

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:39
First Dose M/F: NA / NA
Lab: SRI

C Number: C96018
Lock Date: 02/19/2002
Cage Range: All
Date Range: All
Reasons For Removal: All
Removal Date Range: All
Treatment Groups: All
Study Gender: Male
PWG Approval Date: 04/29/2003

Experiment Number: 96018-03

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Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 1

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93737

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* 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
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Epididymis		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Mild
Mesentery		Mesothelioma Malignant	
Peritoneum	Tunica Vaginal	Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 2-22]			
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Focal, Mild
* Prostate	Epithelium	Hyperplasia	Focal, Mild
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 3-22-1]			
* Spleen		Angiectasis	Focal, Mild
		Fibrosis	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

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Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 1	TRT#: 1	SEX: Male	DAY ON TEST: 729
	DOSE: 0 MG/L	DISP: Terminal Sacrifice	HISTO: 00-93737

ORGAN AND ACCOUNTABLE SITE STATUS

[Angiectasis TGLS = 1-21]

[Fibrosis TGLS = 1-21]

* Testes	Bilateral, Interstit Cell Tunic	Adenoma Mesothelioma Malignant	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 2

TRT#: 1

SEX: Male

DAY ON TEST: 610

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-90226

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-------------------|---------------------------|----------------------|-----------------|
| * Bone | * Brain | * Esophagus | * Eye |
| * Harderian Gland | * Intestine Large, Rectum | * Islets, Pancreatic | * Mammary Gland |
| * Nose | * Parathyroid Gland | * Trachea | |

MISSING

- * Lymph Node, Mandibular

INSUFFICIENT TISSUE

- * Epididymis

OBSERVATIONS

- | | | | |
|-----------------------------|---|----------------------------|----------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Intestine Large, Cecum | | Leukemia Mononuclear | |
| * Intestine Large, Colon | | Leukemia Mononuclear | |
| * Intestine Small, Duodenum | | Leukemia Mononuclear | |
| * Intestine Small, Ileum | | Leukemia Mononuclear | |
| * Intestine Small, Jejunum | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| * Liver | Hepatocyte | Fatty Change | Marked |
| | Bile Duct | Hepatodiaphragmatic Nodule | Moderate |
| | | Hyperplasia | Moderate |
| | Hepatocyte | Leukemia Mononuclear | |
| | [Hepatodiaphragmatic Nodule TGLS = 6-21, 10-23] | Vacuolization Cytoplasmic | Mild |
| * Lung | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 7-2] | | |
| Lymph Node | Deep Cervical | Leukemia Mononuclear | |
| | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 2	TRT#: 1	SEX: Male	DAY ON TEST: 610
	DOSE: 0 MG/L	DISP: Moribund Sacrifice	HISTO: 00-90226

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 8-22]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-5]			
* Pancreas		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-4]			
* Pituitary Gland		Leukemia Mononuclear	
* Preputial Gland		Leukemia Mononuclear	
* Prostate		Leukemia Mononuclear	
* Salivary Glands		Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	
* Skin	Subcut Tiss	Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-6]			
* Stomach, Forestomach		Leukemia Mononuclear	
* Stomach, Glandular		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thymus		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-3]			
* Thyroid Gland	C Cell	Hyperplasia	Moderate
Tissue NOS	Mediastinum	Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	- Liver	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 3	TRT#: 1 DOSE: 0 MG/L	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 459 HISTO: 00-88452
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
		Necrosis	Focal, Minimal
* Lung		Hyperplasia	Histiocytic, Minimal
Lymph Node	Mediastinal	Angiectasis	Marked
	Pancreatic	Hemorrhage	Moderate
	Pancreatic	Hyperplasia	Histiocytic, Moderate
	Pancreatic	Pigmentation	Moderate
		[Angiectasis TGLS = 4-21]	
		[Hemorrhage TGLS = 2-7]	
		[Hyperplasia TGLS = 2-7]	
		[Pigmentation TGLS = 2-7]	
* Pancreas	Acinus	Atrophy	Focal, Minimal
	Duct	Cyst	Mild
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 3	TRT#: 1 DOSE: 0 MG/L	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 459 HISTO: 00-88452
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ORGAN AND ACCOUNTABLE SITE STATUS

	Pars Distalis	Degeneration	Cystic, Focal, Minimal
	Pars Distalis	Hyperplasia	Focal, Minimal
* Preputial Gland [Adenoma TGLS = 7-8-1]		Adenoma	
* Spleen [Hematopoietic Cell Proliferation TGLS = 1-6] [Hyperplasia TGLS = 1-6]		Hematopoietic Cell Proliferation Hyperplasia	Mild Lymphoid, Mild
* Testes	Interstit Cell	Hyperplasia	Focal, Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
Zymbal's Gland [Carcinoma TGLS = 5-22]		Carcinoma	

PRIMARY CAUSE OF DEATH - Zymbal's Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 4

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93738

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * 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 |
| * Preputial Gland | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|---|---------------------------|----------------------------------|---------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Degeneration | Cystic, Focal, Mild |
| | Hepatocyte | Fatty Change | Minimal |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| * Lung | | Hemorrhage | Focal, Mild |
| [Hemorrhage TGLS = 4-2] | | | |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 3-1] | | | |
| * Prostate | | Inflammation | Chronic, Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| [Hematopoietic Cell Proliferation TGLS = 2-6] | | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| [Adenoma TGLS = 1-7] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 4

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93738

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 5

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93739

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Heart		Infiltration Cellular	Mixed Cell, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Minimal
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
Lymph Node	Pancreatic	Hyperplasia	Histiocytic, Moderate
[Hyperplasia TGLS = 4-7]			
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 3-21]			
* Pancreas	Acinus	Atrophy	Focal, Mild
	Duct	Cyst	Focal, Multiple, Mild
* Preputial Gland		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 1-8]		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 5	TRT#: 1 DOSE: 0 MG/L	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 731 HISTO: 00-93739
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ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Hematopoietic Cell Proliferation TGLS = 5-6]		Hematopoietic Cell Proliferation	Minimal
* Testes [Adenoma TGLS = 2-7]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 6

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93740

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* 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	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Brain		Oligodendroglioma Benign	
[Oligodendroglioma Benign TGLS = 6-1]			
* Harderian Gland		Adenoma	
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
		Hepatocellular Adenoma	
		Hepatodiaphragmatic Nodule	Moderate
	Bile Duct	Hyperplasia	Moderate
		Inflammation	Chronic, Moderate
[Hepatocellular Adenoma TGLS = 4-24]			
[Hepatodiaphragmatic Nodule TGLS = 3-23]			
Mesentery	Fat	Necrosis	Focal, Mild
[Necrosis TGLS = 2-22]			
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 6	TRT#: 1 DOSE: 0 MG/L	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 731 HISTO: 00-93740
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ORGAN AND ACCOUNTABLE SITE STATUS			
* Prostate	Epithelium	Hyperplasia	Focal, Mild
* Spleen	Capsule	Fibrosis	Focal, Mild
[Fibrosis TGLS = 1-21]			
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 7	TRT#: 1 DOSE: 0 MG/L	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 479 HISTO: 00-88790
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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	Peripheral Nerve	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
Spinal Cord	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Brain		Hemorrhage	Focal, Mild
		Leukemia Mononuclear	
		Necrosis	Focal, Mild
	[Hemorrhage TGLS = 7-1]		
	[Leukemia Mononuclear TGLS = 7-1]		
	[Necrosis TGLS = 7-1]		
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-6]		
* Lung		Congestion	Mild
		Hemorrhage	Mild
	[Congestion TGLS = 6-2]		
	[Hemorrhage TGLS = 6-2]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 7	TRT#: 1	SEX: Male	DAY ON TEST: 479
	DOSE: 0 MG/L	DISP: Moribund Sacrifice	HISTO: 00-88790

ORGAN AND ACCOUNTABLE SITE STATUS

Lymph Node [Leukemia Mononuclear TGLS = 2-21]	Pancreatic	Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Skin [Hemorrhage TGLS = 5-22]	Subcut Tiss	Hemorrhage	Focal, Mild
* Spleen [Leukemia Mononuclear TGLS = 1-6]		Leukemia Mononuclear	
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Stomach, Glandular		Ulcer	Minimal
* Testes [Adenoma TGLS = 3-7-1]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH	- Brain Necrosis
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 8

TRT#: 1

SEX: Male

DAY ON TEST: 718

DOSE: 0 MG/L

DISP: Natural Death

HISTO: 00-93741

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Ileum	* Thyroid Gland
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OBSERVATIONS

* Adrenal Medulla [Pheochromocytoma Malignant TGLS = 2-21]		Pheochromocytoma Malignant	
* Kidney		Nephropathy	Marked
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Congestion	Moderate
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
* Lung [Congestion TGLS = 3-2]		Congestion	Moderate
* Pancreas	Acinus	Adenoma	
	Duct	Cyst	Focal, Multiple, Mild
* Pituitary Gland [Adenoma TGLS = 4-1]	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Moderate
* Testes [Adenoma TGLS = 1-7]	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 8

TRT#: 1

SEX: Male

DAY ON TEST: 718

DOSE: 0 MG/L

DISP: Natural Death

HISTO: 00-93741

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Adrenal Medulla Pheochromocytoma Malignant

CONTRIBUTORY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 9	TRT#: 1	SEX: Male	DAY ON TEST: 732
	DOSE: 0 MG/L	DISP: Moribund Sacrifice	HISTO: 00-93742

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver		Angiectasis	Focal, Mild
		Basophilic Focus	
		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6]		
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-7]		
* Lymph Node, Mesenteric		Hemorrhage	Moderate
		Leukemia Mononuclear	
	[Hemorrhage TGLS = 6-5]		
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 8-1]		
* Preputial Gland		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 9	TRT#: 1 DOSE: 0 MG/L	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 732 HISTO: 00-93742
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ORGAN AND ACCOUNTABLE SITE STATUS			
* Prostate		Inflammation	Chronic, Moderate
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 7-7]			
* Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH	-		
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 11

TRT#: 1

SEX: Male

DAY ON TEST: 680

DOSE: 0 MG/L

DISP: Natural Death

HISTO: 00-93108

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|----------------------|--------------------------|
| * Bone | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Islets, Pancreatic | * Mammary Gland |
| * Nose | * Parathyroid Gland | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

- | | | |
|--------------------------|--------------------------|----------------------------|
| * Intestine Large, Cecum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
|--------------------------|--------------------------|----------------------------|

OBSERVATIONS

- | | | | |
|---|------------|--|---------------------|
| * Adrenal Cortex | | Cytoplasmic Alteration
Leukemia Mononuclear | Focal, Mild |
| Note: One adrenal gland is missing. | | | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Eye | | | |
| Note: Tissues of one eye are disrupted, possibly an artifact of necropsy procedure. | | | |
| * Kidney | | Leukemia Mononuclear
Nephropathy | Mild |
| * Liver | | Basophilic Focus
Degeneration | Cystic, Focal, Mild |
| | Bile Duct | Hyperplasia
Leukemia Mononuclear | Moderate |
| [Leukemia Mononuclear TGLS = 9-6] | | | |
| * Lung | | Alveolar/Bronchiolar Carcinoma
Leukemia Mononuclear | |
| [Alveolar/Bronchiolar Carcinoma TGLS = 11-2] | | | |
| Lymph Node | Pancreatic | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 7-22] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 11

TRT#: 1

SEX: Male

DAY ON TEST: 680

DOSE: 0 MG/L

DISP: Natural Death

HISTO: 00-93108

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric [Leukemia Mononuclear TGLS = 8-5]		Leukemia Mononuclear	
Mesentery [Leukemia Mononuclear TGLS = 10-23]		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy Leukemia Mononuclear	Focal, Marked
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Focal, Minimal
* Preputial Gland [Inflammation TGLS = 1-8]		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia Inflammation	Focal, Minimal Chronic, Mild
* Spleen [Hemorrhage TGLS = 4-21] [Leukemia Mononuclear TGLS = 3-6, 3-21, 5-6, 5-21]		Hemorrhage Leukemia Mononuclear	Chronic, Moderate
* Testes [Adenoma TGLS = 6-7]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell Follicular Cel	Hyperplasia Hyperplasia	Mild Cystic, Focal, Minimal

PRIMARY CAUSE OF DEATH - Liver Leukemia Mononuclear

CONTRIBUTORY CAUSE OF DEATH - Spleen Hemorrhage

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 12

TRT#: 1

SEX: Male

DAY ON TEST: 620

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-90787

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Bone Marrow	Erythroid Cell, Myeloid Cell	Hyperplasia	Moderate
* Brain		Compression	Focal, Minimal
[Compression TGLS = 9-1]			
* Islets, Pancreatic		Hyperplasia	Focal, Mild
* Kidney		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Mild
		Infiltration Cellular	Mixed Cell, Minimal
	Centrilobular, Hepatocyte	Necrosis	Moderate
	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Lung		Sarcoma	Metastatic (Skeletal Muscle)
[Sarcoma TGLS = 5-2, 6-2]			
* Lymph Node, Mesenteric		Hemorrhage	Mild
[Hemorrhage TGLS = 8-5]			
* Mammary Gland		Dilatation	Mild
* Pancreas	Acinus	Atrophy	Focal, Mild
Note: Atrophy of pancreatic acinar cells is on slide 4-1.			
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:39
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 12	TRT#: 1	SEX: Male	DAY ON TEST: 620
	DOSE: 0 MG/L	DISP: Moribund Sacrifice	HISTO: 00-90787

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 10-1]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Focal, Mild
		Inflammation	Chronic, Moderate
Skeletal Muscle		Sarcoma	
[Sarcoma TGLS = 1-21, 1-22, 1-23]			
* Skin	Subcut Tiss	Edema	Moderate
[Edema TGLS = 2-24]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 7-7]			
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Skeletal Muscle Sarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 13

TRT#: 1

SEX: Male

DAY ON TEST: 709

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93744

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* 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
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver	Hepatocyte	Fatty Change	Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
	[Leukemia Mononuclear TGLS = 4-6]		
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Inflammation	Marked
	[Inflammation TGLS = 6-21]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Nose		Inflammation	Suppurative, Mild
* Pancreas	Acinus	Atrophy	Focal, Moderate
	Duct	Cyst	Focal, Multiple, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
	[Adenoma TGLS = 7-1]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 13

TRT#: 1

SEX: Male

DAY ON TEST: 709

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93744

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Chronic, Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Stomach, Forestomach		Edema	Moderate
		Inflammation	Focal, Mild
		Ulcer	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	- Liver	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 14

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93745

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder	Zymbal's Gland		

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Mild
		Fibroadenoma	
* Mammary Gland [Fibroadenoma TGLS = 2-21]			
* Pancreas	Duct	Cyst	Focal, Multiple, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Mild
* Testes [Adenoma TGLS = 3-7]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Moderate
	Follicular Cel	Hyperplasia	Cystic, Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 14

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93745

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 15

TRT#: 1

SEX: Male

DAY ON TEST: 655

DOSE: 0 MG/L

DISP: Natural Death

HISTO: 00-93109

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Large, Colon
* Intestine Large, Rectum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Eye	* Intestine Large, Cecum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Pituitary Gland	* Spleen	* Stomach, Glandular
* Thyroid Gland			

OBSERVATIONS

* Adrenal Medulla [Pheochromocytoma Complex TGLS = 5-22]		Pheochromocytoma Complex	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Minimal
* Lung [Congestion TGLS = 6-2]		Congestion	Moderate
* Pancreas	Acinus	Atrophy	Focal, Moderate
* Prostate	Epithelium	Hyperplasia	Focal, Mild
* Skin [Cyst TGLS = 2-21]	Subcut Tiss	Cyst	Chronic, Marked
* Testes [Adenoma TGLS = 4-7]	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 16

TRT#: 1

SEX: Male

DAY ON TEST: 722

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93746

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Necrosis	Focal, Minimal
* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Degeneration	Cystic, Focal, Mild
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
		Dilatation	Mild
* Mammary Gland			
[Dilatation TGLS = 1-8, 3-22]			
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 9-1]			
* Preputial Gland		Carcinoma	
[Carcinoma TGLS = 3-22]			
* Prostate	Epithelium	Hyperplasia	Focal, Mild
		Inflammation	Chronic, Moderate
[Inflammation TGLS = 8-7-1]			
* Skin		Basal Cell Carcinoma	
		Keratoacanthoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:39
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 16	TRT#: 1	SEX: Male	DAY ON TEST: 722
	DOSE: 0 MG/L	DISP: Moribund Sacrifice	HISTO: 00-93746

ORGAN AND ACCOUNTABLE SITE STATUS

[Basal Cell Carcinoma TGLS = 2-21]			
[Keratoacanthoma TGLS = 4-23-1]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 7-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
		Atrophy	Moderate
[Adenoma TGLS = 5-7]			
[Atrophy TGLS = 6-7]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH	- Preputial Gland Carcinoma
CONTRIBUTORY CAUSE OF DEATH	- Skin Basal Cell Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93747

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * 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 | * Parathyroid Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-------------------|---------------------------|-----------------------------------|---------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Heart | | Cardiomyopathy | Minimal |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Degeneration | Cystic, Focal, Mild |
| | Hepatocyte | Fatty Change | Minimal |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Inflammation | Chronic, Minimal |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| * Pituitary Gland | Pars Distalis | Hemorrhage | Focal, Mild |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | | Atrophy | Moderate |
| | | [Adenoma TGLS = 1-7] | |
| | | [Atrophy TGLS = 2-7] | |
| * Thyroid Gland | C Cell | Hyperplasia | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93747

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 18

TRT#: 1

SEX: Male

DAY ON TEST: 683

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93110

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Moderate
* Liver	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Mild
	[Leukemia Mononuclear TGLS = 3-6]		
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-7]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas	Duct	Cyst	Focal, Multiple, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 6-1]		
* Preputial Gland		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 18

TRT#: 1

SEX: Male

DAY ON TEST: 683

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93110

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	Epithelium	Hyperplasia Inflammation	Focal, Minimal Chronic, Mild
* Spleen [Leukemia Mononuclear TGLS = 2-6]		Leukemia Mononuclear	
* Testes [Atrophy TGLS = 5-7]	Bilateral, Interstit Cell	Adenoma Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Liver Leukemia Mononuclear		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 19

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93748

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Congestion	Mild
		Degeneration	Cystic, Focal, Minimal
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Inflammation	Chronic, Minimal
[Congestion TGLS = 3-6]			
* Pancreas	Acinus	Atrophy	Focal, Minimal
	Duct	Cyst	Focal, Multiple, Mild
* Pituitary Gland	Pars Distalis	Hemorrhage	Focal, Mild
* Prostate		Inflammation	Chronic, Minimal
* Spleen		Fibrosis	Focal, Moderate
[Fibrosis TGLS = 2-21]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 19

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93748

ORGAN AND ACCOUNTABLE SITE STATUS

Follicular Cel

Hyperplasia

Cystic, Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 20

TRT#: 1

SEX: Male

DAY ON TEST: 709

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93749

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Bone Marrow		Hyperplasia	Marked
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Degeneration	Cystic, Focal, Minimal
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-6]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-3]			
[Leukemia Mononuclear TGLS = 4-7]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-5]			
* Pituitary Gland	Pars Distalis	Cyst	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Focal, Minimal
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Spleen		Accessory Spleen	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 20

TRT#: 1

SEX: Male

DAY ON TEST: 709

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93749

ORGAN AND ACCOUNTABLE SITE STATUS

Leukemia Mononuclear

[Accessory Spleen TGLS = 5-22]

[Leukemia Mononuclear TGLS = 3-6]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 2-7]

* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

- Liver Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 21

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93750

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Cholangiofibrosis	Mild
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
		Fibrosis	Focal, Moderate
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Minimal
		Inflammation	Chronic, Mild
[Cholangiofibrosis TGLS = 2-6]			
[Fibrosis TGLS = 2-6]			
* Preputial Gland		Adenoma	
		Inflammation	Chronic, Mild
[Adenoma TGLS = 1-8]			
* Prostate		Inflammation	Chronic, Moderate
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 3-21]			
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 21

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93750

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 22

TRT#: 1

SEX: Male

DAY ON TEST: 709

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93751

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* 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	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Focal, Minimal
		Leukemia Mononuclear	
		Pheochromocytoma Complex	
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Mild
[Leukemia Mononuclear TGLS = 5-6]			
* Lung	Alveolar Epith	Hyperplasia	Focal, Minimal
		Leukemia Mononuclear	
[Hyperplasia TGLS = 6-2]			
[Leukemia Mononuclear TGLS = 6-2]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 22

TRT#: 1

SEX: Male

DAY ON TEST: 709

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93751

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 4-7]

* Lymph Node, Mesenteric

Mesentery

* Pituitary Gland

Pars Distalis

Leukemia Mononuclear

Leukemia Mononuclear

Cytoplasmic Alteration

Focal, Minimal

Leukemia Mononuclear

* Preputial Gland

Inflammation

Chronic, Mild

* Prostate

Inflammation

Chronic, Mild

* Spleen

Fibrosis

Focal, Moderate

Infarct

Moderate

Leukemia Mononuclear

[Fibrosis TGLS = 3-21]

[Infarct TGLS = 3-21]

[Leukemia Mononuclear TGLS = 2-6, 2-21, 3-21]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 1-7]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

- Liver Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 23

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93752

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Minimal
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
* Pancreas	Acinus	Adenoma	
	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Focal, Minimal
* Prostate	Epithelium	Hyperplasia	Focal, Minimal
		Inflammation	Chronic, Moderate
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 23

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93752

ORGAN AND ACCOUNTABLE SITE STATUS

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 24

TRT#: 1

SEX: Male

DAY ON TEST: 651

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93111

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* 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	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear Nephropathy	Minimal
* Liver	Hepatocyte	Fatty Change	Mild
	Bile Duct	Hyperplasia	Moderate
	Hepatocyte	Leukemia Mononuclear Vacuolization Cytoplasmic	Mild
	[Leukemia Mononuclear TGLS = 5-6]		
* Lung	Alveolar Epith	Hyperplasia Leukemia Mononuclear	Focal, Mild
	[Hyperplasia TGLS = 7-21]		
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-3]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-5]		
* Pancreas	Duct	Cyst	Focal, Multiple, Minimal
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:40
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 24	TRT#: 1	SEX: Male	DAY ON TEST: 651
	DOSE: 0 MG/L	DISP: Moribund Sacrifice	HISTO: 00-93111

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia Inflammation	Focal, Mild Chronic, Moderate
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Stomach, Glandular	Epithelium	Hyperplasia	Focal, Mild
[Hyperplasia TGLS = 8-4]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal
Tissue NOS	Mediastinum	Leukemia Mononuclear	
Tongue		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 9-22]			

PRIMARY CAUSE OF DEATH - Liver Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93753

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* 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	* Parathyroid Gland
Peripheral Nerve	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Skin	Spinal Cord	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Eye	Retina	Degeneration	Moderate
Note: Lens is missing from eye showing retinal degeneration (TGL 2-44). [Degeneration TGLS = 2-44]			
* Kidney		Nephropathy	Mild
* Liver		Angiectasis	Focal, Mild
		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
* Pancreas	Acinus	Atrophy	Focal, Mild
	Duct	Cyst	Focal, Multiple, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Focal, Minimal
		Inflammation	Chronic, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93753

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:40
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 26	TRT#: 1 DOSE: 0 MG/L	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 00-93754
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Angiectasis TGLS = 5-1]		Angiectasis	Mild
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate	Epithelium	Hyperplasia Inflammation	Focal, Mild Chronic, Mild
* Skin [Keratoacanthoma TGLS = 1-21]		Keratoacanthoma	
* Testes [Adenoma TGLS = 2-7]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 27

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93755

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-7]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 28

TRT#: 1

SEX: Male

DAY ON TEST: 526

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-88982

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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
Peripheral Nerve	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	Spinal Cord	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Compression	Focal, Moderate
[Compression TGLS = 3-1]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Mild
		Dilatation	Mild
* Mammary Gland			
[Dilatation TGLS = 1-8]			
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 2-21]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-1]			
* Prostate	Epithelium	Hyperplasia	Focal, Mild
		Inflammation	Chronic, Moderate
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 28

TRT#: 1

SEX: Male

DAY ON TEST: 526

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-88982

ORGAN AND ACCOUNTABLE SITE STATUS

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 29

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93756

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * 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 |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Stomach, Glandular | * Thymus |
| * Trachea | * Urinary Bladder | | |

MISSING

- | | |
|--------------------------|---------------------|
| * Lymph Node, Mandibular | * Parathyroid Gland |
|--------------------------|---------------------|

OBSERVATIONS

- | | | | |
|--|---------------------------|-------------------------|---------------------|
| * Adrenal Medulla
[Pheochromocytoma Benign TGLS = 3-10] | | Pheochromocytoma Benign | |
| * Kidney | | Nephropathy | Moderate |
| * Liver | | Angiectasis | Focal, Mild |
| | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Degeneration | Cystic, Focal, Mild |
| | Hepatocyte | Fatty Change | Minimal |
| | Bile Duct | Hyperplasia | Moderate |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| * Pituitary Gland
[Adenoma TGLS = 4-1] | Pars Distalis | Adenoma | |
| * Spleen
[Hemangiosarcoma TGLS = 2-21] | | Hemangiosarcoma | |
| * Testes
[Adenoma TGLS = 1-7] | Bilateral, Interstit Cell | Adenoma | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 30

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93757

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Epididymis	* Esophagus
* Harderian Gland	* 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
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Brain		Compression	Focal, Mild
* Eye		Cataract	Moderate
	Retina	Degeneration	Moderate
	[Cataract TGLS = 4-44]		
	[Degeneration TGLS = 4-44]		
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
	[Basophilic Focus TGLS = 6-6, 6-22]		
	[Clear Cell Focus TGLS = 6-6, 6-22]		
* Mammary Gland		Dilatation	Marked
		Hyperplasia	Mild
	[Dilatation TGLS = 1-8, 2-21]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:40
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 30	TRT#: 1 DOSE: 0 MG/L	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 00-93757
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ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 2-21]			
* Pancreas	Duct	Cyst	Focal, Multiple, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-1]			
* Prostate	Epithelium	Hyperplasia Inflammation	Focal, Minimal Chronic, Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-7]			
* Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 31

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93758

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Harderian Gland |
| * 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 |
| * Parathyroid Gland | * Salivary Glands | * Seminal Vesicle | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|------------|---|-----------------------|-----------------------|
| * Eye | | Cataract | Moderate |
| | Retina | Degeneration | Moderate |
| | [Cataract TGLS = 6-44] | | |
| | [Degeneration TGLS = 6-44] | | |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Hepatocyte | Fatty Change | Minimal |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Inflammation | Chronic, Mild |
| | [Basophilic Focus TGLS = 7-6, 7-23] | | |
| | [Clear Cell Focus TGLS = 3-21, 7-6, 7-23] | | |
| Lymph Node | Pancreatic | Ectasia | Moderate |
| | Mediastinal | Hyperplasia | Lymphoid, Moderate |
| | | | |
| | [Ectasia TGLS = 2-7] | | |
| | [Hyperplasia TGLS = 4-3] | | |
| * Pancreas | Acinus | Atrophy | Focal, Moderate |
| | Duct | Cyst | Focal, Multiple, Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:40
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 31	TRT#: 1 DOSE: 0 MG/L	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 00-93758
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Minimal
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 5-22]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			
* Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Cystic, Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 32

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93759

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Hepatocyte	Fatty Change	Mild
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild
[Basophilic Focus TGLS = 4-6, 4-23]			
[Clear Cell Focus TGLS = 4-6, 4-23]			
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 2-22]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-1]			
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 32

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93759

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-7]

* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 33

TRT#: 1

SEX: Male

DAY ON TEST: 654

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93112

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder	Zymbal's Gland	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
Ear	Pinna	Neural Crest Tumor	
[Neural Crest Tumor TGLS = 2-21]			
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Moderate
* Liver	Hepatocyte	Fatty Change	Moderate
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Mild
[Leukemia Mononuclear TGLS = 7-6]			
* Lung	Alveolar Epith	Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
		Neural Crest Tumor	Metastatic (Ear)
[Neural Crest Tumor TGLS = 9-22]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 33

TRT#: 1

SEX: Male

DAY ON TEST: 654

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93112

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 5-7]

[Leukemia Mononuclear TGLS = 8-3]

* Lymph Node, Mesenteric

Leukemia Mononuclear

* Mammary Gland

Dilatation

Mild

* Pancreas

Acinus

Atrophy

Focal, Mild

* Pituitary Gland

Angiectasis

Mild

[Angiectasis TGLS = 10-1]

* Preputial Gland

Inflammation

Chronic, Mild

* Prostate

Epithelium

Hyperplasia

Focal, Minimal

Inflammation

Chronic, Mild

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 6-6, 6-23]

* Testes

Interstitial Cell

Adenoma

Atrophy

Moderate

[Adenoma TGLS = 4-7]

[Atrophy TGLS = 3-7]

* Thymus

Leukemia Mononuclear

* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

- Liver Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 34

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93760

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------|--------------------------|---------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Esophagus |
| * Eye | * Intestine Large, Cecum | * Intestine Large, Rectum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Mammary Gland | * Parathyroid Gland | * Skin |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-----------------------------|--------------------------------------|-----------------------|------------------------------|
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Astrocytoma Malignant | |
| * Epididymis | | Leukemia Mononuclear | |
| * Harderian Gland | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Intestine Large, Colon | | Leukemia Mononuclear | |
| * Intestine Small, Duodenum | | Leukemia Mononuclear | |
| * Intestine Small, Ileum | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| * Liver | Hepatocyte | Fatty Change | Mild |
| | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 7-6] | | |
| * Lung | | Hyperplasia | Histiocytic, Focal, Moderate |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 8-2] | | |
| Lymph Node | Deep Cervical | Leukemia Mononuclear | |
| | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| | Renal | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 2-21] | | |
| | [Leukemia Mononuclear TGLS = 9-22] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 34	TRT#: 1	SEX: Male	DAY ON TEST: 732
	DOSE: 0 MG/L	DISP: Terminal Sacrifice	HISTO: 00-93760

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric [Leukemia Mononuclear TGLS = 6-25]		Leukemia Mononuclear	
Mesentery [Leukemia Mononuclear TGLS = 6-25, 9-22]		Leukemia Mononuclear	
* Nose		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland Rathkes Cleft [Cyst TGLS = 10-1] [Leukemia Mononuclear TGLS = 10-1]		Cyst Leukemia Mononuclear	Moderate
* Preputial Gland		Leukemia Mononuclear	
* Prostate		Inflammation	Chronic, Mild
* Salivary Glands		Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	
Skeletal Muscle		Leukemia Mononuclear	
* Spleen [Leukemia Mononuclear TGLS = 3-23]		Leukemia Mononuclear	
* Stomach, Forestomach		Leukemia Mononuclear	
* Stomach, Glandular		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 4-7]	Bilateral, Interstit Cell	Adenoma	
* Thymus [Leukemia Mononuclear TGLS = 5-24]		Leukemia Mononuclear	
* Thyroid Gland C Cell		Hyperplasia	Mild
Tissue NOS Mediastinum		Leukemia Mononuclear Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 35

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93761

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Islets, Pancreatic	* Nose	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Focal, Minimal
		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Focal, Moderate
		[Compression TGLS = 7-1]	
* Heart		Cardiomyopathy	Mild
* Intestine Small, Ileum		Leukemia Mononuclear	
* Intestine Small, Jejunum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Moderate
* Liver	Hepatocyte	Fatty Change	Mild
		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		[Hepatodiaphragmatic Nodule TGLS = 5-22]	
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 4-7]	
* Lymph Node, Mesenteric		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:40
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 35 **TRT#:** 1 **SEX:** Male **DAY ON TEST:** 732
DOSE: 0 MG/L **DISP:** Terminal Sacrifice **HISTO:** 00-93761

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland		Dilatation	Mild
		Hyperplasia	Mild
Mesentery		Leukemia Mononuclear	
	Fat	Necrosis	Focal, Moderate
	[Necrosis TGLS = 3-21]		
* Pancreas	Acinus	Atrophy	Focal, Mild
	Duct	Cyst	Focal, Multiple, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
	[Adenoma TGLS = 6-1]		
	[Leukemia Mononuclear TGLS = 6-1]		
* Preputial Gland		Hyperplasia	Cystic, Marked
	[Hyperplasia TGLS = 1-23]		
* Prostate		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-6]		
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 36

TRT#: 1

SEX: Male

DAY ON TEST: 620

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-90788

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Brain		Compression	Focal, Moderate
[Compression TGLS = 1-1]			
* Kidney		Nephropathy	Mild
* Liver		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Moderate
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Mild
[Fatty Change TGLS = 4-6]			
* Mammary Gland		Dilatation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-1]			
* Prostate	Epithelium	Hyperplasia	Focal, Minimal
		Inflammation	Chronic, Moderate
* Testes	Bilateral	Atrophy	Mild
	Interstit Cell	Hyperplasia	Focal, Mild
[Atrophy TGLS = 3-7]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 36

TRT#: 1

SEX: Male

DAY ON TEST: 620

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-90788

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 37

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93762

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
[Pheochromocytoma Benign TGLS = 3-10]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
[Basophilic Focus TGLS = 6-6, 6-23]			
[Clear Cell Focus TGLS = 6-6, 6-23]			
* Lung	Alveolar Epith	Hyperplasia	Focal, Mild
[Hyperplasia TGLS = 5-22]			
Lymph Node	Mediastinal	Ectasia	Moderate
[Ectasia TGLS = 4-3]			
Mesentery	Fat	Necrosis	Focal, Mild
[Necrosis TGLS = 2-21]			
* Pancreas	Acinus	Atrophy	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 37

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93762

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland

Inflammation

Chronic, Mild

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 1-7]

* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 38

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93763

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Adrenal Medulla		Hyperplasia	Focal, Mild
* Brain		Compression	Focal, Moderate
[Compression TGLS = 10-1]			
* Heart	Epicardium, Myocardium, Pericardium	Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 7-6, 7-23]			
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Mild
		Hepatodiaphragmatic Nodule	
		Inflammation	Chronic, Minimal
		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Mild
[Hepatodiaphragmatic Nodule TGLS = 9-25]			
[Vacuolization Cytoplasmic TGLS = 14-6, 14-25, 14-27]			
* Lung	Mediastinum	Mesothelioma Malignant	
	Serosa	Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 6-22, 12-2, 12-26]			
[Mesothelioma Malignant TGLS = 12-2]			
Lymph Node	Pancreatic	Ectasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 38

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93763

ORGAN AND ACCOUNTABLE SITE STATUS

	Mediastinal	Hyperplasia	Histiocytic, Moderate
	Bronchial	Leukemia Mononuclear	
	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	[Ectasia TGLS = 4-7]		
	[Hyperplasia TGLS = 13-3]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Dilatation	Moderate
	[Dilatation TGLS = 2-8]		
Peritoneum		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLS = 9-25]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 11-1]		
Pleura		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLS = 8-24]		
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate	Epithelium	Hyperplasia	Focal, Mild
		Inflammation	Chronic, Moderate
* Skin	Subcut Tiss	Angiectasis	Focal, Mild
	[Angiectasis TGLS = 1-21]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 3-7]		
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93764

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* 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	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Harderian Gland		Hyperplasia	Lymphoid, Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
			[Basophilic Focus TGLS = 2-6, 2-21]
			[Clear Cell Focus TGLS = 2-6, 2-21]
* Lung	Alveolar Epith	Hyperplasia	Focal, Mild
		Infiltration Cellular	Mixed Cell, Mild
* Pancreas	Acinus	Adenoma	
	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate	Epithelium	Hyperplasia	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93764

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 1-7]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 40

TRT#: 1

SEX: Male

DAY ON TEST: 722

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93765

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Bone | * Epididymis | * Esophagus | * Eye |
| * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum |
| * Intestine Small, Ileum | * Intestine Small, Jejunum | * Mammary Gland | * Nose |
| * Parathyroid Gland | * Salivary Glands | * Seminal Vesicle | * Stomach, Forestomach |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|--|--------------|----------------------------|---------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| | Bilateral | Leukemia Mononuclear | |
| | | Pheochromocytoma Benign | |
| * Bone Marrow | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 9-9] | | | |
| * Brain | | Hemorrhage | Focal, Minimal |
| | | Leukemia Mononuclear | |
| * Harderian Gland | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Islets, Pancreatic | | Adenoma | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Moderate |
| | Renal Tubule | Pigmentation | Moderate |
| * Liver | | Degeneration | Cystic, Focal, Mild |
| | Hepatocyte | Fatty Change | Mild |
| | | Hepatodiaphragmatic Nodule | Moderate |
| | | Leukemia Mononuclear | |
| | Hepatocyte | Vacuolization Cytoplasmic | Marked |
| [Hepatodiaphragmatic Nodule TGLS = 5-21] | | | |
| [Leukemia Mononuclear TGLS = 4-6] | | | |
| [Vacuolization Cytoplasmic TGLS = 4-6] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 40

TRT#: 1

SEX: Male

DAY ON TEST: 722

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93765

ORGAN AND ACCOUNTABLE SITE STATUS

* Lung		Hemorrhage	Focal, Minimal
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-24]		
	[Leukemia Mononuclear TGLS = 2-22]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-25]		
Mesentery		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Focal, Moderate
	Duct	Cyst	Focal, Multiple, Mild
		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Focal, Minimal
		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-23]		
* Stomach, Glandular		Erosion	Mild
	[Erosion TGLS = 8-26]		
* Testes	Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-7]		
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	- Liver	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93766

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Hyperplasia	Focal, Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
[Clear Cell Focus TGLS = 6-6, 6-23]			
Lymph Node	Pancreatic	Ectasia	Moderate
[Ectasia TGLS = 4-7]			
* Mammary Gland		Adenoma	
[Adenoma TGLS = 2-22]			
* Pancreas	Acinus	Atrophy	Focal, Mild
	Acinus	Hyperplasia	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-1]			
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate	Epithelium	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:40
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 41	TRT#: 1 DOSE: 0 MG/L	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 00-93766
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ORGAN AND ACCOUNTABLE SITE STATUS

* Skin [Basal Cell Adenoma TGLS = 1-21]	Subcut Tiss	Inflammation Basal Cell Adenoma	Chronic, Minimal
* Spleen		Fibrosis	Focal, Mild
* Testes [Adenoma TGLS = 3-7]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 42

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93767

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* 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	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Harderian Gland		Inflammation	Chronic, Focal, Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
[Basophilic Focus TGLS = 3-6, 3-21]			
[Clear Cell Focus TGLS = 3-6, 3-21]			
* Lung	Alveolar Epith	Hyperplasia	Focal, Minimal
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Rathkes Cleft	Cyst	Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 42

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93767

ORGAN AND ACCOUNTABLE SITE STATUS

Follicular Cel

Hyperplasia

Cystic, Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 43

TRT#: 1

SEX: Male

DAY ON TEST: 405

DOSE: 0 MG/L

DISP: Natural Death

HISTO: 00-88279

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Lymph Node, Mesenteric	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	

AUTO PRECLUDES DIAG.

* 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	* Pancreas	* Spleen
* Thyroid Gland	* Urinary Bladder		

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Liver	Hepatocyte	Fatty Change	Minimal
* Lung		Congestion	Moderate
	Interstitial	Edema	Moderate
[Congestion TGLS = 2-2]			
* Nose		Sarcoma	
* Preputial Gland		Degeneration	Cystic, Moderate
[Degeneration TGLS = 1-8]			
* Prostate		Inflammation	Chronic, Mild
* Testes	Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Nose Sarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 44

TRT#: 1

SEX: Male

DAY ON TEST: 735

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93768

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * 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 | * Parathyroid Gland |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|---------------------------------------|---------------|------------------------|---------------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| * Heart | | Schwannoma Benign | |
| [Schwannoma Benign TGLS = 3-22] | | | |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Degeneration | Cystic, Focal, Mild |
| | Hepatocyte | Fatty Change | Minimal |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Inflammation | Chronic, Minimal |
| [Basophilic Focus TGLS = 4-6, 4-21] | | | |
| [Clear Cell Focus TGLS = 4-6, 4-21] | | | |
| [Fatty Change TGLS = 4-6, 4-21] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Marked |
| | Duct | Cyst | Focal, Multiple, Moderate |
| * Pituitary Gland | Pars Distalis | Cytoplasmic Alteration | Focal, Minimal |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| * Prostate | Epithelium | Hyperplasia | Focal, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 44

TRT#: 1

SEX: Male

DAY ON TEST: 735

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93768

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 2-7]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 45

TRT#: 1

SEX: Male

DAY ON TEST: 354

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 99-88013

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Mild
		Necrosis	Focal, Minimal
Lymph Node	Mediastinal	Angiectasis	Moderate
	Mediastinal	Hyperplasia	Histiocytic, Moderate
[Angiectasis TGLS = 3-22]			
[Hyperplasia TGLS = 3-22]			
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Focal, Moderate
Skeletal Muscle		Fibrosarcoma	
[Fibrosarcoma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Interstit Cell	Hyperplasia	Focal, Mild
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Fibrosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 46

TRT#: 1

SEX: Male

DAY ON TEST: 702

DOSE: 0 MG/L

DISP: Natural Death

HISTO: 00-93769

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Mammary Gland
--------------------------	-----------------

AUTO PRECLUDES DIAG.

* Thyroid Gland

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Necrosis	Focal, Moderate
* Adrenal Medulla		Leukemia Mononuclear Necrosis	Focal, Moderate
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
* Kidney		Leukemia Mononuclear	
* Liver	Bile Duct	Nephropathy Hyperplasia Leukemia Mononuclear	Mild Moderate
	[Leukemia Mononuclear TGLS = 5-6]		
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-21]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-21]		
* Pancreas	Acinus	Atrophy	Focal, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 46

TRT#: 1

SEX: Male

DAY ON TEST: 702

DOSE: 0 MG/L

DISP: Natural Death

HISTO: 00-93769

ORGAN AND ACCOUNTABLE SITE STATUS

		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-21]			
* Pituitary Gland	Craniophar Dct	Cyst	Mild
	Pars Distalis	Cyst	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Stomach, Forestomach		Edema	Mild
	Epithelium	Hyperplasia	Mild
* Stomach, Glandular		Erosion	Minimal
[Erosion TGLS = 6-22]			
* Testes	Bilateral, Interstit Cell	Adenoma	
		Atrophy	Moderate
[Adenoma TGLS = 1-7]			
[Atrophy TGLS = 2-7]			

PRIMARY CAUSE OF DEATH - Liver Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 47

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93770

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
Lymph Node	Mediastinal	Ectasia	Moderate
[Ectasia TGLS = 2-3]			
* Nose		Inflammation	Suppurative, Mild
* Pancreas	Acinus	Atrophy	Focal, Minimal
	Duct	Cyst	Focal, Multiple, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Focal, Minimal
		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 47	TRT#: 1	SEX: Male	DAY ON TEST: 732
	DOSE: 0 MG/L	DISP: Terminal Sacrifice	HISTO: 00-93770

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-7]			
* Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 48

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93771

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Esophagus	* Eye	* Harderian Gland
* 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	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Epididymis		Mesothelioma Malignant	
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Mild
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
[Basophilic Focus TGLS = 5-23]			
[Clear Cell Focus TGLS = 5-23]			
Mesentery		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 1-21]			
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 48

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93771

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 49

TRT#: 1

SEX: Male

DAY ON TEST: 553

DOSE: 0 MG/L

DISP: Moribund Sacrifice

HISTO: 00-89837

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Esophagus
* Eye	* Harderian Gland	* 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
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Inflammation	Chronic, Moderate
[Inflammation TGLS = 2-7]			
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
[Leukemia Mononuclear TGLS = 6-6]			
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-7]			
Mesentery		Inflammation	Chronic, Moderate
	Fat	Necrosis	Focal, Moderate
[Inflammation TGLS = 2-7]			
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Hemorrhage	Focal, Moderate
	Pars Distalis	Hyperplasia	Focal, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 49	TRT#: 1 DOSE: 0 MG/L	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 553 HISTO: 00-89837
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ORGAN AND ACCOUNTABLE SITE STATUS

[Hemorrhage TGLS = 7-1] [Hyperplasia TGLS = 7-1] [Necrosis TGLS = 7-1] * Preputial Gland * Prostate * Spleen	Pars Distalis Epithelium Artery	Necrosis Inflammation Hyperplasia Inflammation Infarct Leukemia Mononuclear Thrombosis	Focal, Moderate Chronic, Mild Focal, Minimal Chronic, Minimal Moderate Marked
Note: Thrombosis of splenic artery and resulting splenic infarct are clearly evident on slide 6. [Infarct TGLS = 5-6] [Leukemia Mononuclear TGLS = 4-6] [Thrombosis TGLS = 5-6] * Testes	Artery Interstit Cell Tunic Artery	Adenoma Inflammation Necrosis Thrombosis	Chronic, Moderate Marked Focal, Moderate
[Adenoma TGLS = 1-7] [Inflammation TGLS = 2-7] [Necrosis TGLS = 1-7] * Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	- Liver Leukemia Mononuclear		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 50

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93772

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
[Clear Cell Focus TGLS = 3-21]			
Lymph Node	Mediastinal	Ectasia	Moderate
	Mediastinal	Hyperplasia	Plasma Cell, Moderate
* Pancreas	Acinus	Atrophy	Focal, Minimal
	Duct	Cyst	Focal, Multiple, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-1]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 50

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93772

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Bilateral, Interstit Cell

Inflammation

Chronic, Mild

[Adenoma TGLS = 1-7]

Adenoma

* Thyroid Gland

C Cell

Hyperplasia

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 51

TRT#: 2

SEX: Male

DAY ON TEST: 732

DOSE: 175 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93773

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Minimal
		Inflammation	Chronic, Minimal
[Basophilic Focus TGLS = 3-6]			
* Lymph Node, Mesenteric		Hyperplasia	Histiocytic, Moderate
[Hyperplasia TGLS = 2-5]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate	Epithelium	Hyperplasia	Focal, Minimal
		Inflammation	Chronic, Moderate
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Spleen		Congestion	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 51

TRT#: 2

SEX: Male

DAY ON TEST: 732

DOSE: 175 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93773

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Adenoma

Follicle

Degeneration

Cystic, Focal, Mild

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 52

TRT#: 2

SEX: Male

DAY ON TEST: 651

DOSE: 175 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93113

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Hepatocyte	Fatty Change	Minimal
		Hepatodiaphragmatic Nodule	Moderate
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
[Hepatodiaphragmatic Nodule TGLS = 3-22]			
* Lung		Congestion	Mild
[Congestion TGLS = 4-2]			
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Focal, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Focal, Minimal
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 2-21]			
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 52

TRT#: 2

SEX: Male

DAY ON TEST: 651

DOSE: 175 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93113

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-7]

* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 53

TRT#: 2

SEX: Male

DAY ON TEST: 732

DOSE: 175 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93774

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * 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 |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|--|---------------|-----------------------------------|-----------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| | | Pheochromocytoma Benign | |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Degeneration | Cystic, Focal, Mild |
| | Hepatocyte | Fatty Change | Minimal |
| | Bile Duct | Hepatodiaphragmatic Nodule | Mild |
| | | Hyperplasia | Moderate |
| | | Inflammation | Chronic, Minimal |
| [Hepatodiaphragmatic Nodule TGLS = 4-21] | | | |
| Lymph Node | Pancreatic | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 3-7] | | | |
| * Lymph Node, Mesenteric | | Hyperplasia | Histiocytic, Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 5-1] | | | |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Spleen | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 53

TRT#: 2

SEX: Male

DAY ON TEST: 732

DOSE: 175 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93774

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 2-6]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 1-7]

* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 54

TRT#: 2

SEX: Male

DAY ON TEST: 498

DOSE: 175 MG/L

DISP: Accidentally Killed

HISTO: 00-88831

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Harderian Gland	* 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
Oral Mucosa	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Eye	* Lymph Node, Mandibular
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OBSERVATIONS

* Adrenal Cortex		Cytoplasmic Alteration	Focal, Mild
* Brain		Hemorrhage	Focal, Moderate
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver	Hepatocyte	Fatty Change	Mild
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Inflammation	Chronic, Minimal
* Lung		Hemorrhage	Moderate
[Hemorrhage TGLS = 3-2]			
* Nose		Hemorrhage	Moderate
* Stomach, Glandular	Glands	Ectasia	Focal, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

- Brain Hemorrhage

CONTRIBUTORY CAUSE OF DEATH

- Lung Hemorrhage;Nose Hemorrhage

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 55

TRT#: 2

SEX: Male

DAY ON TEST: 735

DOSE: 175 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93775

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Adrenal Medulla	Bilateral	Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Minimal
		Inflammation	Chronic, Mild
[Basophilic Focus TGLS = 4-6]			
[Clear Cell Focus TGLS = 4-6]			
Lymph Node	Pancreatic	Ectasia	Moderate
	Pancreatic	Hyperplasia	Histiocytic, Moderate
[Ectasia TGLS = 2-7]			
[Hyperplasia TGLS = 2-7]			
* Pancreas	Acinus	Atrophy	Focal, Mild
	Duct	Cyst	Focal, Multiple, Mild
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 55

TRT#: 2

SEX: Male

DAY ON TEST: 735

DOSE: 175 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93775

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 3-1]

* Preputial Gland

Inflammation

Chronic, Minimal

* Prostate

Epithelium

Hyperplasia

Focal, Minimal

Inflammation

Chronic, Mild

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 1-7]

* Thyroid Gland

Follicle

Degeneration

Cystic, Focal, Mild

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 56

TRT#: 2

SEX: Male

DAY ON TEST: 735

DOSE: 175 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93776

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Heart		Cardiomyopathy	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Mild
[Clear Cell Focus TGLS = 5-6]			
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland		Angiectasis	Mild
[Angiectasis TGLS = 4-1]			
* Preputial Gland		Inflammation	Chronic, Mild
[Inflammation TGLS = 2-8]			
* Prostate	Epithelium	Hyperplasia	Focal, Mild
		Inflammation	Chronic, Moderate
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:40
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 56	TRT#: 2	SEX: Male	DAY ON TEST: 735
	DOSE: 175 MG/L	DISP: Terminal Sacrifice	HISTO: 00-93776

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 3-7]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 57

TRT#: 2

SEX: Male

DAY ON TEST: 526

DOSE: 175 MG/L

DISP: Moribund Sacrifice

HISTO: 00-88983

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Bone Marrow		Hyperplasia	Histiocytic, Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-1]			
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Moderate
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-7]			
* Thyroid Gland	C Cell	Hyperplasia	Mild
Tongue		Infiltration Cellular	Mixed Cell, Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 57

TRT#: 2

SEX: Male

DAY ON TEST: 526

DOSE: 175 MG/L

DISP: Moribund Sacrifice

HISTO: 00-88983

ORGAN AND ACCOUNTABLE SITE STATUS

[Infiltration Cellular TGLS = 2-22]

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 58

TRT#: 2

SEX: Male

DAY ON TEST: 731

DOSE: 175 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93777

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* 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	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Eosinophilic Focus	
	Bile Duct	Hyperplasia Leukemia Mononuclear	Moderate
	[Leukemia Mononuclear TGLS = 4-6]		
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-3]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
	Rathkes Cleft	Cyst	Mild
		Leukemia Mononuclear	
* Preputial Gland		Adenoma	
	[Adenoma TGLS = 1-21]		
* Prostate	Epithelium	Hyperplasia	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:40
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 58	TRT#: 2	SEX: Male	DAY ON TEST: 731
	DOSE: 175 MG/L	DISP: Terminal Sacrifice	HISTO: 00-93777

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin [Fibroma TGLS = 6-22]	Subcut Tiss	Inflammation Fibroma	Chronic, Minimal
* Spleen [Leukemia Mononuclear TGLS = 2-6]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 3-7]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: TGL 7 = NCL (No Corresponding Lesion)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 59

TRT#: 2

SEX: Male

DAY ON TEST: 731

DOSE: 175 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93778

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Infiltration Cellular	Mixed Cell, Mild
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
* Lung	C Cell	Carcinoma	Metastatic (Thyroid Gland)
[Carcinoma TGLS = 4-2]			
Lymph Node	C Cell, Mediastinal	Carcinoma	Metastatic (Thyroid Gland)
[Carcinoma TGLS = 8-3]			
* Mammary Gland		Dilatation	Minimal
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 3-21]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 59

TRT#: 2

SEX: Male

DAY ON TEST: 731

DOSE: 175 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93778

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Interstit Cell	Adenoma Atrophy	Moderate
[Adenoma TGLS = 1-7]			
[Atrophy TGLS = 2-7]			
* Thyroid Gland	C Cell C Cell	Carcinoma Hyperplasia	Mild
[Carcinoma TGLS = 6-3]			
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 60

TRT#: 2

SEX: Male

DAY ON TEST: 729

DOSE: 175 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93779

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * 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 | * Pancreas | * Parathyroid Gland |
| * Preputial Gland | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-------------------|---------------------------|---------------------------|------------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Angiectasis | Focal, Mild |
| | | Basophilic Focus | |
| | | Cholangiofibrosis | Mild |
| | | Clear Cell Focus | |
| | | Degeneration | Cystic, Focal, Minimal |
| | Hepatocyte | Fatty Change | Minimal |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| | | Inflammation | Chronic, Mild |
| * Nose | | Inflammation | Suppurative, Mild |
| * Pituitary Gland | Pars Distalis | Hemorrhage | Focal, Minimal |
| * Prostate | | Inflammation | Chronic, Minimal |
| * Spleen | | Fibrosis | Focal, Mild |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | | [Adenoma TGLS = 1-7] | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 60

TRT#: 2

SEX: Male

DAY ON TEST: 729

DOSE: 175 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93779

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 61

TRT#: 2

SEX: Male

DAY ON TEST: 654

DOSE: 175 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93114

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Moderate

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 62

TRT#: 2

SEX: Male

DAY ON TEST: 729

DOSE: 175 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93780

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Esophagus	* Eye	* Harderian Gland	* 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	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Minimal
		Pheochromocytoma Benign	
* Epididymis		Mesothelioma Malignant	
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Moderate
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-6]		
* Lung		Alveolar/Bronchiolar Adenoma	
		Leukemia Mononuclear	
	[Alveolar/Bronchiolar Adenoma TGLS = 9-24]		
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 10-3]		
	[Leukemia Mononuclear TGLS = 11-7-1]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 8-5]		
Mesentery		Mesothelioma Malignant	
	[Mesothelioma Malignant TGLS = 4-4, 4-6, 4-7, 4-7-1, 4-22, 5-23]		
* Pancreas	Duct	Cyst	Focal, Multiple, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 62

TRT#: 2

SEX: Male

DAY ON TEST: 729

DOSE: 175 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93780

ORGAN AND ACCOUNTABLE SITE STATUS

Peritoneum [Mesothelioma Malignant TGLS = 3-21]	Tunica Vaginal	Mesothelioma Malignant	
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Focal, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Minimal
* Skin [Angiectasis TGLS = 12-25]	Subcut Tiss	Angiectasis	Focal, Mild
* Spleen [Leukemia Mononuclear TGLS = 6-6]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 1-7]	Bilateral, Interstit Cell Tunic	Adenoma Mesothelioma Malignant	
* Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 63

TRT#: 2

SEX: Male

DAY ON TEST: 735

DOSE: 175 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93781

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
* Lung	Alveolar Epith	Hyperplasia	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate	Epithelium	Hyperplasia	Focal, Mild
		Inflammation	Chronic, Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-7]		
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 64

TRT#: 2

SEX: Male

DAY ON TEST: 735

DOSE: 175 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93782

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Parathyroid Gland
* Salivary Glands	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex	Extra Adr Tiss	Mesothelioma Malignant	Metastatic (Mesentery)
* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Epididymis		Mesothelioma Malignant	
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Colon		Mesothelioma Malignant	Metastatic (Mesentery)
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Cholangiofibrosis	Mild
		Clear Cell Focus	
		Congestion	Mild
		Degeneration	Cystic, Focal, Mild
		Fibrosis	Focal, Mild
		Hepatodiaphragmatic Nodule	Minimal
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
	Serosa	Mesothelioma Malignant	Metastatic (Mesentery)
[Cholangiofibrosis TGLS = 4-23]			
[Congestion TGLS = 5-6]			
[Fibrosis TGLS = 4-23]			
[Hepatodiaphragmatic Nodule TGLS = 3-22]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:40
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 64	TRT#: 2 DOSE: 175 MG/L	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: 00-93782
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ORGAN AND ACCOUNTABLE SITE STATUS

* Lung [Hyperplasia TGLS = 2-2, 2-21]	Alveolar Epith	Hyperplasia	Focal, Mild
Mesentery		Mesothelioma Malignant	
* Pancreas		Mesothelioma Malignant	Metastatic (Mesentery)
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Mesothelioma Malignant	Metastatic (Mesentery)
* Seminal Vesicle		Mesothelioma Malignant	Metastatic (Mesentery)
* Spleen	Capsule	Mesothelioma Malignant	Metastatic (Mesentery)
* Testes [Adenoma TGLS = 1-7]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 65

TRT#: 2

SEX: Male

DAY ON TEST: 561

DOSE: 175 MG/L

DISP: Moribund Sacrifice

HISTO: 00-89669

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow	Erythroid Cell, Myeloid Cell	Hyperplasia	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Degeneration	Cystic, Focal, Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
* Prostate	Epithelium	Hyperplasia	Focal, Mild
		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 1-21]		
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
		Atrophy	Mild
	[Adenoma TGLS = 2-7]		
	[Atrophy TGLS = 3-7]		
* Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 66

TRT#: 2

SEX: Male

DAY ON TEST: 709

DOSE: 175 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93783

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* 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
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Focal, Minimal
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Mild
		Leukemia Mononuclear	
		Thrombosis	Moderate
* Kidney		Infarct	Marked
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Moderate
	[Infarct TGLS = 7-5]		
* Liver	Hepatocyte	Fatty Change	Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Mild
	[Leukemia Mononuclear TGLS = 4-6]		
* Lung		Leukemia Mononuclear	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas	Duct	Cyst	Focal, Multiple, Minimal
* Pituitary Gland		Leukemia Mononuclear	
* Spleen		Infarct	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:40
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 66	TRT#: 2 DOSE: 175 MG/L	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 709 HISTO: 00-93783
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ORGAN AND ACCOUNTABLE SITE STATUS

		Leukemia Mononuclear	
[Infarct TGLS = 5-21] [Leukemia Mononuclear TGLS = 2-6]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Stomach, Glandular		Infarct	Mild
		Leukemia Mononuclear	
[Infarct TGLS = 8-22]			
* Testes	Bilateral, Interstit Cell	Adenoma	
		Atrophy	Moderate
[Adenoma TGLS = 3-7] [Atrophy TGLS = 6-7]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Liver	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 67

TRT#: 2

SEX: Male

DAY ON TEST: 556

DOSE: 175 MG/L

DISP: Moribund Sacrifice

HISTO: 00-89670

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow	Erythroid Cell, Myeloid Cell	Hyperplasia	Moderate
* Kidney		Nephropathy	Mild
* Liver		Degeneration	Cystic, Focal, Mild
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Mild
Lymph Node	Pancreatic	Ectasia	Moderate
	Mediastinal	Hyperplasia	Plasma Cell, Moderate
			[Ectasia TGLS = 3-7]
			[Hyperplasia TGLS = 4-22]
* Preputial Gland		Carcinoma	
			[Carcinoma TGLS = 1-21]
* Prostate		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
			[Adenoma TGLS = 2-7]
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Preputial Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 68

TRT#: 2

SEX: Male

DAY ON TEST: 735

DOSE: 175 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93784

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Minimal
		Inflammation	Chronic, Minimal
			[Basophilic Focus TGLS = 3-6]
* Mammary Gland		Dilatation	Moderate
		Hyperplasia	Moderate
			[Dilatation TGLS = 1-8]
			[Hyperplasia TGLS = 1-8]
Mesentery	Fat	Necrosis	Focal, Moderate
			[Necrosis TGLS = 2-21]
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:40
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 68	TRT#: 2	SEX: Male	DAY ON TEST: 735
	DOSE: 175 MG/L	DISP: Terminal Sacrifice	HISTO: 00-93784

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 5-1]			
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate	Epithelium	Hyperplasia	Focal, Minimal
		Inflammation	Chronic, Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-7]			
* Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 69

TRT#: 2

SEX: Male

DAY ON TEST: 735

DOSE: 175 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93785

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Histiocytic, Marked
* Brain		Compression	Focal, Moderate
[Compression TGLS = 6-1]			
* Kidney	Renal Tubule	Nephropathy	Mild
		Pigmentation	Mild
* Liver		Basophilic Focus	
		Degeneration	Cystic, Focal, Minimal
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
		Mixed Cell Focus	
Lymph Node	Mediastinal	Hyperplasia	Moderate
	Pancreatic	Hyperplasia	Histiocytic, Moderate
[Hyperplasia TGLS = 3-7]			
[Hyperplasia TGLS = 4-3]			
* Mammary Gland		Dilatation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-1]			
* Preputial Gland		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 69

TRT#: 2

SEX: Male

DAY ON TEST: 735

DOSE: 175 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93785

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	Epithelium	Hyperplasia Inflammation	Focal, Mild Chronic, Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes [Adenoma TGLS = 2-7]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 70

TRT#: 2

SEX: Male

DAY ON TEST: 697

DOSE: 175 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93786

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Mild
	[Leukemia Mononuclear TGLS = 9-6]		
* Lung	Alveolar Epith	Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
	Lymph Node	Hyperplasia	Plasma Cell, Marked
	Mediastinal	Leukemia Mononuclear	
	Pancreatic		
	[Hyperplasia TGLS = 8-3]		
	[Leukemia Mononuclear TGLS = 6-7]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 7-5]		
Mesentery		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-22]		
* Pancreas	Acinus	Atrophy	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:40
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 70	TRT#: 2	SEX: Male	DAY ON TEST: 697
	DOSE: 175 MG/L	DISP: Moribund Sacrifice	HISTO: 00-93786

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLS = 10-1]	Pars Distalis	Leukemia Mononuclear Adenoma	
* Preputial Gland [Carcinoma TGLS = 1-21]		Carcinoma Inflammation	Chronic, Minimal
* Prostate		Leukemia Mononuclear	
* Spleen [Leukemia Mononuclear TGLS = 3-6]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 4-7]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Liver Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 71

TRT#: 2

SEX: Male

DAY ON TEST: 697

DOSE: 175 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93787

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* 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
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Trachea			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Bone Marrow

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-10]			
* Adrenal Medulla		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-10]			
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver	Bile Duct	Hyperplasia	Moderate
[Leukemia Mononuclear TGLS = 9-6]		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-3]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-5]			
Mesentery		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-21]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 71

TRT#: 2

SEX: Male

DAY ON TEST: 697

DOSE: 175 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93787

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLS = 11-1]			
* Preputial Gland		Inflammation	Chronic, Mild
[Inflammation TGLS = 1-8]			
* Prostate		Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Stomach, Glandular		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 6-7]			
* Thymus		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-3]			
* Thyroid Gland	C Cell	Hyperplasia	Mild
Tissue NOS	Mediastinum	Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	- Liver	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:40
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 72	TRT#: 2	SEX: Male	DAY ON TEST: 731
	DOSE: 175 MG/L	DISP: Terminal Sacrifice	HISTO: 00-93788

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin [Fibroma TGLS = 1-21]	Subcut Tiss	Fibroma	
* Testes [Adenoma TGLS = 2-7]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland [Carcinoma TGLS = 3-3]	Follicular Cel C Cell	Carcinoma Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 73

TRT#: 2

SEX: Male

DAY ON TEST: 731

DOSE: 175 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93789

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Minimal
	Hepatocyte	Fatty Change	Mild
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
Lymph Node	Mediastinal	Ectasia	Moderate
	Pancreatic	Hyperplasia	Histiocytic, Moderate
[Ectasia TGLS = 3-3]			
[Hyperplasia TGLS = 2-7]			
* Pancreas	Acinus	Atrophy	Focal, Mild
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 73

TRT#: 2

SEX: Male

DAY ON TEST: 731

DOSE: 175 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93789

ORGAN AND ACCOUNTABLE SITE STATUS

Follicular Cel

Hyperplasia

Cystic, Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 74

TRT#: 2

SEX: Male

DAY ON TEST: 731

DOSE: 175 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93790

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
Note: Large, well-delineated area of liver section (slide 6) has artifact of insufficient staining with hematoxylin.			
		[Leukemia Mononuclear TGLS = 6-6]	
* Lung		Inflammation	Chronic, Focal, Minimal
		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 3-7]	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 5-5]	
* Mammary Gland		Dilatation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 74

TRT#: 2

SEX: Male

DAY ON TEST: 731

DOSE: 175 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93790

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland		Leukemia Mononuclear	
* Prostate		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-7]			
* Thyroid Gland	C Cell	Hyperplasia	Mild
Tissue NOS	Mediastinum	Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 75

TRT#: 2

SEX: Male

DAY ON TEST: 620

DOSE: 175 MG/L

DISP: Moribund Sacrifice

HISTO: 00-90789

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Moderate
* Bone Marrow	Erythroid Cell, Myeloid Cell	Hyperplasia	Mild
* Kidney		Nephropathy	Mild
* Liver		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Mild
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
Lymph Node	Pancreatic	Ectasia	Moderate
[Ectasia TGLS = 4-7]			
* Mammary Gland		Dilatation	Mild
* Pancreas	Acinus	Atrophy	Focal, Minimal
	Duct	Cyst	Focal, Multiple, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-1]			
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Forestomach		Edema	Moderate
		Ulcer	Mild
[Ulcer TGLS = 6-4]			
* Testes		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:40
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 75	TRT#: 2	SEX: Male	DAY ON TEST: 620
	DOSE: 175 MG/L	DISP: Moribund Sacrifice	HISTO: 00-90789

ORGAN AND ACCOUNTABLE SITE STATUS

[Atrophy TGLS = 2-7]	Bilateral, Interstit Cell	Hyperplasia	Focal, Minimal
Tissue NOS	Abdominal	Schwannoma Malignant	
[Schwannoma Malignant TGLS = 5-21, 5-21-1]			

PRIMARY CAUSE OF DEATH - Tissue NOS Abdominal Schwannoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 76

TRT#: 2

SEX: Male

DAY ON TEST: 709

DOSE: 175 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93791

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Adrenal Medulla		Hyperplasia Pheochromocytoma Benign	Focal, Minimal
* Bone Marrow		Hyperplasia	Moderate
* Brain		Compression	Focal, Moderate
[Compression TGLS = 9-1]			
* Kidney		Nephropathy	Mild
* Liver	Hepatocyte	Fatty Change	Mild
	Bile Duct	Hyperplasia	Mild
		Leukemia Mononuclear	
* Lung		Carcinoma	Metastatic (Thyroid Gland)
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-3]			
[Leukemia Mononuclear TGLS = 4-7]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-5]			
* Mammary Gland		Dilatation	Marked
[Dilatation TGLS = 1-8]			
* Nose		Inflammation	Suppurative, Mild
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:40
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 76	TRT#: 2	SEX: Male	DAY ON TEST: 709
	DOSE: 175 MG/L	DISP: Moribund Sacrifice	HISTO: 00-93791

ORGAN AND ACCOUNTABLE SITE STATUS

		Leukemia Mononuclear	
[Adenoma TGLS = 8-1]			
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Moderate
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Inflammation	Focal, Mild
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thyroid Gland	Follicular Cel	Carcinoma	
	C Cell	Hyperplasia	Mild
[Carcinoma TGLS = 7-3]			
Tissue NOS	Mediastinum	Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	- Liver	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 77

TRT#: 2

SEX: Male

DAY ON TEST: 730

DOSE: 175 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93792

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Brain [Hydrocephalus TGLS = 4-1]	Cerebrum, Ventricle	Hydrocephalus	Moderate
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
Lymph Node [Hyperplasia TGLS = 2-7]	Pancreatic	Hyperplasia	Histiocytic, Mild
* Pancreas	Duct	Cyst	Focal, Multiple, Mild
* Pituitary Gland [Adenoma TGLS = 3-1]	Pars Distalis	Adenoma	
* Prostate		Inflammation	Chronic, Moderate
* Testes [Adenoma TGLS = 1-7]	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 77

TRT#: 2

SEX: Male

DAY ON TEST: 730

DOSE: 175 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93792

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 78

TRT#: 2

SEX: Male

DAY ON TEST: 405

DOSE: 175 MG/L

DISP: Moribund Sacrifice

HISTO: 00-88280

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * 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 |
| * Preputial Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Testes | * Thymus |
| * Trachea | | | |

MISSING

- * Lymph Node, Mandibular

PRESENT BUT NOT EXAMINED

- * Bone Marrow

OBSERVATIONS

- * Bone Marrow
 - Note: Excess artifact precludes diagnosis.
- * Brain

	Hemorrhage	Focal, Moderate
	Leukemia Mononuclear	
	Necrosis	Focal, Moderate
[Hemorrhage TGLS = 7-23]		
[Leukemia Mononuclear TGLS = 7-23]		
[Necrosis TGLS = 7-23]		
- * Heart

	Cardiomyopathy	Mild
--	----------------	------
- * Kidney

	Nephropathy	Minimal
--	-------------	---------
- * Liver

Hepatocyte	Fatty Change	Minimal
Bile Duct	Hyperplasia	Moderate
	Leukemia Mononuclear	
Hepatocyte	Vacuolization Cytoplasmic	Minimal
[Leukemia Mononuclear TGLS = 6-6]		
- Lymph Node

Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-21]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 78

TRT#: 2

SEX: Male

DAY ON TEST: 405

DOSE: 175 MG/L

DISP: Moribund Sacrifice

HISTO: 00-88280

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery		Leukemia Mononuclear	
* Pituitary Gland	Pars Intermed	Cyst	Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Stomach, Glandular		Erosion	Moderate
		Pigmentation	Focal, Moderate
[Erosion TGLS = 8-4]			
[Pigmentation TGLS = 8-4]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder		Hemorrhage	Moderate
		Leukemia Mononuclear	
[Hemorrhage TGLS = 2-8, 2-22]			
[Leukemia Mononuclear TGLS = 2-8, 2-22]			

PRIMARY CAUSE OF DEATH - Brain Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 79

TRT#: 2

SEX: Male

DAY ON TEST: 731

DOSE: 175 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93793

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Mild
[Basophilic Focus TGLS = 2-6, 2-22]			
[Clear Cell Focus TGLS = 2-6, 2-22]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-21]			
* Pancreas	Duct	Cyst	Focal, Multiple, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-7]			
* Thyroid Gland	C Cell	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 80

TRT#: 2

SEX: Male

DAY ON TEST: 731

DOSE: 175 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93794

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Harderian Gland	* 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	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Eye		Cataract	Moderate
	Retina	Degeneration	Moderate
	[Cataract TGLS = 1-44]		
	[Degeneration TGLS = 1-44]		
* Kidney		Nephropathy	Mild
* Liver		Angiectasis	Focal, Mild
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Clear Cell Focus TGLS = 6-21]		
	[Leukemia Mononuclear TGLS = 5-6]		
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-7]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Focal, Mild
	Duct	Cyst	Focal, Multiple, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:40
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 80	TRT#: 2	SEX: Male	DAY ON TEST: 731
	DOSE: 175 MG/L	DISP: Terminal Sacrifice	HISTO: 00-93794

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis Rathkes Cleft	Adenoma Cyst	Moderate
Note: Adenoma is unusually small.			
* Preputial Gland		Adenoma	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 81

TRT#: 2

SEX: Male

DAY ON TEST: 732

DOSE: 175 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93795

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Moderate
* Kidney		Nephropathy	Mild
* Liver		Angiectasis	Focal, Mild
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Mild
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
[Clear Cell Focus TGLS = 3-6, 3-21]			
[Vacuolization Cytoplasmic TGLS = 3-21]			
Lymph Node	Pancreatic	Hyperplasia	Histiocytic, Moderate
[Hyperplasia TGLS = 2-7]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cytoplasmic Alteration	Focal, Minimal
* Prostate	Epithelium	Hyperplasia	Focal, Minimal
		Inflammation	Chronic, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 81

TRT#: 2

SEX: Male

DAY ON TEST: 732

DOSE: 175 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93795

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-7]

* Thyroid Gland

C Cell

Adenoma

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 82

TRT#: 2

SEX: Male

DAY ON TEST: 732

DOSE: 175 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93796

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Marked
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Mild
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild
[Clear Cell Focus TGLS = 4-22]			
[Vacuolization Cytoplasmic TGLS = 4-22]			
* Mammary Gland		Dilatation	Moderate
		Fibrosis	Mild
[Dilatation TGLS = 1-21]			
[Fibrosis TGLS = 1-21]			
* Preputial Gland		Inflammation	Chronic, Minimal
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 82

TRT#: 2

SEX: Male

DAY ON TEST: 732

DOSE: 175 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93796

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 83

TRT#: 2

SEX: Male

DAY ON TEST: 732

DOSE: 175 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93797

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Nose	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Minimal
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
[Basophilic Focus TGLS = 5-6]			
* Lymph Node, Mesenteric		Ectasia	Moderate
[Ectasia TGLS = 4-5]			
* Mammary Gland		Hyperplasia	Mild
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 1-21, 3-22]			
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Moderate
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 6-23]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:40
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 83	TRT#: 2 DOSE: 175 MG/L	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 732 HISTO: 00-93797
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ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 2-7]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell Follicular Cel	Hyperplasia Hyperplasia	Minimal Cystic, Focal, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 84

TRT#: 2

SEX: Male

DAY ON TEST: 520

DOSE: 175 MG/L

DISP: Moribund Sacrifice

HISTO: 00-88933

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Thymus	* Trachea	* Urinary Bladder	

AUTO PRECLUDES DIAG.

* Bone Marrow

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Brain		Hemorrhage	Focal, Moderate
		Leukemia Mononuclear	
		Necrosis	Focal, Moderate
	[Hemorrhage TGLS = 7-21, 8-1, 9-21]		
	[Leukemia Mononuclear TGLS = 7-21, 8-1, 9-21]		
	[Necrosis TGLS = 7-21, 8-1, 9-21]		
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
		Pigmentation	Minimal
* Liver	Renal Tubule	Fatty Change	Moderate
	Hepatocyte	Hyperplasia	Mild
	Bile Duct	Leukemia Mononuclear	
	[Fatty Change TGLS = 4-6]		
	[Leukemia Mononuclear TGLS = 4-6]		
* Lung		Hyperplasia	Histiocytic, Minimal
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 84	TRT#: 2	SEX: Male	DAY ON TEST: 520
	DOSE: 175 MG/L	DISP: Moribund Sacrifice	HISTO: 00-88933

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 2-22]			
[Leukemia Mononuclear TGLS = 6-3]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Focal, Mild
		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Focal, Mild
* Prostate		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Ulcer	Moderate
[Hyperplasia TGLS = 5-23, 11-4, 11-23]			
[Ulcer TGLS = 5-23, 11-4, 11-23]			
* Stomach, Glandular	Artery	Erosion	Mild
		Inflammation	Chronic, Moderate
		Inflammation	Focal, Moderate
		Leukemia Mononuclear	
[Erosion TGLS = 12-24]			
[Inflammation TGLS = 12-24]			
[Inflammation TGLS = 12-24]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7, 10-7]			
* Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	- Brain	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 85

TRT#: 2

SEX: Male

DAY ON TEST: 729

DOSE: 175 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93798

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* 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	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Bone Marrow

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Focal, Minimal
		Leukemia Mononuclear	
* Kidney		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-6]		
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Hyperplasia	Plasma Cell, Moderate
	[Hyperplasia TGLS = 8-22]		
Oral Mucosa		Squamous Cell Papilloma	
	[Squamous Cell Papilloma TGLS = 9-9-1, 9-23]		
* Pancreas	Acinus	Atrophy	Focal, Mild
* Preputial Gland		Hyperplasia	Cystic, Moderate
		Inflammation	Chronic, Moderate
	[Hyperplasia TGLS = 2-8]		
	[Inflammation TGLS = 2-8]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:40
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 85	TRT#: 2 DOSE: 175 MG/L	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 729 HISTO: 00-93798
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ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	Epithelium	Hyperplasia	Focal, Mild
* Skin	Subcut Tiss	Keratoacanthoma Sarcoma	
	[Keratoacanthoma TGLS = 3-21]		
	[Sarcoma TGLS = 3-21]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-6]		
* Testes	Bilateral, Interstit Cell	Adenoma Atrophy	Moderate
	[Adenoma TGLS = 7-7]		
	[Atrophy TGLS = 6-7]		
* Thyroid Gland	C Cell	Hyperplasia	Mild
Tooth	Epithlm Alvlus	Hyperplasia	Moderate
PRIMARY CAUSE OF DEATH	- Liver Leukemia Mononuclear		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 86

TRT#: 2

SEX: Male

DAY ON TEST: 697

DOSE: 175 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93799

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Epididymis | * Esophagus | * Eye |
| * Harderian Gland | * 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 |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|---|-------------|---------------------------|-------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| | | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 5-10] | | | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Hemorrhage | Focal, Mild |
| | | Leukemia Mononuclear | |
| [Hemorrhage TGLS = 9-1, 9-23] | | | |
| [Leukemia Mononuclear TGLS = 9-1, 9-23] | | | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| * Liver | Hepatocyte | Fatty Change | Minimal |
| | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | Hepatocyte | Vacuolization Cytoplasmic | Moderate |
| [Leukemia Mononuclear TGLS = 6-6] | | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 4-21] | | | |
| [Leukemia Mononuclear TGLS = 8-3] | | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 86

TRT#: 2

SEX: Male

DAY ON TEST: 697

DOSE: 175 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93799

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric [Leukemia Mononuclear TGLS = 3-5]		Leukemia Mononuclear	
Mesentery		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Focal, Minimal
	Duct	Cyst	Focal, Multiple, Mild
		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Cyst	Mild
		Leukemia Mononuclear	
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Minimal
* Spleen		Angiectasis	Focal, Moderate
		Fibrosis	Focal, Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-22]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			
* Thymus		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-3]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Liver	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 87

TRT#: 2

SEX: Male

DAY ON TEST: 667

DOSE: 175 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93115

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Infarct	Marked
		Nephropathy	Minimal
	Renal Tubule	Pigmentation	Mild
	Artery	Thrombosis	Moderate
Note: Massive infarct affects essentially all of tissue section of left kidney, except the renal pelvis. Thrombus in cortex of kidney likely cause of infarct.			
* Liver	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Mild
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-7]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Dilatation	Moderate
Mesentery		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hemorrhage	Focal, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:40
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 87	TRT#: 2	SEX: Male	DAY ON TEST: 667
	DOSE: 175 MG/L	DISP: Moribund Sacrifice	HISTO: 00-93115

ORGAN AND ACCOUNTABLE SITE STATUS

		Leukemia Mononuclear	
[Adenoma TGLS = 5-1]			
* Prostate	Epithelium	Hyperplasia Inflammation	Focal, Minimal Chronic, Minimal
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-6]			
* Testes	Bilateral, Interstit Cell	Adenoma Atrophy	Moderate
[Adenoma TGLS = 2-7]			
[Atrophy TGLS = 3-7]			
* Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	- Liver	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 88

TRT#: 2

SEX: Male

DAY ON TEST: 730

DOSE: 175 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93800

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone Marrow	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Bone		Hyperostosis	Mild
[Hyperostosis TGLS = 6-21]			
* Brain		Compression	Focal, Mild
[Compression TGLS = 5-1]			
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Minimal
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
[Basophilic Focus TGLS = 8-22]			
[Clear Cell Focus TGLS = 8-6]			
Lymph Node	Bronchial	Hyperplasia	Plasma Cell, Moderate
	Pancreatic	Hyperplasia	Histiocytic, Mild
[Hyperplasia TGLS = 3-7]			
[Hyperplasia TGLS = 4-3]			
* Mammary Gland		Dilatation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 88

TRT#: 2

SEX: Male

DAY ON TEST: 730

DOSE: 175 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93800

ORGAN AND ACCOUNTABLE SITE STATUS

[Dilatation TGLS = 1-8]

* Pancreas	Duct	Cyst	Focal, Multiple, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

[Adenoma TGLS = 7-1]

* Prostate	Epithelium	Hyperplasia Inflammation	Focal, Mild Chronic, Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 89

TRT#: 2

SEX: Male

DAY ON TEST: 667

DOSE: 175 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93116

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lung	* Lymph Node, Mesenteric	* Nose
* Pancreas	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Cytoplasmic Alteration	Focal, Minimal
* Brain		Compression	Focal, Moderate
[Compression TGLS = 3-1, 3-22]			
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Carcinoma	
[Carcinoma TGLS = 5-21]			
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
		Dilatation	Moderate
* Mammary Gland			
[Dilatation TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-1]			
* Prostate		Inflammation	Chronic, Moderate
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 4-7]			
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 89

TRT#: 2

SEX: Male

DAY ON TEST: 667

DOSE: 175 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93116

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 90

TRT#: 2

SEX: Male

DAY ON TEST: 660

DOSE: 175 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93117

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Nose	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Parathyroid Gland
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AUTO PRECLUDES DIAG.

* Bone Marrow

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Leukemia Mononuclear	
* Adrenal Medulla	Bilateral	Hyperplasia	Focal, Marked
		Leukemia Mononuclear	
* Kidney		Infarct	Mild
		Leukemia Mononuclear	
		Nephropathy	Mild
	[Infarct TGLS = 7-21]		
* Liver	Hepatocyte	Fatty Change	Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
	[Leukemia Mononuclear TGLS = 3-6]		
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 8-3]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Dilatation	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 90	TRT#: 2 DOSE: 175 MG/L	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 660 HISTO: 00-93117
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Focal, Minimal
	Pars Distalis	Hemorrhage	Focal, Mild
		Leukemia Mononuclear	
	[Hemorrhage TGLS = 6-1]		
* Prostate	Epithelium	Hyperplasia	Focal, Minimal
		Inflammation	Chronic, Minimal
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-6]		
* Stomach, Forestomach		Edema	Moderate
	Epithelium	Hyperplasia	Mild
		Leukemia Mononuclear	
		Ulcer	Moderate
	[Ulcer TGLS = 5-4]		
* Stomach, Glandular		Edema	Mild
		Erosion	Minimal
	Glands	Necrosis	Focal, Mild
* Testes	Interstit Cell	Adenoma	
	[Adenoma TGLS = 4-7]		
PRIMARY CAUSE OF DEATH	- Liver	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 91

TRT#: 2

SEX: Male

DAY ON TEST: 683

DOSE: 175 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93118

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* 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	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Brain		Compression	Focal, Moderate
[Compression TGLS = 3-1]			
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Hepatocyte	Fatty Change	Minimal
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Mild
		Leukemia Mononuclear	
[Hepatocellular Adenoma TGLS = 2-21]			
* Lung	Alveolar Epith	Hyperplasia	Focal, Minimal
* Mammary Gland		Dilatation	Mild
[Dilatation TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-1]			
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate	Epithelium	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 91

TRT#: 2

SEX: Male

DAY ON TEST: 683

DOSE: 175 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93118

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Inflammation	Chronic, Mild
* Testes	Interstit Cell	Leukemia Mononuclear	
	Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Focal, Minimal
		Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 92

TRT#: 2

SEX: Male

DAY ON TEST: 624

DOSE: 175 MG/L

DISP: Moribund Sacrifice

HISTO: 00-90790

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Parathyroid Gland	Peripheral Nerve
* Salivary Glands	* Seminal Vesicle	* Skin	Spinal Cord
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Astrocytoma Malignant Compression	Focal, Moderate
[Astrocytoma Malignant TGLS = 5-1]			
[Compression TGLS = 5-1]			
* Kidney		Nephropathy	Minimal
* Liver		Degeneration	Cystic, Focal, Mild
		Hepatodiaphragmatic Nodule	Moderate
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
[Hepatodiaphragmatic Nodule TGLS = 3-21]			
* Lung		Hemorrhage	Focal, Mild
* Mammary Gland		Dilatation	Moderate
[Dilatation TGLS = 1-8]			
* Pancreas	Acinus	Atrophy	Focal, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-1]			
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate	Epithelium	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:40
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 92	TRT#: 2	SEX: Male	DAY ON TEST: 624
	DOSE: 175 MG/L	DISP: Moribund Sacrifice	HISTO: 00-90790

ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLS = 4-7-1]		Inflammation	Chronic, Moderate
* Testes Note: Adenomas affect only one testis.	Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		
CONTRIBUTORY CAUSE OF DEATH	- Brain Astrocytoma Malignant		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 93

TRT#: 2

SEX: Male

DAY ON TEST: 681

DOSE: 175 MG/L

DISP: Natural Death

HISTO: 00-93119

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Esophagus
* Eye	* Harderian Gland	* 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	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Thyroid Gland

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Complex	
[Pheochromocytoma Complex TGLS = 6-23]			
* Bone Marrow	Erythroid Cell, Myeloid Cell	Hyperplasia	Moderate
* Epididymis		Mesothelioma Malignant	
* Heart		Thrombosis	Marked
[Thrombosis TGLS = 9-5]			
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Moderate
* Liver	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
	Hepatocyte	Hypertrophy	Moderate
	Centrilobular, Hepatocyte	Necrosis	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
[Hypertrophy TGLS = 7-6]			
[Necrosis TGLS = 7-6]			
[Vacuolization Cytoplasmic TGLS = 7-6]			
* Lung	Alveolar Epith	Hyperplasia	Focal, Mild
		Metaplasia	Squamous, Marked

Note: Alveolar bronchiolar adenoma, on slide 2, shows extensive squamous metaplasia.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 93

TRT#: 2

SEX: Male

DAY ON TEST: 681

DOSE: 175 MG/L

DISP: Natural Death

HISTO: 00-93119

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 11-25]

* Mammary Gland

Dilatation

Mild

Mesentery

Mesothelioma Malignant

[Mesothelioma Malignant TGLS = 4-4, 4-7-1, 4-22]

Peritoneum

Tunica Vaginal

Mesothelioma Malignant

Mesothelioma Malignant

[Mesothelioma Malignant TGLS = 3-21]

[Mesothelioma Malignant TGLS = 8-24]

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 10-1]

* Preputial Gland

Inflammation

Chronic, Minimal

* Prostate

Inflammation

Chronic, Minimal

* Spleen

Hematopoietic Cell Proliferation

Moderate

[Hematopoietic Cell Proliferation TGLS = 5-6]

* Stomach, Glandular

Erosion

Mild

[Erosion TGLS = 12-4]

* Testes

Bilateral, Interstit Cell

Adenoma

Tunic

Mesothelioma Malignant

[Adenoma TGLS = 2-7]

PRIMARY CAUSE OF DEATH

- Mesentery Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 94

TRT#: 2

SEX: Male

DAY ON TEST: 709

DOSE: 175 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93801

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* 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
* Parathyroid Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Mild
* Adrenal Medulla		Hyperplasia	Focal, Mild
		Pheochromocytoma Benign	
* Brain		Compression	Focal, Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Angiectasis	Focal, Mild
		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Mild
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
Lymph Node	Pancreatic	Ectasia	Moderate
[Ectasia TGLS = 1-7]			
* Mammary Gland		Dilatation	Minimal
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Intermed	Adenoma	
[Adenoma TGLS = 2-1]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate
		Inflammation	Focal, Moderate
		Ulcer	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 94

TRT#: 2

SEX: Male

DAY ON TEST: 709

DOSE: 175 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93801

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 4-4, 4-21]

[Inflammation TGLS = 3-4, 3-21, 4-4, 4-21]

[Ulcer TGLS = 3-4, 3-21]

* Testes

Bilateral, Interstit Cell

Adenoma

* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Intermed Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 95

TRT#: 2

SEX: Male

DAY ON TEST: 695

DOSE: 175 MG/L

DISP: Natural Death

HISTO: 00-93802

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Small, Duodenum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Spleen	* Thyroid Gland

OBSERVATIONS

* Brain		Compression	Focal, Moderate
[Compression TGLS = 1-1]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Hepatodiaphragmatic Nodule	Moderate
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-3]			
Mesentery		Leukemia Mononuclear	
* Pancreas	Duct	Cyst	Focal, Multiple, Mild
		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 2-1]			
* Preputial Gland		Inflammation	Chronic, Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 96

TRT#: 2

SEX: Male

DAY ON TEST: 735

DOSE: 175 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93803

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow	Erythroid Cell, Myeloid Cell	Hyperplasia	Moderate
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Hepatocyte	Clear Cell Focus	
	Bile Duct	Fatty Change	Minimal
		Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
* Lung	Alveolar Epith	Hyperplasia	Focal, Mild
		Inflammation	Chronic, Focal, Mild
		[Hyperplasia TGLS = 9-24]	
		[Inflammation TGLS = 9-24]	
Lymph Node	Pancreatic	Ectasia	Moderate
	Mediastinal	Hyperplasia	Lymphoid, Moderate
		[Ectasia TGLS = 6-7]	
		[Hyperplasia TGLS = 7-3]	
* Mammary Gland		Dilatation	Mild
		Fibroadenoma	
		[Fibroadenoma TGLS = 1-21]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:40
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 96	TRT#: 2 DOSE: 175 MG/L	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: 00-93803
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ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery [Necrosis TGLS = 5-22]	Fat	Necrosis	Focal, Moderate
* Pancreas	Acinus	Atrophy	Focal, Mild
	Duct	Cyst	Focal, Multiple, Minimal
* Pituitary Gland [Adenoma TGLS = 8-1]	Pars Distalis	Adenoma	
* Preputial Gland [Carcinoma TGLS = 2-23]		Carcinoma Inflammation	Chronic, Minimal
* Prostate	Epithelium	Hyperplasia	Focal, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes [Adenoma TGLS = 4-7] [Atrophy TGLS = 3-7]	Bilateral, Interstit Cell	Adenoma Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Cystic, Focal, Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 97

TRT#: 2

SEX: Male

DAY ON TEST: 735

DOSE: 175 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93804

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Marked
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Adenoma	
[Adenoma TGLS = 8-23]			
* Kidney	Renal Tubule	Nephropathy	Mild
		Pigmentation	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
[Clear Cell Focus TGLS = 9-24]			
[Fatty Change TGLS = 9-24]			
* Mammary Gland		Dilatation	Marked
		Fibroadenoma	
		Hyperplasia	Moderate
[Dilatation TGLS = 1-8, 2-21, 3-22]			
[Fibroadenoma TGLS = 3-22]			
[Hyperplasia TGLS = 2-21]			
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:40
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 97	TRT#: 2 DOSE: 175 MG/L	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 735 HISTO: 00-93804
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ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 7-1]			
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate	Epithelium	Hyperplasia Inflammation	Focal, Minimal Chronic, Moderate
[Inflammation TGLS = 6-7-1]			
* Testes	Bilateral, Interstit Cell	Adenoma Atrophy	Moderate
[Adenoma TGLS = 4-7]			
[Atrophy TGLS = 5-7]			
* Thyroid Gland	C Cell C Cell Follicular Cel	Adenoma Hyperplasia Hyperplasia	Minimal Cystic, Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 98

TRT#: 2

SEX: Male

DAY ON TEST: 735

DOSE: 175 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93805

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
[Basophilic Focus TGLS = 4-6]			
[Clear Cell Focus TGLS = 4-6]			
[Fatty Change TGLS = 4-6]			
* Mammary Gland		Fibroadenoma	Multiple
[Fibroadenoma TGLS = 1-21, 2-8]			
* Pancreas	Duct	Cyst	Focal, Multiple, Mild
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Focal, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-7]			
* Thymus		Thymoma Benign	
* Thyroid Gland	C Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 98

TRT#: 2

SEX: Male

DAY ON TEST: 735

DOSE: 175 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93805

ORGAN AND ACCOUNTABLE SITE STATUS

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 99

TRT#: 2

SEX: Male

DAY ON TEST: 732

DOSE: 175 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93806

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Lymph Node, Mesenteric	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Moderate
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Moderate
[Clear Cell Focus TGLS = 4-6]			
[Degeneration TGLS = 5-22]			
[Hepatocellular Adenoma TGLS = 5-22]			
Lymph Node	Pancreatic	Hyperplasia	Histiocytic, Moderate
[Hyperplasia TGLS = 2-7]			
* Mammary Gland		Dilatation	Mild
* Nose		Inflammation	Suppurative, Mild
* Pancreas	Acinus	Atrophy	Focal, Mild
	Duct	Cyst	Focal, Multiple, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 99

TRT#: 2

SEX: Male

DAY ON TEST: 732

DOSE: 175 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93806

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 6-1]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Minimal
* Spleen		Hyperplasia	Histiocytic, Focal, Marked
[Hyperplasia TGLS = 3-21]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 100

TRT#: 2

SEX: Male

DAY ON TEST: 732

DOSE: 175 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93807

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* 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	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Cytoplasmic Alteration	Focal, Mild
* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Bone Marrow		Hyperplasia	Marked
* Kidney		Nephropathy	Mild
* Liver	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		Mixed Cell Focus	
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
	[Leukemia Mononuclear TGLS = 5-6]		
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-7]		
* Pancreas	Acinus	Adenoma	
	Acinus	Atrophy	Focal, Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate	Epithelium	Hyperplasia	Focal, Marked
		Inflammation	Chronic, Moderate
* Spleen		Angiectasis	Focal, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 100

TRT#: 2

SEX: Male

DAY ON TEST: 732

DOSE: 175 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93807

ORGAN AND ACCOUNTABLE SITE STATUS

Fibrosis

Focal, Moderate

Leukemia Mononuclear

[Angiectasis TGLS = 3-21]

[Fibrosis TGLS = 3-21]

[Leukemia Mononuclear TGLS = 2-6, 2-21]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 1-7]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 101

TRT#: 3

SEX: Male

DAY ON TEST: 526

DOSE: 350 MG/L

DISP: Moribund Sacrifice

HISTO: 00-88984

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
Lymph Node	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Epididymis		Mesothelioma Malignant	
* Eye			
Note: Missing retinal tissue of one eye is likely artifact.			
* Kidney	Renal Tubule	Nephropathy Pigmentation	Mild Moderate
[Nephropathy TGLS = 10-5]			
* Liver	Bile Duct	Cholangiofibrosis Hyperplasia Infiltration Cellular Inflammation	Moderate Moderate Mixed Cell, Moderate Chronic, Minimal
	Centrilobular, Hepatocyte Hepatocyte	Necrosis Vacuolization Cytoplasmic	Moderate Minimal
[Cholangiofibrosis TGLS = 7-24]			
Mesentery		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 3-6, 3-7, 3-21]			
Peritoneum	Tunica Vaginal	Mesothelioma Malignant Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 5-22, 11-8]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 101

TRT#: 3

SEX: Male

DAY ON TEST: 526

DOSE: 350 MG/L

DISP: Moribund Sacrifice

HISTO: 00-88984

ORGAN AND ACCOUNTABLE SITE STATUS

[Mesothelioma Malignant TGLS = 6-23]

* Preputial Gland

Inflammation

Chronic, Mild

* Prostate

Epithelium

Hyperplasia

Focal, Mild

Inflammation

Chronic, Mild

* Spleen

Hematopoietic Cell Proliferation

Moderate

* Testes

Bilateral, Interstit Cell

Adenoma

Atrophy

Moderate

Tunic

Mesothelioma Malignant

[Adenoma TGLS = 8-7]

[Atrophy TGLS = 4-7]

* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

- Mesentery Mesothelioma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 102

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93808

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Esophagus
* Eye	* Harderian Gland	* 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	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Mild
* Adrenal Medulla		Hyperplasia	Focal, Minimal
	Bilateral	Pheochromocytoma Benign	
* Epididymis		Mesothelioma Malignant	
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
	Hepatocyte	Fatty Change	Mild
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
	[Clear Cell Focus TGLS = 2-6]		
* Pancreas	Duct	Cyst	Focal, Multiple, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 3-1]		
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-7]		
* Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 102

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93808

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 103

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93809

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Cytoplasmic Alteration	Focal, Mild
* Heart		Schwannoma Benign	
[Schwannoma Benign TGLS = 6-5]			
* Kidney	Renal Tubule	Nephropathy	Mild
		Pigmentation	Mild
* Liver	Bile Duct	Degeneration	Cystic, Focal, Mild
		Hyperplasia	Moderate
		Inflammation	Chronic, Minimal
		Leukemia Mononuclear	
		Mixed Cell Focus	
[Leukemia Mononuclear TGLS = 5-6]			
Lymph Node	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-7]			
* Pancreas	Acinus	Atrophy	Focal, Mild
* Parathyroid Gland		Hyperplasia	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-1]			
* Preputial Gland		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 1-8]			
* Prostate	Epithelium	Hyperplasia	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 103

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93809

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

[Leukemia Mononuclear TGLS = 4-6]

Inflammation

Chronic, Moderate

Leukemia Mononuclear

* Testes

[Adenoma TGLS = 2-7]

Bilateral, Interstit Cell

Adenoma

* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 104

TRT#: 3

SEX: Male

DAY ON TEST: 697

DOSE: 350 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93810

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Heart | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Nose | * Parathyroid Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|--------------------------|--|---------------------------|-----------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| | Bilateral | Pheochromocytoma Benign | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Intestine Large, Cecum | | Edema | Mild |
| * Islets, Pancreatic | | Adenoma | |
| | [Adenoma TGLS = 8-7] | | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Moderate |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 5-6, 7-6] | | |
| * Lung | Alveolar Epith | Hyperplasia | Focal, Mild |
| | | Inflammation | Chronic, Focal, Mild |
| | | Leukemia Mononuclear | |
| | [Hyperplasia TGLS = 12-2] | | |
| | [Inflammation TGLS = 12-2] | | |
| | [Leukemia Mononuclear TGLS = 12-2] | | |
| Lymph Node | Mediastinal | Hyperplasia | Plasma Cell, Moderate |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Mammary Gland | | Dilatation | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 104

TRT#: 3

SEX: Male

DAY ON TEST: 697

DOSE: 350 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93810

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery [Necrosis TGLS = 10-23]	Fat	Necrosis	Focal, Moderate
* Pancreas	Acinus	Atrophy	Focal, Moderate
	Duct	Cyst	Focal, Multiple, Mild
* Pituitary Gland [Hemorrhage TGLS = 11-1]	Rathkes Cleft	Hemorrhage	Mild
* Preputial Gland		Inflammation	Chronic, Minimal
* Skin [Fibroma TGLS = 1-21]	Subcut Tiss	Fibroma	
* Spleen [Congestion TGLS = 9-22] [Fibrosis TGLS = 9-22] [Leukemia Mononuclear TGLS = 4-6, 6-6]		Congestion Fibrosis Leukemia Mononuclear	Mild Focal, Moderate
* Stomach, Forestomach [Hyperplasia TGLS = 13-24] [Inflammation TGLS = 13-24] [Ulcer TGLS = 13-24]	Epithelium	Edema Hyperplasia Inflammation Ulcer	Moderate Moderate Focal, Moderate Mild
* Testes [Adenoma TGLS = 2-7] [Atrophy TGLS = 3-7]	Bilateral, Interstit Cell	Adenoma Atrophy	Moderate
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Liver Leukemia Mononuclear		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 105

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93811

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Angiectasis	Focal, Mild
		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Inflammation	Chronic, Mild
		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Mild
[Leukemia Mononuclear TGLS = 5-6]			
Lymph Node	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-7]			
Mesentery		Inflammation	Chronic, Mild
	Fat	Necrosis	Focal, Moderate
[Inflammation TGLS = 2-21]			
[Necrosis TGLS = 2-21]			
* Pancreas	Acinus	Atrophy	Focal, Mild
	Duct	Cyst	Focal, Multiple, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 105

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93811

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLS = 6-1]	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate	Epithelium	Hyperplasia Inflammation	Focal, Minimal Chronic, Moderate
* Spleen [Leukemia Mononuclear TGLS = 4-6]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 1-7]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 106

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93812

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* 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
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Adenoma	
[Adenoma TGLS = 6-22]			
* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Bone Marrow		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Angiectasis	Focal, Mild
		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-7]			
[Leukemia Mononuclear TGLS = 7-3]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Focal, Moderate
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 106

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93812

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Hemorrhage Leukemia Mononuclear	Focal, Moderate
[Hemorrhage TGLS = 8-1] [Leukemia Mononuclear TGLS = 8-1]			
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate	Epithelium	Hyperplasia	Focal, Minimal
* Spleen		Infarct Leukemia Mononuclear	Moderate
[Infarct TGLS = 5-6-1, 5-21] [Leukemia Mononuclear TGLS = 1-6-1, 1-21]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 9-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
* Urinary Bladder	Transit Epithe	Papilloma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 107

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93813

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* 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
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Harderian Gland		Inflammation	Chronic, Focal, Mild
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Mild
[Basophilic Focus TGLS = 3-6]			
[Clear Cell Focus TGLS = 3-6]			
Lymph Node	Pancreatic	Pigmentation	Mild
[Pigmentation TGLS = 2-7]			
* Pancreas	Acinus	Atrophy	Focal, Mild
	Duct	Cyst	Focal, Multiple, Mild
* Pituitary Gland	Pars Distalis	Adenoma	

Note: Adenoma is acidophil type.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 107

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93813

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 108

TRT#: 3

SEX: Male

DAY ON TEST: 642

DOSE: 350 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93120

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Brain		Compression	Focal, Moderate
		Hydrocephalus	Moderate
	[Compression TGLS = 4-1]		
	[Hydrocephalus TGLS = 4-1]		
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
		Basophilic Focus	
		Degeneration	Cystic, Focal, Mild
* Liver	Hepatocyte	Fatty Change	Minimal
		Hepatodiaphragmatic Nodule	Moderate
	Bile Duct	Hyperplasia	Moderate
		Hyperplasia	Histiocytic, Focal, Mild
		Infiltration Cellular	Mixed Cell, Mild
		Tension Lipidosis	Moderate
	[Hepatodiaphragmatic Nodule TGLS = 2-21]		
	[Tension Lipidosis TGLS = 6-23]		
* Mammary Gland		Dilatation	Moderate
	[Dilatation TGLS = 1-8]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:40
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 108	TRT#: 3 DOSE: 350 MG/L	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 642 HISTO: 00-93120
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLS = 5-1]	Pars Distalis	Adenoma	
* Prostate		Inflammation	Chronic, Moderate
* Skin [Fibroma TGLS = 3-22] [Mineralization TGLS = 3-22]		Fibroma Mineralization	Focal, Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia Ulcer	Mild Minimal
* Testes Note: Testes were normal.			
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 109

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93814

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Bone | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * 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 | * Preputial Gland |
| * Prostate | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-------------------|----------------|--|------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Pheochromocytoma Benign | |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | Hepatocyte | Fatty Change | Minimal |
| | | Hepatocellular Adenoma | |
| | | Hepatodiaphragmatic Nodule | Moderate |
| | Bile Duct | Hyperplasia | Moderate |
| | | Inflammation | Chronic, Minimal |
| | | Leukemia Mononuclear | |
| | Hepatocyte | Vacuolization Cytoplasmic | Minimal |
| | | [Hepatocellular Adenoma TGLS = 5-6] | |
| | | [Hepatodiaphragmatic Nodule TGLS = 4-21] | |
| | | [Leukemia Mononuclear TGLS = 5-6] | |
| * Nose | Nasolacrim Dct | Inflammation | Moderate |
| * Pancreas | Acinus | Atrophy | Focal, Mild |
| * Spleen | | Leukemia Mononuclear | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 109

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93814

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 3-6]

* Testes

Bilateral, Interstit Cell

Adenoma

Atrophy

Moderate

[Adenoma TGLS = 2-7]

[Atrophy TGLS = 1-7]

* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 110

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93815

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* 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	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Brain		Compression	Focal, Moderate
[Compression TGLS = 7-1]			
* Harderian Gland	Epithelium	Hyperplasia	Focal, Minimal
		Hyperplasia	Lymphoid, Focal, Mild
		Hyperplasia	Histiocytic, Focal, Mild
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
		Basophilic Focus	
		Degeneration	Cystic, Focal, Minimal
	Hepatocyte	Fatty Change	Minimal
		Fibrosis	Focal, Mild
		Hepatocellular Adenoma	
		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
		Mixed Cell Focus	
[Hepatodiaphragmatic Nodule TGLS = 4-22]			
* Mammary Gland		Dilatation	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:40
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 110	TRT#: 3 DOSE: 350 MG/L	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 00-93815
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ORGAN AND ACCOUNTABLE SITE STATUS

[Dilatation TGLS = 1-8]			
* Pancreas	Acinus	Atrophy	Focal, Mild
	Duct	Cyst	Focal, Multiple, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-1]			
* Prostate	Epithelium	Hyperplasia	Focal, Minimal
		Inflammation	Chronic, Moderate
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 5-23]			
* Spleen		Accessory Spleen	
[Accessory Spleen TGLS = 3-21]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 111

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93816

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
		Eosinophilic Focus	
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
[Basophilic Focus TGLS = 4-6]			
[Eosinophilic Focus TGLS = 4-6]			
* Lung		Alveolar/Bronchiolar Carcinoma	
	Alveolar Epith	Hyperplasia	Focal, Minimal
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Moderate
* Pancreas	Acinus	Adenoma	
	Acinus	Atrophy	Focal, Mild
	Duct	Cyst	Focal, Multiple, Minimal
[Adenoma TGLS = 3-21]			
* Preputial Gland		Inflammation	Chronic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:40
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 111	TRT#: 3 DOSE: 350 MG/L	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 00-93816
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ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	Epithelium	Hyperplasia Inflammation	Focal, Mild Chronic, Mild
* Seminal Vesicle [Dilatation TGLS = 2-7-1]		Dilatation	Moderate
* Testes [Adenoma TGLS = 1-7]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Hyperplasia	Lymphoid, Moderate
* Thyroid Gland	C Cell C Cell	Adenoma Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 112

TRT#: 3

SEX: Male

DAY ON TEST: 605

DOSE: 350 MG/L

DISP: Moribund Sacrifice

HISTO: 00-90227

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Bone | * Epididymis | * Esophagus | * Harderian Gland |
| * 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 | Peripheral Nerve | * Prostate |
| * Seminal Vesicle | Spinal Cord | * Stomach, Forestomach | * Stomach, Glandular |
| * Trachea | * Urinary Bladder | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-------------------|--------------------------------------|----------------------|----------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Hyperplasia | Focal, Minimal |
| | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | Meninges | Leukemia Mononuclear | |
| * Eye | | Cataract | Moderate |
| | Retina | Degeneration | Moderate |
| | [Cataract TGLS = 1-44] | | |
| | [Degeneration TGLS = 1-44] | | |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| * Liver | Hepatocyte | Fatty Change | Minimal |
| | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 3-6] | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 7-7] | | |
| | [Leukemia Mononuclear TGLS = 10-3] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 112

TRT#: 3

SEX: Male

DAY ON TEST: 605

DOSE: 350 MG/L

DISP: Moribund Sacrifice

HISTO: 00-90227

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric [Leukemia Mononuclear TGLS = 8-5]		Leukemia Mononuclear	
Mesentery		Leukemia Mononuclear	
[Necrosis TGLS = 6-21]	Fat	Necrosis	Focal, Moderate
* Pancreas		Leukemia Mononuclear	
* Pituitary Gland		Leukemia Mononuclear	
* Preputial Gland		Inflammation	Chronic, Minimal
* Salivary Glands		Leukemia Mononuclear	
* Skin	Subcut Tiss	Leukemia Mononuclear	
* Spleen [Leukemia Mononuclear TGLS = 5-6]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 4-7]	Bilateral, Interstit Cell	Adenoma	
* Thymus		Leukemia Mononuclear	
* Thyroid Gland Tissue NOS	C Cell Mediastinum	Hyperplasia Leukemia Mononuclear	Minimal
PRIMARY CAUSE OF DEATH	- Liver	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 113

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 350 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93817

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Epididymis	* Esophagus
* Harderian Gland	* 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
Peripheral Nerve	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	Spinal Cord	* Spleen	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Brain		Compression	Focal, Moderate
[Compression TGLS = 5-1]			
* Eye		Cataract	Mild
[Cataract TGLS = 4-44]	Retina	Degeneration	Mild
[Degeneration TGLS = 4-44]			
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Mild
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
		Mixed Cell Focus	
[Mixed Cell Focus TGLS = 7-22]			
Lymph Node	Pancreatic	Ectasia	Moderate
[Ectasia TGLS = 2-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 113

TRT#: 3

SEX: Male

DAY ON TEST: 727

DOSE: 350 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93817

ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland [Dilatation TGLS = 1-21]		Dilatation	Moderate
* Pancreas	Acinus	Adenoma	
	Acinus	Atrophy	Focal, Mild
	Duct	Cyst	Focal, Multiple, Mild
* Pituitary Gland [Adenoma TGLS = 6-1]	Pars Distalis	Adenoma	
* Prostate		Inflammation	Chronic, Moderate
* Stomach, Forestomach		Edema	Moderate
	Epithelium	Hyperplasia	Moderate
		Inflammation	Chronic, Diffuse, Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Mild
Tongue [Hyperplasia TGLS = 8-23]	Epithelium	Hyperplasia	Focal, Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 114

TRT#: 3

SEX: Male

DAY ON TEST: 735

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93818

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lung
* Nose	* Parathyroid Gland	* Pituitary Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
[Clear Cell Focus TGLS = 4-6]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 2-22]			
* Mammary Gland		Dilatation	Minimal
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 1-21]			
* Pancreas	Acinus	Atrophy	Focal, Moderate
* Prostate	Epithelium	Hyperplasia	Focal, Minimal
		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 114

TRT#: 3

SEX: Male

DAY ON TEST: 735

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93818

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:40
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 115	TRT#: 3 DOSE: 350 MG/L	SEX: Male DISP: Natural Death	DAY ON TEST: 703 HISTO: 00-93819
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ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland [Dilatation TGLS = 1-8]		Dilatation	Moderate
* Pituitary Gland [Adenoma TGLS = 3-1]	Pars Distalis	Adenoma	
* Prostate	Epithelium	Hyperplasia Inflammation	Focal, Minimal Chronic, Moderate
* Testes Zymbal's Gland [Adenoma TGLS = 4-21, 4-21-1]	Interstit Cell	Hyperplasia Adenoma	Focal, Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 116

TRT#: 3

SEX: Male

DAY ON TEST: 669

DOSE: 350 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93121

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Harderian Gland	* 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	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Eye	Retina	Degeneration	Marked
		Inflammation	Chronic, Moderate
Note: Cornea and lens are missing from ruptured left eye (TGL 6-44). [Degeneration TGLS = 6-44] [Inflammation TGLS = 6-44]			
* Kidney		Nephropathy	Mild
* Liver		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Mild
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
Oral Mucosa	Gingival	Squamous Cell Carcinoma	
Note: Apparent origin of squamous cell carcinoma (slide 9-1) is gingival squamous epithelium, with extension to other nearby tissues.			
* Pancreas	Acinus	Atrophy	Focal, Mild
	Duct	Cyst	Focal, Multiple, Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 116

TRT#: 3

SEX: Male

DAY ON TEST: 669

DOSE: 350 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93121

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma Atrophy	Moderate
[Adenoma TGLS = 3-7] [Atrophy TGLS = 4-7]			
* Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	- Eye Inflammation		
CONTRIBUTORY CAUSE OF DEATH	- Oral Mucosa Gingival Squamous Cell Carcinoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 117

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93820

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
[Basophilic Focus TGLS = 5-6]			
[Clear Cell Focus TGLS = 5-6]			
* Mammary Gland		Fibroadenoma	
[Fibroadenoma TGLS = 1-21]			
Mesentery		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 3-23]			
* Pancreas	Acinus	Atrophy	Focal, Mild
	Duct	Cyst	Focal, Multiple, Mild
Peritoneum	Tunica Vaginal	Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 2-22]			
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 117

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93820

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 4-1]

* Preputial Gland

Inflammation

Chronic, Mild

* Prostate

Epithelium

Hyperplasia

Focal, Mild

* Testes

Bilateral, Interstit Cell

Inflammation

Chronic, Mild

* Thyroid Gland

C Cell

Adenoma

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 118

TRT#: 3

SEX: Male

DAY ON TEST: 721

DOSE: 350 MG/L

DISP: Natural Death

HISTO: 00-93821

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------|-------------------|--------------------------|---------------------------|
| * Bone | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Islets, Pancreatic | * Mammary Gland | * Nose | * Parathyroid Gland |
| * Pituitary Gland | * Preputial Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Stomach, Forestomach | * Stomach, Glandular |
| * Thymus | * Trachea | * Urinary Bladder | |

MISSING

- * Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

- | | | | |
|--------------------------|-----------------------------|--------------------------|----------------------------|
| * Intestine Large, Cecum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Thyroid Gland | | | |

OBSERVATIONS

- | | | | |
|--------------------------|--|----------------------------|----------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Hyperplasia | Mild |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Hepatodiaphragmatic Nodule | Minimal |
| | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | [Hepatodiaphragmatic Nodule TGLS = 4-21] | | |
| | [Leukemia Mononuclear TGLS = 6-6] | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Pancreatic | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 3-7] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 5-5] | | |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 118

TRT#: 3

SEX: Male

DAY ON TEST: 721

DOSE: 350 MG/L

DISP: Natural Death

HISTO: 00-93821

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 2-6]	Duct	Cyst Leukemia Mononuclear	Focal, Multiple, Minimal
* Testes [Adenoma TGLS = 1-7]	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Liver Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 119

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93822

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Angiectasis	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Metaplasia	Osseous, Focal, Mild
		Nephropathy	Mild
* Liver		Angiectasis	Focal, Mild
		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Minimal
		Eosinophilic Focus	
	Hepatocyte	Fatty Change	Mild
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Mixed Cell Focus	
[Mixed Cell Focus TGLS = 2-21]			
Lymph Node	Mediastinal	Hyperplasia	Plasma Cell, Moderate
[Hyperplasia TGLS = 3-3]			
* Pancreas	Acinus	Atrophy	Focal, Mild
	Duct	Cyst	Focal, Multiple, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 119

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93822

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Focal, Minimal
		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 4-22]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 120

TRT#: 3

SEX: Male

DAY ON TEST: 430

DOSE: 350 MG/L

DISP: Natural Death

HISTO: 00-88371

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum * Intestine Small, Ileum

OBSERVATIONS

* Brain		Compression	Focal, Moderate
	Pineal Gland	Vacuolization Cytoplasmic	Moderate
	[Compression TGLS = 2-1-1]		
	[Vacuolization Cytoplasmic TGLS = 3-21]		
* Kidney		Nephropathy	Minimal
* Liver		Hepatodiaphragmatic Nodule	Moderate
	Bile Duct	Hyperplasia	Mild
	[Hepatodiaphragmatic Nodule TGLS = 4-22]	Infiltration Cellular	Mixed Cell, Mild
* Mammary Gland		Ectasia	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 1-1]		
* Prostate		Inflammation	Chronic, Mild
* Thyroid Gland		Hemorrhage	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 121

TRT#: 3

SEX: Male

DAY ON TEST: 628

DOSE: 350 MG/L

DISP: Natural Death

HISTO: 00-90932

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Brain	* Epididymis	* Esophagus
* Harderian Gland	* Intestine Small, Duodenum	* Islets, Pancreatic	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Bone Marrow	* Eye	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Thyroid Gland

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Bone		Chordoma	
[Chordoma TGLS = 5-21, 5-22]			
* Heart		Cardiomyopathy	Mild
* Kidney	Pelvis	Dilatation	Moderate
[Dilatation TGLS = 3-5]		Nephropathy	Mild
* Liver	Hepatocyte	Degeneration	Cystic, Focal, Mild
	Bile Duct	Fatty Change	Mild
		Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Marked
* Seminal Vesicle		Inflammation	Chronic, Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Urinary Bladder		Hemorrhage	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 121

TRT#: 3

SEX: Male

DAY ON TEST: 628

DOSE: 350 MG/L

DISP: Natural Death

HISTO: 00-90932

ORGAN AND ACCOUNTABLE SITE STATUS

Inflammation

Chronic, Moderate

[Hemorrhage TGLS = 1-8]

PRIMARY CAUSE OF DEATH

- Bone Chordoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 122

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93823

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Harderian Gland	* 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	* Prostate	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Brain		Compression	Focal, Moderate
[Compression TGLS = 7-1, 7-21]			
* Eye		Cataract	Moderate
	Retina	Degeneration	Moderate
[Cataract TGLS = 1-44]			
[Degeneration TGLS = 1-44]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
Lymph Node	Mediastinal	Ectasia	Moderate
[Ectasia TGLS = 6-3]			
* Mammary Gland		Dilatation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-1]			
* Preputial Gland		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:40
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 122	TRT#: 3	SEX: Male	DAY ON TEST: 731
	DOSE: 350 MG/L	DISP: Terminal Sacrifice	HISTO: 00-93823

ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLS = 9-8]			
* Skin		Fibroma	
[Fibroma TGLS = 10-22]			
* Testes	Interstit Cell	Hyperplasia	Minimal
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 123

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93824

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* 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
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Necrosis	Focal, Moderate
* Adrenal Medulla		Leukemia Mononuclear Necrosis	Focal, Mild
* Bone Marrow		Hyperplasia	Moderate
* Heart		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear Nephropathy	Mild
* Liver	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hepatodiaphragmatic Nodule Hyperplasia	Moderate Moderate
	Hepatocyte	Leukemia Mononuclear Vacuolization Cytoplasmic	Mild
	[Hepatodiaphragmatic Nodule TGLS = 4-21]		
	[Leukemia Mononuclear TGLS = 5-6]		
* Lung		Hemorrhage Leukemia Mononuclear	Focal, Minimal
	[Hemorrhage TGLS = 6-22]		
Lymph Node	Pancreatic	Ectasia	Moderate
	[Ectasia TGLS = 2-7]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 123

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93824

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland [Cyst TGLS = 7-1]	Pars Distalis	Cyst	Mild
* Preputial Gland [Inflammation TGLS = 8-8]		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia Inflammation	Focal, Mild Chronic, Minimal
* Spleen [Leukemia Mononuclear TGLS = 3-6]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 1-7]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell C Cell	Adenoma Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 124

TRT#: 3

SEX: Male

DAY ON TEST: 649

DOSE: 350 MG/L

DISP: Natural Death

HISTO: 00-93122

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* Intestine Small, Duodenum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Eye	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Spleen	* Thyroid Gland

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver	Hepatocyte	Fatty Change	Marked
	Bile Duct	Hepatodiaphragmatic Nodule	Mild
		Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Minimal
	[Fatty Change TGLS = 2-6]		
	[Hepatodiaphragmatic Nodule TGLS = 7-22]		
* Lung	Alveolar Epith	Hyperplasia	Focal, Mild
	[Hyperplasia TGLS = 8-2]		
* Mammary Gland		Dilatation	Mild
	[Dilatation TGLS = 4-8]		
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 6-1]		
* Prostate		Inflammation	Chronic, Moderate
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 5-21]		
* Stomach, Forestomach	Epithelium	Hyperplasia	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:40
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 124

TRT#: 3

SEX: Male

DAY ON TEST: 649

DOSE: 350 MG/L

DISP: Natural Death

HISTO: 00-93122

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

Bilateral, Interstit Cell

Inflammation

Diffuse, Mild

[Adenoma TGLS = 3-7]

Adenoma

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 125

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93825

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia Pheochromocytoma Benign	Focal, Minimal
* Brain		Compression	Focal, Moderate
[Compression TGLS = 6-1]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus Clear Cell Focus Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hepatodiaphragmatic Nodule	Moderate
		Hyperplasia	Moderate
		Inflammation	Chronic, Minimal
	Hepatocyte	Leukemia Mononuclear	
[Hepatodiaphragmatic Nodule TGLS = 5-21]		Vacuolization Cytoplasmic	Mild
* Lung		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-1]			
* Preputial Gland		Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:40
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 125	TRT#: 3 DOSE: 350 MG/L	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 729 HISTO: 00-93825
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ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-8]		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
[Inflammation TGLS = 8-7-1]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Testes	Bilateral, Interstit Cell	Adenoma Atrophy	Moderate
[Adenoma TGLS = 2-7]			
[Atrophy TGLS = 3-7]			
* Thyroid Gland	C Cell Follicular Cel	Hyperplasia Hyperplasia	Minimal Cystic, Focal, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:40

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 126

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93826

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Harderian Gland	* 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	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Eye	Retina	Cataract	Moderate
		Degeneration	Moderate
	[Cataract TGLS = 4-44]		
	[Degeneration TGLS = 4-44]		
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
	[Clear Cell Focus TGLS = 5-6]		
* Lung	Alveolar Epith	Hyperplasia	Focal, Minimal
	[Hyperplasia TGLS = 6-21]		
Lymph Node	Pancreatic	Hemorrhage	Moderate
	[Hemorrhage TGLS = 2-7]		
* Pancreas	Acinus	Adenoma	Multiple

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 126

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93826

ORGAN AND ACCOUNTABLE SITE STATUS

Acinus

Atrophy

Focal, Minimal

Duct

Cyst

Focal, Multiple, Minimal

Note: Slides 4 and 7 each contain a pancreatic acinar-cell adenoma.

* Preputial Gland

Inflammation

Chronic, Minimal

* Prostate

Epithelium

Hyperplasia

Focal, Mild

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 1-7]

* Thyroid Gland

C Cell

Adenoma

Mild

C Cell

Hyperplasia

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 127

TRT#: 3

SEX: Male

DAY ON TEST: 722

DOSE: 350 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93827

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
* Pancreas	* Parathyroid Gland	Peripheral Nerve	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	Spinal Cord
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Brain		Compression	Focal, Moderate
[Compression TGLS = 6-1]			
* Kidney		Nephropathy	Mild
* Liver	Hepatocyte	Fatty Change	Moderate
	Bile Duct	Hepatodiaphragmatic Nodule	Moderate
		Hyperplasia	Minimal
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Mild
[Hepatodiaphragmatic Nodule TGLS = 5-21]			
[Hyperplasia TGLS = 4-6]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-3]			
* Lymph Node, Mandibular		Leukemia Mononuclear	
Note: Mandibular lymph node is on slide 8.			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Dilatation	Mild
* Nose	Nasolacrim Dct	Inflammation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-1]			
* Prostate		Inflammation	Chronic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 127

TRT#: 3

SEX: Male

DAY ON TEST: 722

DOSE: 350 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93827

ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLS = 3-7-1]

* Spleen

Leukemia Mononuclear

* Testes

Bilateral, Interstit Cell

Adenoma

Atrophy

Moderate

[Adenoma TGLS = 1-7]

[Atrophy TGLS = 2-7]

* Thyroid Gland

C Cell

Adenoma

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

- Liver Infiltration Cellular

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 128

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93828

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Minimal
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
		Inflammation	Chronic, Minimal
* Preputial Gland			
* Testes	Bilateral, Interstit Cell	Adenoma	
		[Adenoma TGLS = 1-7]	
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 129

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93829

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Malignant	
[Pheochromocytoma Malignant TGLS = 8-25]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Minimal
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Minimal
		Inflammation	Chronic, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild
[Vacuolization Cytoplasmic TGLS = 10-6]			
Lymph Node	Mediastinal	Ectasia	Moderate
	Pancreatic	Leukemia Mononuclear	
[Ectasia TGLS = 11-3]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas	Acinus	Adenoma	
		Cyst	Moderate

Note: Acinar-cell adenoma is on slide 4.

Note: Pancreatic cyst is in interstitium of pancreas and apparently is not a cyst of pancreatic duct.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:41
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 129	TRT#: 3	SEX: Male	DAY ON TEST: 729
	DOSE: 350 MG/L	DISP: Terminal Sacrifice	HISTO: 00-93829

ORGAN AND ACCOUNTABLE SITE STATUS

[Cyst TGLS = 7-7]			
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Cytoplasmic Alteration	Focal, Mild
* Prostate	Epithelium	Hyperplasia	Focal, Minimal
		Inflammation	Chronic, Minimal
* Skin	Subcut Tiss	Basal Cell Adenoma	
	Subcut Tiss	Cyst Epithelial Inclusion	Mild
	Subcut Tiss	Fibroma	Multiple
	Subcut Tiss	Hemorrhage	Focal, Moderate
	Epidermis, Subcut Tiss	Hyperplasia	Focal, Mild
	Subcut Tiss	Inflammation	Granulomatous, Focal, Mild
		Keratoacanthoma	
[Basal Cell Adenoma TGLS = 1-21]			
[Cyst Epithelial Inclusion TGLS = 2-22]			
[Fibroma TGLS = 3-23, 4-24]			
[Hemorrhage TGLS = 2-22]			
[Hyperplasia TGLS = 2-22]			
[Inflammation TGLS = 2-22]			
[Keratoacanthoma TGLS = 9-26]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 6-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 130

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93830

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * 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 |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Stomach, Forestomach |
| * Stomach, Glandular | * Trachea | * Urinary Bladder | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|--------------------------|-------------------------------------|----------------------|------------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Bone Marrow | | Hyperplasia | Marked |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Degeneration | Cystic, Focal, Minimal |
| | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 4-6] | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Mediastinal | Hyperplasia | Plasma Cell, Marked |
| | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 2-7] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| * Prostate | Epithelium | Hyperplasia | Focal, Minimal |
| | | Inflammation | Chronic, Minimal |
| * Spleen | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 3-6] | | |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| | [Adenoma TGLS = 1-7] | | |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 130

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93830

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus

Leukemia Mononuclear

* Thyroid Gland

C Cell

Hyperplasia

Mild

Follicular Cel

Hyperplasia

Cystic, Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 131

TRT#: 3

SEX: Male

DAY ON TEST: 669

DOSE: 350 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93123

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Brain		Compression	Focal, Moderate
[Compression TGLS = 2-1]			
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Minimal
		Inflammation	Chronic, Minimal
		Mixed Cell Focus	
Lymph Node	Mediastinal	Hemorrhage	Moderate
[Hemorrhage TGLS = 5-3]			
* Mammary Gland		Atypia Cellular	Focal, Mild
		Dilatation	Marked
		Fibroadenoma	
[Atypia Cellular TGLS = 1-22]			
[Dilatation TGLS = 1-22]			
[Fibroadenoma TGLS = 1-22]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-1]			
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate	Epithelium	Hyperplasia	Focal, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 131

TRT#: 3

SEX: Male

DAY ON TEST: 669

DOSE: 350 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93123

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin

[Inflammation TGLS = 4-21]

Inflammation

Chronic, Mild

Inflammation

Chronic, Focal, Moderate

* Testes

Interstit Cell

Hyperplasia

Focal, Mild

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 132

TRT#: 3

SEX: Male

DAY ON TEST: 633

DOSE: 350 MG/L

DISP: Moribund Sacrifice

HISTO: 00-90933

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Cytoplasmic Alteration	Focal, Minimal
* Brain		Compression	Focal, Moderate
		Hydrocephalus	Moderate
[Compression TGLS = 7-1]			
[Hydrocephalus TGLS = 7-1]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
[Nephropathy TGLS = 5-6]			
* Liver	Hepatocyte	Fatty Change	Marked
	Bile Duct	Hyperplasia	Mild
* Mammary Gland		Dilatation	Marked
[Dilatation TGLS = 1-21]			
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 3-22]			
* Pancreas	Acinus	Atrophy	Focal, Minimal
	Duct	Cyst	Focal, Multiple, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 8-1]			
* Prostate		Inflammation	Chronic, Moderate
* Spleen		Pigmentation	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:41
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 132	TRT#: 3	SEX: Male	DAY ON TEST: 633
	DOSE: 350 MG/L	DISP: Moribund Sacrifice	HISTO: 00-90933

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach		Edema	Moderate
		Inflammation	Diffuse, Mild
		Ulcer	Moderate
[Ulcer TGLS = 6-4]			
* Testes	Bilateral	Atrophy	Moderate
[Atrophy TGLS = 4-7]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Cystic, Focal, Mild
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 133

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93831

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Hepatocyte	Fatty Change	Minimal
		Hepatocellular Adenoma	
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Minimal
		Inflammation	Chronic, Mild
[Hepatocellular Adenoma TGLS = 1-21]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 134

TRT#: 3

DOSE: 350 MG/L

SEX: Male

DISP: Terminal Sacrifice

DAY ON TEST: 731

HISTO: 00-93832

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Cytoplasmic Alteration	Focal, Mild
* Adrenal Medulla		Hyperplasia	Focal, Mild
* Brain		Compression	Focal, Moderate
	Cerebellum	Hemorrhage	Focal, Minimal
	[Compression TGLS = 6-1, 6-22]		
	[Hemorrhage TGLS = 7-1]		
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Degeneration	Cystic, Focal, Minimal
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
		Mixed Cell Focus	
* Lung		Hemorrhage	Focal, Mild
	Alveolar Epith	Hyperplasia	Focal, Mild
	[Hemorrhage TGLS = 9-2]		
	[Hyperplasia TGLS = 9-2]		
Lymph Node	Mediastinal	Ectasia	Moderate
	Mediastinal	Hyperplasia	Plasma Cell, Moderate
	[Ectasia TGLS = 4-3]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 134

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93832

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 4-3]

* Mammary Gland

Dilatation

Moderate

* Nose

Inflammation

Suppurative, Minimal

* Pancreas

Acinus

Atrophy

Focal, Mild

Duct

Cyst

Focal, Multiple, Minimal

* Pituitary Gland

Pars Distalis

Adenoma

[Adenoma TGLS = 5-1]

* Preputial Gland

Inflammation

Chronic, Minimal

* Prostate

Epithelium

Hyperplasia

Focal, Mild

Inflammation

Chronic, Moderate

[Hyperplasia TGLS = 8-7-1]

[Inflammation TGLS = 8-7-1]

* Skin

Subcut Tiss

Lipoma

[Lipoma TGLS = 1-21]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 2-7]

* Thyroid Gland

C Cell

Adenoma

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 135

TRT#: 3

SEX: Male

DAY ON TEST: 665

DOSE: 350 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93124

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Focal, Minimal
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-9]			
* Brain		Hemorrhage	Focal, Moderate
		Leukemia Mononuclear	
[Hemorrhage TGLS = 5-1]			
[Leukemia Mononuclear TGLS = 5-1]			
* Heart		Fibrosis	Focal, Mild
		Leukemia Mononuclear	
* Kidney		Infarct	Moderate
		Leukemia Mononuclear	
		Nephropathy	Minimal
[Infarct TGLS = 2-5]			
* Liver	Hepatocyte	Fatty Change	Moderate
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Mild
[Leukemia Mononuclear TGLS = 3-6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 135

TRT#: 3

SEX: Male

DAY ON TEST: 665

DOSE: 350 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93124

ORGAN AND ACCOUNTABLE SITE STATUS

[Vacuolization Cytoplasmic TGLS = 3-6]

* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	

[Leukemia Mononuclear TGLS = 4-3]

* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery		Leukemia Mononuclear	
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate	Epithelium	Hyperplasia	Focal, Minimal
* Spleen		Leukemia Mononuclear	

[Leukemia Mononuclear TGLS = 1-6]

* Stomach, Forestomach		Inflammation	Focal, Mild
* Testes	Interstit Cell	Adenoma	
	Interstit Cell	Hyperplasia	Focal, Mild

[Adenoma TGLS = 6-7]

* Thyroid Gland	C Cell	Hyperplasia	Mild
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PRIMARY CAUSE OF DEATH - Liver Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 136

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93833

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Hepatocyte	Fatty Change	Mild
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
		[Adenoma TGLS = 1-7]	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
	Follicular Cel	Hyperplasia	Cystic, Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 137

TRT#: 3

SEX: Male

DAY ON TEST: 735

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93834

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Angiectasis	Focal, Mild
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Minimal
		Eosinophilic Focus	
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
		[Clear Cell Focus TGLS = 2-6]	
		[Eosinophilic Focus TGLS = 2-6]	
* Pancreas	Acinus	Atrophy	Focal, Minimal
	Duct	Cyst	Focal, Multiple, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 137

TRT#: 3

SEX: Male

DAY ON TEST: 735

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93834

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 1-7]

* Thyroid Gland

C Cell

Adenoma

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 138

TRT#: 3

SEX: Male

DAY ON TEST: 735

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93835

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Mild
* Brain		Compression	Focal, Moderate
[Compression TGLS = 8-1]			
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Minimal
		Inflammation	Chronic, Mild
		Mixed Cell Focus	
[Mixed Cell Focus TGLS = 3-21]			
* Lung	C Cell	Carcinoma	Metastatic (Thyroid Gland)
	Alveolar Epith	Hyperplasia	Focal, Minimal
[Carcinoma TGLS = 7-2]			
Lymph Node	Pancreatic	Hemorrhage	Mild
	Mediastinal	Hyperplasia	Plasma Cell, Moderate
[Hemorrhage TGLS = 2-7]			
[Hyperplasia TGLS = 5-3]			
* Mammary Gland		Dilatation	Minimal
* Nose		Inflammation	Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 138

TRT#: 3

SEX: Male

DAY ON TEST: 735

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93835

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Atrophy	Focal, Moderate
* Pituitary Gland [Adenoma TGLS = 6-1]	Pars Distalis	Adenoma	
* Prostate	Epithelium	Hyperplasia Inflammation	Focal, Mild Chronic, Mild
* Stomach, Forestomach [Squamous Cell Papilloma TGLS = 9-22]		Squamous Cell Papilloma	
* Testes [Adenoma TGLS = 1-7]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland [Carcinoma TGLS = 4-3]	C Cell C Cell	Carcinoma Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 139

TRT#: 3

SEX: Male

DAY ON TEST: 561

DOSE: 350 MG/L

DISP: Moribund Sacrifice

HISTO: 00-89671

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Bone | * Brain | * Epididymis | * Esophagus |
| * Eye | * Harderian Gland | * 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 |
| * Preputial Gland | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|--------------------------|-------------------------------------|----------------------|----------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| | | Nephropathy | Minimal |
| | Renal Tubule | Pigmentation | Moderate |
| * Liver | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 6-6] | | |
| * Lung | | Leukemia Mononuclear | |
| Lymph Node | Mediastinal | Leukemia Mononuclear | |
| | Pancreatic | Leukemia Mononuclear | |
| | [Leukemia Mononuclear TGLS = 5-7] | | |
| | [Leukemia Mononuclear TGLS = 7-3] | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| Mesentery | | Leukemia Mononuclear | |
| * Pancreas | Acinus | Atrophy | Focal, Minimal |
| * Pituitary Gland | Pars Distalis | Cyst | Minimal |
| * Prostate | Epithelium | Hyperplasia | Focal, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 139

TRT#: 3

SEX: Male

DAY ON TEST: 561

DOSE: 350 MG/L

DISP: Moribund Sacrifice

HISTO: 00-89671

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen

[Leukemia Mononuclear TGLS = 2-6-1]

Inflammation

Chronic, Minimal

Leukemia Mononuclear

* Testes

Bilateral, Interstit Cell

Adenoma

Atrophy

Moderate

[Adenoma TGLS = 4-7]

[Atrophy TGLS = 3-7]

* Thymus

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

- Liver Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 140

TRT#: 3

SEX: Male

DAY ON TEST: 735

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93836

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Minimal
		Inflammation	Chronic, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-1]			
* Preputial Gland		Degeneration	Cystic, Moderate
[Degeneration TGLS = 2-8]			
* Prostate	Epithelium	Hyperplasia	Focal, Mild
		Inflammation	Chronic, Minimal
* Skin		Keratoacanthoma	
[Keratoacanthoma TGLS = 1-21]			
* Thyroid Gland	Follicular Cel	Adenoma	
	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 140

TRT#: 3

SEX: Male

DAY ON TEST: 735

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93836

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 141

TRT#: 3

SEX: Male

DAY ON TEST: 735

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93837

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Mammary Gland
--------------------------	-----------------

OBSERVATIONS

* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
	Hepatocyte	Fatty Change	Minimal
		Hepatodiaphragmatic Nodule	Mild
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild
	[Hepatodiaphragmatic Nodule TGLS = 2-21]		
* Preputial Gland		Inflammation	Chronic, Minimal
* Stomach, Glandular		Atypia Cellular	Focal, Mild
		Note: Focal cellular atypia (TGL 3-22) might be artifact (local physical damage to stomach mucosa at time of necropsy), rather than being an actual lesion.	
	[Atypia Cellular TGLS = 3-22]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-7]		
* Thyroid Gland	Bilateral, C Cell	Adenoma	
	C Cell	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 141

TRT#: 3

SEX: Male

DAY ON TEST: 735

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93837

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 142

TRT#: 3

SEX: Male

DAY ON TEST: 735

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93838

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Harderian Gland |
| * 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 | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Testes | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|-------------------|--|----------------------------|---------------------|
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| | | Pheochromocytoma Benign | |
| Ear | Pinna | Neural Crest Tumor | |
| | [Neural Crest Tumor TGLS = 2-21] | | |
| * Heart | | Cardiomyopathy | Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Basophilic Focus | |
| | | Clear Cell Focus | |
| | | Degeneration | Cystic, Focal, Mild |
| | Hepatocyte | Fatty Change | Minimal |
| | | Hepatodiaphragmatic Nodule | Mild |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Minimal |
| | | Inflammation | Chronic, Minimal |
| | Hepatocyte | Vacuolization Cytoplasmic | Minimal |
| | [Hepatodiaphragmatic Nodule TGLS = 4-22] | | |
| * Lung | | Congestion | Moderate |
| | [Congestion TGLS = 5-2] | | |
| * Mammary Gland | | Dilatation | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:41
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 142	TRT#: 3	SEX: Male	DAY ON TEST: 735
	DOSE: 350 MG/L	DISP: Terminal Sacrifice	HISTO: 00-93838

ORGAN AND ACCOUNTABLE SITE STATUS

[Dilatation TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-1]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Focal, Moderate
		Inflammation	Chronic, Mild
[Inflammation TGLS = 3-7-1]			
* Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 143

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93839

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Harderian Gland	* 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	Peripheral Nerve
* Prostate	* Salivary Glands	* Seminal Vesicle	Spinal Cord
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Mild
* Eye	Retina	Cataract Degeneration	Moderate Moderate
	[Cataract TGLS = 3-44]		
	[Degeneration TGLS = 3-44]		
* Kidney		Nephropathy	Mild
* Liver	Hepatocyte	Clear Cell Focus	
	Bile Duct	Fatty Change	Mild
		Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Minimal
		Inflammation	Chronic, Mild
		Mixed Cell Focus	
	Hepatocyte	Vacuolization Cytoplasmic	Mild
* Lung	Alveolar Epith	Hyperplasia	Focal, Minimal
* Nose		Inflammation	Suppurative, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
	[Fibroma TGLS = 1-21]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:41
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 143

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93839

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 2-7]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 144

TRT#: 3

SEX: Male

DAY ON TEST: 548

DOSE: 350 MG/L

DISP: Natural Death

HISTO: 00-89538

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Nose	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Thyroid Gland

OBSERVATIONS

* Brain		Compression	Focal, Marked
[Compression TGLS = 5-1-1]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hepatodiaphragmatic Nodule	Moderate
		Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
[Hepatodiaphragmatic Nodule TGLS = 9-22]			
* Lung		Alveolar/Bronchiolar Carcinoma	
		Congestion	Moderate
Note: Adenoma (TGL 8-2-1) shows squamous metaplasia.			
[Alveolar/Bronchiolar Carcinoma TGLS = 8-2-1]			
[Congestion TGLS = 3-2]			
Lymph Node	Mediastinal	Hyperplasia	Histiocytic, Moderate
	Mediastinal	Hyperplasia	Plasma Cell, Moderate
[Hyperplasia TGLS = 4-3]			
[Hyperplasia TGLS = 4-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:41
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 144	TRT#: 3 DOSE: 350 MG/L	SEX: Male DISP: Natural Death	DAY ON TEST: 548 HISTO: 00-89538
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ORGAN AND ACCOUNTABLE SITE STATUS

* Mammary Gland [Dilatation TGLS = 1-8]		Dilatation	Mild
Mesentery [Necrosis TGLS = 2-21]	Fat	Necrosis	Focal, Mild
* Pancreas	Acinus	Atrophy	Focal, Minimal
	Duct	Cyst	Focal, Multiple, Minimal
* Pituitary Gland [Adenoma TGLS = 6-1, 6-1-1]	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Moderate
* Testes Note: Testes are normal.			
* Thymus		Hemorrhage	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 145

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93840

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Brain		Compression	Focal, Moderate
[Compression TGLS = 5-1]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
	Renal Tubule	Pigmentation	Mild
* Liver		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Minimal
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Mild
		Mixed Cell Focus	
* Lung	Hepatocyte	Vacuolization Cytoplasmic	Mild
	Alveolar Epith	Hyperplasia	Focal, Mild
		Inflammation	Chronic, Focal, Mild
[Hyperplasia TGLS = 7-2]			
[Inflammation TGLS = 7-2]			
* Mammary Gland		Hyperplasia	Mild
[Hyperplasia TGLS = 1-8, 1-21]			
* Pancreas	Duct	Cyst	Focal, Multiple, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:41
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 145	TRT#: 3	SEX: Male	DAY ON TEST: 730
	DOSE: 350 MG/L	DISP: Terminal Sacrifice	HISTO: 00-93840

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 6-1]			
* Preputial Gland		Adenoma Inflammation	Chronic, Mild
[Adenoma TGLS = 2-21]			
* Prostate	Epithelium	Hyperplasia Inflammation	Focal, Mild Chronic, Moderate
* Testes	Bilateral, Interstit Cell	Adenoma Atrophy	Moderate
[Adenoma TGLS = 4-7]			
[Atrophy TGLS = 3-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 146

TRT#: 3

SEX: Male

DAY ON TEST: 691

DOSE: 350 MG/L

DISP: Natural Death

HISTO: 00-93841

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Heart
* Islets, Pancreatic	* Mammary Gland	* Nose	* Parathyroid Gland
* Trachea			

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Thyroid Gland		

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Epididymis		Leukemia Mononuclear	
* Eye	Retrobulbar	Leukemia Mononuclear	
* Harderian Gland		Leukemia Mononuclear	
* Intestine Small, Jejunum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
* Liver	Hepatocyte	Fatty Change	Mild
	Bile Duct	Hyperplasia	Moderate
	Hepatocyte	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-6, 5-6]	Vacuolization Cytoplasmic	Mild
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 9-2]		
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 1-21]		
	[Leukemia Mononuclear TGLS = 10-3, 10-23]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 2-22]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 146

TRT#: 3

SEX: Male

DAY ON TEST: 691

DOSE: 350 MG/L

DISP: Natural Death

HISTO: 00-93841

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-21, 2-22]			
* Pancreas		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-21]			
* Pituitary Gland		Leukemia Mononuclear	
* Preputial Gland		Leukemia Mononuclear	
* Prostate		Leukemia Mononuclear	
* Salivary Glands		Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	
* Skin	Subcut Tiss	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 7-8]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-24]			
* Stomach, Forestomach		Leukemia Mononuclear	
		Ulcer	Mild
[Leukemia Mononuclear TGLS = 8-4]			
[Ulcer TGLS = 8-4]			
* Stomach, Glandular		Erosion	Moderate
		Leukemia Mononuclear	
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 6-7]			
* Thymus		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 11-23]			
Tissue NOS	Mediastinum	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-3, 10-23]			
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Liver Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 147

TRT#: 3

SEX: Male

DAY ON TEST: 709

DOSE: 350 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93842

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Harderian Gland
* 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	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Eye		Cataract	Moderate
	Retina	Degeneration	Moderate
	[Cataract TGLS = 7-44]		
	[Degeneration TGLS = 7-44]		
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Degeneration	Cystic, Focal, Mild
		Eosinophilic Focus	
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
Lymph Node	Pancreatic	Ectasia	Moderate
	[Ectasia TGLS = 5-7]		
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	Multiple
	[Fibroma TGLS = 1-21, 2-22]		
* Spleen		Hematopoietic Cell Proliferation	Mild
	[Hematopoietic Cell Proliferation TGLS = 3-6]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 147

TRT#: 3

SEX: Male

DAY ON TEST: 709

DOSE: 350 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93842

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 4-7]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland [Adenoma TGLS = 6-3]	C Cell C Cell	Adenoma Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 148

TRT#: 3

SEX: Male

DAY ON TEST: 667

DOSE: 350 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93125

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* 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	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Harderian Gland		Adenoma	
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Carcinoma	
[Carcinoma TGLS = 3-7]			
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
		Mixed Cell Focus	
* Mammary Gland		Dilatation	Mild
Mesentery	Fat	Necrosis	Focal, Mild
[Necrosis TGLS = 1-21]			
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-1]			
* Preputial Gland		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:41
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 148	TRT#: 3 DOSE: 350 MG/L	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 667 HISTO: 00-93125
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ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate [Inflammation TGLS = 5-7-1]	Epithelium	Hyperplasia Inflammation	Focal, Mild Chronic, Mild
* Testes [Adenoma TGLS = 2-7]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 149

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93843

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Pancreas	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Focal, Minimal
		Leukemia Mononuclear	
		Pheochromocytoma Benign	
* Bone Marrow		Hyperplasia	Marked
* Heart		Cardiomyopathy	Mild
* Intestine Large, Rectum		Polyp Adenomatous	
[Polyp Adenomatous TGLS = 8-22]			
* Kidney		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-6]			
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-7]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-5]			
* Mammary Gland		Hyperplasia	Mild
Mesentery		Leukemia Mononuclear	
	Fat	Necrosis	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 149

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 350 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93843

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 3-21]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-1]			
* Preputial Gland		Adenoma Inflammation	Chronic, Mild
[Adenoma TGLS = 1-8]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 150

TRT#: 3

SEX: Male

DAY ON TEST: 702

DOSE: 350 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93844

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Epididymis	* Esophagus
* Harderian Gland	* 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	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Vacuolization Cytoplasmic	Focal, Minimal
* Bone	Cranium	Schwannoma Malignant	Metastatic (Brain)
* Brain	Cerebrum	Schwannoma Malignant	Metastatic (Skin)
	[Schwannoma Malignant TGLS = 5-1]		
* Eye		Cataract	Moderate
	Retina	Degeneration	Minimal
		Schwannoma Malignant	Metastatic (Brain)
	[Cataract TGLS = 6-44]		
	[Degeneration TGLS = 6-44]		
	[Schwannoma Malignant TGLS = 6-44]		
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Mild
* Liver		Degeneration	Cystic, Focal, Mild
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Mild
* Lung	Alveolar Epith	Hyperplasia	Focal, Minimal
		Inflammation	Chronic, Focal, Minimal
Mesentery	Fat	Necrosis	Focal, Moderate
	[Necrosis TGLS = 1-21, 3-22]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:41
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 150	TRT#: 3 DOSE: 350 MG/L	SEX: Male DISP: Moribund Sacrifice	DAY ON TEST: 702 HISTO: 00-93844
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ORGAN AND ACCOUNTABLE SITE STATUS

* Nose	Nasolacrim Dct	Inflammation	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia Inflammation	Focal, Mild Chronic, Moderate
* Skin [Schwannoma Malignant TGLS = 4-23]	Subcut Tiss	Schwannoma Malignant	
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes [Adenoma TGLS = 2-7]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 151

TRT#: 4

SEX: Male

DAY ON TEST: 636

DOSE: 700 MG/L

DISP: Moribund Sacrifice

HISTO: 00-90965

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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	Peripheral Nerve
* Pituitary Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
Spinal Cord	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Focal, Minimal
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Granular Cell Tumor Malignant	
		Hemorrhage	Focal, Moderate
		Leukemia Mononuclear	
	[Granular Cell Tumor Malignant TGLS = 13-1]		
	[Hemorrhage TGLS = 12-1]		
	[Leukemia Mononuclear TGLS = 12-1]		
* Heart		Cardiomyopathy	Moderate
		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Mild
	[Leukemia Mononuclear TGLS = 7-6]		
* Lung		Hemorrhage	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 151

TRT#: 4

SEX: Male

DAY ON TEST: 636

DOSE: 700 MG/L

DISP: Moribund Sacrifice

HISTO: 00-90965

ORGAN AND ACCOUNTABLE SITE STATUS

		Leukemia Mononuclear	
[Hemorrhage TGLS = 11-2]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-7]			
[Leukemia Mononuclear TGLS = 10-23]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-5, 9-22]			
* Pancreas	Acinus	Atrophy	Focal, Mild
		Leukemia Mononuclear	
[Atrophy TGLS = 4-4, 4-7]			
* Prostate	Epithelium	Hyperplasia	Focal, Mild
		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Hemangioma	
	Subcut Tiss	Hemorrhage	Focal, Moderate
	Subcut Tiss	Leukemia Mononuclear	
[Hemangioma TGLS = 1-21]			
[Hemorrhage TGLS = 1-21]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 6-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Liver	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 152

TRT#: 4

SEX: Male

DAY ON TEST: 709

DOSE: 700 MG/L

DISP: Natural Death

HISTO: 00-93845

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Cytoplasmic Alteration	Focal, Minimal
* Brain		Compression	Focal, Moderate
[Compression TGLS = 7-1]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Congestion	Moderate
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Mild
* Lung		Congestion	Moderate
[Congestion TGLS = 3-2]			
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-1-1]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Moderate
[Inflammation TGLS = 2-7-1]			
* Stomach, Glandular		Pigmentation	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 152

TRT#: 4

SEX: Male

DAY ON TEST: 709

DOSE: 700 MG/L

DISP: Natural Death

HISTO: 00-93845

ORGAN AND ACCOUNTABLE SITE STATUS

[Pigmentation TGLS = 6-21]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 1-7]

* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 153

TRT#: 4

SEX: Male

DAY ON TEST: 637

DOSE: 700 MG/L

DISP: Moribund Sacrifice

HISTO: 00-90966

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule Vacuolization Cytoplasmic	Minimal Focal, Minimal
* Bone Marrow	Erythroid Cell, Myeloid Cell	Hyperplasia	Moderate
* Kidney		Nephropathy	Moderate
* Liver		Clear Cell Focus Degeneration Fibrosis	Cystic, Focal, Mild Focal, Moderate
	Bile Duct	Hyperplasia Hyperplasia Infiltration Cellular Inflammation	Moderate Regenerative, Focal, Marked Mixed Cell, Mild Chronic, Mild
[Fibrosis TGLS = 6-23] [Hyperplasia TGLS = 6-23]			
Lymph Node	Deep Cervical Mediastinal Pancreatic	Ectasia Ectasia Hyperplasia	Moderate Moderate Histiocytic, Moderate
[Ectasia TGLS = 7-24] [Ectasia TGLS = 8-25] [Hyperplasia TGLS = 5-7]			
Mesentery	Fat	Necrosis	Focal, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 153

TRT#: 4

SEX: Male

DAY ON TEST: 637

DOSE: 700 MG/L

DISP: Moribund Sacrifice

HISTO: 00-90966

ORGAN AND ACCOUNTABLE SITE STATUS

[Necrosis TGLS = 3-22]

* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland	Pars Distalis	Degeneration	Cystic, Focal, Moderate
	Pars Distalis	Hyperplasia	Focal, Moderate
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Focal, Minimal
		Inflammation	Chronic, Moderate
* Skin	Subcut Tiss	Necrosis	Fatty, Focal, Mild

[Necrosis TGLS = 1-21]

* Spleen		Hematopoietic Cell Proliferation	Moderate
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[Hematopoietic Cell Proliferation TGLS = 4-6]

* Testes	Bilateral, Interstit Cell	Adenoma	
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[Adenoma TGLS = 2-7]

* Thyroid Gland	C Cell	Hyperplasia	Mild
Zymbal's Gland		Carcinoma	

[Carcinoma TGLS = 9-26]

PRIMARY CAUSE OF DEATH	- Zymbal's Gland	Carcinoma
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 154

TRT#: 4

SEX: Male

DAY ON TEST: 729

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93846

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow	Myeloid Cell	Hyperplasia	Moderate
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Mild
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Mild
		Fibroadenoma	
* Mammary Gland			
[Fibroadenoma TGLS = 1-21]			
* Pituitary Gland	Pars Distalis	Degeneration	Cystic, Focal, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Skin		Hyperkeratosis	Focal, Mild
[Hyperkeratosis TGLS = 5-22]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
		Atrophy	Moderate
[Adenoma TGLS = 3-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 154

TRT#: 4

SEX: Male

DAY ON TEST: 729

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93846

ORGAN AND ACCOUNTABLE SITE STATUS

[Atrophy TGLS = 2-7]

* Thyroid Gland

C Cell

Adenoma

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 155

TRT#: 4

SEX: Male

DAY ON TEST: 729

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93847

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Bone | * Bone Marrow | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * 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 | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|----------------------------|---------------------------|----------------------------------|---------------------|
| * Adrenal Cortex | | Vacuolization Cytoplasmic | Focal, Minimal |
| * Adrenal Medulla | | Hyperplasia | Focal, Mild |
| * Kidney | | Nephropathy | Mild |
| * Liver | | Clear Cell Focus | |
| | | Degeneration | Cystic, Focal, Mild |
| | Hepatocyte | Fatty Change | Mild |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Inflammation | Chronic, Minimal |
| Mesentery | Fat | Necrosis | Focal, Mild |
| [Necrosis TGLS = 2-21] | | | |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Mild |
| [Hyperplasia TGLS = 3-1] | | | |
| * Preputial Gland | | Inflammation | Chronic, Minimal |
| * Prostate | | Inflammation | Chronic, Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Mild |
| * Testes | Bilateral, Interstit Cell | Adenoma | |
| [Adenoma TGLS = 1-7] | | | |
| * Thyroid Gland | C Cell | Hyperplasia | Mild |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 155

TRT#: 4

SEX: Male

DAY ON TEST: 729

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93847

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 156

TRT#: 4

SEX: Male

DAY ON TEST: 642

DOSE: 700 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93126

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Esophagus	* Harderian Gland
* Intestine Large, Rectum	* Islets, Pancreatic	* Mammary Gland	* Nose
* Parathyroid Gland	Peripheral Nerve	Spinal Cord	* Trachea

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-10, 12-10]			
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 10-9]			
* Epididymis		Leukemia Mononuclear	
* Eye	Retrobulbar	Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Intestine Large, Cecum		Leukemia Mononuclear	
* Intestine Large, Colon		Leukemia Mononuclear	
* Intestine Small, Duodenum		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Intestine Small, Jejunum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Mild
[Leukemia Mononuclear TGLS = 7-6]			
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 9-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 156

TRT#: 4

SEX: Male

DAY ON TEST: 642

DOSE: 700 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93126

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 4-23]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-24]			
Mesentery		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-23, 8-24]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Leukemia Mononuclear	
* Salivary Glands		Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 11-7-1]			
* Skin		Keratoacanthoma	
	Subcut Tiss	Leukemia Mononuclear	
		Squamous Cell Carcinoma	
[Keratoacanthoma TGLS = 1-21]			
[Squamous Cell Carcinoma TGLS = 2-22]			
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			
* Stomach, Forestomach		Leukemia Mononuclear	
* Stomach, Glandular		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 13-4, 13-25]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-7]			
* Thymus		Leukemia Mononuclear	
* Thyroid Gland	C Cell	Hyperplasia	Mild
Tissue NOS	Mediastinum	Leukemia Mononuclear	
* Urinary Bladder		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Liver Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 157

TRT#: 4

SEX: Male

DAY ON TEST: 709

DOSE: 700 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93848

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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
Peripheral Nerve	* Salivary Glands	* Seminal Vesicle	Skeletal Muscle
* Skin	Spinal Cord	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Mammary Gland
--------------------------	-----------------

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Brain		Compression	Focal, Moderate
[Compression TGLS = 4-1]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Minimal
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-1-1]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Moderate
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 158

TRT#: 4

SEX: Male

DAY ON TEST: 731

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93849

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Degeneration	Cystic, Focal, Minimal
	Hepatocyte	Fatty Change	Mild
		Hepatodiaphragmatic Nodule	Moderate
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
	[Hepatodiaphragmatic Nodule TGLS = 4-23]		
* Pancreas		Hyperplasia	Histiocytic, Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 5-1]		
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Mild
* Skin		Basal Cell Adenoma	
	[Basal Cell Adenoma TGLS = 1-21]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 158

TRT#: 4

SEX: Male

DAY ON TEST: 731

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93849

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 2-7]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

Animal Note: TGL 3 = NCL (No Corresponding Lesion)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 159

TRT#: 4

SEX: Male

DAY ON TEST: 731

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93850

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Brain		Compression	Focal, Moderate
[Compression TGLS = 2-1]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Minimal
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
* Lung		Inflammation	Chronic, Focal, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-1]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Focal, Mild
		Inflammation	Chronic, Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 159

TRT#: 4

SEX: Male

DAY ON TEST: 731

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93850

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 160

TRT#: 4

SEX: Male

DAY ON TEST: 731

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93851

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Preputial Gland

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Mild
* Pancreas	Hepatocyte	Vacuolization Cytoplasmic	Minimal
* Pituitary Gland	Acinus	Atrophy	Focal, Minimal
* Prostate	Pars Distalis	Cytoplasmic Alteration	Focal, Minimal
		Inflammation	Chronic, Minimal
		Mineralization	Focal, Mild
* Skin		Cyst Epithelial Inclusion	
	[Cyst Epithelial Inclusion TGLS = 4-21]		
* Spleen		Fibrosis	Focal, Mild
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Stomach, Glandular	Glands	Ectasia	Focal, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 160

TRT#: 4

SEX: Male

DAY ON TEST: 731

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93851

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes

[Adenoma TGLS = 1-7]

Bilateral, Interstit Cell

Fibrosarcoma

Fibrosis

Adenoma

Focal, Moderate

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 161

TRT#: 4

SEX: Male

DAY ON TEST: 709

DOSE: 700 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93852

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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	* Parathyroid Gland	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Glandular	* Thymus
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Mild
* Brain		Compression	Focal, Mild
[Compression TGLS = 6-1]			
* Kidney		Nephropathy	Moderate
* Liver		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Mild
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
* Lung	C Cell	Carcinoma	Metastatic (Thyroid Gland)
[Carcinoma TGLS = 4-2]			
Lymph Node	Pancreatic	Hyperplasia	Histiocytic, Moderate
* Mammary Gland		Dilatation	Mild
[Dilatation TGLS = 1-8]			
* Pancreas	Acinus	Adenoma	
	Acinus	Atrophy	Focal, Moderate
Note: Acinar cell adenoma is on slide 4.			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-1]			
* Prostate	Epithelium	Hyperplasia	Focal, Minimal
		Inflammation	Chronic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:41
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 161	TRT#: 4	SEX: Male	DAY ON TEST: 709
	DOSE: 700 MG/L	DISP: Moribund Sacrifice	HISTO: 00-93852

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Forestomach		Erosion	Minimal
		Inflammation	Focal, Mild
	[Erosion TGLS = 7-21]		
	[Inflammation TGLS = 7-21]		
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 2-7]		
* Thyroid Gland	C Cell	Carcinoma	
	[Carcinoma TGLS = 3-3]		
* Trachea	C Cell	Carcinoma	Metastatic (Thyroid Gland)
PRIMARY CAUSE OF DEATH	- Thyroid Gland C Cell Carcinoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 162

TRT#: 4

SEX: Male

DAY ON TEST: 731

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93853

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 5-1, 6-1-1]

* Preputial Gland

Inflammation

Chronic, Minimal

* Prostate

Epithelium

Hyperplasia

Focal, Mild

* Testes

Interstit Cell

Inflammation

Chronic, Moderate

Adenoma

Atrophy

Moderate

[Adenoma TGLS = 2-7]

[Atrophy TGLS = 3-7]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 163

TRT#: 4

SEX: Male

DAY ON TEST: 731

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93854

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Mammary Gland

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Kidney		Nephropathy	Mild
* Liver		Angiectasis	Focal, Minimal
		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Mild
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Minimal
		Inflammation	Chronic, Minimal
* Lung	Alveolar Epith	Hyperplasia	Focal, Mild
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 2-21]			
* Pancreas	Acinus	Atrophy	Focal, Minimal
	Duct	Cyst	Focal, Multiple, Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:41
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 163	TRT#: 4	SEX: Male	DAY ON TEST: 731
	DOSE: 700 MG/L	DISP: Terminal Sacrifice	HISTO: 00-93854

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Leukemia Mononuclear TGLS = 3-6]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 1-7]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland [Carcinoma TGLS = 4-3]	C Cell C Cell Follicular Cel	Carcinoma Hyperplasia Hyperplasia	Minimal Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:41
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 164

TRT#: 4

SEX: Male

DAY ON TEST: 448

DOSE: 700 MG/L

DISP: Moribund Sacrifice

HISTO: 00-88401

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Salivary Glands	* Seminal Vesicle	* Spleen
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Mild
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Fatty Change	Mild
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Mild
Lymph Node	Mediastinal	Angiectasis	Moderate
	Mediastinal	Hemorrhage	Mild
[Angiectasis TGLS = 2-3]			
[Hemorrhage TGLS = 2-3]			
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Focal, Minimal
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Mild
* Skin		Cyst Epithelial Inclusion	
[Cyst Epithelial Inclusion TGLS = 3-21]			
* Stomach, Forestomach		Edema	Moderate
		Ulcer	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 164

TRT#: 4

SEX: Male

DAY ON TEST: 448

DOSE: 700 MG/L

DISP: Moribund Sacrifice

HISTO: 00-88401

ORGAN AND ACCOUNTABLE SITE STATUS

[Ulcer TGLS = 4-22]

* Stomach, Glandular

Epithelium

Hyperplasia

Moderate

* Testes

Interstit Cell

Adenoma

Interstit Cell

Hyperplasia

Focal, Mild

[Adenoma TGLS = 1-7]

* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

- Stomach, Forestomach Ulcer

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 165

TRT#: 4

SEX: Male

DAY ON TEST: 695

DOSE: 700 MG/L

DISP: Natural Death

HISTO: 00-93855

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Heart
* Islets, Pancreatic	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Thyroid Gland	

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
		Thrombosis	Moderate
* Brain		Compression	Focal, Moderate
[Compression TGLS = 6-1]			
* Kidney		Nephropathy	Mild
* Liver		Congestion	Moderate
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
* Lung		Infiltration Cellular	Mixed Cell, Mild
Lymph Node	Mediastinal	Hyperplasia	Histiocytic, Moderate
[Hyperplasia TGLS = 4-3]			
* Mammary Gland		Adenoma	
[Adenoma TGLS = 2-22]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-1]			
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate	Epithelium	Hyperplasia	Focal, Minimal
		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 165

TRT#: 4

SEX: Male

DAY ON TEST: 695

DOSE: 700 MG/L

DISP: Natural Death

HISTO: 00-93855

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin [Fibroma TGLS = 1-21]	Subcut Tiss	Fibroma	
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes [Adenoma TGLS = 3-7]	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 166

TRT#: 4

SEX: Male

DAY ON TEST: 619

DOSE: 700 MG/L

DISP: Natural Death

HISTO: 00-90791

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|------------------------|-------------------|-------------------|-------------------|
| * Bone | * Epididymis | * Esophagus | * Harderian Gland |
| * Islets, Pancreatic | * Mammary Gland | * Nose | * Pancreas |
| * Parathyroid Gland | * Salivary Glands | * Seminal Vesicle | * Skin |
| * Stomach, Forestomach | * Trachea | * Urinary Bladder | |

MISSING

- * Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Eye | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Pituitary Gland |
| * Thyroid Gland | | | |

OBSERVATIONS

- | | | | |
|-------------------------------------|------------|----------------------|------------------------|
| * Adrenal Cortex | | Leukemia Mononuclear | |
| * Adrenal Medulla | | Leukemia Mononuclear | |
| * Bone Marrow | | Leukemia Mononuclear | |
| * Brain | | Leukemia Mononuclear | |
| * Heart | | Leukemia Mononuclear | |
| * Kidney | | Leukemia Mononuclear | |
| * Liver | | Degeneration | Cystic, Focal, Minimal |
| | Hepatocyte | Fatty Change | Mild |
| | Bile Duct | Hyperplasia | Moderate |
| | | Leukemia Mononuclear | |
| | | Leukemia Mononuclear | |
| * Lung | | | |
| [Leukemia Mononuclear TGLS = 7-2] | | | |
| Lymph Node | Pancreatic | Leukemia Mononuclear | |
| [Leukemia Mononuclear TGLS = 4-7] | | | |
| * Lymph Node, Mesenteric | | Leukemia Mononuclear | |
| Mesentery | | Leukemia Mononuclear | |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| * Prostate | Epithelium | Hyperplasia | Focal, Mild |
| | | Inflammation | Chronic, Minimal |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:41
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 166	TRT#: 4	SEX: Male	DAY ON TEST: 619
	DOSE: 700 MG/L	DISP: Natural Death	HISTO: 00-90791

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen [Hemorrhage TGLS = 5-21]		Hemorrhage Leukemia Mononuclear	Moderate
* Stomach, Glandular [Erosion TGLS = 10-4]		Erosion	Mild
* Testes [Adenoma TGLS = 3-7]	Bilateral, Interstit Cell	Adenoma	
* Thymus [Leukemia Mononuclear TGLS = 9-3]		Leukemia Mononuclear	

PRIMARY CAUSE OF DEATH - Liver Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 167

TRT#: 4

SEX: Male

DAY ON TEST: 731

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93856

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver	Hepatocyte	Fatty Change	Mild
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Focal, Minimal
* Prostate		Inflammation	Chronic, Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
		[Adenoma TGLS = 1-7]	
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 168

TRT#: 4

SEX: Male

DAY ON TEST: 686

DOSE: 700 MG/L

DISP: Natural Death

HISTO: 00-93127

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Spleen
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Ileum	* Kidney	* Thyroid Gland
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OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Mild
* Islets, Pancreatic		Adenoma	
* Liver	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Mixed Cell Focus	
[Mixed Cell Focus TGLS = 3-22]			
* Lung	Alveolar Epith	Hyperplasia	Focal, Mild
[Hyperplasia TGLS = 5-2]			
Lymph Node	Mediastinal	Hemorrhage	Moderate
[Hemorrhage TGLS = 6-3]			
* Mammary Gland		Dilatation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-1]			
* Preputial Gland		Inflammation	Chronic, Moderate
* Prostate		Inflammation	Chronic, Moderate
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 168

TRT#: 4

SEX: Male

DAY ON TEST: 686

DOSE: 700 MG/L

DISP: Natural Death

HISTO: 00-93127

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 8-23]

* Testes

Bilateral, Interstit Cell

Adenoma

Bilateral

Atrophy

Marked

[Atrophy TGLS = 2-7]

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 169

TRT#: 4

SEX: Male

DAY ON TEST: 729

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93857

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Bone Marrow		Leukemia Mononuclear	
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Degeneration	Cystic, Focal, Minimal
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Inflammation	Chronic, Minimal
		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
Lymph Node	Pancreatic	Ectasia	Moderate
	Pancreatic	Hyperplasia	Histiocytic, Moderate
		[Ectasia TGLS = 3-7]	
		[Hyperplasia TGLS = 3-7]	
* Mammary Gland		Fibroadenoma	
		[Fibroadenoma TGLS = 1-21]	
* Nose		Inflammation	Suppurative, Minimal
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
		[Adenoma TGLS = 5-1]	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 169

TRT#: 4

SEX: Male

DAY ON TEST: 729

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93857

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate	Epithelium	Hyperplasia Inflammation	Focal, Minimal Chronic, Moderate
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thyroid Gland	C Cell	Hyperplasia	Mild
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 170

TRT#: 4

SEX: Male

DAY ON TEST: 693

DOSE: 700 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93858

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Focal, Mild
		Pheochromocytoma Benign	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Focal, Moderate
* Heart		Thrombosis	Mild
[Thrombosis TGLS = 8-5]			
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
	Renal Tubule	Pigmentation	Mild
* Liver	Hepatocyte	Fatty Change	Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Mild
[Leukemia Mononuclear TGLS = 6-6]			
* Lung		Congestion	Minimal
[Congestion TGLS = 7-2]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-7]			
[Leukemia Mononuclear TGLS = 9-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 170

TRT#: 4

SEX: Male

DAY ON TEST: 693

DOSE: 700 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93858

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Dilatation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 10-1]			
* Preputial Gland		Inflammation	Chronic, Moderate
* Prostate		Inflammation	Chronic, Moderate
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 3-6]			
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Liver	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 171

TRT#: 4

SEX: Male

DAY ON TEST: 729

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93859

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign Pheochromocytoma Malignant	
* Kidney		Nephropathy	Moderate
* Liver		Basophilic Focus Clear Cell Focus	
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia Inflammation	Moderate Chronic, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
[Clear Cell Focus TGLS = 4-21]			
* Pancreas	Duct	Cyst	Focal, Multiple, Minimal
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Minimal
* Testes	Interstit Cell	Adenoma Atrophy	Moderate
[Adenoma TGLS = 2-7]			
[Atrophy TGLS = 1-7]			
* Thyroid Gland	C Cell	Carcinoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 171

TRT#: 4

SEX: Male

DAY ON TEST: 729

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93859

ORGAN AND ACCOUNTABLE SITE STATUS

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 172

TRT#: 4

SEX: Male

DAY ON TEST: 731

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93860

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
	Hepatocyte	Fatty Change	Mild
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
[Fatty Change TGLS = 2-6]			
* Pancreas	Acinus	Atrophy	Focal, Minimal
* Pituitary Gland		Angiectasis	Mild
	Pars Distalis	Cytoplasmic Alteration	Focal, Minimal
	Pars Distalis	Hyperplasia	Focal, Mild
[Angiectasis TGLS = 4-1]			
[Hyperplasia TGLS = 4-1]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Focal, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-7]			
* Thyroid Gland	C Cell	Hyperplasia	Mild
	Follicular Cel	Hyperplasia	Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 172

TRT#: 4

SEX: Male

DAY ON TEST: 731

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93860

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 1-3]

[Hyperplasia TGLS = 1-3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 173

TRT#: 4

SEX: Male

DAY ON TEST: 731

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93861

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Lymph Node, Mesenteric	* Mammary Gland	* Parathyroid Gland	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Adrenal Medulla		Hyperplasia	Focal, Mild
		Pheochromocytoma Benign	
* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
	Bile Duct	Hyperplasia	Moderate
		Inflammation	Chronic, Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 8-6, 8-21]		
* Lung	Mediastinum	Angiectasis	Focal, Mild
Lymph Node	Mediastinal	Ectasia	Moderate
	Pancreatic	Ectasia	Moderate
	Mediastinal	Leukemia Mononuclear	
	[Ectasia TGLS = 2-7]		
	[Ectasia TGLS = 5-3]		
	[Leukemia Mononuclear TGLS = 5-3]		
* Nose		Inflammation	Suppurative, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:41
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 173

TRT#: 4

SEX: Male

DAY ON TEST: 731

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93861

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Duct	Cyst	Focal, Multiple, Minimal
* Pituitary Gland [Adenoma TGLS = 7-1]	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia Inflammation	Focal, Minimal Chronic, Mild
* Spleen [Leukemia Mononuclear TGLS = 3-6]		Leukemia Mononuclear	
* Testes [Adenoma TGLS = 1-7]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell C Cell	Adenoma Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 174

TRT#: 4

SEX: Male

DAY ON TEST: 672

DOSE: 700 MG/L

DISP: Natural Death

HISTO: 00-93128

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Nose	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum * Thyroid Gland

OBSERVATIONS

* Brain		Compression	Focal, Moderate
[Compression TGLS = 7-1]			
* Heart		Cardiomyopathy	Mild
* Islets, Pancreatic		Carcinoma	
* Kidney		Nephropathy	Minimal
* Liver		Angiectasis	Focal, Mild
		Congestion	Moderate
		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
* Lung		Congestion	Mild
[Congestion TGLS = 4-2]			
* Mammary Gland		Dilatation	Mild
[Dilatation TGLS = 1-8]			
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 6-1]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 174

TRT#: 4

SEX: Male

DAY ON TEST: 672

DOSE: 700 MG/L

DISP: Natural Death

HISTO: 00-93128

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate	Epithelium	Hyperplasia Inflammation	Focal, Minimal Chronic, Mild
* Skin [Squamous Cell Papilloma TGLS = 3-21]		Squamous Cell Papilloma	
* Testes [Adenoma TGLS = 2-7]	Bilateral, Interstit Cell	Adenoma	

PRIMARY CAUSE OF DEATH - Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 175

TRT#: 4

SEX: Male

DAY ON TEST: 730

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93862

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* 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	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular	* Mammary Gland
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OBSERVATIONS

* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Mixed Cell Focus	
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
* Pancreas	Acinus	Adenoma	
	Acinus	Atrophy	Focal, Moderate
	Duct	Cyst	Focal, Multiple, Mild
Note: Acinar cell adenoma is on slide 4. [Atrophy TGLS = 4-7]			
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate	Epithelium	Hyperplasia	Focal, Mild
* Skin	Subcut Tiss	Fibroma	
		Keratoacanthoma	
[Fibroma TGLS = 1-21] [Keratoacanthoma TGLS = 2-22]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 175

TRT#: 4

SEX: Male

DAY ON TEST: 730

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93862

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 3-7]			
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 176

TRT#: 4

SEX: Male

DAY ON TEST: 730

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93863

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Pituitary Gland

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Liver	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Mild
Lymph Node	Mediastinal	Ectasia	Moderate
	Pancreatic	Hyperplasia	Histiocytic, Moderate
[Ectasia TGLS = 6-3]			
[Hyperplasia TGLS = 2-7]			
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 1-21]			
* Nose	Nasolacrim Dct	Inflammation	Minimal
* Pancreas	Acinus	Atrophy	Focal, Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Testes		Atrophy	Moderate
	Interstit Cell	Hyperplasia	Focal, Mild
* Thyroid Gland	C Cell	Hyperplasia	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 176

TRT#: 4

SEX: Male

DAY ON TEST: 730

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93863

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 177

TRT#: 4

SEX: Male

DAY ON TEST: 730

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93864

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Cytoplasmic Alteration	Focal, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Mild
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
* Lung	Alveolar Epith	Hyperplasia	Focal, Mild
* Mammary Gland		Fibrosis	Focal, Moderate
		Inflammation	Chronic, Mild
* Preputial Gland		Mineralization	Focal, Mild
* Prostate			
* Testes	Bilateral, Interstit Cell	Adenoma	
		Adenoma	
* Thyroid Gland	C Cell	Hyperplasia	Minimal
	C Cell		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 178

TRT#: 4

SEX: Male

DAY ON TEST: 729

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93865

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Esophagus
* Eye	* Harderian Gland	* 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
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Adrenal Medulla		Hyperplasia	Focal, Mild
* Epididymis		Mesothelioma Malignant	
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Minimal
		Hemorrhage	Focal, Moderate
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
		Necrosis	Focal, Mild
[Hemorrhage TGLS = 4-21]			
[Necrosis TGLS = 4-21]			
Lymph Node	Pancreatic	Hemorrhage	Moderate
	Pancreatic	Hyperplasia	Histiocytic, Moderate
[Hemorrhage TGLS = 2-7]			
[Hyperplasia TGLS = 2-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:41
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 178	TRT#: 4	SEX: Male	DAY ON TEST: 729
	DOSE: 700 MG/L	DISP: Terminal Sacrifice	HISTO: 00-93865

ORGAN AND ACCOUNTABLE SITE STATUS

Mesentery [Mesothelioma Malignant TGLS = 1-7, 1-22]		Mesothelioma Malignant	
Peritoneum [Mesothelioma Malignant TGLS = 1-22]	Tunica Vaginal	Mesothelioma Malignant	
* Pituitary Gland [Cytoplasmic Alteration TGLS = 5-1]	Pars Distalis	Cytoplasmic Alteration	Focal, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Focal, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	Tunic	Mesothelioma Malignant	
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 179

TRT#: 4

SEX: Male

DAY ON TEST: 722

DOSE: 700 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93866

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Cortex | * Bone | * Bone Marrow | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * 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 | * Parathyroid Gland |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Thymus | * Trachea |
| * Urinary Bladder | | | |

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | | |
|--|---------------|----------------------------|------------------------|
| * Adrenal Medulla | | Pheochromocytoma Malignant | |
| [Pheochromocytoma Malignant TGLS = 5-10] | | | |
| * Brain | | Compression | Focal, Moderate |
| [Compression TGLS = 7-1] | | | |
| * Kidney | | Cyst | Mild |
| | | Nephropathy | Mild |
| [Cyst TGLS = 4-22] | | | |
| * Liver | | Degeneration | Cystic, Focal, Minimal |
| | | Hepatodiaphragmatic Nodule | Mild |
| | Bile Duct | Hyperplasia | Moderate |
| | | Infiltration Cellular | Mixed Cell, Mild |
| | | Inflammation | Chronic, Mild |
| [Hepatodiaphragmatic Nodule TGLS = 6-23] | | | |
| * Pancreas | Acinus | Atrophy | Focal, Moderate |
| * Pituitary Gland | Pars Distalis | Adenoma | |
| [Adenoma TGLS = 8-1] | | | |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| * Prostate | | Inflammation | Chronic, Mild |
| Skeletal Muscle | | Hemorrhage | Focal, Moderate |

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 179

TRT#: 4

SEX: Male

DAY ON TEST: 722

DOSE: 700 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93866

ORGAN AND ACCOUNTABLE SITE STATUS

[Hemorrhage TGLS = 1-21]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 3-7]

* Thyroid Gland

C Cell

Hyperplasia

Minimal

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 180

TRT#: 4

SEX: Male

DAY ON TEST: 729

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93867

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Histiocytic, Focal, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Mild
	Bile Duct	Hyperplasia	Mild
		Inflammation	Chronic, Mild
Lymph Node	Mediastinal	Ectasia	Moderate
	Pancreatic	Ectasia	Moderate
[Ectasia TGLS = 5-3]			
[Ectasia TGLS = 4-7]			
* Pancreas	Acinus	Atrophy	Focal, Moderate
	Duct	Cyst	Focal, Multiple, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Preputial Gland		Carcinoma	
[Carcinoma TGLS = 1-21]			
* Prostate	Epithelium	Hyperplasia	Focal, Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
[Hematopoietic Cell Proliferation TGLS = 3-6]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:41
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 180	TRT#: 4	SEX: Male	DAY ON TEST: 729
	DOSE: 700 MG/L	DISP: Terminal Sacrifice	HISTO: 00-93867

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes [Adenoma TGLS = 2-7]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 181

TRT#: 4

SEX: Male

DAY ON TEST: 554

DOSE: 700 MG/L

DISP: Moribund Sacrifice

HISTO: 00-89838

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Salivary Glands

OBSERVATIONS

* Adrenal Cortex		Cytoplasmic Alteration Vacuolization Cytoplasmic	Focal, Minimal Focal, Minimal
* Bone Marrow	Erythroid Cell, Myeloid Cell	Hyperplasia	Moderate
* Kidney	Renal Tubule	Nephropathy Pigmentation	Mild Mild
* Liver	Bile Duct	Degeneration Hyperplasia Infiltration Cellular Inflammation	Cystic, Focal, Mild Moderate Mixed Cell, Mild Chronic, Minimal
* Preputial Gland		Hyperplasia	Cystic, Mild
* Prostate	Epithelium	Hyperplasia Inflammation	Focal, Mild Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
* Thyroid Gland	C Cell Follicular Cel	Hyperplasia Hyperplasia	Mild Cystic, Focal, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 181

TRT#: 4

SEX: Male

DAY ON TEST: 554

DOSE: 700 MG/L

DISP: Moribund Sacrifice

HISTO: 00-89838

ORGAN AND ACCOUNTABLE SITE STATUS

Tissue NOS

Schwannoma Malignant

[Schwannoma Malignant TGLS = 1-21]

PRIMARY CAUSE OF DEATH

- Tissue NOS Schwannoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 182

TRT#: 4

SEX: Male

DAY ON TEST: 735

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93868

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Brain		Compression	Focal, Mild
[Compression TGLS = 6-1]			
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Minimal
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Mild
		Mixed Cell Focus	
[Basophilic Focus TGLS = 7-6]			
[Clear Cell Focus TGLS = 7-6]			
[Mixed Cell Focus TGLS = 7-6]			
* Lymph Node, Mesenteric		Hemorrhage	Moderate
[Hemorrhage TGLS = 8-23]			
* Mammary Gland		Dilatation	Moderate
[Dilatation TGLS = 1-8]			
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 3-22]			
* Nose		Inflammation	Suppurative, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 182

TRT#: 4

SEX: Male

DAY ON TEST: 735

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93868

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas	Acinus	Atrophy	Focal, Minimal
	Duct	Cyst	Focal, Multiple, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-1]			
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate	Epithelium	Hyperplasia	Focal, Minimal
		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 2-21]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 4-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 183

TRT#: 4

SEX: Male

DAY ON TEST: 654

DOSE: 700 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93129

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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	Peripheral Nerve
* Salivary Glands	* Seminal Vesicle	* Skin	Spinal Cord
* Spleen	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Brain		Compression	Focal, Moderate
[Compression TGLS = 4-1]			
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Moderate
* Liver		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Mild
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Minimal
		Inflammation	Chronic, Mild
[Fatty Change TGLS = 1-6, 2-21]			
* Mammary Gland		Dilatation	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-1]			
* Preputial Gland		Degeneration	Cystic, Moderate
		Fibrosis	Moderate
		Inflammation	Chronic, Minimal
[Degeneration TGLS = 5-8]			
* Prostate	Epithelium	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:41
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 183

TRT#: 4

SEX: Male

DAY ON TEST: 654

DOSE: 700 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93129

ORGAN AND ACCOUNTABLE SITE STATUS

* Stomach, Forestomach		Inflammation	Chronic, Moderate
		Edema	Moderate
	Epithelium	Hyperplasia	Minimal
		Ulcer	Mild
* Thyroid Gland	C Cell	Hyperplasia	Minimal
PRIMARY CAUSE OF DEATH	- Pituitary Gland Pars Distalis Adenoma		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 184

TRT#: 4

SEX: Male

DAY ON TEST: 735

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93869

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Bone Marrow		Hyperplasia	Marked
* Brain		Compression	Focal, Moderate
[Compression TGLS = 6-1]			
* Kidney		Nephropathy	Minimal
* Liver	Bile Duct	Hyperplasia	Marked
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-6]			
* Lung	Alveolar Epith	Hyperplasia	Focal, Mild
		Leukemia Mononuclear	
[Hyperplasia TGLS = 9-22]			
Lymph Node	Mediastinal	Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 8-3]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Dilatation	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 7-1]			
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Moderate
* Spleen		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 184

TRT#: 4

SEX: Male

DAY ON TEST: 735

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93869

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 4-6]

* Testes

Bilateral, Interstit Cell

Adenoma

Atrophy

Moderate

[Adenoma TGLS = 2-7]

[Atrophy TGLS = 3-7]

* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 185

TRT#: 4

SEX: Male

DAY ON TEST: 616

DOSE: 700 MG/L

DISP: Natural Death

HISTO: 00-90792

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Heart
* Mammary Gland	* Nose	* Parathyroid Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Adrenal Cortex	* Adrenal Medulla	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Pancreas
* Thyroid Gland			

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Brain		Hemorrhage	Focal, Moderate
		Leukemia Mononuclear	
	[Hemorrhage TGLS = 6-1]		
	[Leukemia Mononuclear TGLS = 6-1]		
* Kidney		Leukemia Mononuclear	
* Liver	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6]		
* Lung		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 5-2]		
Lymph Node	Mediastinal	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-3]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
Mesentery		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 185

TRT#: 4

SEX: Male

DAY ON TEST: 616

DOSE: 700 MG/L

DISP: Natural Death

HISTO: 00-90792

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Stomach, Glandular		Erosion	Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			
* Thymus		Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	- Liver	Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 186

TRT#: 4

SEX: Male

DAY ON TEST: 605

DOSE: 700 MG/L

DISP: Moribund Sacrifice

HISTO: 00-90228

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Vacuolization Cytoplasmic	Focal, Minimal
* Brain		Compression	Focal, Moderate
[Compression TGLS = 4-1]			
* Eye			
Note: Excess artifact makes microscopic assessment of one eye unreliable.			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Degeneration	Cystic, Focal, Mild
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Mild
* Mammary Gland		Dilatation	Mild
Mesentery	Fat	Necrosis	Focal, Moderate
[Necrosis TGLS = 1-21]			
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 5-1]			
* Preputial Gland		Inflammation	Chronic, Minimal
* Prostate		Inflammation	Chronic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 186

TRT#: 4

SEX: Male

DAY ON TEST: 605

DOSE: 700 MG/L

DISP: Moribund Sacrifice

HISTO: 00-90228

ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLS = 3-7-1]

* Stomach, Forestomach

Edema

Moderate

Ulcer

Mild

* Testes

Interstit Cell

Adenoma

Interstit Cell

Hyperplasia

Focal, Mild

[Adenoma TGLS = 6-7]

* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 187

TRT#: 4

SEX: Male

DAY ON TEST: 633

DOSE: 700 MG/L

DISP: Natural Death

HISTO: 00-90934

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Rectum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Thyroid Gland		

OBSERVATIONS

* Bone Marrow	Erythroid Cell, Myeloid Cell	Hyperplasia	Moderate
* Kidney		Nephropathy	Mild
* Liver	Hepatocyte	Fatty Change	Mild
	Bile Duct	Hyperplasia	Mild
	Centrilobular, Hepatocyte	Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Necrosis	Moderate
* Lung		Vacuolization Cytoplasmic	Minimal
[Congestion TGLS = 7-2]		Congestion	Moderate
Lymph Node	Mediastinal	Hyperplasia	Plasma Cell, Moderate
[Hyperplasia TGLS = 6-3]			
* Pituitary Gland	Pars Distalis	Hemorrhage	Focal, Moderate
[Hemorrhage TGLS = 8-1]			
* Preputial Gland		Degeneration	Cystic, Mild
		Inflammation	Chronic, Mild
[Degeneration TGLS = 1-8]			
* Prostate	Epithelium	Hyperplasia	Focal, Minimal
		Inflammation	Chronic, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 187

TRT#: 4

SEX: Male

DAY ON TEST: 633

DOSE: 700 MG/L

DISP: Natural Death

HISTO: 00-90934

ORGAN AND ACCOUNTABLE SITE STATUS

* Skin [Fibrosarcoma TGLS = 2-21]	Subcut Tiss	Fibrosarcoma	
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Stomach, Glandular		Erosion	Mild
* Testes	Interstit Cell	Adenoma	
		Atrophy	Moderate

Note: One testis is missing.
[Adenoma TGLS = 4-7]
[Atrophy TGLS = 5-7]

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 188

TRT#: 4

SEX: Male

DAY ON TEST: 642

DOSE: 700 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93130

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Brain	* Epididymis	* Esophagus
* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Nose	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Stomach, Glandular	* Trachea		

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Bone Marrow

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Leukemia Mononuclear	
* Adrenal Medulla		Leukemia Mononuclear	
* Heart		Leukemia Mononuclear	
* Intestine Small, Ileum		Leukemia Mononuclear	
* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Mild
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 6-3]	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 5-22]	
* Mammary Gland		Dilatation	Mild
		[Dilatation TGLS = 1-8]	
Mesentery		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 188

TRT#: 4

SEX: Male

DAY ON TEST: 642

DOSE: 700 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93130

ORGAN AND ACCOUNTABLE SITE STATUS

[Leukemia Mononuclear TGLS = 3-4, 3-7, 3-21]

* Pituitary Gland

Pars Distalis

Adenoma

Leukemia Mononuclear

* Preputial Gland

Inflammation

Chronic, Minimal

* Prostate

Inflammation

Chronic, Moderate

* Skin

Subcut Tiss

Leukemia Mononuclear

* Spleen

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 4-6]

* Stomach, Forestomach

Edema

Mild

Epithelium

Hyperplasia

Mild

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 2-7]

* Thymus

Leukemia Mononuclear

[Leukemia Mononuclear TGLS = 7-3]

* Thyroid Gland

C Cell

Carcinoma

C Cell

Hyperplasia

Minimal

Follicular Cel

Hyperplasia

Cystic, Focal, Mild

Tissue NOS

Mediastinum

Leukemia Mononuclear

Tongue

Squamous Cell Papilloma

[Squamous Cell Papilloma TGLS = 8-23]

* Urinary Bladder

Leukemia Mononuclear

PRIMARY CAUSE OF DEATH

- Liver Leukemia Mononuclear

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 189

TRT#: 4

SEX: Male

DAY ON TEST: 735

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93870

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung
Lymph Node	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Focal, Mild
		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Congestion	Mild
		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Mild
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
	Bile Duct, Serosa	Inflammation	Chronic, Focal, Mild
		Inflammation	Chronic, Minimal
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
[Congestion TGLS = 4-6]			
* Pancreas	Acinus	Atrophy	Focal, Mild
* Pituitary Gland	Pars Distalis	Cyst	Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Focal, Mild
		Inflammation	Chronic, Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 189

TRT#: 4

SEX: Male

DAY ON TEST: 735

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93870

ORGAN AND ACCOUNTABLE SITE STATUS

* Testes	Bilateral, Interstit Cell	Adenoma Atrophy	Moderate
[Adenoma TGLS = 1-7]			
[Atrophy TGLS = 2-7]			
* Thyroid Gland	C Cell C Cell	Adenoma Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 190

TRT#: 4

SEX: Male

DAY ON TEST: 485

DOSE: 700 MG/L

DISP: Moribund Sacrifice

HISTO: 00-88791

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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	* Parathyroid Gland	* Preputial Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Bone	Turbinate	Sarcoma	
[Sarcoma TGLS = 4-9, 4-9-1]			
* Bone Marrow			
Note: Indicative tumors is cementifying.			
* Kidney		Nephropathy	Mild
* Liver	Hepatocyte	Fatty Change	Mild
		Fibrosis	Focal, Mild
	Bile Duct	Hyperplasia	Mild
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Mild
	Centrilobular, Hepatocyte	Necrosis	Mild
[Fibrosis TGLS = 3-21]			
* Lung		Hyperplasia	Histiocytic, Minimal
Lymph Node	Pancreatic	Angiectasis	Moderate
	Pancreatic	Pigmentation	Mild
[Angiectasis TGLS = 2-7]			
[Pigmentation TGLS = 2-7]			
* Pancreas	Acinus	Atrophy	Focal, Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 190

TRT#: 4

SEX: Male

DAY ON TEST: 485

DOSE: 700 MG/L

DISP: Moribund Sacrifice

HISTO: 00-88791

ORGAN AND ACCOUNTABLE SITE STATUS

* Prostate		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Stomach, Glandular	Epithelium	Hyperplasia	Minimal
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Bone Turbinate Sarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 191

TRT#: 4

SEX: Male

DAY ON TEST: 732

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93871

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Nose	* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Thymus	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear	
* Adrenal Medulla		Hyperplasia	Minimal
		Leukemia Mononuclear	
* Bone Marrow		Leukemia Mononuclear	
* Brain		Compression	Focal, Moderate
[Compression TGLS = 15-1]			
* Islets, Pancreatic		Adenoma	
		Hyperplasia	Mild
* Kidney	Renal Tubule	Hyperplasia	Atypical, Focal, Minimal
		Leukemia Mononuclear	
* Liver		Nephropathy	Minimal
		Degeneration	Cystic, Focal, Mild
		Hepatodiaphragmatic Nodule	
	Bile Duct	Hyperplasia	Moderate
	Hepatocyte	Hyperplasia	Regenerative, Minimal
		Leukemia Mononuclear	
	Centrilobular, Hepatocyte	Necrosis	Moderate
[Hepatodiaphragmatic Nodule TGLS = 8-25]			
[Leukemia Mononuclear TGLS = 8-25, 9-6, 10-6]			
* Lung		Fibrosis	Focal, Mild
		Hemorrhage	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 191

TRT#: 4

SEX: Male

DAY ON TEST: 732

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93871

ORGAN AND ACCOUNTABLE SITE STATUS

	Alveolar Epith	Hyperplasia Leukemia Mononuclear	Focal, Moderate
[Fibrosis TGLS = 13-27]			
[Hemorrhage TGLS = 12-26]			
[Hyperplasia TGLS = 13-27]			
Lymph Node	Mediastinal Pancreatic	Leukemia Mononuclear Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 6-7]			
[Leukemia Mononuclear TGLS = 11-3]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Hyperplasia	Moderate
Mesentery		Hemorrhage Leukemia Mononuclear	Focal, Moderate
	Fat	Necrosis	Focal, Moderate
[Hemorrhage TGLS = 1-21]			
[Necrosis TGLS = 1-21, 8-25]			
* Pancreas	Acinus	Atrophy Leukemia Mononuclear	Focal, Moderate
* Pituitary Gland	Pars Distalis Pars Distalis Pars Distalis	Adenoma Degeneration Hemorrhage	Cystic, Focal, Mild Focal, Moderate
[Adenoma TGLS = 14-1]			
[Hemorrhage TGLS = 14-1]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia Inflammation	Focal, Minimal Chronic, Moderate
* Spleen		Accessory Spleen Hemorrhage Leukemia Mononuclear Necrosis	Moderate Focal, Moderate
[Accessory Spleen TGLS = 5-24]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:41
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 191	TRT#: 4	SEX: Male	DAY ON TEST: 732
	DOSE: 700 MG/L	DISP: Terminal Sacrifice	HISTO: 00-93871

ORGAN AND ACCOUNTABLE SITE STATUS

[Hemorrhage TGLS = 2-22]			
[Leukemia Mononuclear TGLS = 3-28, 5-24]			
[Necrosis TGLS = 4-23]			
* Stomach, Glandular		Erosion	Mild
[Erosion TGLS = 16-29]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 7-7]			
* Thyroid Gland	C Cell	Hyperplasia	Moderate
PRIMARY CAUSE OF DEATH	-		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 192

TRT#: 4

SEX: Male

DAY ON TEST: 633

DOSE: 700 MG/L

DISP: Natural Death

HISTO: 00-90935

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Epididymis
* Esophagus	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Trachea	

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Eye	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Thymus	* Thyroid Gland
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow		Leukemia Mononuclear	
* Brain		Hemorrhage	Focal, Mild
		Leukemia Mononuclear	
* Heart		Cardiomyopathy	Minimal
* Kidney		Leukemia Mononuclear	
		Nephropathy	Minimal
* Liver	Hepatocyte	Fatty Change	Marked
	Bile Duct	Hyperplasia	Moderate
		Leukemia Mononuclear	
		[Fatty Change TGLS = 7-6]	
		[Leukemia Mononuclear TGLS = 7-6]	
* Lung		Leukemia Mononuclear	
Lymph Node	Mediastinal	Leukemia Mononuclear	
	Pancreatic	Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 8-3]	
		[Leukemia Mononuclear TGLS = 3-7]	
* Lymph Node, Mesenteric		Leukemia Mononuclear	
		[Leukemia Mononuclear TGLS = 6-5]	
Mesentery		Leukemia Mononuclear	
* Pancreas		Leukemia Mononuclear	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 192

TRT#: 4

SEX: Male

DAY ON TEST: 633

DOSE: 700 MG/L

DISP: Natural Death

HISTO: 00-90935

ORGAN AND ACCOUNTABLE SITE STATUS

* Parathyroid Gland		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
		Leukemia Mononuclear	
* Preputial Gland		Hyperplasia	Cystic, Mild
		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 1-8]			
* Prostate		Leukemia Mononuclear	
* Salivary Glands		Leukemia Mononuclear	
* Seminal Vesicle		Leukemia Mononuclear	
* Skin	Subcut Tiss	Leukemia Mononuclear	
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 4-6]			
* Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Leukemia Mononuclear	
		Ulcer	Mild
[Leukemia Mononuclear TGLS = 5-4, 5-21]			
* Stomach, Glandular		Leukemia Mononuclear	
* Testes	Interstit Cell	Adenoma	
[Adenoma TGLS = 2-7]			
Tissue NOS	Mediastinum	Leukemia Mononuclear	
PRIMARY CAUSE OF DEATH	- Liver Leukemia Mononuclear		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 193

TRT#: 4

SEX: Male

DAY ON TEST: 644

DOSE: 700 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93131

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Harderian Gland	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Pancreas	* Parathyroid Gland
Peripheral Nerve	* Salivary Glands	* Seminal Vesicle	* Skin
Spinal Cord	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Leukemia Mononuclear Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Eye	Retina	Degeneration	Moderate
[Degeneration TGLS = 8-44]			
* Heart		Thrombosis	Moderate
[Thrombosis TGLS = 12-5]			
* Kidney	Cortex	Necrosis Nephropathy	Focal, Mild Minimal
[Necrosis TGLS = 11-5]			
* Liver	Hepatocyte Bile Duct	Fatty Change Hyperplasia Leukemia Mononuclear Vacuolization Cytoplasmic	Mild Moderate Mild
[Leukemia Mononuclear TGLS = 6-6]	Hepatocyte		
* Lung	Mediastinal	Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 5-7]			
[Leukemia Mononuclear TGLS = 7-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 193

TRT#: 4

SEX: Male

DAY ON TEST: 644

DOSE: 700 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93131

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Dilatation	Mild
Mesentery		Leukemia Mononuclear	
* Pituitary Gland	Pars Distalis	Hemorrhage	Focal, Mild
[Hemorrhage TGLS = 9-1]			
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Focal, Mild
		Inflammation	Chronic, Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
		Atrophy	Moderate
[Adenoma TGLS = 3-7]			
[Atrophy TGLS = 4-7]			
* Thyroid Gland	C Cell	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH - Liver Leukemia Mononuclear

Animal Note: TGL 10 = NCL (No Corresponding Lesion)

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 194

TRT#: 4

SEX: Male

DAY ON TEST: 732

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93872

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Nose	* Pancreas	* Parathyroid Gland
* Preputial Gland	* Salivary Glands	* Seminal Vesicle	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney		Leukemia Mononuclear	
		Nephropathy	Mild
* Liver	Hepatocyte	Fatty Change	Mild
	Bile Duct	Hyperplasia	Moderate
		Inflammation	Chronic, Minimal
		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 6-6]		
* Lung		Leukemia Mononuclear	
Lymph Node	Pancreatic	Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 4-7]		
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Mammary Gland		Dilatation	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
	[Adenoma TGLS = 5-1]		
* Prostate		Inflammation	Chronic, Mild
* Skin		Keratoacanthoma	
	[Keratoacanthoma TGLS = 1-21]		
* Spleen		Leukemia Mononuclear	
	[Leukemia Mononuclear TGLS = 3-6]		
* Testes	Bilateral, Interstit Cell	Adenoma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 194

TRT#: 4

SEX: Male

DAY ON TEST: 732

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93872

ORGAN AND ACCOUNTABLE SITE STATUS

[Adenoma TGLS = 2-7]

* Thyroid Gland

C Cell

Hyperplasia

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 195

TRT#: 4

SEX: Male

DAY ON TEST: 486

DOSE: 700 MG/L

DISP: Natural Death

HISTO: 00-88792

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Heart	* Islets, Pancreatic	* Lymph Node, Mesenteric	* Pancreas
* Parathyroid Gland	* Preputial Gland	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Thyroid Gland	

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Kidney		Nephropathy	Mild
* Liver	Hepatocyte	Basophilic Focus	
		Fatty Change	Mild
	Bile Duct	Hepatodiaphragmatic Nodule	Mild
		Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Minimal
	Hepatocyte	Inflammation	Chronic, Minimal
	[Hepatodiaphragmatic Nodule TGLS = 4-21]	Vacuolization Cytoplasmic	Minimal
* Lung		Congestion	Moderate
		Hemorrhage	Moderate
		Hyperplasia	Histiocytic, Minimal
* Mammary Gland		Ectasia	Mild
* Nose	Olfactory Epi	Mineralization	Focal, Mild
	[Mineralization TGLS = 3-9-1]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 195

TRT#: 4

SEX: Male

DAY ON TEST: 486

DOSE: 700 MG/L

DISP: Natural Death

HISTO: 00-88792

ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland
[Adenoma TGLS = 2-1]

Pars Distalis

Adenoma

* Prostate

Inflammation

Chronic, Minimal

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 196

TRT#: 4

SEX: Male

DAY ON TEST: 732

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93873

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Esophagus	* Eye	* Harderian Gland	* 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	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Skin	* Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

* Bone Marrow	Erythroid Cell, Myeloid Cell	Hyperplasia	Moderate
* Epididymis		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 7-7]			
* Kidney	Renal Tubule	Nephropathy	Mild
		Pigmentation	Moderate
* Liver	Hepatocyte	Basophilic Focus	Minimal
	Bile Duct	Fatty Change	Moderate
		Hyperplasia	Mixed Cell, Mild
		Infiltration Cellular	Chronic, Mild
[Basophilic Focus TGLS = 6-6]		Inflammation	
Lymph Node	Pancreatic	Ectasia	Moderate
	Mediastinal	Hyperplasia	Histiocytic, Moderate
[Ectasia TGLS = 7-7]			
[Hyperplasia TGLS = 4-3]			
Mesentery		Mesothelioma Malignant	
[Mesothelioma Malignant TGLS = 2-7, 2-21]			
* Pancreas	Acinus	Atrophy	Focal, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03
Test Type: CHRONIC
Route: DOSED WATER
Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014
Time Report Requested: 23:17:41
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 196	TRT#: 4 DOSE: 700 MG/L	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 732 HISTO: 00-93873
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ORGAN AND ACCOUNTABLE SITE STATUS

* Pituitary Gland [Adenoma TGLS = 5-1]	Pars Distalis	Adenoma	
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Testes [Adenoma TGLS = 3-7]	Bilateral, Interstit Cell	Adenoma	
* Thyroid Gland	C Cell Follicular Cel	Hyperplasia Hyperplasia	Minimal Cystic, Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 197

TRT#: 4

SEX: Male

DAY ON TEST: 732

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93874

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Vacuolization Cytoplasmic	Focal, Minimal
* Adrenal Medulla		Pheochromocytoma Benign	
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Inflammation	Chronic, Minimal
		Leukemia Mononuclear	
	Hepatocyte	Vacuolization Cytoplasmic	Mild
[Clear Cell Focus TGLS = 4-21]			
Lymph Node	Pancreatic	Ectasia	Moderate
	Pancreatic	Leukemia Mononuclear	
[Ectasia TGLS = 3-7]			
[Leukemia Mononuclear TGLS = 3-7]			
* Lymph Node, Mesenteric		Leukemia Mononuclear	
* Pancreas	Acinus	Atrophy	Focal, Mild
	Duct	Cyst	Focal, Multiple, Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 197

TRT#: 4

SEX: Male

DAY ON TEST: 732

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93874

ORGAN AND ACCOUNTABLE SITE STATUS

* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Focal, Mild
* Spleen		Leukemia Mononuclear	
[Leukemia Mononuclear TGLS = 2-6]			
* Testes	Bilateral, Interstit Cell	Adenoma	
[Adenoma TGLS = 1-7]			
* Thyroid Gland	C Cell	Adenoma	
	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 198

TRT#: 4

SEX: Male

DAY ON TEST: 732

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93875

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* 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
* Parathyroid Gland	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Kidney		Nephropathy	Mild
* Liver		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Mild
	[Vacuolization Cytoplasmic TGLS = 2-6]		
* Pancreas	Acinus	Atrophy	Focal, Mild
	Duct	Cyst	Focal, Multiple, Minimal
* Pituitary Gland	Pars Distalis	Cytoplasmic Alteration	Focal, Minimal
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate	Epithelium	Hyperplasia	Focal, Mild
* Testes	Bilateral, Interstit Cell	Adenoma	
	[Adenoma TGLS = 1-7]		
* Thyroid Gland	C Cell	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 198

TRT#: 4

SEX: Male

DAY ON TEST: 732

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93875

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 199

TRT#: 4

SEX: Male

DAY ON TEST: 731

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93876

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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	* Preputial Gland	* Salivary Glands
* Seminal Vesicle	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
* Bone Marrow	Erythroid Cell, Myeloid Cell	Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Mild
* Liver		Basophilic Focus	
		Clear Cell Focus	
		Degeneration	Cystic, Focal, Mild
	Hepatocyte	Fatty Change	Minimal
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Mild
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
	[Basophilic Focus TGLS = 3-6]		
	[Clear Cell Focus TGLS = 3-6]		
* Lymph Node, Mesenteric		Hyperplasia	Histiocytic, Moderate
* Pancreas	Acinus	Adenoma	
	Duct	Cyst	Focal, Multiple, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Prostate		Inflammation	Chronic, Moderate
* Skin	Subcut Tiss	Fibroma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 199

TRT#: 4

SEX: Male

DAY ON TEST: 731

DOSE: 700 MG/L

DISP: Terminal Sacrifice

HISTO: 00-93876

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroma TGLS = 1-21]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 2-7]

* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

Time Report Requested: 23:17:41

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 200

TRT#: 4

SEX: Male

DAY ON TEST: 705

DOSE: 700 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93877

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* 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	* Parathyroid Gland
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Minimal
		Necrosis	Focal, Mild
* Adrenal Medulla		Hyperplasia	Focal, Minimal
* Kidney	Pelvis, Transit Epithe	Hyperplasia	Mild
		Nephropathy	Mild
* Liver	Hepatocyte	Fatty Change	Mild
	Bile Duct	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
		Inflammation	Chronic, Minimal
	Centrilobular, Hepatocyte	Necrosis	Mild
	Hepatocyte	Vacuolization Cytoplasmic	Minimal
	[Vacuolization Cytoplasmic TGLS = 4-6]		
* Pancreas	Acinus	Adenoma	
	Acinus	Atrophy	Focal, Minimal
	Duct	Cyst	Focal, Multiple, Mild
* Pituitary Gland	Pars Distalis	Cyst	Mild
	[Cyst TGLS = 5-1]		
* Preputial Gland		Inflammation	Chronic, Mild
* Prostate		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibroma	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 96018-03

Test Type: CHRONIC

Route: DOSED WATER

Species/Strain: Rat/F 344/N

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Water disinfection byproducts (Bromodichloromethane)

Date Report Requested: 10/19/2014

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First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 200

TRT#: 4

SEX: Male

DAY ON TEST: 705

DOSE: 700 MG/L

DISP: Moribund Sacrifice

HISTO: 00-93877

ORGAN AND ACCOUNTABLE SITE STATUS

[Fibroma TGLS = 1-21]

* Testes

Bilateral, Interstit Cell

Adenoma

[Adenoma TGLS = 2-7]

* Thyroid Gland

C Cell

Hyperplasia

Mild

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibroma

**** END OF REPORT ****

* PROTOCOL REQUIRED TISSUE