OBSERVATIONS**

|                                  |                |                                  |                   |
|----------------------------------|----------------|----------------------------------|-------------------|
| Brain                            | Thalamus       | Mineralization                   | Mild              |
| Intestine Small                  | Jejunum        | Hemangioma                       |                   |
| Note: HEMANGIOMA TGLs = 3-21     |                |                                  |                   |
| Kidney                           | Renal Tubule   | Casts Protein                    | Minimal           |
|                                  |                | Regeneration                     | Minimal           |
| Liver                            |                | Basophilic Focus                 |                   |
|                                  |                | Hepatocellular Adenoma           |                   |
| Note: HEPATOCLR ADEN TGLs = 5-22 |                | Hyperplasia                      | Lymphoid, Minimal |
| Lung                             |                | Congestion                       | Mild              |
|                                  |                | Hyperplasia                      | Lymphoid, Mild    |
| Ovary                            |                | Angiectasis                      | Mild              |
| Pancreas                         |                | Hyperplasia                      | Lymphoid, Mild    |
| Pituitary Gland                  | Pars Distalis  | Angiectasis                      | Mild              |
| Note: ANGIECTASIS TGLs = 4-1     |                |                                  |                   |
| Salivary Glands                  |                | Hyperplasia                      | Lymphoid, Mild    |
| Spleen                           |                | Hematopoietic Cell Proliferation | Minimal           |
| Note: HEMA CELL PROL TGLs = 2-6  |                |                                  |                   |
| Stomach                          | Glandular      | Inflammation                     | Subacute, Mild    |
| Thyroid Gland                    | Follicular Cel | Degeneration                     | Cystic, Minimal   |
|                                  |                | Hyperplasia                      | Minimal           |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 924

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 738

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043497

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Uterus

Hydrometra

Moderate

Hyperplasia

Cystic, Mild

Note: HYDROMETRA TGLs = 1-7

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 925

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 738

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043498

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mesenteric    | Mammary Gland           |
| Nose                      | Ovary                    | Parathyroid Gland          | Pituitary Gland         |
| Skin                      | Stomach - Forestomach    | Stomach - Glandular        | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**OBSERVATIONS**

|                      |                 |                          |                    |
|----------------------|-----------------|--------------------------|--------------------|
| Brain                | Thalamus        | Mineralization           | Mild               |
| Eye                  | Retina          | Atrophy                  | Marked             |
|                      |                 | Cataract                 | Moderate           |
| Note: CATARACT       | TGLs = 1-44     |                          |                    |
| Harderian Gland      |                 | Hyperplasia              | Focal, Minimal     |
| Kidney               |                 | Casts Protein            | Minimal            |
|                      |                 | Lymphoma Malignant Mixed |                    |
| Liver                |                 | Hepatocellular Adenoma   |                    |
|                      |                 | Lymphoma Malignant Mixed |                    |
|                      |                 | Mineralization           | Marked             |
| Note: LYMPH MAL MIXD | TGLs = 4-6,4-21 |                          |                    |
| Lung                 |                 | Hyperplasia              | Lymphoid, Moderate |
| Lymph Node           | Mandibular      | Lymphoma Malignant Mixed |                    |
|                      | Mediastinal     | Lymphoma Malignant Mixed |                    |
| Pancreas             |                 | Lymphoma Malignant Mixed |                    |
| Salivary Glands      |                 | Lymphoma Malignant Mixed |                    |
| Spleen               |                 | Lymphoma Malignant Mixed |                    |
| Note: LYMPH MAL MIXD | TGLs = 3-6      |                          |                    |
| Thymus               |                 | Lymphoma Malignant Mixed |                    |
| Thyroid Gland        |                 | Degeneration             | Cystic, Minimal    |
| Uterus               |                 | Hyperplasia              | Cystic, Mild       |
| Note: HYPERPLASIA    | TGLs = 2-7      |                          |                    |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 925

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 738

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043498

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 926

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 738

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043499

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Liver                      | Lung                    | Lymph Node - Mandibular   |
| Lymph Node - Mesenteric  | Mammary Gland              | Ovary                   | Pancreas                  |
| Parathyroid Gland        | Pituitary Gland            | Salivary Glands         | Skin                      |
| Spleen                   | Stomach - Forestomach      | Stomach - Glandular     | Thymus                    |
| Thyroid Gland            | Trachea                    |                         |                           |

**OBSERVATIONS**

|                 |          |                                   |                   |
|-----------------|----------|-----------------------------------|-------------------|
| Adrenal Gland   | Cortex   | Accessory Adrenal Cortical Nodule |                   |
| Brain           | Thalamus | Mineralization                    | Mild              |
| Kidney          |          | Casts Protein                     | Minimal           |
| Nose            |          | Exudate                           |                   |
|                 | Glands   | Hyperplasia                       | Cystic, Minimal   |
| Urinary Bladder |          | Hyperplasia                       | Lymphoid, Minimal |
| Uterus          |          | Hydrometra                        | Mild              |
|                 |          | Hyperplasia                       | Cystic, Mild      |
|                 |          | Metaplasia                        | Squamous, Mild    |

Note: HYPERPLASIA TGLs = 2-7

Note: HYDROMETRA TGLs = 3-7

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 927

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 659

**DOSE:** 0.0275% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87043500

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lymph Node - Mandibular  | Lymph Node - Mesenteric    |
| Mammary Gland           | Nose                      | Ovary                    | Parathyroid Gland          |
| Pituitary Gland         | Salivary Glands           | Skin                     | Spleen                     |
| Stomach - Forestomach   | Stomach - Glandular       | Trachea                  | Urinary Bladder            |
| Vagina                  |                           |                          |                            |

**OBSERVATIONS**

|   |                |                           |                   |
|---|----------------|---------------------------|-------------------|
| Islets, Pancreatic                      |                | Hyperplasia               | Minimal           |
| Kidney                                  |                | Cyst                      |                   |
|   |                | Metaplasia                | Osseous, Moderate |
|   |                | Mineralization            | Minimal           |
| Liver                                   | Hepatocyte     | Vacuolization Cytoplasmic | Mild              |
| Lung                                    |                | Hemorrhage                | Minimal           |
|   |                | Hyperplasia               | Lymphoid, Minimal |
| Mesentery                               | Fat            | Necrosis                  | Moderate          |
| Note: NECROSIS TGLs = 4-22              |                |                           |                   |
| Note: NECROSIS ALSO PRESENT ON SLIDE 23 |                |                           |                   |
| Pancreas                                |                | Cytoplasmic Alteration    | Marked            |
| Thymus                                  |                | Cyst                      |                   |
| Thyroid Gland                           | Follicular Cel | Hyperplasia               | Minimal           |
| Uterus                                  |                | Hydrometra                | Marked            |
|   |                | Hyperplasia               | Cystic, Mild      |
| Note: HYDROMETRA TGLs = 5-7             |                |                           |                   |

**PRIMARY CAUSE OF DEATH** -

Animal Note: PRIMARY OSTEOSARCOMA NOT IDENTIFIED

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 928

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 738

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043501

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       |
| Lymph Node - Mandibular | Lymph Node - Mesenteric   | Mammary Gland            | Nose                       |
| Ovary                   | Pancreas                  | Parathyroid Gland        | Salivary Glands            |
| Skin                    | Spleen                    | Stomach - Forestomach    | Stomach - Glandular        |
| Thymus                  | Trachea                   | Urinary Bladder          |                            |

**OBSERVATIONS**

|                                  |                |                        |                    |
|----------------------------------|----------------|------------------------|--------------------|
| Harderian Gland                  |                | Hyperplasia            | Focal, Minimal     |
| Kidney                           | Renal Tubule   | Atrophy                | Moderate           |
|                                  |                | Hyperplasia            | Lymphoid, Mild     |
| Liver                            |                | Basophilic Focus       | Moderate           |
|                                  |                | Hepatocellular Adenoma |                    |
|                                  |                | Hyperplasia            | Focal, Mild        |
|                                  |                | Inflammation           | Subacute, Minimal  |
|                                  | Lobules        | Necrosis               | Minimal            |
| Note: [ BASOPH FOCUS ] TGLs = 22 |                |                        |                    |
| Pituitary Gland                  | Pars Distalis  | Adenoma                |                    |
| [ Adenoma TGLS = 2-1 ]           |                |                        |                    |
| Thyroid Gland                    | Follicular Cel | Hyperplasia            | Marked             |
|                                  |                | Inflammation           | Subacute, Moderate |
| Uterus                           |                | Hydrometra             | Moderate           |
|                                  |                | Hyperplasia            | Cystic, Moderate   |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 929

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 738

**DOSE:** 0.0275% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043502

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Medulla    | Bone                    | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Liver                      | Lung                    | Lymph Node - Mandibular   | Lymph Node - Mesenteric  |
| Mammary Gland              | Nose                    | Pancreas                  | Parathyroid Gland        |
| Pituitary Gland            | Skin                    | Stomach - Forestomach     | Stomach - Glandular      |
| Thymus                     | Trachea                 |                           |                          |

**OBSERVATIONS**

|                                 |                |                                  |                   |
|---------------------------------|----------------|----------------------------------|-------------------|
| Adrenal Gland                   | Cortex, X-Zone | Degeneration                     | Fatty, Moderate   |
| Bone Marrow                     |                | Hypercellularity                 | Mild              |
| Brain                           | Thalamus       | Mineralization                   | Mild              |
| Kidney                          | Renal Tubule   | Regeneration                     | Minimal           |
| Ovary                           |                | Angiectasis                      | Mild              |
| Salivary Glands                 |                | Hyperplasia                      | Lymphoid, Mild    |
| Spleen                          | Red Pulp       | Hematopoietic Cell Proliferation | Mild              |
|                                 |                | Hyperplasia                      | Moderate          |
| Note: HEMA CELL PROL TGLs = 2-6 |                |                                  |                   |
| Note: HYPERPLASIA TGLs = 2-6    |                |                                  |                   |
| Thyroid Gland                   | Follicular Cel | Carcinoma                        |                   |
| Urinary Bladder                 |                | Hyperplasia                      | Lymphoid, Minimal |
| Uterus                          |                | Hydrometra                       | Moderate          |
|                                 |                | Hyperplasia                      | Cystic, Mild      |

Note: HYDROMETRA TGLs = 1-7

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 930

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 651

**DOSE:** 0.0275% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87043503

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Esophagus                  | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Mammary Gland            | Nose                       | Parathyroid Gland       |
| Pituitary Gland           | Salivary Glands          | Skin                       | Stomach - Forestomach   |
| Stomach - Glandular       | Trachea                  |                            |                         |

**OBSERVATIONS**

|  |              |                          |                      |
|--|--------------|--------------------------|----------------------|
| Adrenal Gland                            | Cortex       | Lymphoma Malignant Mixed |                      |
| Bone Marrow                              |              | Myelofibrosis            | Marked               |
| Brain                                    | Thalamus     | Mineralization           | Mild                 |
| Gallbladder                              |              | Lymphoma Malignant Mixed |                      |
| Heart                                    | Myocardium   | Mineralization           | Mild                 |
| Islets, Pancreatic                       |              | Lymphoma Malignant Mixed |                      |
| Kidney                                   | Renal Tubule | Atrophy                  | Mild                 |
|  |              | Lymphoma Malignant Mixed |                      |
| Note: LYMPH MAL MIXD TGLs = 2-5,3-5      |              |                          |                      |
| Liver                                    | Kupffer Cell | Hyperplasia              | Moderate             |
|  |              | Lymphoma Malignant Mixed |                      |
|  | Lobules      | Necrosis                 | Minimal              |
| Lung                                     |              | Infiltration Cellular    | Histiocyte, Moderate |
|  |              | Lymphoma Malignant Mixed |                      |
| Note: LYMPH MAL MIXD TGLs = 8-2          |              |                          |                      |
| [ Lymphoma Malignant Mixed TGLS = 8-2 ]  |              |                          |                      |
| Lymph Node                               | Iliac        | Lymphoma Malignant Mixed |                      |
|  | Mandibular   | Lymphoma Malignant Mixed |                      |
|  | Mediastinal  | Lymphoma Malignant Mixed |                      |
|  | Mesenteric   | Lymphoma Malignant Mixed |                      |
|  | Renal        | Lymphoma Malignant Mixed |                      |
| Note: LYMPH MAL MIXD TGLs = 5-2          |              |                          |                      |
| [ Lymphoma Malignant Mixed TGLS = 6-22 ] |              |                          |                      |
| [ Lymphoma Malignant Mixed TGLS = 7-23 ] |              |                          |                      |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 930

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 651

**DOSE:** 0.0275% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87043503

**ORGAN AND ACCOUNTABLE SITE STATUS**

[ Lymphoma Malignant Mixed TGLS = 9-24,9-5 ]

[ Lymphoma Malignant Mixed TGLS = 1-21 ]

Mesentery

Lymphoma Malignant Mixed

Note: LYMPHOMA IS ON SLIDE 4,7 & 10

Ovary

Lymphoma Malignant Mixed

Pancreas

Lymphoma Malignant Mixed

Spleen

Hematopoietic Cell Proliferation

Moderate

Lymphoma Malignant Mixed

Note: HEMA CELL PROL TGLs = 4-6

Note: LYMPH MAL MIXD TGLs = 4-6

Thymus

Lymphoma Malignant Mixed

Thyroid Gland

Degeneration

Cystic, Moderate

Urinary Bladder

Lymphoma Malignant Mixed

Uterus

Hyperplasia

Cystic, Mild

Lymphoma Malignant Mixed

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 931

**TRT#:** 20

**SEX:** Female

**DAY ON TEST:** 102

**DOSE:** 0.0275% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033911

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Kidney                     |
| Liver                   | Lung                      | Lymph Node - Mandibular  | Lymph Node - Mesenteric    |
| Mammary Gland           | Nose                      | Ovary                    | Pancreas                   |
| Parathyroid Gland       | Pituitary Gland           | Salivary Glands          | Skin                       |
| Spleen                  | Stomach - Forestomach     | Stomach - Glandular      | Thymus                     |
| Thyroid Gland           | Trachea                   | Urinary Bladder          | Uterus                     |

**PRIMARY CAUSE OF DEATH**

-

Animal Note: THE RECTUM IS PRESENT ON SLIDE NUMBER 7.

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 932

**TRT#:** 20

**SEX:** Female

**DAY ON TEST:** 100

**DOSE:** 0.0275% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033912

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mandibular  
Ovary  
Salivary Glands  
Stomach - Glandular  
Urinary Bladder

Bone  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mesenteric  
Pancreas  
Skin  
Thymus  
Uterus

Bone Marrow  
Heart  
Intestine Small - Duodenum  
Kidney  
Mammary Gland  
Parathyroid Gland  
Spleen  
Thyroid Gland

Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lung  
Nose  
Pituitary Gland  
Stomach - Forestomach  
Trachea

**OBSERVATIONS**

Adrenal Gland  
Liver

Cortex

Accessory Adrenal Cortical Nodule  
Inflammation

Chronic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 933

**TRT#:** 20

**SEX:** Female

**DAY ON TEST:** 102

**DOSE:** 0.0275% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033913

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mandibular  
Ovary  
Skin  
Thymus  
Uterus

Bone  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mesenteric  
Pancreas  
Spleen  
Thyroid Gland

Bone Marrow  
Heart  
Intestine Small - Duodenum  
Kidney  
Mammary Gland  
Pituitary Gland  
Stomach - Forestomach  
Trachea

Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lung  
Nose  
Salivary Glands  
Stomach - Glandular  
Urinary Bladder

**OBSERVATIONS**

Adrenal Gland  
Liver  
Parathyroid Gland

Cortex

Accessory Adrenal Cortical Nodule  
Inflammation  
Ectopic Thymus

Chronic, Minimal

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 934

**TRT#:** 20

**SEX:** Female

**DAY ON TEST:** 102

**DOSE:** 0.0275% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033914

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Liver  
Nose  
Salivary Glands  
Stomach - Glandular  
Urinary Bladder

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mandibular  
Ovary  
Skin  
Thymus  
Uterus

Bone  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mesenteric  
Parathyroid Gland  
Spleen  
Thyroid Gland

Bone Marrow  
Heart  
Intestine Small - Duodenum  
Kidney  
Mammary Gland  
Pituitary Gland  
Stomach - Forestomach  
Trachea

**OBSERVATIONS**

|          |             |                   |
|----------|-------------|-------------------|
| Lung     | Hemorrhage  | Minimal           |
| Pancreas | Hyperplasia | Lymphoid, Minimal |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 935

**TRT#:** 20

**SEX:** Female

**DAY ON TEST:** 100

**DOSE:** 0.0275% 3 SSAC

**DISP:** Scheduled Sacrifice

**HISTO:** A85033915

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                         |                            |                         |
|---------------------------|-------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla | Bone                       | Bone Marrow             |
| Brain                     | Esophagus               | Gallbladder                | Heart                   |
| Intestine Large - Cecum   | Intestine Large - Colon | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic      | Kidney                     | Lung                    |
| Lymph Node - Mandibular   | Lymph Node - Mesenteric | Mammary Gland              | Nose                    |
| Pancreas                  | Parathyroid Gland       | Pituitary Gland            | Salivary Glands         |
| Skin                      | Spleen                  | Stomach - Forestomach      | Stomach - Glandular     |
| Thymus                    | Thyroid Gland           | Trachea                    | Urinary Bladder         |
| Uterus                    |                         |                            |                         |

**MISSING**

|                          |       |
|--------------------------|-------|
| Intestine Large - Rectum | Ovary |
|--------------------------|-------|

**OBSERVATIONS**

|       |         |          |         |
|-------|---------|----------|---------|
| Liver | Lobules | Necrosis | Minimal |
|-------|---------|----------|---------|

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 936

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 456

**DOSE:** 0.0275% CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** A86037788

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mesenteric  
Pancreas  
Skin  
Urinary Bladder

Bone  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Mammary Gland  
Parathyroid Gland  
Stomach - Glandular

Bone Marrow  
Heart  
Intestine Small - Duodenum  
Liver  
Nose  
Pituitary Gland  
Thyroid Gland

Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lung  
Ovary  
Salivary Glands  
Trachea

**MISSING**

Lymph Node - Mandibular

**OBSERVATIONS**

Adrenal Gland  
Kidney  
Spleen  
Stomach  
Thymus  
Uterus

Cortex

Forestomach

Accessory Adrenal Cortical Nodule  
Hyperplasia  
Congestion  
Cyst  
Cyst  
Hyperplasia

Lymphoid, Mild  
Mild  
Cystic, Mild

Note: HYPERPLASIA TGLs = 1-7

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 937

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 458

**DOSE:** 0.0275% CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** A86037789

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       |
| Lymph Node - Mandibular | Mammary Gland             | Nose                     | Ovary                      |
| Pancreas                | Parathyroid Gland         | Pituitary Gland          | Salivary Glands            |
| Skin                    | Spleen                    | Stomach - Forestomach    | Stomach - Glandular        |
| Thyroid Gland           | Trachea                   | Urinary Bladder          |                            |

**OBSERVATIONS**

|                                 |              |              |                  |
|---------------------------------|--------------|--------------|------------------|
| Kidney                          |              | Hyperplasia  | Lymphoid, Mild   |
|                                 | Renal Tubule | Regeneration | Minimal          |
| Note: [ REGENERATION ] TGLs = 5 |              |              |                  |
| Liver                           |              | Inflammation | Chronic, Minimal |
| Lymph Node                      | Mesenteric   | Hyperplasia  | Lymphoid, Mild   |
| Thymus                          |              | Angiectasis  | Moderate         |
|                                 |              | Hyperplasia  | Lymphoid, Mild   |
| Uterus                          |              | Hyperplasia  | Cystic, Moderate |
| Note: HYPERPLASIA TGLs = 1-7    |              |              |                  |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                  |                         |
|-----------------------|-------------------------------|----------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 938 | <b>TRT#:</b> 19               | <b>SEX:</b> Female               | <b>DAY ON TEST:</b> 457 |
|                       | <b>DOSE:</b> 0.0275% CHLORINE | <b>DISP:</b> Scheduled Sacrifice | <b>HISTO:</b> A86037790 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Mammary Gland             | Nose                     | Pancreas                   | Parathyroid Gland       |
| Pituitary Gland           | Skin                     | Spleen                     | Stomach - Forestomach   |
| Stomach - Glandular       | Thymus                   | Thyroid Gland              | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

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**OBSERVATIONS**

|                 |              |                  |                   |
|-----------------|--------------|------------------|-------------------|
| Brain           | Thalamus     | Mineralization   | Mild              |
| Kidney          |              | Metaplasia       | Osseous, Mild     |
|                 | Renal Tubule | Regeneration     | Minimal           |
| Liver           |              | Basophilic Focus | Moderate          |
| Lung            |              | Inflammation     | Chronic, Mild     |
| Ovary           |              | Hyperplasia      | Cystic, Moderate  |
| Salivary Glands |              | Hyperplasia      | Lymphoid, Minimal |
| Uterus          |              | Hyperplasia      | Cystic, Mild      |
|                 |              | Polyp Stromal    |                   |

Note: POLYP STROMAL TGLs = 3-7

Note: HYPERPLASIA TGLs = 2-7

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 939

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 456

**DOSE:** 0.0275% CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** A86037791

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mandibular  
Ovary  
Salivary Glands  
Stomach - Glandular  
Urinary Bladder

Adrenal Gland - Medulla  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mesenteric  
Pancreas  
Skin  
Thymus

Bone  
Heart  
Intestine Small - Duodenum  
Kidney  
Mammary Gland  
Parathyroid Gland  
Spleen  
Thyroid Gland

Bone Marrow  
Intestine Large - Cecum  
Intestine Small - Ileum  
Liver  
Nose  
Pituitary Gland  
Stomach - Forestomach  
Trachea

**OBSERVATIONS**

Brain  
Lung  
    Note: ALV BRON ADEN   TGLs = 2-2  
Uterus  
    Note: HYPERPLASIA   TGLs = 1-7

Thalamus

Mineralization  
Alveolar/Bronchiolar Adenoma  
  
Hyperplasia

Minimal  
  
Cystic, Moderate

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 940

**TRT#:** 19

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** 0.0275% CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** A86037792

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Cortex  
Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lymph Node - Mesenteric  
Pancreas  
Stomach - Forestomach

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Mammary Gland  
Parathyroid Gland  
Stomach - Glandular

Bone  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Nose  
Pituitary Gland  
Trachea

Bone Marrow  
Heart  
Intestine Small - Duodenum  
Lymph Node - Mandibular  
Ovary  
Skin

**OBSERVATIONS**

Kidney  
Liver  
Lung  
Salivary Glands  
Spleen  
    Note: [ HYPERPLASIA ] TGLs = 6  
Thymus  
Thyroid Gland  
Urinary Bladder  
Uterus  
    Note: HYPERPLASIA TGLs = 1-7

Renal Tubule

Regeneration  
Basophilic Focus  
Hemorrhage  
Hyperplasia  
Hyperplasia  
  
Cyst  
Degeneration  
Hyperplasia  
Hyperplasia

Minimal  
  
Minimal  
Lymphoid, Mild  
Lymphoid, Moderate  
  
Cystic, Minimal  
Lymphoid, Moderate  
Cystic, Moderate

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 941

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043628

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      |
| Lung                    | Lymph Node - Mandibular   | Lymph Node - Mesenteric  | Mammary Gland              |
| Nose                    | Pancreas                  | Parathyroid Gland        | Pituitary Gland            |
| Salivary Glands         | Skin                      | Stomach - Forestomach    | Stomach - Glandular        |
| Thymus                  | Trachea                   | Urinary Bladder          |                            |

**OBSERVATIONS**

|                   |              |                |                  |
|-------------------|--------------|----------------|------------------|
| Kidney            |              | Casts Protein  | Minimal          |
|                   |              | Mineralization | Minimal          |
|                   | Renal Tubule | Regeneration   | Minimal          |
|                   |              | Cyst           |                  |
| Ovary             |              |                |                  |
| Note: CYST        | TGLs = 1-7   |                |                  |
| Spleen            | Lymph Follic | Hyperplasia    | Mild             |
| Note: HYPERPLASIA | TGLs = 2-6   |                |                  |
| Thyroid Gland     |              | Degeneration   | Cystic, Minimal  |
| Uterus            |              | Hyperplasia    | Cystic, Moderate |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 942

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043629

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Mammary Gland           | Nose                      |
| Ovary                    | Pancreas                   | Parathyroid Gland       | Pituitary Gland           |
| Salivary Glands          | Skin                       | Spleen                  | Stomach - Forestomach     |
| Stomach - Glandular      | Trachea                    | Vagina                  |                           |

**OBSERVATIONS**

|  |              |                                   |                      |
|--|--------------|-----------------------------------|----------------------|
| Adrenal Gland                                | Cortex       | Accessory Adrenal Cortical Nodule |                      |
| Brain  | Thalamus     | Mineralization                    | Minimal              |
| Islets, Pancreatic                           |              | Hyperplasia                       | Moderate             |
| Kidney                                       | Renal Tubule | Atrophy                           | Minimal              |
|  | Renal Tubule | Regeneration                      | Mild                 |
| Liver  |              | Basophilic Focus                  |                      |
|  |              | Hemorrhage                        | Moderate             |
|  |              | Hepatocellular Adenoma            | Four, Multiple       |
|  | Hepatocyte   | Vacuolization Cytoplasmic         | Mild                 |
| Note: HEPATOCELLULAR ADENOMA ALSO ON SLIDE 6 |              |                                   |                      |
| Note: HEPATOCLR ADEN TGLs = 3-22,4-23,5-24   |              |                                   |                      |
| Lung   |              | Alveolar/Bronchiolar Carcinoma    |                      |
|  |              | Infiltration Cellular             | Histiocyte, Moderate |
| Note: ALV BRON CARC TGLs = 6-2               |              |                                   |                      |
| Mesentery                                    | Fat          | Necrosis                          | Moderate             |
| Note: NECROSIS TGLs = 2-21                   |              |                                   |                      |
| Thymus                                       |              | Cyst                              |                      |
| Thyroid Gland                                |              | Degeneration                      | Cystic, Moderate     |
| Urinary Bladder                              |              | Hyperplasia                       | Lymphoid, Minimal    |
| Uterus                                       |              | Hyperplasia                       | Cystic, Minimal      |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 943

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043630

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Medulla   | Bone                     | Bone Marrow                | Brain                   |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Parathyroid Gland          | Salivary Glands         |
| Skin                      | Stomach - Forestomach    | Thymus                     | Thyroid Gland           |
| Trachea                   |                          |                            |                         |

**OBSERVATIONS**

|                                       |                          |  |                    |
|---------------------------------------|--------------------------|--|--------------------|
| Adrenal Gland                         | Cortex                   | Hyperplasia  | Focal, Minimal     |
| Kidney                                | Renal Tubule             | Lymphoma Malignant Mixed<br>Regeneration                     | Minimal            |
| Liver                                 |                          | Hepatocellular Adenoma<br>Lymphoma Malignant Mixed           | Multiple, Two      |
| Note: HEPATOCLR ADEN TGLs = 5-22,6-23 |                          |  |                    |
| Lung                                  |                          | Hyperplasia  | Lymphoid, Minimal  |
| Lymph Node                            | Mandibular<br>Mesenteric | Lymphoma Malignant Mixed<br>Lymphoma Malignant Mixed         |                    |
| Mammary Gland                         |                          | Hyperplasia  | Cystic, Minimal    |
| Nose                                  | Glands                   | Hyperplasia  | Cystic, Minimal    |
| Ovary                                 |                          | Cyst   |                    |
| Note: CYST TGLs = 1-7                 |                          |  |                    |
| Pancreas                              |                          | Hyperplasia  | Lymphoid, Moderate |
| Pituitary Gland                       | Pars Distalis            | Adenoma  |                    |
| [ Adenoma TGLS = 7-1 ]                |                          |  |                    |
| Spleen                                |                          | Hematopoietic Cell Proliferation<br>Lymphoma Malignant Mixed | Mild               |
| Note: LYMPH MAL MIXD TGLs = 3-6       |                          |  |                    |
| Note: HEMA CELL PROL TGLs = 3-6       |                          |  |                    |
| Stomach                               | Glandular<br>Glandular   | Cyst<br>Metaplasia   | Squamous, Minimal  |
| Urinary Bladder                       |                          | Hyperplasia  | Lymphoid, Minimal  |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 943

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043630

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Uterus

Hyperplasia

Cystic, Mild

Note: HYPERPLASIA TGLs = 2-7

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 944

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043631

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Kidney                     | Lymph Node - Mandibular |
| Mammary Gland             | Nose                     | Pancreas                   | Pituitary Gland         |
| Salivary Glands           | Skin                     | Stomach - Forestomach      | Thymus                  |
| Thyroid Gland             | Trachea                  | Urinary Bladder            |                         |

**MISSING**

|                         |                   |
|-------------------------|-------------------|
| Lymph Node - Mesenteric | Parathyroid Gland |
|-------------------------|-------------------|

**OBSERVATIONS**

|                               |           |                 |                   |
|-------------------------------|-----------|-----------------|-------------------|
| Brain                         | Thalamus  | Mineralization  | Mild              |
| Liver                         |           | Inflammation    | Subacute, Minimal |
| Lung                          |           | Hyperplasia     | Lymphoid, Minimal |
| Ovary                         |           | Cyst            |                   |
| Spleen                        |           | Hemangiosarcoma |                   |
| Note: HEMANGIOSARC TGLs = 2-6 |           |                 |                   |
| Stomach                       | Glandular | Cyst            |                   |
| Uterus                        |           | Hydrometra      | Marked            |
|                               |           | Hyperplasia     | Cystic, Mild      |
| Note: HYDROMETRA TGLs = 1-7   |           |                 |                   |

**PRIMARY CAUSE OF DEATH**

-

Animal Note: INFUSION ARTIFACT IN URINARY BLADDER

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 945 | <b>TRT#:</b> 23               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 736 |
|                       | <b>DOSE:</b> 0.0140% CHLORINE | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87043632 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Brain                     |
| Esophagus                | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Liver                    | Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   |
| Mammary Gland            | Nose                       | Pancreas                | Parathyroid Gland         |
| Salivary Glands          | Skin                       | Spleen                  | Stomach - Forestomach     |
| Stomach - Glandular      | Thymus                     | Thyroid Gland           | Trachea                   |
| Urinary Bladder          |                            |                         |                           |

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**OBSERVATIONS**

|                    |               |                                   |                |
|--------------------|---------------|-----------------------------------|----------------|
| Adrenal Gland      | Cortex        | Accessory Adrenal Cortical Nodule |                |
| Gallbladder        |               | Cyst                              |                |
| Islets, Pancreatic |               | Hyperplasia                       | Minimal        |
| Kidney             | Renal Tubule  | Regeneration                      | Minimal        |
| Ovary              |               | Cyst                              |                |
| Note: CYST         | TGLs = 1-7    |                                   |                |
| Pituitary Gland    | Pars Distalis | Angiectasis                       | Minimal        |
|                    | Pars Distalis | Hyperplasia                       | Mild           |
| Uterus             |               | Hyperplasia                       | Cystic, Mild   |
|                    |               | Hyperplasia                       | Lymphoid, Mild |

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 946

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 0.0140% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87043633

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex   | Adrenal Gland - Medulla    | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular | Mammary Gland             |
| Nose                     | Ovary                      | Pancreas                | Parathyroid Gland         |
| Pituitary Gland          | Salivary Glands            | Stomach - Forestomach   | Stomach - Glandular       |
| Thyroid Gland            | Trachea                    |                         |                           |

**MISSING**

Thymus

**OBSERVATIONS**

|                      |              |                                  |                    |
|----------------------|--------------|----------------------------------|--------------------|
| Bone                 |              | Hyperostosis                     | Minimal            |
| Brain                |              | Cyst                             |                    |
|                      | Thalamus     | Mineralization                   | Mild               |
| Kidney               |              | Casts Protein                    | Minimal            |
|                      |              | Glomerulosclerosis               | Minimal            |
|                      |              | Hyperplasia                      | Lymphoid, Mild     |
|                      | Renal Tubule | Regeneration                     | Minimal            |
| Liver                |              | Hepatocellular Carcinoma         |                    |
|                      |              | Hyperplasia                      | Focal, Mild        |
| Note: HEPATOCLR CARC | TGLs = 5-21  |                                  |                    |
| Lymph Node           |              | Hemorrhage                       | Mild               |
| Skin                 | Mesenteric   | Hemangiosarcoma                  |                    |
|                      | Subcut Tiss  |                                  |                    |
| Note: HEMANGIOSARC   | TGLs = 1-8   |                                  |                    |
| Spleen               |              | Hematopoietic Cell Proliferation | Moderate           |
| Note: HEMA CELL PROL | TGLs = 4-6   |                                  |                    |
| Urinary Bladder      |              | Hyperplasia                      | Lymphoid, Moderate |
| Uterus               |              | Angiectasis                      | Mild               |
|                      |              | Hydrometra                       | Moderate           |
|                      |              | Hyperplasia                      | Cystic, Mild       |
| Note: HYDROMETRA     | TGLs = 2-7   |                                  |                    |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 946

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 0.0140% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87043633

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Note: HYPERPLASIA TGLs = 3-7

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 947

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043634

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex   | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric | Mammary Gland             |
| Nose                     | Pancreas                   | Parathyroid Gland       | Pituitary Gland           |
| Salivary Glands          | Skin                       | Spleen                  | Stomach - Forestomach     |
| Trachea                  |                            |                         |                           |

**OBSERVATIONS**

|   |                |                        |                   |
|---|----------------|------------------------|-------------------|
| Adrenal Gland                           | Medulla        | Hyperplasia            | Minimal           |
| Brain                                   | Thalamus       | Mineralization         | Minimal           |
| Kidney                                  |                | Hemorrhage             | Mild              |
|   | Transit Epithe | Hyperplasia            | Moderate          |
|   |                | Mineralization         | Minimal           |
|   | Renal Tubule   | Regeneration           | Mild              |
| Note: HEMORRHAGE IS IN PELVIS           |                |                        |                   |
| Liver                                   |                | Hepatocellular Adenoma | Multiple, Two     |
|   |                | Hyperplasia            | Focal, Moderate   |
| Note: FOCAL HYPERPLASIA ALSO ON SLIDE 6 |                |                        |                   |
| Note: HEPATOCLR ADEN TGLs = 4-22,5-23   |                |                        |                   |
| Note: HYPERPLASIA TGLs = 3-21           |                |                        |                   |
| Lung                                    |                | Hyperplasia            | Lymphoid, Minimal |
| Ovary                                   | Interstit Cell | Hyperplasia            | Mild              |
| Stomach                                 | Glandular      | Cyst                   |                   |
| Thymus                                  |                | Angiectasis            | Mild              |
| Thyroid Gland                           | Follicular Cel | Hyperplasia            | Minimal           |
| Urinary Bladder                         |                | Hyperplasia            | Lymphoid, Minimal |
| Uterus                                  |                | Hydrometra             | Moderate          |
|   |                | Hyperplasia            | Cystic, Mild      |
| Note: HYPERPLASIA TGLs = 1-7            |                |                        |                   |
| Note: HYDROMETRA TGLs = 2-7             |                |                        |                   |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 947

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043634

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

-

Animal Note: GALLBLADDER PRESENT ON SLIDE 23

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 948

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 735

**DOSE:** 0.0140% CHLORINE

**DISP:** Natural Death

**HISTO:** A87043635

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Mammary Gland            | Nose                       | Pituitary Gland         |
| Salivary Glands           | Skin                     | Spleen                     | Stomach - Forestomach   |
| Stomach - Glandular       | Thyroid Gland            | Trachea                    | Urinary Bladder         |

**OBSERVATIONS**

|                                     |          |                        |                   |
|-------------------------------------|----------|------------------------|-------------------|
| Brain                               | Thalamus | Mineralization         | Mild              |
|                                     |          | Necrosis               | Moderate          |
| Note: NECROSIS INVOLVES HIPPOCAMPUS |          |                        |                   |
| Kidney                              |          | Hyperplasia            | Lymphoid, Minimal |
| Lung                                |          | Congestion             | Mild              |
| Ovary                               |          | Angiectasis            | Moderate          |
| Pancreas                            |          | Cytoplasmic Alteration | Marked            |
| Parathyroid Gland                   |          | Cyst                   |                   |
| Thymus                              |          | Depletion Cellular     | Mild              |
| Uterus                              |          | Hydrometra             | Moderate          |
|                                     |          | Hyperplasia            | Cystic, Mild      |
| Note: HYPERPLASIA TGLs = 2-7        |          |                        |                   |
| Note: HYDROMETRA TGLs = 1-7         |          |                        |                   |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 949

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 557

**DOSE:** 0.0140% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87043636

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex     | Bone                    | Bone Marrow               | Esophagus                |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Lymph Node - Mandibular    | Lymph Node - Mesenteric | Mammary Gland             | Nose                     |
| Parathyroid Gland          | Pituitary Gland         | Salivary Glands           | Skin                     |
| Stomach - Forestomach      | Trachea                 |                           |                          |

**OBSERVATIONS**

|                 |              |                                  |               |
|-----------------|--------------|----------------------------------|---------------|
| Adrenal Gland   | Medulla      | Hyperplasia                      | Minimal       |
| Brain           | Thalamus     | Mineralization                   | Mild          |
| Gallbladder     |              | Dilatation                       | Moderate      |
| Kidney          | Renal Tubule | Dilatation                       | Mild          |
|                 |              | Metaplasia                       | Osseous, Mild |
|                 | Renal Tubule | Necrosis                         | Moderate      |
|                 | Renal Tubule | Regeneration                     | Moderate      |
| Liver           | Lobules      | Necrosis                         | Minimal       |
|                 | Hepatocyte   | Vacuolization Cytoplasmic        | Marked        |
| Lung            |              | Thrombosis                       |               |
| Ovary           |              | Angiectasis                      | Moderate      |
| Pancreas        |              | Cytoplasmic Alteration           | Moderate      |
| Spleen          | Lymph Follic | Atrophy                          | Moderate      |
|                 |              | Hematopoietic Cell Proliferation | Marked        |
| Stomach         | Glandular    | Erosion                          | Minimal       |
| Thymus          |              | Depletion Cellular               | Marked        |
| Thyroid Gland   |              | Degeneration                     | Cystic, Mild  |
| Urinary Bladder |              | Edema                            | Moderate      |
| Uterus          |              | Angiectasis                      | Marked        |
|                 |              | Hydrometra                       | Moderate      |
|                 |              | Hyperplasia                      | Cystic, Mild  |

Note: ANGIECTASIS TGLs = 1-7

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 950

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 661

**DOSE:** 0.0140% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87043637

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Medulla | Bone                      | Esophagus                | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       | Mammary Gland              |
| Nose                    | Pancreas                  | Parathyroid Gland        | Pituitary Gland            |
| Skin                    | Stomach - Forestomach     | Stomach - Glandular      | Trachea                    |

**OBSERVATIONS**

|  |              |                          |                 |
|--|--------------|--------------------------|-----------------|
| Adrenal Gland                          | Cortex       | Hyperplasia              | Focal, Moderate |
| Bone Marrow                            |              | Hypercellularity         | Mild            |
|  |              | Lymphoma Malignant Mixed |                 |
| Brain                                  | Thalamus     | Mineralization           | Mild            |
| Gallbladder                            |              | Lymphoma Malignant Mixed |                 |
| Kidney                                 | Renal Tubule | Dilatation               | Moderate        |
|  |              | Hydronephrosis           | Moderate        |
|  |              | Lymphoma Malignant Mixed |                 |
|  | Renal Tubule | Mineralization           | Mild            |
|  |              | Regeneration             | Moderate        |
| Note: HYDRONEPHROSIS TGLs = 7-5        |              |                          |                 |
| Note: DILATATION TGLs = 8-5            |              |                          |                 |
| Liver                                  |              | Lymphoma Malignant Mixed |                 |
| Note: LYMPH MAL MIXD TGLs = 9-23,10-24 |              |                          |                 |
| Lung                                   |              | Fibrosis                 | Minimal         |
|  |              | Hyperplasia              | Lymphoid, Mild  |
| Lymph Node                             | Axillary     | Lymphoma Malignant Mixed |                 |
|  | Iliac        | Lymphoma Malignant Mixed |                 |
|  | Mandibular   | Lymphoma Malignant Mixed |                 |
|  | Mediastinal  | Lymphoma Malignant Mixed |                 |
|  | Mesenteric   | Lymphoma Malignant Mixed |                 |
|  | Pancreatic   | Lymphoma Malignant Mixed |                 |
|  | Renal        | Lymphoma Malignant Mixed |                 |
| Note: LYMPH MAL MIXD TGLs = 11-5       |              |                          |                 |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 950

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 661

**DOSE:** 0.0140% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87043637

**ORGAN AND ACCOUNTABLE SITE STATUS**

Note: LYMPH MAL MIXD TGLs = 1-8

Note: LYMPH MAL MIXD TGLs = 14-2

[ Lymphoma Malignant Mixed TGLS = 2-21 ]

[ Lymphoma Malignant Mixed TGLS = 6-22 ]

[ Lymphoma Malignant Mixed TGLS = 12-25 ]

[ Lymphoma Malignant Mixed TGLS = 13-26 ]

Mesentery

Lymphoma Malignant Mixed

Ovary

Angiectasis

Moderate

Salivary Glands

Lymphoma Malignant Mixed

Spleen

Hematopoietic Cell Proliferation

Marked

Lymphoma Malignant Mixed

Note: HEMA CELL PROL TGLs = 5-6

Note: LYMPH MAL MIXD TGLs = 5-6

Thymus

Lymphoma Malignant Mixed

Thyroid Gland

Degeneration

Cystic, Moderate

Urinary Bladder

Lymphoma Malignant Mixed

Uterus

Hyperplasia

Cystic, Mild

Note: HYPERPLASIA TGLs = 4-7

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 951 | <b>TRT#:</b> 23               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 737 |
|                       | <b>DOSE:</b> 0.0140% CHLORINE | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87043638 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Mammary Gland            | Nose                       | Pancreas                |
| Parathyroid Gland         | Salivary Glands          | Skin                       | Spleen                  |
| Stomach - Forestomach     | Stomach - Glandular      | Urinary Bladder            |                         |

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**MISSING**

Trachea

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**OBSERVATIONS**

|  |               |                        |                 |
|--|---------------|------------------------|-----------------|
| Brain                                      | Thalamus      | Mineralization         | Mild            |
| Kidney                                     | Renal Tubule  | Regeneration           | Minimal         |
| Liver                                      |               | Clear Cell Focus       |                 |
|  |               | Hepatocellular Adenoma | Multiple, Three |
| Note: CLEAR CELL FOCUS IS ON SLIDE 24      |               |                        |                 |
| Note: HEPATOCLR ADEN TGLs = 2-22,3-23,4-24 |               |                        |                 |
| Mesentery                                  | Fat           | Necrosis               | Moderate        |
| Note: NECROSIS TGLs = 1-21                 |               |                        |                 |
| Ovary                                      |               | Angiectasis            | Mild            |
| Pituitary Gland                            | Pars Distalis | Hyperplasia            | Minimal         |
| Thymus                                     |               | Angiectasis            | Moderate        |
| Thyroid Gland                              | Follicle      | Cyst                   |                 |
| Uterus                                     |               | Hyperplasia            | Cystic, Mild    |
|  |               | Hyperplasia            | Lymphoid, Mild  |

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**PRIMARY CAUSE OF DEATH** -

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 952

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 716

**DOSE:** 0.0140% CHLORINE

**DISP:** Natural Death

**HISTO:** A87043639

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex     | Adrenal Gland - Medulla | Bone                      | Esophagus                |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Nose                     |
| Pituitary Gland            | Skin                    | Trachea                   |                          |

**OBSERVATIONS**

|                      |   |                                |               |
|----------------------|---|--------------------------------|---------------|
| Bone Marrow          |   | Hypercellularity               | Moderate      |
|                      |   | Lymphoma Malignant Lymphocytic |               |
| Brain                | Thalamus                                      | Mineralization                 | Mild          |
| Gallbladder          |   | Lymphoma Malignant Lymphocytic |               |
|                      |   | Necrosis                       | Moderate      |
| Islets, Pancreatic   |   | Lymphoma Malignant Lymphocytic |               |
| Kidney               |   | Lymphoma Malignant Lymphocytic |               |
| Liver                |   | Hepatocellular Adenoma         | Multiple, Two |
|                      |   | Lymphoma Malignant Lymphocytic |               |
| Note: HEPATOCLR ADEN | TGLs = 9-22,10-23                             |                                |               |
| Note: LYMPH MAL LYMP | TGLs = 11-6                                   |                                |               |
| Lung                 |   | Alveolar/Bronchiolar Adenoma   |               |
|                      |   | Lymphoma Malignant Lymphocytic |               |
| Lymph Node           | Iliac   | Lymphoma Malignant Lymphocytic |               |
|                      | Mandibular                                    | Lymphoma Malignant Lymphocytic |               |
|                      | Mediastinal                                   | Lymphoma Malignant Lymphocytic |               |
|                      | Mesenteric                                    | Lymphoma Malignant Lymphocytic |               |
|                      | Pancreatic                                    | Lymphoma Malignant Lymphocytic |               |
|                      | Renal   | Lymphoma Malignant Lymphocytic |               |
| Note: LYMPH MAL LYMP | TGLs = 12-5                                   |                                |               |
| Note: LYMPH MAL LYMP | TGLs = 14-24                                  |                                |               |
| Note: LYMPH MAL LYMP | TGLs = 15-25                                  |                                |               |
| Note: LYMPH MAL LYMP | TGLs = 16-26                                  |                                |               |
| Note: LYMPH MAL LYMP | TGLs = 7-7                                    |                                |               |
|                      | [ Lymphoma Malignant Lymphocytic TGLS = 2-8 ] |                                |               |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 952

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 716

**DOSE:** 0.0140% CHLORINE

**DISP:** Natural Death

**HISTO:** A87043639

**ORGAN AND ACCOUNTABLE SITE STATUS**

|                      |                     |                                |                 |
|----------------------|---------------------|--------------------------------|-----------------|
| Mammary Gland        |                     | Lymphoma Malignant Lymphocytic |                 |
| Mesentery            |                     | Lymphoma Malignant Lymphocytic |                 |
|                      | Fat                 | Necrosis                       | Moderate        |
| Note: NECROSIS       | TGLs = 6-21         |                                |                 |
| Ovary                |                     | Lymphoma Malignant Lymphocytic |                 |
| Pancreas             |                     | Lymphoma Malignant Lymphocytic |                 |
| Parathyroid Gland    |                     | Cyst                           |                 |
| Salivary Glands      |                     | Lymphoma Malignant Lymphocytic |                 |
| Spleen               |                     | Lymphoma Malignant Lymphocytic |                 |
| Note: LYMPH MAL LYMP | TGLs = 5-6          |                                |                 |
| Stomach              | Forestomach, Mucosa | Hyperplasia                    | Moderate        |
|                      | Glandular           | Lymphoma Malignant Lymphocytic |                 |
| Note: HYPERPLASIA    | TGLs = 18-28        |                                |                 |
| Note: LYMPH MAL LYMP | TGLs = 13-4         |                                |                 |
| Thymus               |                     | Lymphoma Malignant Lymphocytic |                 |
| Note: LYMPH MAL LYMP | TGLs = 17-27        |                                |                 |
| Thyroid Gland        |                     | Degeneration                   | Cystic, Minimal |
| Tissue NOS           |                     | Lymphoma Malignant Lymphocytic |                 |
| Note: LYMPH MAL LYMP | TGLs = 3-63         |                                |                 |
| Urinary Bladder      |                     | Lymphoma Malignant Lymphocytic |                 |
| Uterus               |                     | Hydrometra                     | Moderate        |
|                      |                     | Lymphoma Malignant Lymphocytic |                 |
| Note: HYDROMETRA     | TGLs = 4-7          |                                |                 |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 953

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043640

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Mammary Gland             | Nose                     | Pancreas                   | Parathyroid Gland       |
| Pituitary Gland           | Salivary Glands          | Skin                       | Stomach - Forestomach   |
| Stomach - Glandular       | Thymus                   | Trachea                    | Urinary Bladder         |

**OBSERVATIONS**

|                                     |              |                                |                      |
|-------------------------------------|--------------|--------------------------------|----------------------|
| Brain                               | Thalamus     | Mineralization                 | Mild                 |
| Kidney                              |              | Hyperplasia                    | Lymphoid, Minimal    |
|                                     | Renal Tubule | Regeneration                   | Minimal              |
| Liver                               |              | Hepatocellular Adenoma         |                      |
| Note: HEPATOCLR ADEN TGLs = 4-21    |              |                                |                      |
| Lung                                |              | Alveolar/Bronchiolar Carcinoma |                      |
|                                     |              | Infiltration Cellular          | Histiocyte, Moderate |
| Note: ALV BRON CARC TGLs = 5-2-1    |              |                                |                      |
| Ovary                               |              | Cyst                           |                      |
| Spleen                              | Red Pulp     | Hyperplasia                    | Mild                 |
| Thyroid Gland                       |              | Degeneration                   | Cystic, Mild         |
| Uterus                              |              | Hydrometra                     | Moderate             |
|                                     |              | Hyperplasia                    | Cystic, Mild         |
| Note: HYDROMETRA TGLs = 1-7,2-7,3-7 |              |                                |                      |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 954

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0.0140% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87043641

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Mammary Gland            | Nose                       | Ovary                   |
| Pancreas                  | Parathyroid Gland        | Pituitary Gland            | Skin                    |
| Spleen                    | Stomach - Forestomach    | Stomach - Glandular        | Thymus                  |
| Trachea                   |                          |                            |                         |

**OBSERVATIONS**

|                                |              |                       |                      |
|--------------------------------|--------------|-----------------------|----------------------|
| Brain                          |              | Inflammation          | Chronic, Mild        |
|                                | Thalamus     | Mineralization        | Mild                 |
| Eye                            |              | Cataract              | Mild                 |
|                                | Cornea       | Inflammation          | Chronic, Mild        |
| Note: CATARACT TGLs = 1-22     |              |                       |                      |
| Note: INFLAMMATION TGLs = 1-22 |              |                       |                      |
| Harderian Gland                |              | Cyst                  |                      |
| Note: CYST TGLs = 2-21         |              |                       |                      |
| Kidney                         | Renal Tubule | Atrophy               | Minimal              |
|                                |              | Casts Protein         | Minimal              |
|                                |              | Hyperplasia           | Lymphoid, Mild       |
|                                | Renal Tubule | Regeneration          | Minimal              |
|                                |              | Infiltration Cellular | Histiocyte, Moderate |
| Lung                           |              | Hyperplasia           | Lymphoid, Minimal    |
| Salivary Glands                |              | Degeneration          | Cystic, Minimal      |
| Thyroid Gland                  |              | Hyperplasia           | Lymphoid, Minimal    |
| Urinary Bladder                |              | Hyperplasia           | Cystic, Mild         |
| Uterus                         |              |                       |                      |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 955

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 731

**DOSE:** 0.0140% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87043642

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Mammary Gland              | Parathyroid Gland       |
| Pituitary Gland           | Skin                     | Stomach - Forestomach      | Trachea                 |

**OBSERVATIONS**

|                      |  |                          |                              |
|----------------------|--|--------------------------|------------------------------|
| Brain                | Thalamus                                 | Mineralization           | Mild                         |
| Harderian Gland      |  | Carcinoma                |                              |
| Note: CARCINOMA      | TGLs = 14-28                             |                          |                              |
| Kidney               |  | Lymphoma Malignant Mixed |                              |
| Note: LYMPH MAL MIXD | TGLs = 6-22                              |                          |                              |
| Liver                |  | Hepatocellular Adenoma   | Multiple, Three              |
|                      |  | Lymphoma Malignant Mixed |                              |
| Note: HEPATOCLR ADEN | TGLs = 7-23,8-24,9-25                    |                          |                              |
| Lung                 |  | Carcinoma                | Metastatic (Harderian Gland) |
|                      |  | Hemorrhage               | Minimal                      |
|                      |  | Lymphoma Malignant Mixed |                              |
| Lymph Node           | Mandibular                               | Carcinoma                | Metastatic (Harderian Gland) |
|                      | Iliac                                    | Lymphoma Malignant Mixed |                              |
|                      | Mandibular                               | Lymphoma Malignant Mixed |                              |
|                      | Mesenteric                               | Lymphoma Malignant Mixed |                              |
|                      | Renal                                    | Lymphoma Malignant Mixed |                              |
| Note: LYMPH MAL MIXD | TGLs = 12-27                             |                          |                              |
| Note: LYMPH MAL MIXD | TGLs = 11-26                             |                          |                              |
| Note: LYMPH MAL MIXD | TGLs = 10-5                              |                          |                              |
|                      | [ Lymphoma Malignant Mixed TGLS = 1-21 ] |                          |                              |
|                      | [ Lymphoma Malignant Mixed TGLS = 1-21 ] |                          |                              |
| Nose                 |  | Exudate                  |                              |
| Ovary                |  | Cyst                     |                              |
| Note: CYST           | TGLs = 2-7                               |                          |                              |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 955 | <b>TRT#:</b> 23               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 731 |
|                       | <b>DOSE:</b> 0.0140% CHLORINE | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87043642 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                      |            |                                  |                   |
|----------------------|------------|----------------------------------|-------------------|
| Pancreas             |            | Lymphoma Malignant Mixed         |                   |
| Salivary Glands      |            | Lymphoma Malignant Mixed         |                   |
| Spleen               |            | Hematopoietic Cell Proliferation | Mild              |
|                      |            | Lymphoma Malignant Mixed         |                   |
| Note: LYMPH MAL MIXD | TGLs = 5-6 |                                  |                   |
| Note: HEMA CELL PROL | TGLs = 5-6 |                                  |                   |
| Stomach              | Glandular  | Cyst                             |                   |
| Thymus               |            | Angiectasis                      | Moderate          |
|                      |            | Lymphoma Malignant Mixed         |                   |
| Thyroid Gland        |            | Degeneration                     | Cystic, Minimal   |
| Urinary Bladder      |            | Hyperplasia                      | Lymphoid, Minimal |
| Uterus               |            | Hydrometra                       | Moderate          |
|                      |            | Hyperplasia                      | Cystic, Moderate  |
| Note: HYPERPLASIA    | TGLs = 3-7 |                                  |                   |
| Note: HYDROMETRA     | TGLs = 4-7 |                                  |                   |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 956

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043643

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Kidney                     | Liver                   |
| Lymph Node - Mandibular   | Ovary                    | Pancreas                   | Parathyroid Gland       |
| Salivary Glands           | Skin                     | Spleen                     | Stomach - Forestomach   |
| Stomach - Glandular       | Thymus                   | Trachea                    | Urinary Bladder         |

**OBSERVATIONS**

|                                 |                |                       |                      |
|---------------------------------|----------------|-----------------------|----------------------|
| Brain                           | Thalamus       | Mineralization        | Mild                 |
| Lung                            |                | Hyperplasia           | Lymphoid, Mild       |
|                                 |                | Infiltration Cellular | Histiocyte, Moderate |
| Note: INFILTRAT CELL TGLs = 2-2 |                |                       |                      |
| Lymph Node                      | Mesenteric     | Hemorrhage            | Minimal              |
| Mammary Gland                   |                | Hyperplasia           | Cystic, Minimal      |
| Nose                            |                | Exudate               |                      |
|                                 | Glands         | Hyperplasia           | Cystic, Minimal      |
| Pituitary Gland                 | Pars Distalis  | Adenoma               |                      |
|                                 | Pars Distalis  | Angiectasis           | Moderate             |
|                                 | Pars Distalis  | Hyperplasia           | Mild                 |
| Thyroid Gland                   | Follicle       | Cyst                  |                      |
|                                 | Follicular Cel | Hyperplasia           | Mild                 |
| Uterus                          |                | Hyperplasia           | Cystic, Mild         |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 957

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043644

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lymph Node - Mesenteric    | Mammary Gland           | Nose                      |
| Pancreas                 | Parathyroid Gland          | Pituitary Gland         | Salivary Glands           |
| Skin                     | Stomach - Forestomach      | Stomach - Glandular     | Thymus                    |
| Trachea                  | Urinary Bladder            |                         |                           |

**MISSING**

Ovary

**OBSERVATIONS**

|                        |                  |                                  |                   |
|------------------------|------------------|----------------------------------|-------------------|
| Adrenal Gland          | Cortex           | Developmental Malformation       |                   |
| Brain                  | Thalamus         | Mineralization                   | Minimal           |
| Kidney                 | Renal Tubule     | Atrophy                          | Mild              |
|                        |                  | Histiocytic Sarcoma              |                   |
| Liver                  |                  | Basophilic Focus                 | Moderate          |
|                        |                  | Hepatoblastoma                   |                   |
|                        |                  | Hepatocellular Carcinoma         |                   |
|                        |                  | Histiocytic Sarcoma              |                   |
|                        | Hepatocyte       | Vacuolization Cytoplasmic        | Mild              |
| Note: HEPATOBLASTOMA   | TGLs = 6-22      |                                  |                   |
| Note: [ BASOPH FOCUS ] | TGLs = 23        |                                  |                   |
| Note: HEPATOCLR CARC   | TGLs = 5-21,6-22 |                                  |                   |
| Lung                   |                  | Hyperplasia                      | Lymphoid, Minimal |
| Lymph Node             | Mandibular       | Hyperplasia                      | Plasma Cell, Mild |
| Spleen                 |                  | Hematopoietic Cell Proliferation | Moderate          |
|                        | Lymph Follic     | Hyperplasia                      | Mild              |
| Note: HYPERPLASIA      | TGLs = 3-6       |                                  |                   |
| Note: HEMA CELL PROL   | TGLs = 3-6       |                                  |                   |
| Thyroid Gland          | Follicular Cel   | Hyperplasia                      | Minimal           |
| Uterus                 |                  | Histiocytic Sarcoma              |                   |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 957

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043644

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Hyperplasia

Cystic, Mild

Note: HYPERPLASIA TGLs = 1-7

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 958

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 737

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043645

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

Adrenal Gland - Medulla  
Esophagus  
Intestine Large - Colon  
Intestine Small - Jejunum  
Lymph Node - Mandibular  
Pancreas  
Skin  
Thymus

Bone  
Gallbladder  
Intestine Large - Rectum  
Islets, Pancreatic  
Lymph Node - Mesenteric  
Parathyroid Gland  
Spleen  
Trachea

Bone Marrow  
Heart  
Intestine Small - Duodenum  
Liver  
Mammary Gland  
Pituitary Gland  
Stomach - Forestomach

Brain  
Intestine Large - Cecum  
Intestine Small - Ileum  
Lung  
Nose  
Salivary Glands  
Stomach - Glandular

**OBSERVATIONS**

Adrenal Gland  
Clitoral Gland  
Kidney  
Ovary  
    Note: CYST      TGLs = 2-7  
Thyroid Gland  
Urinary Bladder  
Uterus

Cortex

Accessory Adrenal Cortical Nodule  
Ectasia  
Hyperplasia  
Cyst  
  
Degeneration  
Hyperplasia  
Hyperplasia  
Metaplasia

Moderate  
Lymphoid, Mild  
  
Cystic, Marked  
Lymphoid, Moderate  
Cystic, Moderate  
Squamous, Minimal

Note: HYPERPLASIA      TGLs = 3-7

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 959      **TRT#:** 23      **SEX:** Female      **DAY ON TEST:** 730  
**DOSE:** 0.0140% CHLORINE      **DISP:** Moribund Sacrifice      **HISTO:** A87043646

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex   | Adrenal Gland - Medulla    | Bone                    | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   |
| Mammary Gland            | Nose                       | Ovary                   | Pancreas                  |
| Parathyroid Gland        | Skin                       | Stomach - Forestomach   | Stomach - Glandular       |
| Thymus                   | Trachea                    |                         |                           |

**OBSERVATIONS**

|                                  |                 |                                  |                   |
|----------------------------------|-----------------|----------------------------------|-------------------|
| Bone Marrow                      |                 | Hypercellularity                 | Mild              |
| Brain                            | Thalamus        | Mineralization                   | Mild              |
| Kidney                           | Renal Tubule    | Atrophy                          | Minimal           |
|                                  |                 | Casts Protein                    | Minimal           |
|                                  |                 | Glomerulosclerosis               | Minimal           |
|                                  |                 | Hyperplasia                      | Lymphoid, Minimal |
|                                  | Interstitialium | Pigmentation                     | Minimal           |
|                                  | Renal Tubule    | Regeneration                     | Minimal           |
| Liver                            |                 | Hematopoietic Cell Proliferation | Mild              |
|                                  |                 | Hepatocellular Adenoma           | Four, Multiple    |
|                                  | Lobules         | Necrosis                         | Moderate          |
| Note: HEPATOCLR ADEN TGLs = 4-22 |                 |                                  |                   |
| Pituitary Gland                  | Pars Distalis   | Hyperplasia                      | Minimal           |
| Salivary Glands                  |                 | Hyperplasia                      | Lymphoid, Mild    |
| Spleen                           |                 | Hematopoietic Cell Proliferation | Marked            |
| Note: HEMA CELL PROL TGLs = 3-6  |                 |                                  |                   |
| Thyroid Gland                    |                 | Degeneration                     | Cystic, Mild      |
| Urinary Bladder                  |                 | Hyperplasia                      | Lymphoid, Minimal |
| Uterus                           |                 | Angiectasis                      | Mild              |
|                                  |                 | Hyperplasia                      | Cystic, Mild      |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 960

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 738

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043647

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    |
| Lymph Node - Mesenteric | Mammary Gland             | Nose                     | Pancreas                   |
| Parathyroid Gland       | Pituitary Gland           | Salivary Glands          | Skin                       |
| Stomach - Forestomach   | Stomach - Glandular       | Trachea                  |                            |

**OBSERVATIONS**

|                                       |              |                        |                   |
|---------------------------------------|--------------|------------------------|-------------------|
| Islets, Pancreatic                    |              | Hyperplasia            | Mild              |
| Kidney                                |              | Hyperplasia            | Lymphoid, Minimal |
|                                       | Renal Tubule | Regeneration           | Minimal           |
| Liver                                 |              | Hepatocellular Adenoma | Multiple, Two     |
|                                       |              | Inflammation           | Subacute, Minimal |
| Note: HEPATOCLR ADEN TGLs = 2-21,3-22 |              |                        |                   |
| Ovary                                 |              | Cyst                   |                   |
| Spleen                                | Lymph Follic | Hyperplasia            | Mild              |
| Note: HYPERPLASIA TGLs = 1-6          |              |                        |                   |
| Thymus                                |              | Angiectasis            | Mild              |
| Thyroid Gland                         | Follicle     | Cyst                   |                   |
|                                       |              | Degeneration           | Cystic, Minimal   |
|                                       |              | Inflammation           | Subacute, Minimal |
| Urinary Bladder                       |              | Hyperplasia            | Lymphoid, Mild    |
| Uterus                                |              | Hyperplasia            | Cystic, Mild      |
|                                       |              | Inflammation           | Suppurative, Mild |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 961      **TRT#:** 23      **SEX:** Female      **DAY ON TEST:** 310  
**DOSE:** 0.0140% CHLORINE      **DISP:** Moribund Sacrifice      **HISTO:** A86037798

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Esophagus                  | Gallbladder             |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Mammary Gland             | Nose                     | Ovary                      | Parathyroid Gland       |
| Pituitary Gland           | Skin                     | Stomach - Forestomach      | Stomach - Glandular     |
| Thyroid Gland             | Trachea                  | Urinary Bladder            |                         |

**OBSERVATIONS**

|   |                |                        |                          |
|---|----------------|------------------------|--------------------------|
| Bone  |                | Fibrous Histiocytoma   |                          |
| Note: FIB HISTIOCYT   | TGLs = 12-22   |                        |                          |
| Bone Marrow   |                | Fibrous Histiocytoma   |                          |
|   |                | Hypercellularity       | Mild                     |
| Brain   |                | Fibrous Histiocytoma   |                          |
|   | Thalamus       | Mineralization         | Minimal                  |
| Heart   |                | Fibrous Histiocytoma   |                          |
| Note: FIB HISTIOCYT   | TGLs = 11-5    |                        |                          |
| Note: FIB HISTIOCYT   | TGLs = 10-21   |                        |                          |
| Intestine Large   | Cecum          | Edema                  | Moderate                 |
| Kidney  | Renal Tubule   | Cytoplasmic Alteration | Moderate                 |
| Liver   |                | Fibrous Histiocytoma   |                          |
| Note: FIB HISTIOCYT   | TGLs = 6-6,7-6 |                        |                          |
| Lung  |                | Fibrous Histiocytoma   |                          |
|   |                | Hemorrhage             | Moderate                 |
| Note: FIB HISTIOCYT   | TGLs = 8-2     |                        |                          |
| Note: HEMORRHAGE  | TGLs = 8-2     |                        |                          |
| Mesentery   |                | Fibrous Histiocytoma   |                          |
| Note: THE FIB HISTIOCYTOMA IS ON SLIDES 4 AND 10.               |                |                        |                          |
| Pancreas  |                | Inflammation           | Chronic Active, Moderate |
| Note: THE INFLAMMATION CONTAINS PIGMENT RESEMBLING HEMOSIDERIN. |                |                        |                          |
| Salivary Glands   |                | Hyperplasia            | Lymphoid, Mild           |
| Spleen  |                | Fibrous Histiocytoma   |                          |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 961

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 310

**DOSE:** 0.0140% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A86037798

**ORGAN AND ACCOUNTABLE SITE STATUS**

|                                 |                                  |                   |
|---------------------------------|----------------------------------|-------------------|
| Note: FIB HISTIOCYT TGLs = 5-6  | Hematopoietic Cell Proliferation | Marked            |
| Note: HEMA CELL PROL TGLs = 4-6 |                                  |                   |
| Thymus                          | Fibrous Histiocytoma             |                   |
| Note: FIB HISTIOCYT TGLs = 9-2  |                                  |                   |
| Uterus                          | Hyperplasia                      | Cystic, Mild      |
|                                 | Inflammation                     | Suppurative, Mild |
| Note: HYPERPLASIA TGLs = 2-7    |                                  |                   |

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 962

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 738

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043648

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Liver                      | Lymph Node - Mandibular | Lymph Node - Mesenteric   |
| Mammary Gland            | Ovary                      | Pancreas                | Parathyroid Gland         |
| Pituitary Gland          | Skin                       | Spleen                  | Stomach - Forestomach     |
| Trachea                  |                            |                         |                           |

**MISSING**

Thymus

**OBSERVATIONS**

|                 |              |                                   |                   |
|-----------------|--------------|-----------------------------------|-------------------|
| Adrenal Gland   | Cortex       | Accessory Adrenal Cortical Nodule |                   |
| Brain           | Thalamus     | Mineralization                    | Mild              |
| Clitoral Gland  |              | Ectasia                           | Moderate          |
| Kidney          |              | Hyperplasia                       | Lymphoid, Minimal |
|                 | Renal Tubule | Regeneration                      | Minimal           |
| Lung            |              | Hyperplasia                       | Lymphoid, Mild    |
| Nose            | Glands       | Hyperplasia                       | Cystic, Minimal   |
| Salivary Glands |              | Hyperplasia                       | Lymphoid, Minimal |
| Stomach         | Glandular    | Cyst                              |                   |
| Thyroid Gland   |              | Degeneration                      | Cystic, Moderate  |
| Urinary Bladder |              | Hyperplasia                       | Lymphoid, Minimal |
| Uterus          |              | Hydrometra                        | Marked            |
|                 |              | Hyperplasia                       | Cystic, Marked    |

Note: HYDROMETRA TGLs = 3-7

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 963

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 732

**DOSE:** 0.0140% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87043649

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      | Lung                    |
| Lymph Node - Mandibular   | Lymph Node - Mesenteric  | Mammary Gland              | Nose                    |
| Pancreas                  | Parathyroid Gland        | Pituitary Gland            | Salivary Glands         |
| Skin                      | Spleen                   | Stomach - Forestomach      | Thymus                  |
| Trachea                   | Urinary Bladder          |                            |                         |

**OBSERVATIONS**

|               |                |                |                   |
|---------------|----------------|----------------|-------------------|
| Brain         | Thalamus       | Mineralization | Moderate          |
| Kidney        |                | Hyperplasia    | Lymphoid, Minimal |
|               |                | Mineralization | Minimal           |
|               | Renal Tubule   | Regeneration   | Minimal           |
| Ovary         |                | Angiectasis    | Mild              |
| Stomach       | Glandular      | Cyst           |                   |
| Thyroid Gland |                | Degeneration   | Cystic, Minimal   |
|               | Follicular Cel | Hyperplasia    | Minimal           |
| Uterus        |                | Hydrometra     | Marked            |
|               |                | Hyperplasia    | Cystic, Mild      |

Note: HYDROMETRA TGLs = 1-7,1-7-1

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 964

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 738

**DOSE:** 0.0140% CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043650

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Liver                    | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Mammary Gland             | Nose                     | Pancreas                   | Parathyroid Gland       |
| Pituitary Gland           | Skin                     | Stomach - Forestomach      | Stomach - Glandular     |
| Thymus                    | Thyroid Gland            | Trachea                    |                         |

**OBSERVATIONS**

|  |              |                |                   |
|--|--------------|----------------|-------------------|
| Brain  | Thalamus     | Mineralization | Minimal           |
| Islets, Pancreatic   |              | Adenoma        |                   |
| Kidney   |              | Casts Protein  | Minimal           |
|  |              | Hyperplasia    | Lymphoid, Minimal |
| Lung   |              | Hyperplasia    | Lymphoid, Minimal |
| Ovary  |              | Angiectasis    | Marked            |
| Note: ANGIECTASIS TGLs = 1-21                                  |              |                |                   |
| Note: BLOOD IN AREA OF ANGIECTASIS IS NECROTIC AND MINERALIZED |              |                |                   |
| Salivary Glands  |              | Hyperplasia    | Lymphoid, Minimal |
| Spleen   | Lymph Follic | Hyperplasia    | Mild              |
| Note: HYPERPLASIA TGLs = 3-6                                   |              |                |                   |
| Urinary Bladder  |              | Hyperplasia    | Lymphoid, Minimal |
| Uterus   |              | Hyperplasia    | Cystic, Mild      |
| Note: HYPERPLASIA TGLs = 2-7                                   |              |                |                   |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 965

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 557

**DOSE:** 0.0140% CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87043651

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Bone                      | Esophagus                | Gallbladder                | Heart                   |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lung                     | Mammary Gland              | Nose                    |
| Ovary                     | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Salivary Glands           | Skin                     | Stomach - Forestomach      | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**OBSERVATIONS**

|                      |              |                                  |                       |
|----------------------|--------------|----------------------------------|-----------------------|
| Adrenal Gland        | Cortex       | Hematopoietic Cell Proliferation | Moderate              |
|                      | Medulla      | Hyperplasia                      | Minimal               |
| Bone Marrow          |              | Hypercellularity                 | Marked                |
| Brain                | Thalamus     | Mineralization                   | Mild                  |
| Intestine Large      | Cecum        | Edema                            | Mild                  |
| Islets, Pancreatic   |              | Hyperplasia                      | Mild                  |
| Kidney               | Renal Tubule | Dilatation                       | Minimal               |
|                      |              | Mineralization                   | Minimal               |
|                      | Renal Tubule | Regeneration                     | Mild                  |
| Liver                |              | Hematopoietic Cell Proliferation | Marked                |
| Lymph Node           | Iliac        | Hematopoietic Cell Proliferation | Marked                |
|                      | Mandibular   | Hematopoietic Cell Proliferation | Mild                  |
|                      | Mediastinal  | Hematopoietic Cell Proliferation | Moderate              |
|                      | Mesenteric   | Hematopoietic Cell Proliferation | Marked                |
|                      | Iliac        | Hemorrhage                       | Moderate              |
|                      | Iliac        | Hyperplasia                      | Plasma Cell, Moderate |
| Note: HEMA CELL PROL | TGLs = 5-21  |                                  |                       |
| Note: HEMA CELL PROL | TGLs = 6-2   |                                  |                       |
| Note: HYPERPLASIA    | TGLs = 5-21  |                                  |                       |
| Spleen               |              | Hematopoietic Cell Proliferation | Marked                |
| Note: HEMA CELL PROL | TGLs = 1-6   |                                  |                       |
| Stomach              | Glandular    | Edema                            | Mild                  |
| Thymus               |              | Cyst                             |                       |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 965 | <b>TRT#:</b> 23               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 557 |
|                       | <b>DOSE:</b> 0.0140% CHLORINE | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87043651 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|               |                |                    |                     |
|---------------|----------------|--------------------|---------------------|
| Thyroid Gland |                | Depletion Cellular | Moderate            |
|               |                | Degeneration       | Cystic, Moderate    |
|               | Follicular Cel | Hyperplasia        | Minimal             |
| Uterus        |                | Hyperplasia        | Cystic, Mild        |
|               |                | Inflammation       | Suppurative, Marked |
|               |                | Metaplasia         | Squamous, Moderate  |

Note: INFLAMMATION TGLs = 2-7,3-7

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PRIMARY CAUSE OF DEATH -

---

Animal Note: HEMATOPOIETIC CELLS IN MESENTERY AROUND URINARY BLADDER;

Animal Note: NOT CODED

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 967

**TRT#:** 24  
**DOSE:** 0.0140% 3 SSAC

**SEX:** Female  
**DISP:** Scheduled Sacrifice

**DAY ON TEST:** 102  
**HISTO:** 39581

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**OBSERVATIONS**

Uterus  
[ Cyst TGLS = 7 ]

Endometrium

Cyst

Mild

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 971

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 456

**DOSE:** 0.0140% CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** 37799

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**OBSERVATIONS**

Uterus

Hyperplasia

Cystic, Mild

[ Hyperplasia TGLS = 7 ]

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**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 972

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 458

**DOSE:** 0.0140% CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** 37800

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**OBSERVATIONS**

Uterus

Hyperplasia

Cystic, Minimal

[ Hyperplasia TGLS = 7 ]

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**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 973

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 456

**DOSE:** 0.0140% CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** 37801

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**OBSERVATIONS**

Uterus

Hyperplasia

Cystic, Moderate

[ Hyperplasia TGLS = 7 ]

---

**PRIMARY CAUSE OF DEATH**

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 974

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 458

**DOSE:** 0.0140% CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** 37802

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**OBSERVATIONS**

Kidney  
Note: [ REGENERATION ] TGLs = 5

Renal Tubule

Regeneration

Minimal

Uterus  
Note: [ HYPERPLASIA ] TGLs = 7

Hyperplasia

Cystic, Moderate

---

PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

---

**ANIMAL ID:** 975

**TRT#:** 23

**SEX:** Female

**DAY ON TEST:** 458

**DOSE:** 0.0140% CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** 37803

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**OBSERVATIONS**

Uterus

Hyperplasia

Cystic, Mild

[ Hyperplasia TGLS = 7 ]

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PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 976

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 707

**DOSE:** 0.00700%CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87043675

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Cortex     | Adrenal Gland - Medulla | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Kidney                     | Lung                    | Lymph Node - Mandibular   | Mammary Gland            |
| Nose                       | Pancreas                | Parathyroid Gland         | Pituitary Gland          |
| Salivary Glands            | Skin                    | Spleen                    | Stomach - Forestomach    |
| Thymus                     | Trachea                 | Urinary Bladder           |                          |

**INSUFFICIENT TISSUE**

Ovary

**OBSERVATIONS**

|                                  |            |                        |                    |
|----------------------------------|------------|------------------------|--------------------|
| Bone                             |            | Hyperostosis           | Moderate           |
| Bone Marrow                      |            | Hypercellularity       | Moderate           |
| Brain                            | Thalamus   | Mineralization         | Mild               |
| Liver                            |            | Angiectasis            | Mild               |
|                                  |            | Eosinophilic Focus     |                    |
|                                  |            | Hepatocellular Adenoma |                    |
| Note: ANGIECTASIS IS ON SLIDE 22 |            |                        |                    |
| Note: HEPATOCLR ADEN TGLs = 3-21 |            |                        |                    |
| Note: EOSIN FOCUS TGLs = 4-22    |            |                        |                    |
| Lymph Node                       | Mesenteric | Hyperplasia            | Lymphoid, Moderate |
| Stomach                          | Glandular  | Cyst                   |                    |
| Thyroid Gland                    |            | Degeneration           | Cystic, Moderate   |
| Uterus                           |            | Angiectasis            | Moderate           |
|                                  |            | Hydrometra             | Marked             |
|                                  |            | Hyperplasia            | Cystic, Mild       |
| Note: HYDROMETRA TGLs = 2-7      |            |                        |                    |
| Note: ANGIECTASIS TGLs = 1-7     |            |                        |                    |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 977

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 717

**DOSE:** 0.00700%CHLORINE

**DISP:** Natural Death

**HISTO:** A87043676

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                         |
|----------------------------|-------------------------|---------------------------|-------------------------|
| Adrenal Gland - Medulla    | Bone                    | Bone Marrow               | Esophagus               |
| Gallbladder                | Heart                   | Intestine Large - Cecum   | Intestine Large - Colon |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic      |
| Lung                       | Mammary Gland           | Nose                      | Ovary                   |
| Pancreas                   | Parathyroid Gland       | Salivary Glands           | Skin                    |
| Stomach - Forestomach      | Stomach - Glandular     | Thymus                    | Thyroid Gland           |
| Trachea                    |                         |                           |                         |

**MISSING**

Intestine Large - Rectum

**OBSERVATIONS**

|                      |               |                                   |                   |
|----------------------|---------------|-----------------------------------|-------------------|
| Adrenal Gland        | Cortex        | Accessory Adrenal Cortical Nodule |                   |
| Brain                | Thalamus      | Mineralization                    | Mild              |
| Kidney               |               | Hyperplasia                       | Lymphoid, Minimal |
| Liver                |               | Hematopoietic Cell Proliferation  | Moderate          |
|                      | Kupffer Cell  | Hyperplasia                       | Moderate          |
|                      | Lobules       | Necrosis                          | Minimal           |
|                      | Kupffer Cell  | Pigmentation                      | Moderate          |
| Lymph Node           | Mandibular    | Lymphoma Malignant Lymphocytic    |                   |
|                      | Mesenteric    | Lymphoma Malignant Lymphocytic    |                   |
| Pituitary Gland      | Pars Distalis | Adenoma                           |                   |
| Spleen               |               | Hematopoietic Cell Proliferation  | Marked            |
|                      |               | Hemorrhage                        | Marked            |
|                      |               | Lymphoma Malignant Lymphocytic    |                   |
| Note: HEMA CELL PROL | TGLs = 1-6    |                                   |                   |
| Note: LYMPH MAL LYMP | TGLs = 1-6    |                                   |                   |
| Urinary Bladder      |               | Hyperplasia                       | Lymphoid, Minimal |
| Uterus               |               | Hyperplasia                       | Cystic, Moderate  |

**PRIMARY CAUSE OF DEATH**

-

Animal Note: PORTIONS OF LYMPHOMA COMPRISED OF CELLS

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 977

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 717

**DOSE:** 0.00700%CHLORINE

**DISP:** Natural Death

**HISTO:** A87043676

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Animal Note: RESEMBLING HISTIOCYTES

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 978

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043677

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Mammary Gland            | Nose                       | Pancreas                |
| Parathyroid Gland         | Pituitary Gland          | Skin                       | Spleen                  |
| Stomach - Forestomach     | Stomach - Glandular      | Thymus                     | Thyroid Gland           |
| Trachea                   |                          |                            |                         |

**OBSERVATIONS**

|                   |              |                              |                   |
|-------------------|--------------|------------------------------|-------------------|
| Brain             | Thalamus     | Mineralization               | Mild              |
| Kidney            |              | Hyperplasia                  | Lymphoid, Minimal |
|                   | Renal Tubule | Regeneration                 | Minimal           |
| Liver             |              | Hyperplasia                  | Focal, Moderate   |
| Note: HYPERPLASIA | TGLs = 1-21  |                              |                   |
| Ovary             |              | Granulosa-Theca Tumor Benign |                   |
| Salivary Glands   |              | Hyperplasia                  | Lymphoid, Minimal |
| Urinary Bladder   |              | Hyperplasia                  | Lymphoid, Minimal |
| Uterus            |              | Hyperplasia                  | Cystic, Minimal   |
|                   |              | Metaplasia                   | Squamous, Minimal |

**PRIMARY CAUSE OF DEATH**

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:15  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 979

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 640

**DOSE:** 0.00700%CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87043678

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Medulla    | Bone                    | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Lymph Node - Mandibular    | Lymph Node - Mesenteric | Mammary Gland             | Nose                     |
| Parathyroid Gland          | Pituitary Gland         | Salivary Glands           | Stomach - Forestomach    |
| Thymus                     | Trachea                 | Urinary Bladder           |                          |

**OBSERVATIONS**

|                                   |                |                                  |          |
|-----------------------------------|----------------|----------------------------------|----------|
| Adrenal Gland                     | Cortex         | Histiocytic Sarcoma              |          |
| Bone Marrow                       |                | Hypercellularity                 | Mild     |
| Brain                             | Thalamus       | Mineralization                   | Moderate |
| Kidney                            | Renal Tubule   | Cytoplasmic Alteration           | Moderate |
|                                   | Renal Tubule   | Regeneration                     | Mild     |
| Note: CYTOPLAS ALTER TGLs = 6-5   |                |                                  |          |
| Liver                             |                | Hematopoietic Cell Proliferation | Marked   |
|                                   |                | Histiocytic Sarcoma              |          |
| Note: HISTIO SARC TGLs = 9-6,10-6 |                |                                  |          |
| Lung                              |                | Histiocytic Sarcoma              |          |
| Mesentery                         |                | Histiocytic Sarcoma              |          |
| Ovary                             |                | Angiectasis                      | Mild     |
|                                   |                | Cyst                             |          |
| Pancreas                          |                | Cytoplasmic Alteration           | Moderate |
| Skeletal Muscle                   |                | Histiocytic Sarcoma              |          |
| Note: HISTIO SARC TGLs = 8-21     |                |                                  |          |
| Skin                              | Subcut Tiss    | Edema                            | Moderate |
| Note: EDEMA TGLs = 1-8            |                |                                  |          |
| Spleen                            |                | Hematopoietic Cell Proliferation | Marked   |
| Note: HEMA CELL PROL TGLs = 5-6   |                |                                  |          |
| Stomach                           | Glandular      | Cyst                             |          |
| Thyroid Gland                     | Follicular Cel | Hyperplasia                      | Mild     |
| Uterus                            |                | Hydrometra                       | Moderate |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 979

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 640

**DOSE:** 0.00700%CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87043678

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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Hyperplasia

Cystic, Mild

Note: HYPERPLASIA    TGLs = 4-7  
Note: HYDROMETRA    TGLs = 3-7

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 980

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043679

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   |
| Mammary Gland            | Nose                       | Ovary                   | Pancreas                  |
| Parathyroid Gland        | Salivary Glands            | Skin                    | Stomach - Forestomach     |
| Stomach - Glandular      | Thymus                     | Trachea                 | Urinary Bladder           |

**OBSERVATIONS**

|                      |                |                                   |                 |
|----------------------|----------------|-----------------------------------|-----------------|
| Adrenal Gland        | Cortex         | Accessory Adrenal Cortical Nodule |                 |
| Brain                | Thalamus       | Mineralization                    | Minimal         |
| Kidney               |                | Casts Protein                     | Minimal         |
|                      |                | Cyst                              |                 |
|                      |                | Metaplasia                        | Osseous, Mild   |
|                      | Renal Tubule   | Regeneration                      | Mild            |
| Liver                |                | Hepatocellular Adenoma            |                 |
|                      |                | Hyperplasia                       | Focal, Moderate |
|                      |                | Lymphoma Malignant Mixed          |                 |
| Note: HEPATOCLR ADEN |                |                                   |                 |
| TGLs = 3-21          |                |                                   |                 |
| Note: HYPERPLASIA    |                |                                   |                 |
| TGLs = 4-22          |                |                                   |                 |
| Note: LYMPH MAL MIXD |                |                                   |                 |
| TGLs = 5-23          |                |                                   |                 |
| Pituitary Gland      | Pars Distalis  | Adenoma                           |                 |
| Spleen               |                | Lymphoma Malignant Mixed          |                 |
| Note: LYMPH MAL MIXD |                |                                   |                 |
| TGLs = 2-6           |                |                                   |                 |
| Thyroid Gland        | Follicular Cel | Hyperplasia                       | Moderate        |
| Uterus               |                | Hydrometra                        | Mild            |
|                      |                | Hyperplasia                       | Cystic, Mild    |
| Note: HYPERPLASIA    |                |                                   |                 |
| TGLs = 1-7           |                |                                   |                 |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

|                       |  |   |  |
|-----------------------|--|---|--|
| <b>ANIMAL ID:</b> 981 | <b>TRT#:</b> 27<br><b>DOSE:</b> 0.00700%CHLORINE | <b>SEX:</b> Female<br><b>DISP:</b> Moribund Sacrifice | <b>DAY ON TEST:</b> 708<br><b>HISTO:</b> A87043680 |
|-----------------------|--|---|--|

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Mammary Gland              | Nose                    | Ovary                     |
| Parathyroid Gland        | Pituitary Gland            | Stomach - Forestomach   | Stomach - Glandular       |
| Thymus                   | Trachea                    | Urinary Bladder         |                           |

**OBSERVATIONS**

|                                  |              |                              |                  |
|----------------------------------|--------------|------------------------------|------------------|
| Adrenal Gland                    | Cortex       | Hyperplasia                  | Focal, Moderate  |
| Brain                            | Thalamus     | Mineralization               | Minimal          |
| Kidney                           |              | Hemorrhage                   | Mild             |
|                                  |              | Hyperplasia                  | Lymphoid, Mild   |
|                                  | Renal Tubule | Regeneration                 | Mild             |
| Liver                            |              | Basophilic Focus             |                  |
|                                  |              | Hyperplasia                  | Focal, Mild      |
| Lung                             |              | Alveolar/Bronchiolar Adenoma |                  |
| Note: ALV BRON ADEN TGLs = 4-2-1 |              |                              |                  |
| Lymph Node                       | Mandibular   | Lymphoma Malignant Mixed     |                  |
|                                  | Mediastinal  | Lymphoma Malignant Mixed     |                  |
|                                  | Mesenteric   | Lymphoma Malignant Mixed     |                  |
|                                  | Pancreatic   | Lymphoma Malignant Mixed     |                  |
| Note: LYMPH MAL MIXD TGLs = 2-21 |              |                              |                  |
| Pancreas                         |              | Lymphoma Malignant Mixed     |                  |
| Salivary Glands                  |              | Lymphoma Malignant Mixed     |                  |
| Skin                             |              | Inflammation                 | Chronic, Minimal |
| Spleen                           |              | Lymphoma Malignant Mixed     |                  |
| Note: LYMPH MAL MIXD TGLs = 3-6  |              |                              |                  |
| Thyroid Gland                    |              | Degeneration                 | Cystic, Mild     |
| Uterus                           |              | Hyperplasia                  | Cystic, Mild     |
| Note: HYPERPLASIA TGLs = 1-7     |              |                              |                  |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 982

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 738

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043681

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Mammary Gland             | Pancreas                 | Parathyroid Gland          | Pituitary Gland         |
| Salivary Glands           | Stomach - Forestomach    | Trachea                    |                         |

**OBSERVATIONS**

|   |                |                                  |                   |
|---|----------------|----------------------------------|-------------------|
| Brain                                     | Thalamus       | Mineralization                   | Mild              |
| Kidney                                    | Renal Tubule   | Regeneration                     | Minimal           |
| Liver                                     |                | Hepatocellular Adenoma           | Multiple, Two     |
|   |                | Hepatocellular Carcinoma         | Multiple, Two     |
| Lymph Node                                | Mesenteric     | Hemorrhage                       | Minimal           |
| Nose                                      |                | Exudate                          |                   |
| Ovary                                     |                | Cyst                             |                   |
| Skin                                      | Subcut Tiss    | Edema                            | Moderate          |
| Note: EDEMA IS ADJACENT TO SALIVARY GLAND |                |                                  |                   |
| Spleen                                    |                | Hematopoietic Cell Proliferation | Moderate          |
| Note: HEMA CELL PROL TGLs = 1-6           |                |                                  |                   |
| Stomach                                   | Glandular      | Cyst                             |                   |
| Thymus                                    |                | Cyst                             |                   |
| Thyroid Gland                             | Follicular Cel | Hyperplasia                      | Minimal           |
| Urinary Bladder                           |                | Hyperplasia                      | Lymphoid, Minimal |
| Uterus                                    |                | Hyperplasia                      | Cystic, Mild      |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                            |                         |
|-----------------------|-------------------------------|----------------------------|-------------------------|
| <b>ANIMAL ID:</b> 983 | <b>TRT#:</b> 27               | <b>SEX:</b> Female         | <b>DAY ON TEST:</b> 501 |
|                       | <b>DOSE:</b> 0.00700%CHLORINE | <b>DISP:</b> Natural Death | <b>HISTO:</b> A87043682 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric |
| Mammary Gland             | Nose                     | Ovary                      | Parathyroid Gland       |
| Salivary Glands           | Skin                     | Spleen                     | Stomach - Forestomach   |
| Trachea                   | Urinary Bladder          |                            |                         |

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**MISSING**

Pituitary Gland

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**OBSERVATIONS**

|                   |            |                           |                  |
|-------------------|------------|---------------------------|------------------|
| Brain             | Thalamus   | Mineralization            | Minimal          |
| Kidney            |            | Casts Protein             | Minimal          |
|                   |            | Cyst                      |                  |
| Liver             | Hepatocyte | Vacuolization Cytoplasmic | Mild             |
| Lung              |            | Congestion                | Moderate         |
|                   |            | Thrombosis                |                  |
| Pancreas          |            | Cytoplasmic Alteration    | Marked           |
| Stomach           | Glandular  | Erosion                   | Moderate         |
| Note: EROSION     | TGLs = 2-4 |                           |                  |
| Thymus            |            | Depletion Cellular        | Moderate         |
| Thyroid Gland     |            | Degeneration              | Cystic, Moderate |
| Uterus            |            | Hyperplasia               | Cystic, Minimal  |
| Note: HYPERPLASIA | TGLs = 1-7 |                           |                  |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 984

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 684

**DOSE:** 0.00700%CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87043683

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                         |                         |
|-------------------------|---------------------------|-------------------------|-------------------------|
| Adrenal Gland - Medulla | Bone                      | Bone Marrow             | Esophagus               |
| Gallbladder             | Heart                     | Intestine Large - Cecum | Intestine Large - Colon |
| Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic      | Lung                    |
| Lymph Node - Mandibular | Lymph Node - Mesenteric   | Mammary Gland           | Nose                    |
| Pancreas                | Parathyroid Gland         | Pituitary Gland         | Salivary Glands         |
| Skin                    | Spleen                    | Stomach - Forestomach   | Stomach - Glandular     |
| Trachea                 |                           |                         |                         |

**MISSING**

Thymus

**OBSERVATIONS**

|                      |                 |                                   |                   |
|----------------------|-----------------|-----------------------------------|-------------------|
| Adrenal Gland        | Cortex          | Accessory Adrenal Cortical Nodule |                   |
|                      | Capsule, Cortex | Hyperplasia                       | Mild              |
| Brain                | Thalamus        | Mineralization                    | Mild              |
| Intestine Large      | Rectum          | Erosion                           | Mild              |
| Intestine Small      | Duodenum        | Erosion                           | Mild              |
| Kidney               | Renal Tubule    | Regeneration                      | Minimal           |
| Liver                |                 | Clear Cell Focus                  |                   |
| Note: CLEAR CL FOCUS | TGLs = 2-21     |                                   |                   |
| Ovary                |                 | Angiectasis                       | Mild              |
| Thyroid Gland        |                 | Degeneration                      | Cystic, Mild      |
| Urinary Bladder      |                 | Hyperplasia                       | Lymphoid, Minimal |
| Uterus               |                 | Hydrometra                        | Moderate          |
|                      |                 | Hyperplasia                       | Cystic, Mild      |

Note: HYDROMETRA TGLs = 1-7

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 985

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 738

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043684

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex   | Adrenal Gland - Medulla    | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric | Mammary Gland             |
| Nose                     | Pancreas                   | Parathyroid Gland       | Pituitary Gland           |
| Salivary Glands          | Stomach - Forestomach      | Stomach - Glandular     | Thyroid Gland             |
| Trachea                  |                            |                         |                           |

**OBSERVATIONS**

|                          |                  |                                |                      |
|--------------------------|------------------|--------------------------------|----------------------|
| Bone                     |                  | Hyperostosis                   | Mild                 |
| Brain                    | Thalamus         | Mineralization                 | Mild                 |
| Kidney                   | Renal Tubule     | Atrophy                        | Minimal              |
|                          | Renal Tubule     | Regeneration                   | Minimal              |
| Liver                    |                  | Hepatocellular Adenoma         | Multiple, Two        |
|                          |                  | Hyperplasia                    | Lymphoid, Mild       |
|                          |                  | Lymphoma Malignant Lymphocytic |                      |
| Note: HEPATOCLR ADEN     | TGLs = 5-22,6-23 |                                |                      |
| Lung                     |                  | Alveolar/Bronchiolar Adenoma   |                      |
|                          |                  | Alveolar/Bronchiolar Carcinoma |                      |
|                          |                  | Infiltration Cellular          | Histiocyte, Moderate |
| Note: ALV BRON CARC      | TGLs = 7-2-1     |                                |                      |
| Ovary                    |                  | Angiectasis                    | Moderate             |
|                          |                  | Cyst                           |                      |
| Note: CYST               | TGLs = 2-7       |                                |                      |
| Skin                     |                  | Acanthosis                     | Moderate             |
|                          |                  | Inflammation                   | Chronic, Mild        |
| Note: ACANTHOSIS         | TGLs = 1-21      |                                |                      |
| Note: INFLAMMATION       | TGLs = 1-21      |                                |                      |
| Spleen                   |                  | Lymphoma Malignant Lymphocytic |                      |
| Note: [ LYMPH MAL LYMP ] | TGLs = 6         |                                |                      |
| Thymus                   |                  | Angiectasis                    | Moderate             |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 985 | <b>TRT#:</b> 27               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 738 |
|                       | <b>DOSE:</b> 0.00700%CHLORINE | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87043684 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                 |             |                    |
|-----------------|-------------|--------------------|
| Urinary Bladder | Cyst        | Lymphoid, Moderate |
| Uterus          | Hyperplasia | Marked             |
|                 | Hydrometra  | Cystic, Mild       |
|                 | Hyperplasia |                    |

Note: HYDROMETRA TGLs = 3-7

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 986

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 738

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043685

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Medulla    | Bone Marrow             | Esophagus                 | Gallbladder              |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Lung                     |
| Lymph Node - Mandibular    | Lymph Node - Mesenteric | Mammary Gland             | Nose                     |
| Ovary                      | Pancreas                | Parathyroid Gland         | Pituitary Gland          |
| Salivary Glands            | Skin                    | Spleen                    | Stomach - Forestomach    |
| Thymus                     | Trachea                 | Urinary Bladder           |                          |

**OBSERVATIONS**

|                    |                |                                   |                   |
|--------------------|----------------|-----------------------------------|-------------------|
| Adrenal Gland      | Cortex         | Accessory Adrenal Cortical Nodule |                   |
| Bone               |                | Hyperostosis                      | Minimal           |
| Brain              | Thalamus       | Mineralization                    | Mild              |
| Islets, Pancreatic |                | Hyperplasia                       | Minimal           |
| Kidney             | Renal Tubule   | Regeneration                      | Minimal           |
| Liver              |                | Basophilic Focus                  | Moderate          |
|                    |                | Hepatocellular Adenoma            |                   |
|                    |                | Hyperplasia                       | Focal, Mild       |
|                    |                | Inflammation                      | Subacute, Minimal |
| Mesentery          | Fat            | Necrosis                          | Moderate          |
| Note: NECROSIS     | TGLs = 3-21    |                                   |                   |
| Stomach            | Glandular      | Cyst                              |                   |
| Thyroid Gland      | Follicular Cel | Hyperplasia                       | Moderate          |
| Uterus             |                | Hyperplasia                       | Cystic, Moderate  |
| Note: HYPERPLASIA  | TGLs = 1-7     |                                   |                   |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 987

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 738

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043686

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Liver                    | Lung                       | Lymph Node - Mandibular | Lymph Node - Mesenteric   |
| Mammary Gland            | Nose                       | Ovary                   | Pancreas                  |
| Parathyroid Gland        | Pituitary Gland            | Skin                    | Spleen                    |
| Stomach - Glandular      | Thymus                     | Trachea                 |                           |

**OBSERVATIONS**

|   |                     |                                   |                    |
|---|---------------------|-----------------------------------|--------------------|
| Adrenal Gland   | Cortex              | Accessory Adrenal Cortical Nodule |                    |
| Brain   | Thalamus            | Inflammation                      | Chronic, Mild      |
|   |                     | Mineralization                    | Moderate           |
| Note: SOME SURROUNDING BLOOD VESSELS, IN MENINGES           |                     |                                   |                    |
| Note: CHRONIC INFLAMMATION CONSISTS OF FOCI OF LYMPHOCYTES, |                     |                                   |                    |
| Islets, Pancreatic  |                     | Adenoma                           |                    |
| Kidney  | Renal Tubule        | Casts Protein                     | Minimal            |
|   |                     | Dilatation                        | Mild               |
|   | Renal Tubule        | Hyperplasia                       | Lymphoid, Moderate |
|   |                     | Regeneration                      | Minimal            |
| Salivary Glands   |                     | Hyperplasia                       | Lymphoid, Minimal  |
| Stomach   | Forestomach, Mucosa | Hyperplasia                       | Minimal            |
| Thyroid Gland   | Follicle            | Cyst                              |                    |
|   | Follicular Cel      | Hyperplasia                       | Moderate           |
| Urinary Bladder   |                     | Hyperplasia                       | Lymphoid, Minimal  |
| Uterus  |                     | Hydrometra                        | Marked             |
|   |                     | Hyperplasia                       | Cystic, Moderate   |

Note: HYDROMETRA TGLs = 2-7

PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 988

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043687

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Lung                       | Lymph Node - Mandibular |
| Lymph Node - Mesenteric   | Mammary Gland            | Nose                       | Pancreas                |
| Parathyroid Gland         | Salivary Glands          | Skin                       | Spleen                  |
| Stomach - Forestomach     | Stomach - Glandular      | Thymus                     | Trachea                 |
| Urinary Bladder           |                          |                            |                         |

**OBSERVATIONS**

|                      |                  |                        |                   |
|----------------------|------------------|------------------------|-------------------|
| Brain                | Thalamus         | Mineralization         | Mild              |
| Harderian Gland      |                  | Hyperplasia            | Focal, Mild       |
| Kidney               |                  | Hyperplasia            | Lymphoid, Minimal |
|                      | Renal Tubule     | Regeneration           | Minimal           |
| Liver                |                  | Hepatocellular Adenoma | Multiple, Two     |
| Note: HEPATOCLR ADEN | TGLs = 6-21,7-22 |                        |                   |
| Ovary                |                  | Cyst                   |                   |
| Note: CYST           | TGLs = 1-7,1-7-1 |                        |                   |
| Pituitary Gland      | Pars Distalis    | Angiectasis            | Minimal           |
|                      | Pars Distalis    | Hyperplasia            | Minimal           |
| Thyroid Gland        | Follicular Cel   | Hyperplasia            | Minimal           |
| Uterus               |                  | Histiocytic Sarcoma    |                   |
|                      |                  | Hydrometra             | Mild              |
|                      |                  | Hyperplasia            | Cystic, Mild      |
| Note: HYPERPLASIA    | TGLs = 2-7       |                        |                   |
| Note: HYDROMETRA     | TGLs = 3-7,4-7   |                        |                   |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 989

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 730

**DOSE:** 0.00700%CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87043688

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex   | Adrenal Gland - Medulla    | Bone                    | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Kidney                     | Lung                    | Lymph Node - Mesenteric   |
| Mammary Gland            | Nose                       | Parathyroid Gland       | Pituitary Gland           |
| Stomach - Forestomach    | Stomach - Glandular        | Trachea                 |                           |

**OBSERVATIONS**

|                                     |            |                                  |                       |
|-------------------------------------|------------|----------------------------------|-----------------------|
| Bone Marrow                         |            | Hypercellularity                 | Mild                  |
| Brain                               | Thalamus   | Mineralization                   | Minimal               |
| Harderian Gland                     |            | Carcinoma                        |                       |
| Note: CARCINOMA    TGLs = 5-9       |            |                                  |                       |
| Liver                               |            | Hepatocellular Carcinoma         |                       |
| Note: HEPATOCLR CARC    TGLs = 2-21 |            | Inflammation                     | Subacute, Minimal     |
| Lymph Node                          | Mandibular | Hyperplasia                      | Plasma Cell, Moderate |
| Note: HYPERPLASIA    TGLs = 1-8     | Mandibular | Hyperplasia                      | Lymphoid, Moderate    |
| Note: HYPERPLASIA    TGLs = 1-8     |            |                                  |                       |
| Ovary                               |            | Angiectasis                      | Moderate              |
| Pancreas                            |            | Hyperplasia                      | Lymphoid, Mild        |
| Salivary Glands                     |            | Hyperplasia                      | Lymphoid, Mild        |
| Skin                                |            | Acanthosis                       | Moderate              |
|                                     |            | Exudate                          |                       |
| Note: EXUDATE    TGLs = 4-22        |            | Inflammation                     | Chronic, Mild         |
| Note: INFLAMMATION    TGLs = 4-22   |            |                                  |                       |
| Note: ACANTHOSIS    TGLs = 4-22     |            |                                  |                       |
| Spleen                              |            | Hematopoietic Cell Proliferation | Moderate              |
| Thymus                              |            | Thymoma Benign                   |                       |
| Note: THYMOMA BGN    TGLs = 3-2     |            |                                  |                       |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 989 | <b>TRT#:</b> 27               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 730 |
|                       | <b>DOSE:</b> 0.00700%CHLORINE | <b>DISP:</b> Moribund Sacrifice | <b>HISTO:</b> A87043688 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                 |                |             |                |
|-----------------|----------------|-------------|----------------|
| Thyroid Gland   | Follicular Cel | Hyperplasia | Minimal        |
| Urinary Bladder |                | Hyperplasia | Lymphoid, Mild |
| Uterus          |                | Hyperplasia | Cystic, Mild   |

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 990

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043689

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lymph Node - Mandibular    | Lymph Node - Mesenteric | Mammary Gland             |
| Parathyroid Gland        | Pituitary Gland            | Skin                    | Stomach - Forestomach     |
| Stomach - Glandular      | Thymus                     | Trachea                 | Urinary Bladder           |

**OBSERVATIONS**

|                                  |                 |                                   |                     |
|----------------------------------|-----------------|-----------------------------------|---------------------|
| Adrenal Gland                    | Cortex          | Accessory Adrenal Cortical Nodule |                     |
|                                  | Capsule, Cortex | Hyperplasia                       | Mild                |
| Brain                            | Thalamus        | Mineralization                    | Mild                |
| Kidney                           | Renal Tubule    | Atrophy                           | Minimal             |
|                                  |                 | Glomerulosclerosis                | Minimal             |
|                                  | Renal Tubule    | Lymphoma Malignant Mixed          |                     |
| Liver                            |                 | Regeneration                      | Minimal             |
|                                  |                 | Hepatocellular Adenoma            |                     |
|                                  | Kupffer Cell    | Inflammation                      | Subacute, Mild      |
|                                  |                 | Pigmentation                      | Mild                |
| Note: HEPATOCLR ADEN TGLs = 5-22 |                 |                                   |                     |
| Lung                             |                 | Hyperplasia                       | Lymphoid, Minimal   |
|                                  |                 | Infiltration Cellular             | Histiocyte, Minimal |
| Nose                             | Glands          | Hyperplasia                       | Cystic, Minimal     |
| Ovary                            |                 | Angiectasis                       | Marked              |
| Note: ANGIECTASIS TGLs = 2-7     |                 |                                   |                     |
| Pancreas                         |                 | Lymphoma Malignant Mixed          |                     |
| Salivary Glands                  |                 | Lymphoma Malignant Mixed          |                     |
| Spleen                           |                 | Lymphoma Malignant Mixed          |                     |
| Note: LYMPH MAL MIXD TGLs = 4-6  |                 |                                   |                     |
| Thyroid Gland                    |                 | Degeneration                      | Cystic, Moderate    |
| Uterus                           |                 | Hyperplasia                       | Cystic, Moderate    |
| Note: HYPERPLASIA TGLs = 3-7     |                 |                                   |                     |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 990

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043689

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 991

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043690

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Mammary Gland           | Nose                      |
| Pancreas                 | Parathyroid Gland          | Pituitary Gland         | Salivary Glands           |
| Skin                     | Stomach - Forestomach      | Stomach - Glandular     | Trachea                   |
| Urinary Bladder          |                            |                         |                           |

**OBSERVATIONS**

|                      |                 |                          |                   |
|----------------------|-----------------|--------------------------|-------------------|
| Adrenal Gland        | Cortex          | Clear Cell Focus         |                   |
| Brain                | Thalamus        | Mineralization           | Mild              |
| Kidney               |                 | Hyperplasia              | Lymphoid, Minimal |
|                      | Renal Tubule    | Regeneration             | Minimal           |
| Liver                |                 | Inflammation             | Subacute, Minimal |
| Lymph Node           | Mandibular      | Lymphoma Malignant Mixed |                   |
|                      | Mediastinal     | Lymphoma Malignant Mixed |                   |
|                      | Mesenteric      | Lymphoma Malignant Mixed |                   |
| Ovary                |                 | Angiectasis              | Moderate          |
|                      |                 | Cyst                     |                   |
| Spleen               |                 | Congestion               | Moderate          |
|                      |                 | Lymphoma Malignant Mixed |                   |
| Note: LYMPH MAL MIXD | TGLs = 2-6,3-21 |                          |                   |
| Thymus               |                 | Lymphoma Malignant Mixed |                   |
| Thyroid Gland        |                 | Hyperplasia              | Lymphoid, Mild    |
| Uterus               |                 | Hydrometra               | Marked            |
|                      |                 | Hyperplasia              | Cystic, Mild      |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 992

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 736

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043691

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lymph Node - Mesenteric    | Mammary Gland           | Nose                      |
| Pancreas                 | Parathyroid Gland          | Skin                    | Stomach - Forestomach     |
| Stomach - Glandular      | Trachea                    |                         |                           |

**OBSERVATIONS**

|                      |                  |                                   |                   |
|----------------------|------------------|-----------------------------------|-------------------|
| Adrenal Gland        | Cortex           | Accessory Adrenal Cortical Nodule |                   |
| Brain                | Thalamus         | Mineralization                    | Moderate          |
| Kidney               | Renal Tubule     | Dilatation                        | Mild              |
|                      |                  | Hydronephrosis                    | Minimal           |
|                      |                  | Hyperplasia                       | Lymphoid, Minimal |
| Liver                |                  | Hepatocellular Adenoma            | Four, Multiple    |
|                      | Kupffer Cell     | Hyperplasia                       | Mild              |
| Note: HEPATOCLR ADEN | TGLs = 4-22,6-24 |                                   |                   |
| Lung                 |                  | Alveolar/Bronchiolar Adenoma      |                   |
| Note: ALV BRON ADEN  | TGLs = 8-2       |                                   |                   |
| Lymph Node           | Mandibular       | Hyperplasia                       | Lymphoid, Mild    |
| Mesentery            | Fat              | Necrosis                          | Marked            |
| Note: NECROSIS       | TGLs = 1-21      |                                   |                   |
| Ovary                |                  | Cyst                              |                   |
| Pituitary Gland      | Pars Distalis    | Adenoma                           |                   |
| Note: ADENOMA        | TGLs = 9-1       |                                   |                   |
| Salivary Glands      |                  | Hyperplasia                       | Lymphoid, Minimal |
| Spleen               |                  | Hematopoietic Cell Proliferation  | Mild              |
|                      | Lymph Follic     | Hyperplasia                       | Mild              |
| Note: HYPERPLASIA    | TGLs = 3-6       |                                   |                   |
| Note: HEMA CELL PROL | TGLs = 3-6       |                                   |                   |
| Thymus               |                  | Thymoma Benign                    |                   |
| Note: THYMOMA BGN    | TGLs = 7-2       |                                   |                   |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**

**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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|                       |                               |                                 |                         |
|-----------------------|-------------------------------|---------------------------------|-------------------------|
| <b>ANIMAL ID:</b> 992 | <b>TRT#:</b> 27               | <b>SEX:</b> Female              | <b>DAY ON TEST:</b> 736 |
|                       | <b>DOSE:</b> 0.00700%CHLORINE | <b>DISP:</b> Terminal Sacrifice | <b>HISTO:</b> A87043691 |

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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|                 |                |              |                   |
|-----------------|----------------|--------------|-------------------|
| Thyroid Gland   |                | Degeneration | Cystic, Mild      |
|                 | Follicular Cel | Hyperplasia  | Moderate          |
|                 |                | Hyperplasia  | Lymphoid, Minimal |
| Urinary Bladder |                | Hyperplasia  | Lymphoid, Mild    |
| Uterus          |                | Hydrometra   | Mild              |
|                 |                | Hyperplasia  | Lymphoid, Mild    |
|                 |                | Hyperplasia  | Cystic, Mild      |

Note: HYDROMETRA TGLs = 2-7

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PRIMARY CAUSE OF DEATH

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 993

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 721

**DOSE:** 0.00700%CHLORINE

**DISP:** Natural Death

**HISTO:** A87043692

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Islets, Pancreatic       | Liver                      | Lymph Node - Mandibular |
| Mammary Gland             | Nose                     | Parathyroid Gland          | Pituitary Gland         |
| Salivary Glands           | Skin                     | Spleen                     | Stomach - Forestomach   |
| Stomach - Glandular       | Thyroid Gland            | Trachea                    | Urinary Bladder         |

**MISSING**

Lymph Node - Mesenteric

**OBSERVATIONS**

|                   |              |                        |              |
|-------------------|--------------|------------------------|--------------|
| Brain             | Thalamus     | Mineralization         | Minimal      |
| Kidney            |              | Mineralization         | Minimal      |
|                   | Renal Tubule | Regeneration           | Minimal      |
| Lung              |              | Congestion             | Marked       |
| Note: CONGESTION  | TGLs = 2-2   |                        |              |
| Ovary             |              | Cyst                   |              |
| Pancreas          |              | Cytoplasmic Alteration | Moderate     |
| Thymus            |              | Depletion Cellular     | Marked       |
| Uterus            |              | Hyperplasia            | Cystic, Mild |
| Note: HYPERPLASIA | TGLs = 1-7   |                        |              |

**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 994

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043693

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                          |                            |                           |
|-------------------------|--------------------------|----------------------------|---------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla  | Bone                       | Bone Marrow               |
| Esophagus               | Gallbladder              | Heart                      | Intestine Large - Cecum   |
| Intestine Large - Colon | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Jejunum |
| Islets, Pancreatic      | Lung                     | Lymph Node - Mandibular    | Lymph Node - Mesenteric   |
| Mammary Gland           | Nose                     | Ovary                      | Pancreas                  |
| Parathyroid Gland       | Salivary Glands          | Skin                       | Stomach - Forestomach     |
| Thymus                  | Trachea                  | Urinary Bladder            |                           |

**OBSERVATIONS**

|                                  |               |                                  |                |
|----------------------------------|---------------|----------------------------------|----------------|
| Brain                            | Thalamus      | Mineralization                   | Minimal        |
| Intestine Small                  | Ileum         | Lymphoma Malignant Mixed         |                |
| Note: LYMPH MAL MIXD TGLs = 3-21 |               |                                  |                |
| Kidney                           | Renal Tubule  | Regeneration                     | Minimal        |
| Liver                            |               | Hepatocellular Adenoma           |                |
|                                  |               | Hepatocellular Carcinoma         |                |
| Note: HEPATOCLR CARC TGLs = 5-23 |               |                                  |                |
| Note: HEPATOCLR ADEN TGLs = 4-22 |               |                                  |                |
| Pituitary Gland                  | Pars Distalis | Adenoma                          |                |
| Note: ADENOMA TGLs = 6-1         |               |                                  |                |
| Spleen                           |               | Hematopoietic Cell Proliferation | Minimal        |
|                                  | Lymph Follic  | Hyperplasia                      | Mild           |
| Note: HYPERPLASIA TGLs = 2-6     |               |                                  |                |
| Note: HEMA CELL PROL TGLs = 2-6  |               |                                  |                |
| Stomach                          | Glandular     | Cyst                             |                |
| Thyroid Gland                    |               | Degeneration                     | Cystic, Mild   |
| Uterus                           |               | Hydrometra                       | Mild           |
|                                  |               | Hyperplasia                      | Cystic, Mild   |
|                                  |               | Hyperplasia                      | Lymphoid, Mild |
| Note: HYDROMETRA TGLs = 1-7      |               |                                  |                |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 995

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043694

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Lymph Node - Mesenteric | Mammary Gland             |
| Nose                     | Pancreas                   | Parathyroid Gland       | Skin                      |
| Stomach - Forestomach    | Trachea                    | Urinary Bladder         |                           |

**OBSERVATIONS**

|                              |                   |                                   |                    |
|------------------------------|-------------------|-----------------------------------|--------------------|
| Adrenal Gland                | Cortex            | Accessory Adrenal Cortical Nodule |                    |
| Brain                        | Thalamus          | Mineralization                    | Mild               |
| Kidney                       |                   | Hyperplasia                       | Lymphoid, Minimal  |
|                              | Renal Tubule      | Regeneration                      | Minimal            |
| Liver                        |                   | Hepatocellular Adenoma            |                    |
| Lymph Node                   | Mandibular        | Hyperplasia                       | Lymphoid, Moderate |
| Ovary                        |                   | Angiectasis                       | Marked             |
| Note: ANGIECTASIS TGLs = 1-7 |                   |                                   |                    |
| Pituitary Gland              | Pars Distalis     | Adenoma                           |                    |
|                              | Pars Distalis     | Hyperplasia                       | Minimal            |
| Salivary Glands              |                   | Hyperplasia                       | Lymphoid, Minimal  |
| Spleen                       | Lymph Follic      | Hyperplasia                       | Mild               |
|                              | Red Pulp          | Hyperplasia                       | Mild               |
| Stomach                      | Glandular         | Carcinoid Tumor Malignant         |                    |
|                              | Glandular         | Cyst                              |                    |
|                              | Glandular, Mucosa | Hyperplasia                       | Moderate           |
| Thymus                       |                   | Depletion Cellular                | Mild               |
| Thyroid Gland                |                   | Degeneration                      | Cystic, Mild       |
| Uterus                       |                   | Hyperplasia                       | Cystic, Mild       |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 996

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043695

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Medulla  | Bone                       | Bone Marrow             | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Lung                       | Mammary Gland           | Nose                      |
| Pancreas                 | Parathyroid Gland          | Pituitary Gland         | Salivary Glands           |
| Spleen                   | Stomach - Forestomach      | Stomach - Glandular     | Thymus                    |
| Thyroid Gland            | Trachea                    | Urinary Bladder         |                           |

**MISSING**

Lymph Node - Mandibular

**OBSERVATIONS**

|                           |              |                                   |                   |
|---------------------------|--------------|-----------------------------------|-------------------|
| Adrenal Gland             | Cortex       | Accessory Adrenal Cortical Nodule |                   |
| Brain                     | Thalamus     | Mineralization                    | Moderate          |
| Kidney                    |              | Casts Protein                     | Minimal           |
|                           | Renal Tubule | Regeneration                      | Minimal           |
| Liver                     |              | Inflammation                      | Subacute, Minimal |
| Lymph Node                | Mesenteric   | Hematopoietic Cell Proliferation  | Mild              |
|                           | Mesenteric   | Hemorrhage                        | Minimal           |
| Note: HEMORRHAGE          | TGLs = 2-5   |                                   |                   |
| [ Hemorrhage TGLS = 2-5 ] |              |                                   |                   |
| Ovary                     |              | Angiectasis                       | Mild              |
| Skin                      |              | Inflammation                      | Chronic, Minimal  |
| Uterus                    |              | Hyperplasia                       | Cystic, Moderate  |

Note: HYPERPLASIA TGLs = 1-7

PRIMARY CAUSE OF DEATH

-

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 997

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043696

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                           |                          |                            |                         |
|---------------------------|--------------------------|----------------------------|-------------------------|
| Adrenal Gland - Cortex    | Adrenal Gland - Medulla  | Bone                       | Bone Marrow             |
| Esophagus                 | Gallbladder              | Heart                      | Intestine Large - Cecum |
| Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum |
| Intestine Small - Jejunum | Lymph Node - Mandibular  | Lymph Node - Mesenteric    | Mammary Gland           |
| Parathyroid Gland         | Pituitary Gland          | Skin                       | Stomach - Forestomach   |
| Stomach - Glandular       | Thymus                   | Trachea                    |                         |

**OBSERVATIONS**

|                                |                |                                |                      |
|--------------------------------|----------------|--------------------------------|----------------------|
| Brain                          | Thalamus       | Mineralization                 | Mild                 |
| Harderian Gland                |                | Hyperplasia                    | Focal, Moderate      |
| Islets, Pancreatic             |                | Hyperplasia                    | Minimal              |
| Kidney                         |                | Hyperplasia                    | Lymphoid, Mild       |
|                                | Renal Tubule   | Regeneration                   | Minimal              |
| Liver                          |                | Hyperplasia                    | Focal, Moderate      |
| Lung                           |                | Alveolar/Bronchiolar Carcinoma |                      |
|                                |                | Infiltration Cellular          | Histiocyte, Moderate |
| Note: ALV BRON CARC TGLs = 4-2 |                |                                |                      |
| Nose                           |                | Exudate                        |                      |
|                                | Glands         | Hyperplasia                    | Cystic, Mild         |
| Ovary                          |                | Angiectasis                    | Marked               |
| Note: ANGIECTASIS TGLs = 1-7   |                |                                |                      |
| Pancreas                       |                | Hyperplasia                    | Lymphoid, Minimal    |
| Salivary Glands                |                | Hyperplasia                    | Lymphoid, Minimal    |
| Spleen                         |                | Hemangiosarcoma                |                      |
| Note: HEMANGIOSARC TGLs = 3-6  |                |                                |                      |
| Thyroid Gland                  | Follicular Cel | Hyperplasia                    | Minimal              |
| Urinary Bladder                |                | Hyperplasia                    | Lymphoid, Minimal    |
| Uterus                         |                | Hyperplasia                    | Cystic, Moderate     |
| Note: HYPERPLASIA TGLs = 2-7   |                |                                |                      |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 998

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 642

**DOSE:** 0.00700%CHLORINE

**DISP:** Natural Death

**HISTO:** A87043697

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Medulla    | Bone                    | Bone Marrow               | Esophagus                |
| Heart                      | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Kidney                     | Lymph Node - Mandibular | Mammary Gland             | Nose                     |
| Pancreas                   | Parathyroid Gland       | Pituitary Gland           | Salivary Glands          |
| Skin                       | Spleen                  | Stomach - Forestomach     | Stomach - Glandular      |
| Thyroid Gland              | Trachea                 |                           |                          |

**MISSING**

|             |                         |
|-------------|-------------------------|
| Gallbladder | Lymph Node - Mesenteric |
|-------------|-------------------------|

**INSUFFICIENT TISSUE**

Thymus

**OBSERVATIONS**

|                                  |          |                                   |                     |
|----------------------------------|----------|-----------------------------------|---------------------|
| Adrenal Gland                    | Cortex   | Accessory Adrenal Cortical Nodule |                     |
| Brain                            | Thalamus | Mineralization                    | Mild                |
| Liver                            |          | Clear Cell Focus                  |                     |
|                                  |          | Hepatocellular Adenoma            |                     |
| Note: CLEAR CL FOCUS TGLs = 2-21 |          |                                   |                     |
| Lung                             |          | Congestion                        | Moderate            |
|                                  |          | Hemorrhage                        | Mild                |
| Ovary                            |          | Cyst                              |                     |
| Note: CYST TGLs = 1-7            |          |                                   |                     |
| Urinary Bladder                  |          | Hyperplasia                       | Lymphoid, Minimal   |
| Uterus                           |          | Hyperplasia                       | Cystic, Mild        |
|                                  |          | Hyperplasia                       | Histiocytic, Marked |

Note: DIFFUSE HISTIOCYTIC HYPERPLASIA IN ENDOMETRIUM

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 999

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 733

**DOSE:** 0.00700%CHLORINE

**DISP:** Terminal Sacrifice

**HISTO:** A87043698

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                         |                           |                          |                            |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Adrenal Gland - Cortex  | Adrenal Gland - Medulla   | Bone                     | Bone Marrow                |
| Brain                   | Esophagus                 | Gallbladder              | Heart                      |
| Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum | Intestine Small - Duodenum |
| Intestine Small - Ileum | Intestine Small - Jejunum | Lung                     | Lymph Node - Mandibular    |
| Mammary Gland           | Nose                      | Ovary                    | Parathyroid Gland          |
| Pituitary Gland         | Skin                      | Stomach - Forestomach    | Stomach - Glandular        |
| Thymus                  | Trachea                   |                          |                            |

**OBSERVATIONS**

|   |                |                                  |                   |
|---|----------------|----------------------------------|-------------------|
| Islets, Pancreatic  |                | Hyperplasia                      | Mild              |
| Kidney  | Renal Tubule   | Regeneration                     | Minimal           |
| Liver   |                | Hepatocellular Adenoma           | > Five, Multiple  |
| Note: HEPATOCELLULAR ADENOMAS ALSO ON SLIDE 6               |                |                                  |                   |
| Note: HEPATOCLR ADEN TGLs = 3-22,4-23,5-24                  |                |                                  |                   |
| Lymph Node  | Mesenteric     | Hemorrhage                       | Minimal           |
| Mesentery   | Fat            | Necrosis                         | Moderate          |
| Note: NECROSIS TGLs = 1-21                                  |                |                                  |                   |
| Pancreas  |                | Hyperplasia                      | Lymphoid, Minimal |
| Salivary Glands   |                | Hyperplasia                      | Lymphoid, Minimal |
| Spleen  |                | Hematopoietic Cell Proliferation | Minimal           |
|   |                | Pigmentation                     | Hemosiderin, Mild |
| Note: HEMA CELL PROL TGLs = 2-6                             |                |                                  |                   |
| Thyroid Gland   | Follicular Cel | Degeneration                     | Cystic, Mild      |
|   |                | Hyperplasia                      | Mild              |
| Urinary Bladder   |                | Hyperplasia                      | Lymphoid, Minimal |
| Uterus  |                | Angiectasis                      | Moderate          |
|   |                | Hyperplasia                      | Cystic, Mild      |
| Note: SOME AREAS OF ANGIECTASIS HAVE UNDERGONE ORGANIZATION |                |                                  |                   |
| Note: AND NECROSIS  |                |                                  |                   |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 1000

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 564

**DOSE:** 0.00700%CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A87043699

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                          |                            |                         |                           |
|--------------------------|----------------------------|-------------------------|---------------------------|
| Adrenal Gland - Cortex   | Adrenal Gland - Medulla    | Bone                    | Esophagus                 |
| Gallbladder              | Heart                      | Intestine Large - Cecum | Intestine Large - Colon   |
| Intestine Large - Rectum | Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum |
| Islets, Pancreatic       | Kidney                     | Lung                    | Lymph Node - Mandibular   |
| Lymph Node - Mesenteric  | Mammary Gland              | Nose                    | Pancreas                  |
| Parathyroid Gland        | Pituitary Gland            | Salivary Glands         | Stomach - Forestomach     |
| Stomach - Glandular      | Thyroid Gland              | Trachea                 | Urinary Bladder           |

**OBSERVATIONS**

|                                 |              |                                  |                    |
|---------------------------------|--------------|----------------------------------|--------------------|
| Bone Marrow                     |              | Hypercellularity                 | Moderate           |
| Brain                           | Thalamus     | Mineralization                   | Minimal            |
| Liver                           | Kupffer Cell | Hyperplasia                      | Mild               |
|                                 |              | Inflammation                     | Subacute, Moderate |
| Ovary                           |              | Cyst                             |                    |
| Skeletal Muscle                 |              | Fibrosarcoma                     | Metastatic (Skin)  |
| Note: FIBROSARC TGLs = 6-23     |              |                                  |                    |
| Skin                            | Subcut Tiss  | Edema                            | Moderate           |
|                                 | Subcut Tiss  | Fibrosarcoma                     |                    |
| Note: FIBROSARC TGLs = 1-21     |              |                                  |                    |
| Spleen                          |              | Hematopoietic Cell Proliferation | Moderate           |
|                                 | Red Pulp     | Hyperplasia                      | Moderate           |
| Note: HYPERPLASIA TGLs = 4-6    |              |                                  |                    |
| Note: HEMA CELL PROL TGLs = 4-6 |              |                                  |                    |
| Thymus                          |              | Depletion Cellular               | Mild               |
| Uterus                          |              | Hyperplasia                      | Cystic, Mild       |
| Note: HYPERPLASIA TGLs = 5-7    |              |                                  |                    |

**PRIMARY CAUSE OF DEATH** -

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 1006

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** 0.00700%CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** 37809

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**OBSERVATIONS**

Kidney  
[ Regeneration TGLS = 5 ]

Renal Tubule

Regeneration

Minimal

Uterus

Hyperplasia

Cystic, Mild

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PRIMARY CAUSE OF DEATH

-

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

**ANIMAL ID:** 1007

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 211

**DOSE:** 0.00700%CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A86037810

**ORGAN AND ACCOUNTABLE SITE STATUS**

**NORMAL**

|                            |                         |                           |                          |
|----------------------------|-------------------------|---------------------------|--------------------------|
| Adrenal Gland - Medulla    | Bone                    | Brain                     | Esophagus                |
| Gallbladder                | Intestine Large - Cecum | Intestine Large - Colon   | Intestine Large - Rectum |
| Intestine Small - Duodenum | Intestine Small - Ileum | Intestine Small - Jejunum | Islets, Pancreatic       |
| Lymph Node - Mandibular    | Mammary Gland           | Nose                      | Ovary                    |
| Pancreas                   | Parathyroid Gland       | Pituitary Gland           | Salivary Glands          |
| Skin                       | Stomach - Forestomach   | Stomach - Glandular       | Thyroid Gland            |
| Trachea                    | Urinary Bladder         | Uterus                    |                          |

**OBSERVATIONS**

|                      |               |                                  |          |
|----------------------|---------------|----------------------------------|----------|
| Adrenal Gland        | Cortex        | Leukemia Granulocytic            |          |
| Bone Marrow          |               | Leukemia Granulocytic            |          |
| Heart                |               | Leukemia Granulocytic            |          |
|                      | Myocardium    | Mineralization                   | Moderate |
| Kidney               |               | Leukemia Granulocytic            |          |
| Note: LEUKEMIA GRAN  | TGLs = 3-22   |                                  |          |
| Liver                | Kupffer Cell  | Hyperplasia                      | Moderate |
|                      |               | Leukemia Granulocytic            |          |
|                      | Centrilobular | Necrosis                         | Moderate |
| Note: LEUKEMIA GRAN  | TGLs = 5-6    |                                  |          |
| Lung                 |               | Leukemia Granulocytic            |          |
| Lymph Node           | Mediastinal   | Leukemia Granulocytic            |          |
|                      | Mesenteric    | Leukemia Granulocytic            |          |
|                      | Pancreatic    | Leukemia Granulocytic            |          |
| Note: LEUKEMIA GRAN  | TGLs = 1-21   |                                  |          |
| Note: LEUKEMIA GRAN  | TGLs = 7-2    |                                  |          |
| Note: LEUKEMIA GRAN  | TGLs = 6-5    |                                  |          |
| Spleen               |               | Hematopoietic Cell Proliferation | Moderate |
|                      |               | Leukemia Granulocytic            |          |
| Note: HEMA CELL PROL | TGLs = 2-6    |                                  |          |
| Note: LEUKEMIA GRAN  | TGLs = 2-6    |                                  |          |
| Thymus               |               | Depletion Cellular               | Moderate |

\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 1007

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 211

**DOSE:** 0.00700%CHLORINE

**DISP:** Moribund Sacrifice

**HISTO:** A86037810

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**ORGAN AND ACCOUNTABLE SITE STATUS**

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PRIMARY CAUSE OF DEATH

-

Animal Note: ONE SECTION SMALL INTESTINE ON SLIDE 2

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\* PROTOCOL REQUIRED TISSUE



**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 1008

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 458

**DOSE:** 0.00700%CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** 37811

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**OBSERVATIONS**

Kidney

Renal Tubule

Regeneration

Minimal

Uterus

Hyperplasia

Cystic, Mild

Note: [ HYPERPLASIA ] TGLs = 7

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 1009

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 457

**DOSE:** 0.00700%CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** 37812

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**OBSERVATIONS**

Kidney  
[ Regeneration TGLS = 5 ]

Renal Tubule

Regeneration

Minimal

Uterus  
[ Hyperplasia TGLS = 7 ]

Hyperplasia

Cystic, Mild

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**PRIMARY CAUSE OF DEATH**

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\* PROTOCOL REQUIRED TISSUE

**Experiment Number:** 05089-02  
**Test Type:** CHRONIC  
**Route:** DOSED WATER  
**Species/Strain:** Mouse/B6C3F1

**P14: INDIVIDUAL ANIMAL PATHOLOGY DATA**  
**Test Compound:** Chloraminated water  
**CAS Number:** CHLORAMINEMX

**Date Report Requested:** 10/20/2014  
**Time Report Requested:** 00:10:16  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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**ANIMAL ID:** 1010

**TRT#:** 27

**SEX:** Female

**DAY ON TEST:** 458

**DOSE:** 0.00700%CHLORINE

**DISP:** Scheduled Sacrifice

**HISTO:** 5

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**OBSERVATIONS**

Kidney

Renal Tubule

Regeneration

Mild

Uterus

Hydrometra

Mild

Hyperplasia

Cystic, Minimal

Note: [ HYPERPLASIA ] TGLs = 7

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**PRIMARY CAUSE OF DEATH**

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**\*\* END OF REPORT \*\***