Study Number: 120045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N

C Number:

Study Gender:

PWG Approval Date

PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8

l20045

Female See web page for date of PWG Approval Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS

Study Number: I20045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Patholo Test Compound: Phenanthre CAS Number: 85-01-8	gy Data ne	Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS
ANIMAL ID: 137	TRT#: PC1 SELECTION: Immunopath Cohort	DOSE: 50 mg/kg CPS	SEX: Female DISP: Scheduled Removal (Termina	REMOVAL DAY: SD28 al) HISTO: 24645
Animal Note: DJC				

Study Number: I20045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N	tudy Number: I20045PA14: Individual Animal Pathest Type: TOXTest Compound: Phenaroute: Oral GavageCAS Number: 85-01pecies/Strain: Mouse/B6C3F1/NCAS Number: 85-01		ogy Data ene	Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS
ANIMAL ID: 138	TRT#: PC1 SELECTION: Immunopath Cohort	DOSE: 50 mg/kg CPS	SEX: Female DISP: Scheduled Removal (Termina	REMOVAL DAY: SD28 al) HISTO: 24616
Animal Note: DJC				

Study Number: I20045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Patholo Test Compound: Phenanthre CAS Number: 85-01-8	gy Data ne	Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS
ANIMAL ID: 139	TRT#: PC1 SELECTION: Immunopath Cohort	DOSE: 50 mg/kg CPS	SEX: Female DISP: Scheduled Removal (Termina	REMOVAL DAY: SD28 al) HISTO: 24634
Animal Note: DJC				

Study Number: I20045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N	045 PA14: Individual Animal Path Test Compound: Phena CAS Number: 85-01 use/B6C3F1/N		gy Data ne	Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS
ANIMAL ID: 140	TRT#: PC1 SELECTION: Immunopath Cohort	DOSE: 50 mg/kg CPS	SEX: Female DISP: Scheduled Removal (Termina	REMOVAL DAY: SD28 al) HISTO: 24543
Animal Note: DJC				

Study Number: I20045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N	tudy Number: I20045PA14: Individual Animal Pathest Type: TOXTest Compound: Phenaroute: Oral GavageCAS Number: 85-01pecies/Strain: Mouse/B6C3F1/NCAS Number: 85-01		ngy Data ene	Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS
ANIMAL ID: 141	TRT#: PC1 SELECTION: Immunopath Cohort	DOSE: 50 mg/kg CPS	SEX: Female DISP: Scheduled Removal (Termin	REMOVAL DAY: SD28 al) HISTO: 24518
Animal Note: DJC				

Study Number: I20045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N	Iy Number: 120045PA14: Individual Animal PathType: TOXTest Compound: Phenarte: Oral GavageCAS Number: 85-01cies/Strain: Mouse/B6C3F1/NCAS Number: 85-01		gy Data ne	Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS
ANIMAL ID: 142	TRT#: PC1 SELECTION: Immunopath Cohort	DOSE: 50 mg/kg CPS	SEX: Female DISP: Scheduled Removal (Termin	REMOVAL DAY: SD28 al) HISTO: 24574
Animal Note: DBK				

Study Number: I20045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N	tudy Number: I20045PA14: Individual Animal Pathest Type: TOXTest Compound: Phenaroute: Oral GavageCAS Number: 85-01pecies/Strain: Mouse/B6C3F1/NCAS Number: 85-01		ngy Data ene	Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS
ANIMAL ID: 143	TRT#: PC1 SELECTION: Immunopath Cohort	DOSE: 50 mg/kg CPS	SEX: Female DISP: Scheduled Removal (Termina	REMOVAL DAY: SD28 al) HISTO: 24571
Animal Note: DJC				

Study Number: I20045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N	20045 PA14: Individual Animal Path Test Compound: Phenar ge CAS Number: 85-01 Mouse/B6C3F1/N		gy Data ne	Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS
ANIMAL ID: 144	TRT#: PC1 SELECTION: Immunopath Cohort	DOSE: 50 mg/kg CPS	SEX: Female DISP: Scheduled Removal (Termin	REMOVAL DAY: SD28 al) HISTO: 24572
Animal Note: DJH				

Study Number: 120045 PA14: Individual Animal Pathology Data		Pathology Data	Date Report Requested: 07/30/2019		
Test Type: TOX		Test Compound: Phenanthrene		Time Report Requested: 12:26:14	
Route: Oral Gavage		CAS Number: 8	5-01-8	Lab: BRT with ILS	
Species/Strain: Mouse/B6C3F1/N					
ANIMAL ID: 25	TRT#: TA1	DOSE: 12.5 mg/kg	SEX: Female	REMOVAL DAY: SD28	
	SELECTION: Immunopath Cohort	DISP: Scheduled Removal ((Terminal) HISTO: 24540	
		TISSUE STATUS			
No Visible Lesions					
ANIMAL IDENTIFICATION	BALT	BONE	MARROW B	ONE, FEMUR, LEFT	
KIDNEY, RIGHT	LIVER	LYMPH	NODE, MESENTERIC	YMPH NODE, POPLITEAL	
OVARY, LEFT	SPLEEN				
OBSERVATIONS					
ADRENAL GLAND, RIGHT		HYPERP	LASIA SU	BCAPSULAR, MILD	
LUNG	PLEURA	INFLAM	IATION CH	RONIC-ACTIVE, MILD	
LYMPH NODE, POPLITEAL					
Tissue Comment: Only one of a	pair available for evaluation.				
THYMUS		CYST			
Observation Comment: Present	per PWG consensus				
Animal Note: DJC					

Study Number: I20045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1	lumber: I20045PA14: Individual Animal Pathology Datape: TOXTest Compound: PhenanthreneDral GavageCAS Number: 85-01-8//Strain: Mouse/B6C3F1/N		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS		
ANIMAL ID: 26	TRT#: TA1 SELECTION: Immunopath Cohort	DOSE: 12.5 mg/kg	SEX: Female DISP: Scheduled Rem	oval (Terminal)	REMOVAL DAY: SD28 HISTO: 24555
		TISSUE STATUS			
No Visible Lesions					
BALT	BONE MARROW	BONE,	FEMUR, LEFT	KIDNE	Y, RIGHT
LIVER	LYMPH NODE, MESENTE	ERIC LYMPH	I NODE, POPLITEAL	OVAR	Y, LEFT
SPLEEN					
OBSERVATIONS					
ADRENAL GLAND, RIGHT		HYPERP	LASIA	SUBCAR	PSULAR, MILD
LUNG		CONGES	STION	MILD	
[CONGESTION TGLS	= TGL1-1]				
LYMPH NODE, POPLITEAL					
Tissue Comment: One of a p	air available fore evaluation.				
THYMUS		CYST			
Observation Comment: Pres	ent per PWG consensus				
	· · · · · · · · · · · · · · · · · · ·				

Animal Note: Provantis session corrupted locking data entry for this animal. Therefore, death details, gross observations, and organ weights were recorded on paper and the raw data maintained in the study record. The raw data was transcribed into Provantis retrospectively.

Study Number: 120045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS	
ANIMAL ID: 27	TRT#: TA1 SELECTION: Immunopath Cohort	DOSE: 12.5 mg/kg	SEX: Female DISP: Scheduled Removal (Term	REMOVAL DAY: SD28 inal) HISTO: 24588	
		TISSUE STATUS			
No Visible Lesions					
BALT	BONE MARROW	BONE,	FEMUR, LEFT	KIDNEY, RIGHT	
LIVER	LUNG	LYMPH	NODE, MESENTERIC	LYMPH NODE, POPLITEAL	
OVARY, LEFT	SPLEEN				
OBSERVATIONS					
ADRENAL GLAND, RIGHT		HYPERF	LASIA S	UBCAPSULAR, MILD	
LYMPH NODE, POPLITEAL					
Tissue Comment: One of a pair	available fore evaluation. Cortex and interfoll	icular area not present on slide.			
THYMUS		CYST			
Animal Note: DJC					

Study Number: I20045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS
ANIMAL ID: 28	TRT#: TA1 SELECTION: Immunopath Cohort	DOSE: 12.5 mg/kg	SEX: Female DISP: Scheduled Removal (Te	REMOVAL DAY: SD28 erminal) HISTO: 24587
		TISSUE STATUS		
No Visible Lesions				
BALT	BONE MARROW	BONE,	FEMUR, LEFT	KIDNEY, RIGHT
LIVER	LYMPH NODE, MESENTERI	C LYMPH	NODE, POPLITEAL	OVARY, LEFT
SPLEEN	THYMUS			
OBSERVATIONS				
ADRENAL GLAND, RIGHT		HYPERP	LASIA	SUBCAPSULAR, MILD
LUNG		CONGES	TION	MILD
[CONGESTION TGLS = TG	L1-1]			
LYMPH NODE, POPLITEAL				
Tissue Comment: One of a pair av	ailable fore evaluation.			
Animal Note: DJC				

Study Number: I20045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS	
ANIMAL ID: 29	TRT#: TA1 SELECTION: Immunopath Cohort	DOSE: 12.5 mg/kg	SEX: Female DISP: Scheduled Removal (Termina	REMOVAL DAY: SD28	
		TISSUE STATUS			
No Visible Lesions					
BALT	BONE MARROW	BONE,	FEMUR, LEFT LIV	′ER	
LUNG	LYMPH NODE, MESENTERI	C LYMPH	I NODE, POPLITEAL OV	'ARY, LEFT	
SPLEEN					
OBSERVATIONS					
ADRENAL GLAND, RIGHT		HYPERP	LASIA SUB	CAPSULAR, MILD	
KIDNEY, RIGHT		NO COR	RESPONDING LESION		
[NO CORRESPONDING	ELESION TGLS = TGL1-NCL]				
LYMPH NODE, POPLITEAL					
Tissue Comment: One of a pai	r available fore evaluation.				
THYMUS		CYST			
Animal Note: DBK					

Study Number: I20045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Dat Tim Lat	Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS	
ANIMAL ID: 30	TRT#: TA1 SELECTION: Immunopath Cohort	DOSE: 12.5 mg/kg	SEX: Female DISP: Scheduled Removal (Terminal)	REMOVAL DAY: SD28 HISTO: 24630	
		TISSUE STATUS				
No Visible Lesions						
BALT	BONE MARROW	BONE,	FEMUR, LEFT	KIDNE	EY, RIGHT	
LIVER	LYMPH NODE, MESENTERI	C LYMPH	NODE, POPLITEAL	OVAR	Y, LEFT	
THYMUS						
OBSERVATIONS						
ADRENAL GLAND, RIGHT		HYPERPI	LASIA	SUBCA	PSULAR, MINIMAL	
LUNG	PLEURA	INFLAMM	IATION	CHRON	IC-ACTIVE, MINIMAL	
SPLEEN		NO CORE	RESPONDING LESION			
[NO CORRESPONDING LES	SION TGLS = TGL1-NCL]					
THYMUS						
Tissue Comment: Considerable see	ctioning artifact is present.					
Animal Note: DJH						

Study Number: I20045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS	
ANIMAL ID: 31	TRT#: TA1 SELECTION: Immunopath Cohort	DOSE: 12.5 mg/kg	SEX: Female DISP: Scheduled Removal (Terminal)	REMOVAL DAY: SD28 HISTO: 24605	
		TISSUE STATUS			
No Visible Lesions					
ADRENAL GLAND, RIGHT	BALT	BONE	MARROW BON	E, FEMUR, LEFT	
LIVER	LUNG	LYMPH	I NODE, MESENTERIC LYMI	PH NODE, POPLITEAL	
OVARY, LEFT	SPLEEN				
OBSERVATIONS					
KIDNEY, RIGHT		NEPHRC	PATHY MINIM	AL	
LYMPH NODE, POPLITEAL					
Tissue Comment: One of a pair av	ailable fore evaluation.				
THYMUS		CYST			
Observation Comment: Present pe	er PWG consensus				
Animal Note: DBK					

Study Number: I20045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS	
ANIMAL ID: 32	TRT#: TA1	DOSE: 12.5 mg/kg	SEX: Female		REMOVAL DAY: SD28
	SELECTION: Immunopath Cohort		DISP: Scheduled Removal (Terminal)	HISTO: 24598
		TISSUE ST	ATUS		
No Visible Lesions					
BALT	BONE MARROW	E	BONE, FEMUR, LEFT	LIVER	
LUNG	LYMPH NODE, MESENTERIC	C L	YMPH NODE, POPLITEAL	OVAR	Y, LEFT
SPLEEN	THYMUS				
OBSERVATIONS					
ADRENAL GLAND, RIGHT		HY	PERPLASIA	SUBCAR	PSULAR, MILD
KIDNEY, RIGHT		NC	CORRESPONDING LESION		
[NO CORRESPONDING LES	SION TGLS = TGL1-NCL]				
THYMUS					
Tissue Comment: Medulla not prese	ent on slide.				
Animal Note: DJC					

Study Number: 120045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/86C3E1/b		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS
ANIMAL ID: 41	TRT#: TA2 SELECTION: Immunopath Cohort	DOSE: 25 mg/kg	SEX: Female DISP: Euthanized Moribund	REMOVAL DAY: SD5 HISTO: 24509
PRIMARY CAUSE OF DEATH	- UNDETERMINED			
Animal Note: - internal organs appea - food in stomach and intestines - blood in thoracic cavity - nicking trachea did not reveal obvic no obvicus ciago of gauge trauge	r normal us signs of installation of dosing solution			

- no obvious signs of gavage trauma

Study Number: I20045PA14: Individual Animal Pathology DataFest Type: TOXTest Compound: PhenanthreneSoute: Oral GavageCAS Number: 85-01-8Species/Strain: Mouse/B6C3F1/NCAS Number: 85-01-8		Pathology Data henanthrene 35-01-8	Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS	
ANIMAL ID: 42	TRT#: TA2 SELECTION: Immunopath Cohort	DOSE: 25 mg/kg	SEX: Female DISP: Euthanized Moribund	REMOVAL DAY: SD11 HISTO: 24506
PRIMARY CAUSE OF DEATH	- GAVAGE ACCIDENT			
Animal Note: - food in stomach - intestines empty - major organs appear normal - oil and blood in thoracic cavity				

Study Number: I20045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS	
ANIMAL ID: 43	TRT#: TA2 SELECTION: Immunopath Cohort	DOSE: 25 mg/kg	SEX: Female DISP: Scheduled Removal (T	erminal)	REMOVAL DAY: SD28 HISTO: 24594
		TISSUE STA	ATUS		
No Visible Lesions					
BALT	BONE MARROW	В	ONE, FEMUR, LEFT	KIDN	EY, RIGHT
LIVER	LUNG	LY	YMPH NODE, MESENTERIC	LYMF	PH NODE, POPLITEAL
OVARY, LEFT	SPLEEN				
OBSERVATIONS					
ADRENAL GLAND, RIGHT		HYF	PERPLASIA	SUBCA	NPSULAR, MILD
THYMUS		CYS	ST		
Animal Note: DJC					

Study Number: 120045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS	
ANIMAL ID: 44	TRT#: TA2	DOSE: 25 mg/kg	SEX: Female	REMOVAL DAY: SD28	
	SELECTION: Immunopath Cohort		DISP: Scheduled Rer	noval (Terminal) HISTO: 24562	
		TISSUE	STATUS		
No Visible Lesions					
BALT	BONE MARROW		BONE, FEMUR, LEFT	KIDNEY, RIGHT	
LIVER	LYMPH NODE, MESENTE	ERIC	LYMPH NODE, POPLITEAL	OVARY, LEFT	
SPLEEN					
OBSERVATIONS					
ADRENAL GLAND, RIGHT			HYPERPLASIA	SUBCAPSULAR, MILD	
LUNG	ARTERY, PULMONARY		INFLAMMATION	CHRONIC-ACTIVE, MINIMAL	
THYMUS			CYST		
Animal Note: DBK					

Study Number: I20045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS
ANIMAL ID: 45	TRT#: TA2 SELECTION: Immunopath Cohort	DOSE: 25 mg/kg	SEX: Female DISP: Scheduled Removal (Ter	REMOVAL DAY: SD28 rminal) HISTO: 24521
		TISSUE	STATUS	
No Visible Lesions				
BALT	BONE MARROW		BONE, FEMUR, LEFT	LIVER
LUNG	LYMPH NODE, MESENTE	RIC	LYMPH NODE, POPLITEAL	OVARY, LEFT
THYMUS				
OBSERVATIONS				
ADRENAL GLAND, RIGHT			HYPERPLASIA	SUBCAPSULAR, MILD
KIDNEY, RIGHT			INFLAMMATION	CHRONIC, MINIMAL
SPLEEN			NO CORRESPONDING LESION	
[NO CORRESPONDING LE	SION TGLS = TGL1-NCL]			
Animal Note: DJH				

itudy Number: 120045PA14: Individual Animal Pariest Type: TOXTest Compound: Phenaioute: Oral GavageCAS Number: 85-0Species/Strain: Mouse/B6C3F1/NSpecies/Strain: Mouse/B6C3F1/N		mal Pathology Data d: Phenanthrene per: 85-01-8	Dat Tin Lat	e Report Requested: 07/30/2019 ne Report Requested: 12:26:14 o: BRT with ILS	
ANIMAL ID: 46	TRT#: TA2 SELECTION: Immunopath Cohort	DOSE: 25 mg/kg	SEX: Female DISP: Scheduled Remo	oval (Terminal)	REMOVAL DAY: SD28 HISTO: 24549
		TISSUE STA	TUS		
No Visible Lesions					
BALT	BONE MARROW	BO	ONE, FEMUR, LEFT	LIVER	1
LUNG	LYMPH NODE, MESENTERIO	C LY	MPH NODE, POPLITEAL	OVAR	Y, LEFT
SPLEEN					
OBSERVATIONS					
ADRENAL GLAND, RIGHT		HYF	PERPLASIA	SUBCA	PSULAR, MILD
KIDNEY, RIGHT	PAPILLA	MIN	ERALIZATION	MILD	
LYMPH NODE, POPLITEAL					
Tissue Comment: One of a pair	available fore evaluation.				
THYMUS		CYS	ST		
Observation Comment: Present	per PWG consensus				
Animal Note: DJC					

Study Number: I20045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS	
ANIMAL ID: 47	TRT#: TA2 SELECTION: Immunopath Cohort	DOSE: 25 mg/kg	SEX: Female DISP: Scheduled Removal (Terminal)	REMOVAL DAY: SD28 HISTO: 24576	
		TISSUE STATUS			
No Visible Lesions					
BALT	BONE MARROW	BONE, FEMUR,	LEFT KIDN	EY, RIGHT	
LIVER	LYMPH NODE, MESENTERI	C LYMPH NODE,	POPLITEAL OVAF	RY, LEFT	
SPLEEN					
OBSERVATIONS					
ADRENAL GLAND, RIGHT		HYPERPLASIA	SUBCA	PSULAR, MILD	
LUNG	PLEURA	INFLAMMATION	CHRON	NC-ACTIVE, MILD	
[INFLAMMATION TGLS = TG	GL2-1]				
LYMPH NODE, POPLITEAL					
Tissue Comment: One of a pair ava	ilable fore evaluation.				
THYMUS		CYST			
		NO CORRESPON	IDING LESION		
[NO CORRESPONDING LES	SION TGLS = TGL3-NCL]				
Animal Note: DJH					

Study Number: I20045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS
ANIMAL ID: 48	TRT#: TA2 SELECTION: Immunopath Cohort	DOSE: 25 mg/kg	SEX: Female DISP: Scheduled Removal (Termin	REMOVAL DAY: SD28 HISTO: 24539
		TISSUE	STATUS	
No Visible Lesions				
BALT	BONE MARROW		BONE, FEMUR, LEFT L	IVER
LUNG	LYMPH NODE, MESENTER	RIC	LYMPH NODE, POPLITEAL O	VARY, LEFT
SPLEEN	THYMUS			
OBSERVATIONS				
ADRENAL GLAND, RIGHT			HYPERPLASIA SUI	BCAPSULAR, MILD
KIDNEY, RIGHT			INFLAMMATION CH	RONIC, MINIMAL
LYMPH NODE, POPLITEAL				
Tissue Comment: One of a pair av	ailable fore evaluation.			
Animal Note: DJC				

Study Number: I20045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS	
ANIMAL ID: 57	TRT#: TA3 SELECTION: Immunopath Cohort	DOSE: 50 mg/kg	E: 50 mg/kg SEX: Female DISP: Scheduled Removal (Te		REMOVAL DAY: SD28 HISTO: 24581
		TISSUE S	TATUS		
No Visible Lesions					
BALT	BONE MARROW		BONE, FEMUR, LEFT	KIDNE	EY, RIGHT
LIVER	LYMPH NODE, MESENTERI	C	LYMPH NODE, POPLITEAL	OVAR	RY, LEFT
SPLEEN	THYMUS				
OBSERVATIONS					
ADRENAL GLAND, RIGHT		H	HYPERPLASIA	SUBCA	PSULAR, MILD
LUNG		(CONGESTION	MILD	
[CONGESTION TGLS = TGI	_1-1]				
LYMPH NODE, POPLITEAL					
Tissue Comment: One of a pair ava	ailable fore evaluation.				
Animal Note: DBK					

Study Number: 120045 Test Type: TOX Route: Oral Gavage		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS
Species/Strain: Mouse/B6C3F1/N				
ANIMAL ID: 58	TRT#: TA3 SELECTION: Immunopath Cohort	DOSE: 50 mg/kg	SEX: Female DISP: Euthanized Moribund	REMOVAL DAY: SD4 HISTO: 24546
PRIMARY CAUSE OF DEATH	- UNDETERMINED			
Animal Note: - internal organs appea - stomach, intestines full and appear - no food/oil pocket to suggest traum: - nicking trachea did not release oil	r normal normal a			

- animal became moribund quickly following dosing, suggestive of aspiration of doing solution

Study Number: I20045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Dat Tin Lat	te Report Requested: 07/30/2019 ne Report Requested: 12:26:14 o: BRT with ILS
ANIMAL ID: 59	TRT#: TA3 SELECTION: Immunopath Cohort	DOSE: 50 mg/kg	SEX: Female DISP: Scheduled Remo	oval (Terminal)	REMOVAL DAY: SD28 HISTO: 24585
		TISSUE STAT	US		
No Visible Lesions					
BALT	BONE MARROW	BOI	NE, FEMUR, LEFT	KIDNE	EY, RIGHT
LIVER	LYMPH NODE, MESENTER	IC LYN	IPH NODE, POPLITEAL	OVAR	RY, LEFT
SPLEEN					
OBSERVATIONS					
ADRENAL GLAND, RIGHT		HYPE	RPLASIA	SUBCA	PSULAR, MILD
LUNG		CON	GESTION	MODER	RATE
[CONGESTION TGLS = 7	GL1-1]				
LYMPH NODE, POPLITEAL					
Tissue Comment: One of a pair	available fore evaluation.				
THYMUS		CYST	-		
Animal Note: DJC					

Study Number: 120045 Test Type: TOX Route: Oral Gavage		PA14: Individual Animal Test Compound: P CAS Number:	Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS	
Species/Strain: Mouse/B6C3F1/N				
ANIMAL ID: 60	TRT#: TA3	DOSE: 50 mg/kg	SEX: Female	REMOVAL DAY: SD5
	SELECTION: Immunopath Cohort		DISP: Euthanized Moribund	HISTO: 24615
PRIMARY CAUSE OF DEATH	- GAVAGE ACCIDENT			
Animal Note: - internal organs appear - food/oil in thoracic cavity	normal			

- little food in stomach, almost none in intestine

Study Number: I20045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS	
ANIMAL ID: 61	TRT#: TA3 SELECTION: Immunopath Cohort	DOSE: 50 mg/kg	g SEX: Female DISP: Scheduled Removal (Terminal)		REMOVAL DAY: SD28 HISTO: 24602
		TISSUE	STATUS		
No Visible Lesions					
BALT	BONE MARROW		BONE, FEMUR, LEFT	KIDNE	Y, RIGHT
LIVER	LUNG		LYMPH NODE, MESENTERIC	OVAR	Y, LEFT
SPLEEN					
NOT PRESENT					
LYMPH NODE, POPLITEAL					
OBSERVATIONS					
ADRENAL GLAND, RIGHT			HYPERPLASIA	SUBCA	PSULAR, MILD
ESOPHAGUS			INFLAMMATION	CHRON	IC, MINIMAL
THYMUS			CYST		
Animal Note: DJC					

Study Number: I20045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS
ANIMAL ID: 62	TRT#: TA3	DOSE: 50 mg/kg	SEX: Female	REMOVAL DAY: SD28
	SELECTION: Immunopath Cohort		DISP: Scheduled Removal (Term	inal) HISTO: 24519
		TISSUE S	TATUS	
No Visible Lesions				
BALT	BONE MARROW		BONE, FEMUR, LEFT	KIDNEY, RIGHT
LIVER	LUNG		LYMPH NODE, MESENTERIC	LYMPH NODE, POPLITEAL
OVARY, LEFT	SPLEEN		THYMUS	
OBSERVATIONS				
ADRENAL GLAND, RIGHT		F	IYPERPLASIA S	UBCAPSULAR, MILD
LYMPH NODE, MESENTERIC				
Tissue Comment: Inadequate due	e to superficial sectioning			
Animal Note: DJH				

Study Number: 120045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology DataDataTest Compound: PhenanthreneTransmissionCAS Number: 85-01-8Lata		ate Report Requested: 07/30/2019 me Report Requested: 12:26:14 ab: BRT with ILS
ANIMAL ID: 63	TRT#: TA3 SELECTION: Immunopath Cohort	DOSE: 50 mg/kg	SEX: Female DISP: Dosing Accident, Found Dea	REMOVAL DAY: SD10 d HISTO: 24565
PRIMARY CAUSE OF DEATH	- UNDETERMINED			
Animal Note: Mouse died immediately - internal organs appear normal - no obvious signs of gayage trauma	following gavage			

- oil and food in stomach

Study Number: 120045	PA14: Individual Animal Pathology Data		Date Report Requested: 07/30/2019			
Test Type: TOX Route: Oral Gavage		Test Compound: Phenanthrene		Time Report Reques	Time Report Requested: 12:26:14	
		CAS Numbe	r: 85-01-8	Lab: BRT with ILS	Lab: BRT with ILS	
Species/Strain: Mouse/B6C3F1/N						
ANIMAL ID: 64	TRT#: TA3	DOSE: 50 mg/kg	SEX: Female	REMOVAL DAY	: SD28	
	SELECTION: Immunopath Cohort		DISP: Scheduled Re	moval (Terminal) HISTO: 24613		
		TISSUE STAT	US			
No Visible Lesions						
BALT	BONE MARROW	BON	NE, FEMUR, LEFT	LIVER		
LYMPH NODE, MESENTERIC	LYMPH NODE, POPLITEAL	OVA	ARY, LEFT	SPLEEN		
OBSERVATIONS						
ADRENAL GLAND, RIGHT		ACCE	SSORY ADRENOCORTICAL NODU	LE		
		HYPE	RPLASIA	SUBCAPSULAR, MINIMAL		
KIDNEY, RIGHT		INFLA	AMMATION	CHRONIC, MINIMAL		
LUNG		INFLA	AMMATION	CHRONIC-ACTIVE, MINIMA	_	
THYMUS		CYST				
		NO C	ORRESPONDING LESION			
[NO CORRESPONDING LE	ESION TGLS = TGL1-NCL]					
Animal Note: DBK						

Study Number: 120045		PA14: Individual Animal Pathology Data		Date Report Requested: 07/30/2019	
Test Type: TOX		Test Compound: Phen	anthrene	Time Report Requested: 12:26:14	
Route: Oral Gavage		CAS Number: 85-0	01-8	Lab: BRT with ILS	
Species/Strain: Mouse/B6C3F1/N					
ANIMAL ID: 73	TRT#: TA4	DOSE: 100 mg/kg	SEX: Female	REMOVAL DAY: SD28	
	SELECTION: Immunopath Cohort	DISP: Scheduled Remov		inal) HISTO: 24655	
		TISSUE STATUS			
No Visible Lesions					
BALT	BONE MARROW	BONE, FE	MUR, LEFT	LIVER	
LYMPH NODE, MESENTERIC	LYMPH NODE, POPLITEAL	OVARY, L	EFT	THYMUS	
OBSERVATIONS					
ADRENAL GLAND, RIGHT		HYPERPLA	SIA S	UBCAPSULAR, MILD	
KIDNEY, RIGHT		INFLAMMA	FION C	HRONIC, MINIMAL	
LUNG		CONGESTI	ON M	INIMAL	
[CONGESTION TGLS = TGL	1-1]				
LYMPH NODE, POPLITEAL					
Tissue Comment: Medullary Cords	and Subcapsular/transverse medullary sinu	ses not present in section.			
SPLEEN		NO CORRE	SPONDING LESION		
[NO CORRESPONDING LES	SION TGLS = TGL2-NCL]				
Animal Note: DBK					

Study Number: I20045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS
ANIMAL ID: 74	TRT#: TA4	DOSE: 100 mg/kg	SEX: Female	REMOVAL DAY: SD28
	SELECTION: Immunopath Cohort	DISP: Scheduled Remo		nal) HISTO: 24593
		TISSUE STATUS	5	
No Visible Lesions				
BALT	BONE MARROW	BONE,	FEMUR, LEFT	KIDNEY, RIGHT
LIVER	LUNG	LYMPH	I NODE, MESENTERIC	YMPH NODE, POPLITEAL
OVARY, LEFT	SPLEEN			
OBSERVATIONS				
ADRENAL GLAND, RIGHT		HYPERP	LASIA SL	JBCAPSULAR, MINIMAL
THYMUS		CYST		
Observation Comment: Present p	per PWG consensus			
Animal Note: DBK				

Study Number: I20045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS
ANIMAL ID: 75	TRT#: TA4 SELECTION: Immunopath Cohort	DOSE: 100 mg/kg	SEX: Female DISP: Euthanized Moribund	REMOVAL DAY: SD8 HISTO: 24527
PRIMARY CAUSE OF DEATH	- GAVAGE ACCIDENT			
Animal Note: - internal organs appear no - food in stomach/intestines	ormal			

- oil/food in thoracic cavity
| Study Number: 120045
Test Type: TOX
Route: Oral Gavage
Species/Strain: Mouse/B6C3F1/N | | PA14: Individual Animal Pathology Data
Test Compound: Phenanthrene
CAS Number: 85-01-8
DOSE: 100 mg/kg SEX: Female | | Date Report Requested: 07/30/2019
Time Report Requested: 12:26:14
Lab: BRT with ILS | |
|--|------------------------------|---|---|---|--|
| ANIMAL ID: 76 | TRT#: TA4 | | | REMOVAL DAY: SD28 | |
| | SELECTION: Immunopath Cohort | | DISP: Scheduled Removal (Terminal) | HISTO: 24631 | |
| | | TISSUE STATU | IS | | |
| No Visible Lesions | | | | | |
| BALT | BONE MARROW | BONI | E, FEMUR, LEFT KIDN | IEY, RIGHT | |
| LIVER | LYMPH NODE, MESENTER | IC LYMF | PH NODE, POPLITEAL OVA | RY, LEFT | |
| SPLEEN | | | | | |
| OBSERVATIONS | | | | | |
| ADRENAL GLAND, RIGHT | | HYPER | RPLASIA SUBCA | APSULAR, MILD | |
| LUNG | | CONG | ESTION MINIM | AL | |
| [CONGESTION TGLS = T_{i} | GL1-1] | | | | |
| THYMUS | | CYST | | | |
| Observation Comment: Present p | per PWG consensus | | | | |
| Animal Note: DBK | | | | | |

Study Number: 120045 Test Type: TOX Route: Oral Gavage		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS
Species/Strain: Mouse/B6C3F1/N				
ANIMAL ID: 77	TRT#: TA4 SELECTION: Immunopath Cohort	DOSE: 100 mg/kg	SEX: Female DISP: Euthanized Moribund	REMOVAL DAY: SD3 HISTO: 24606
PRIMARY CAUSE OF DEATH	- GAVAGE ACCIDENT			
Animal Note: - internal organs appear - some food in stomach, but little cont - fluid in intestine - area found with food/oil consistent w	normal ents in intestine ith gavage trauma			

Study Number: I20045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS	
ANIMAL ID: 78	TRT#: TA4	DOSE: 100 mg/kg	SEX: Female		REMOVAL DAY: SD28
	SELECTION: Immunopath Coho	ť	DISP: Scheduled Remo	oval (Terminal)	HISTO: 24569
		TISSUE ST	ATUS		
No Visible Lesions					
BALT	BONE MARROW	В	ONE, FEMUR, LEFT	LIVER	3
LUNG	LYMPH NODE, MESE	NTERIC L	YMPH NODE, POPLITEAL	OVAR	RY, LEFT
SPLEEN					
OBSERVATIONS					
ADRENAL GLAND, RIGHT		HY	PERPLASIA	SUBCA	PSULAR, MILD
KIDNEY, RIGHT		INF	FLAMMATION	CHRON	NC, MINIMAL
LYMPH NODE, POPLITEAL					
Tissue Comment: Medullary Cords	and Subcapsular/transverse medullar	y sinuses not present in section.			
THYMUS		CY	ST		
Animal Note: DBK					

Study Number: I20045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS
ANIMAL ID: 79	TRT#: TA4 SELECTION: Immunopath Cohort	DOSE: 100 mg/kg	SEX: Female DISP: Euthanized Moribund	REMOVAL DAY: SD1 HISTO: 24514
PRIMARY CAUSE OF DEATH	- GAVAGE ACCIDENT			
Animal Note: - stomach full of food - large intestine full - small intestine empty - liver, kidney, spleen appear normal - food in shoulder/arm pit area of front le - heart appears normal - lungs consistent with euthanasia	oft limb with oil present			

Study Number: I20045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS	
ANIMAL ID: 80	TRT#: TA4 SELECTION: Immunopath Cohort	DOSE: 100 mg/kg	SEX: Female DISP: Scheduled Removal (Termir	REMOVAL DAY: SD28 mal) HISTO: 24551	
		TISSUE STATUS			
No Visible Lesions					
BALT	BONE MARROW	BONE,	FEMUR, LEFT K	IDNEY, RIGHT	
LIVER	LUNG	LYMPH	NODE, MESENTERIC L	YMPH NODE, POPLITEAL	
OVARY, LEFT	SPLEEN				
OBSERVATIONS					
ADRENAL GLAND, RIGHT		HYPERPI	LASIA SU	BCAPSULAR, MILD	
THYMUS		CYST			
Animal Note: DJH					

Study Number: 120045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS	
ANIMAL ID: 89	TRT#: TA5 SELECTION: Immunopath Cohort	DOSE: 200 mg/kg	SEX: Female DISP: Scheduled Removal (Te	REMOVAL DAY: SD28 erminal) HISTO: 24652	
		TISSUE STATUS	6		
No Visible Lesions					
BALT	BONE MARROW	BONE,	FEMUR, LEFT	KIDNEY, RIGHT	
LIVER	LUNG	LYMPH	I NODE, MESENTERIC	LYMPH NODE, POPLITEAL	
OVARY, LEFT	SPLEEN				
OBSERVATIONS					
ADRENAL GLAND, RIGHT		HYPERF	PLASIA	SUBCAPSULAR, MILD	
ESOPHAGUS		INFLAM	MATION	CHRONIC, MILD	
Observation Comment: with for	eign material				
LYMPH NODE, POPLITEAL					
Tissue Comment: One of a pair	available fore evaluation.				
THYMUS		CYST			
Animal Note: DJH					

Study Number: 120045PA14: Individual Animal Pathology'est Type: TOXTest Compound: PhenanthreneRoute: Oral GavageCAS Number: 85-01-8Species/Strain: Mouse/B6C3F1/NCAS Number: 85-01-8		imal Pathology Data nd: Phenanthrene ber: 85-01-8	Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS	
ANIMAL ID: 90	TRT#: TA5 SELECTION: Immunopath Cohort	DOSE: 200 mg/kg SEX: Female DISP: Scheduled Remo		REMOVAL DAY: SD28 erminal) HISTO: 24610
		TISSUE STA	ATUS	
No Visible Lesions				
BALT	BONE MARROW	В	ONE, FEMUR, LEFT	KIDNEY, RIGHT
LIVER	LUNG	Ľ	YMPH NODE, MESENTERIC	LYMPH NODE, POPLITEAL
OVARY, LEFT	SPLEEN			
OBSERVATIONS				
ADRENAL GLAND, RIGHT		HY	PERPLASIA	SUBCAPSULAR, MILD
LYMPH NODE, POPLITEAL				
Tissue Comment: One of a pair a	vailable fore evaluation.			
THYMUS		CY	ST	
Animal Note: DBK				

Study Number: 120045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS	
ANIMAL ID: 91	TRT#: TA5 SELECTION: Immunopath Cohort	DOSE: 200 mg/kg SEX: Female DISP: Scheduled Rem		minal) HISTO: 24531	
		TISSUE STA	TUS		
No Visible Lesions					
BALT	BONE MARROW	BC	ONE, FEMUR, LEFT	KIDNEY, RIGHT	
LIVER	LUNG	LY	(MPH NODE, MESENTERIC	LYMPH NODE, POPLITEAL	
OVARY, LEFT	SPLEEN				
OBSERVATIONS					
ADRENAL GLAND, RIGHT		HYF	PERPLASIA	SUBCAPSULAR, MILD	
LYMPH NODE, POPLITEAL					
Tissue Comment: One of a pair a	vailable fore evaluation.				
THYMUS		CYS	ST		
Animal Note: DBK					

Study Number: I20045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS	
ANIMAL ID: 92	TRT#: TA5 SELECTION: Immunopath Cohort	DOSE: 200 mg/kg	SEX: Female DISP: Scheduled Removal (Terminal)	REMOVAL DAY: SD28 HISTO: 24545	
		TISSUE STATUS			
No Visible Lesions					
BALT	BONE MARROW	BONE, FEMUR	, LEFT KIDN	EY, RIGHT	
LIVER	LYMPH NODE, MESENTER	IC LYMPH NODE,	POPLITEAL OVAR	RY, LEFT	
SPLEEN					
OBSERVATIONS					
ADRENAL GLAND, RIGHT		HYPERPLASIA	SUBCA	PSULAR, MILD	
ESOPHAGUS		INFLAMMATION	CHRON	NC, MODERATE	
LUNG		INFLAMMATION	CHRON	IC-ACTIVE, MINIMAL	
LYMPH NODE, POPLITEAL					
Tissue Comment: One of a pair ava	ilable fore evaluation.				
THYMUS		CYST			
Observation Comment: Present per	PWG consensus				
Animal Note: DJH					

Study Number: I20045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS	
ANIMAL ID: 93	TRT#: TA5 SELECTION: Immunopath Cohort	DOSE: 200 mg/kg SEX: Female DISP: Scheduled Removal		REMOVAL DAY: SD28 inal) HISTO: 24512	
		TISSUE STATUS			
No Visible Lesions					
BALT	BONE MARROW	BONE, FE	MUR, LEFT	KIDNEY, RIGHT	
LIVER	LUNG	LYMPH N	ODE, POPLITEAL	OVARY, LEFT	
SPLEEN					
NOT PRESENT					
LYMPH NODE, MESENTERIC					
OBSERVATIONS					
ADRENAL GLAND, RIGHT		HYPERPLA	SIA SI	JBCAPSULAR, MINIMAL	
ESOPHAGUS		INFLAMMA	TION CI	HRONIC, MILD	
LYMPH NODE, POPLITEAL					
Tissue Comment: One of a pair ava	ailable fore evaluation.				
THYMUS		CYST			
Observation Comment: Present pe	r PWG consensus				
Animal Note: DBK					

Study Number: 120045	udy Number: 120045 PA14: Individual Animal Pathology Data		ology Data	Date Report Requested: 07/30/2019	
Test Type: TOX		Test Compound: Phenan	threne	Tim	e Report Requested: 12:26:14
Route: Oral Gavage		CAS Number: 85-01-8		Lab: BRT with ILS	
Species/Strain: Mouse/B6C3F1/N					
ANIMAL ID: 94	TRT#: TA5	DOSE: 200 mg/kg	SEX: Female		REMOVAL DAY: SD28
	SELECTION: Immunopath Cohort		DISP: Scheduled Removal	(Terminal)	HISTO: 24604
		TISSUE STATUS			
No Visible Lesions					
BALT	BONE MARROW	BONE, FEM	UR, LEFT	LIVER	
LYMPH NODE, MESENTERIC	LYMPH NODE, POPLITEAL	OVARY, LEF	-T	SPLEE	Ν
OBSERVATIONS					
ADRENAL GLAND, RIGHT		HYPERPLASI	Ą	SUBCAP	SULAR, MILD
KIDNEY, RIGHT		NEPHROPATI	ΗY	MINIMAL	-
LUNG		CONGESTION	1	MILD	
[CONGESTION TGLS = TG	L1-1]				
THYMUS		CYST			
		ECTOPIC TIS	SUE		
Animal Note: DJH					

Study Number: I20045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS
ANIMAL ID: 95	TRT#: TA5 SELECTION: Immunopath Cohort	DOSE: 200 mg/kg	SEX: Female DISP: Euthanized Moribund	REMOVAL DAY: SD2 HISTO: 24505
PRIMARY CAUSE OF DEATH	- GAVAGE ACCIDENT			
Animal Note: - stomach partially full of for- internal organs appear normal	bod			

- food and oil present in shoulder area of right forelimb

Study Number: I20045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS	
ANIMAL ID: 96	TRT#: TA5 SELECTION: Immunopath Cohort	DOSE: 200 mg/kg	SEX: Female DISP: Scheduled Removal (Terminal	REMOVAL DAY: SD28 HISTO: 24612	
		TISSUE ST	ATUS		
No Visible Lesions					
BALT	BONE MARROW	E	BONE, FEMUR, LEFT KID	NEY, RIGHT	
LIVER	LUNG	L	YMPH NODE, MESENTERIC LYM	IPH NODE, POPLITEAL	
OVARY, LEFT	SPLEEN				
OBSERVATIONS					
ADRENAL GLAND, RIGHT		AC	CESSORY ADRENOCORTICAL NODULE		
		HY	PERPLASIA SUBC	CAPSULAR, MINIMAL	
ESOPHAGUS		INF	FLAMMATION CHR0	ONIC, MILD	
THYMUS		CY	ſST		
Animal Note: DJC					

Study Number: I20045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS
ANIMAL ID: 105	TRT#: TA6 SELECTION: Immunopath Cohort	DOSE: 400 mg/kg	SEX: Female DISP: Scheduled Removal (Termin	REMOVAL DAY: SD28 al) HISTO: 24504
		TISSUE STATUS	6	
No Visible Lesions				
BALT	BONE MARROW	BONE	FEMUR, LEFT LI	VER
LUNG	LYMPH NODE, MESENTERIO	C LYMPH	NODE, POPLITEAL	VARY, LEFT
SPLEEN				
OBSERVATIONS				
ADRENAL GLAND, RIGHT		HYPERF	PLASIA SUE	BCAPSULAR, MILD
KIDNEY, RIGHT		NEPHRO	OPATHY MIN	IMAL
LYMPH NODE, POPLITEAL				
Tissue Comment: One of a pair	available fore evaluation.			
THYMUS		CYST		
Observation Comment: Present	per PWG consensus			
Animal Note: DJH				

Study Number: I20045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS
ANIMAL ID: 106	TRT#: TA6 SELECTION: Immunopath Cohort	DOSE: 400 mg/kg	SEX: Female DISP: Scheduled Removal (Term	REMOVAL DAY: SD28 hinal) HISTO: 24538
		TISSUE STATU	3	
No Visible Lesions				
BALT	BONE MARROW	BONE	FEMUR, LEFT	LIVER
LUNG	LYMPH NODE, MESENTE	RIC LYMP	HNODE, POPLITEAL	OVARY, LEFT
SPLEEN				
OBSERVATIONS				
ADRENAL GLAND, RIGHT		ACCES	SORY ADRENOCORTICAL NODULE	
		HYPERI	PLASIA S	UBCAPSULAR, MILD
KIDNEY, RIGHT		NEPHR	OPATHY M	IINIMAL
LYMPH NODE, POPLITEAL				
Tissue Comment: One of a pair ava	ilable fore evaluation.			
THYMUS		CYST		
Observation Comment: Present per	PWG consensus			
Animal Note: DJC				

udy Number: 120045PA14: Individual AnimalIst Type: TOXTest Compound: Ploute: Oral GavageCAS Number: 8becies/Strain: Mouse/B6C3F1/NCAS Number: 8		PA14: Individual Animal Pathole Test Compound: Phenanthr CAS Number: 85-01-8	ogy Data Da rene Tiu La	te Report Requested: 07/30/2019 ne Report Requested: 12:26:14 b: BRT with ILS
ANIMAL ID: 107	TRT#: TA6 SELECTION: Immunopath Cohort	DOSE: 400 mg/kg	SEX: Female DISP: Scheduled Removal (Terminal)	REMOVAL DAY: SD28 HISTO: 24637
		TISSUE STATUS		
No Visible Lesions				
BALT	BONE MARROW	BONE, FEMUR	LIVE LIVE	२
LYMPH NODE, MESENTERIC	LYMPH NODE, POPLITEAL	OVARY, LEFT	SPLE	EN
OBSERVATIONS				
ADRENAL GLAND, RIGHT		HYPERPLASIA	SUBCA	APSULAR, MILD
KIDNEY, RIGHT		INFLAMMATION	CHRO	NIC, MINIMAL
LUNG		CONGESTION	MINIM	AL .
[CONGESTION TGLS = TG	6L1-1]			
THYMUS		CYST		
Animal Note: DJH				

Study Number: I20045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N	Der: I20045PA14: Individual Animal Pathology DataTOXTest Compound: PhenanthreneGavageCAS Number: 85-01-8ain: Mouse/B6C3F1/N		Pathology Data nenanthrene 35-01-8	Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS
ANIMAL ID: 108	TRT#: TA6 SELECTION: Immunopath Cohort	DOSE: 400 mg/kg	SEX: Female DISP: Scheduled Remova	REMOVAL DAY: SD28 Il (Terminal) HISTO: 24628
		TISSUE STATUS	6	
No Visible Lesions				
BALT	BONE MARROW	BONE,	FEMUR, LEFT	KIDNEY, RIGHT
LIVER	LUNG	LYMPH	I NODE, MESENTERIC	LYMPH NODE, POPLITEAL
OVARY, LEFT				
OBSERVATIONS				
ADRENAL GLAND, RIGHT		HYPERP	LASIA	SUBCAPSULAR, MILD
LYMPH NODE, POPLITEAL				
Tissue Comment: One of a pai	r available fore evaluation.			
SPLEEN		NO COR	RESPONDING LESION	
[NO CORRESPONDING	ELESION TGLS = TGL1-NCL]			
THYMUS		CYST		
Animal Note: DJH				

Study Number: I20045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N	lumber:I20045PA14: Individual Animal Pathology Datape:TOXTest Compound: PhenanthreneOral GavageCAS Number:85-01-8s/Strain:Mouse/B6C3F1/NKonstrain		Pathology DataDatehenanthreneTin35-01-8Late	te Report Requested: 07/30/2019 ne Report Requested: 12:26:14 o: BRT with ILS
ANIMAL ID: 109	TRT#: TA6	DOSE: 400 mg/kg	SEX: Female	REMOVAL DAY: SD28
	SELECTION: Immunopath Cohort		DISP: Scheduled Removal (Terminal)	HISTO: 24554
		TISSUE STATUS	5	
No Visible Lesions				
BALT	BONE MARROW	BONE	FEMUR, LEFT KIDNE	EY, RIGHT
LIVER	LUNG	LYMPI	I NODE, MESENTERIC LYMP	H NODE, POPLITEAL
OVARY, LEFT	SPLEEN			
OBSERVATIONS				
ADRENAL GLAND, RIGHT		HYPERF	PLASIA SUBCA	PSULAR, MINIMAL
LYMPH NODE, POPLITEAL				
Tissue Comment: One of a pair	available fore evaluation.			
THYMUS		CYST		
		ECTOPI	CTISSUE	
Animal Note: DJC				

Study Number: I20045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS	
ANIMAL ID: 110	TRT#: TA6	DOSE: 400 mg/kg	SEX: Female	REMOVAL DAY: SD28	
	SELECTION: Immunopath Cohort		DISP: Scheduled Removal	I (Terminal) HISTO: 24556	
		TISSUE STATUS	;		
No Visible Lesions					
BALT	BONE MARROW	BONE,	FEMUR, LEFT	KIDNEY, RIGHT	
LIVER	LUNG	LYMPH	I NODE, MESENTERIC	LYMPH NODE, POPLITEAL	
OVARY, LEFT	SPLEEN				
OBSERVATIONS					
ADRENAL GLAND, RIGHT		HYPERP	LASIA	SUBCAPSULAR, MILD	
THYMUS		CYST			
Observation Comment: Present	per PWG consensus				
Animal Note: DJC					

Study Number: 120045 Test Type: TOX		PA14: Individual Animal	Pathology Data	Date Report Requested: 07/30/2019
		Test Compound: Pl	nenanthrene	Time Report Requested: 12:26:14
Route: Oral Gavage	CAS Number: 85-01-8		35-01-8	Lab: BRT with ILS
Species/Strain: Mouse/B6C3F1/N				
ANIMAL ID: 111	TRT#: TA6	DOSE: 400 mg/kg	SEX: Female	REMOVAL DAY: SD28
	SELECTION: Immunopath Cohort		DISP: Scheduled Removal (Te	erminal) HISTO: 24611
		TISSUE STATUS	;	
No Visible Lesions				
BALT	BONE MARROW	BONE,	FEMUR, LEFT	LIVER
LYMPH NODE, MESENTERIC	OVARY, LEFT			
OBSERVATIONS				
ADRENAL GLAND, RIGHT		HYPERP	LASIA	SUBCAPSULAR, MINIMAL
KIDNEY, RIGHT		NEPHRO	PATHY	MINIMAL
LUNG		INFILTR	ATE, CELLULAR	HISTIOCYTE, MILD
		INFLAM	MATION	CHRONIC-ACTIVE, MILD
[INFLAMMATION TGLS =	TGL2-1]			
LYMPH NODE, POPLITEAL	MEDULLARY SINUSES	INCREAS	SED NUMBER	NEUTROPHIL, MINIMAL
SPLEEN		NO COR	RESPONDING LESION	
[NO CORRESPONDING L	ESION TGLS = TGL3-NCL]			
THYMUS		CYST		
		NO COR	RESPONDING LESION	
[NO CORRESPONDING L	ESION TGLS = TGL1-NCL]			
Animal Note: DBK				

Study Number: 120045 PA14		PA14: Individual Animal	Pathology Data Da	Date Report Requested: 07/30/2019	
Test Type: TOX	Test Compound: Phenanthrene		henanthrene Ti	ne Report Requested: 12:26:14	
Route: Oral Gavage		CAS Number:	85-01-8 La	b: BRT with ILS	
Species/Strain: Mouse/B6C3F1/N					
ANIMAL ID: 112	TRT#: TA6	DOSE: 400 mg/kg	SEX: Female	REMOVAL DAY: SD28	
	SELECTION: Immunopath Cohort		DISP: Scheduled Removal (Terminal)	HISTO: 24600	
		TISSUE STATU	8		
No Visible Lesions					
BALT	BONE MARROW	BONE	, FEMUR, LEFT KIDN	EY, RIGHT	
LIVER	LUNG	LYMP	H NODE, MESENTERIC LYMF	PH NODE, POPLITEAL	
OVARY, LEFT					
OBSERVATIONS					
ADRENAL GLAND, RIGHT		ACCES	SORY ADRENOCORTICAL NODULE		
		HYPERI	PLASIA SUBCA	APSULAR, MINIMAL	
ESOPHAGUS		INFLAM	MATION CHROI	NIC, MILD	
LYMPH NODE, POPLITEAL					
Tissue Comment: One of a pair a	vailable fore evaluation.				
SPLEEN	FOLLICLES, GERMINAL CENT	ER INCREA	SED NUMBER MINIM	AL .	
		NO COF	RESPONDING LESION		
[NO CORRESPONDING L	ESION TGLS = TGL1-NCL]				
THYMUS		CYST			
		ECTOP	C TISSUE		
Animal Note: DJH					

Study Number: 120045		PA14: Individual Animal Patholog	yy Data Da	Date Report Requested: 07/30/2019	
Test Type: TOX		Test Compound: Phenanthren	e Report Requested: 12:26:14		
Route: Oral Gavage		CAS Number: 85-01-8	La	b: BRT with ILS	
Species/Strain: Mouse/B6C3F1/N					
ANIMAL ID: 121	TRT#: TA7	DOSE: 800 mg/kg	SEX: Female	REMOVAL DAY: SD1	
	SELECTION: Immunopath Cohort		DISP: Euthanized, Excessive Toxicity i Group	n HISTO: 24550	

Study Number: 120045		PA14: Individual Animal Pathology Data Date Report Requ		te Report Requested: 07/30/2019
Test Type: TOX		Test Compound: Phenanthren	e Report Requested: 12:26:14	
Route: Oral Gavage		CAS Number: 85-01-8	La	b: BRT with ILS
Species/Strain: Mouse/B6C3F1/N				
ANIMAL ID: 122	TRT#: TA7	DOSE: 800 mg/kg	SEX: Female	REMOVAL DAY: SD1
	SELECTION: Immunopath Cohort		DISP: Euthanized, Excessive Toxicity in Group	h HISTO: 24651

Study Number: 120045		PA14: Individual Animal Patholog	iy Data Da	e Report Requested: 07/30/2019	
Test Type: TOX		Test Compound: Phenanthren	e Report Requested: 12:26:14		
Route: Oral Gavage		CAS Number: 85-01-8	La	b: BRT with ILS	
Species/Strain: Mouse/B6C3F1/N					
ANIMAL ID: 123	TRT#: TA7	DOSE: 800 mg/kg	SEX: Female	REMOVAL DAY: SD1	
	SELECTION: Immunopath Cohort		DISP: Euthanized, Excessive Toxicity in Group	n HISTO: 24596	

Study Number: 120045 Test Type: TOX		PA14: Individual Animal Pathology Data Da		te Report Requested: 07/30/2019	
		Test Compound: Phenanthren	e Report Requested: 12:26:14		
Route: Oral Gavage		CAS Number: 85-01-8	La	b: BRT with ILS	
Species/Strain: Mouse/B6C3F1/N					
ANIMAL ID: 124	TRT#: TA7	DOSE: 800 mg/kg	SEX: Female	REMOVAL DAY: SD1	
	SELECTION: Immunopath Cohort		DISP: Euthanized, Excessive Toxicity in Group	h HISTO: 24629	

Study Number: 120045 Test Type: TOX		PA14: Individual Animal Pathology Data		Date Report Requested: 07/30/2019	
		Test Compound: Phenanthren	ne T	Time Report Requested: 12:26:14	
Route: Oral Gavage		CAS Number: 85-01-8	L	ab: BRT with ILS	
Species/Strain: Mouse/B6C3F1/N					
ANIMAL ID: 125	TRT#: TA7	DOSE: 800 mg/kg	SEX: Female	REMOVAL DAY: SD0	
	SELECTION: Immunopath Cohort		DISP: Euthanized, Excessive Toxicity Group	rin HISTO: 24535	
Animal Note: Animal was removed from t	he study due to excessive toxicity in the SF	RBC cohort of treatment group (see Protocol	I Amendment #2). Animal was never trea	ated and was released for staff training.	

Study Number: 120045 Test Type: TOX		PA14: Individual Animal Pathology Data Da		te Report Requested: 07/30/2019 ne Report Requested: 12:26:14
		Test Compound: Phenanthrer		
Route: Oral Gavage		CAS Number: 85-01-8	Lat	: BRT with ILS
Species/Strain: Mouse/B6C3F1/N				
ANIMAL ID: 126	TRT#: TA7	DOSE: 800 mg/kg	SEX: Female	REMOVAL DAY: SD0
	SELECTION: Immunopath Cohort		DISP: Euthanized, Excessive Toxicity in Group	HISTO: 24641

Study Number: 120045 P Test Type: TOX P		PA14: Individual Animal Pathology Data Dat		te Report Requested: 07/30/2019	
		Test Compound: Phenanthrer	e Report Requested: 12:26:14		
Route: Oral Gavage		CAS Number: 85-01-8	La	b: BRT with ILS	
Species/Strain: Mouse/B6C3F1/N					
ANIMAL ID: 127	TRT#: TA7	DOSE: 800 mg/kg	SEX: Female	REMOVAL DAY: SD0	
	SELECTION: Immunopath Cohort		DISP: Euthanized, Excessive Toxicity i Group	n HISTO: 24649	

Study Number: 120045 Test Type: TOX		PA14: Individual Animal Patholog	te Report Requested: 07/30/2019 ne Report Requested: 12:26:14	
		Test Compound: Phenanthrer		
Route: Oral Gavage		CAS Number: 85-01-8	La	b: BRT with ILS
Species/Strain: Mouse/B6C3F1/N				
ANIMAL ID: 128	TRT#: TA7	DOSE: 800 mg/kg	SEX: Female	REMOVAL DAY: SD0
	SELECTION: Immunopath Cohort		DISP: Euthanized, Excessive Toxicity i Group	n HISTO: 24640

Study Number: I20045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS
ANIMAL ID: 9	TRT#: VC1	DOSE: 0 mg/kg	SEX: Female	REMOVAL DAY: SD28
	SELECTION: Immunopath Cohort		DISP: Scheduled Removal (Term	inal) HISTO: 24575
		TISSUE ST	FATUS	
No Visible Lesions				
BALT	BONE MARROW		BONE, FEMUR, LEFT	KIDNEY, RIGHT
LIVER	LUNG		LYMPH NODE, MESENTERIC	LYMPH NODE, POPLITEAL
OVARY, LEFT	SPLEEN			
OBSERVATIONS				
ADRENAL GLAND, RIGHT		H	YPERPLASIA S	UBCAPSULAR, MILD
THYMUS		C'	YST	
Animal Note: DJH				

Study Number: 120045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS	
ANIMAL ID: 10	TRT#: VC1 SELECTION: Immunopath Cohort	DOSE: 0 mg/kg	SEX: Female DISP: Scheduled Removal (Termin	REMOVAL DAY: SD28 al) HISTO: 24526	
		TISSUE STA	ATUS		
No Visible Lesions					
BALT	BONE MARROW	В	ONE, FEMUR, LEFT K	IDNEY, RIGHT	
LIVER	LUNG	Ľ	YMPH NODE, MESENTERIC L'	YMPH NODE, POPLITEAL	
OVARY, LEFT	SPLEEN				
OBSERVATIONS					
ADRENAL GLAND, RIGHT		HY	PERPLASIA SUI	BCAPSULAR, MILD	
LYMPH NODE, POPLITEAL					
Tissue Comment: Only one of a	a pair available for evaluation.				
THYMUS		CY	ST		
Observation Comment: Present	t per PWG consensus				
Animal Note: DJH					

Study Number: 120045 Test Type: TOX Route: Oral Gavage		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS	
Species/Strain: Mouse/B6C3F1/N					
ANIMAL ID: 11	TRT#: VC1 SELECTION: Immunopath Cohort	DOSE: 0 mg/kg	SEX: Female DISP: Scheduled Ren	noval (Terminal)	REMOVAL DAY: SD28 HISTO: 24603
		TISSUE STATUS	3		
No Visible Lesions					
BALT	BONE MARROW	BONE	, FEMUR	KIDNE	Y, RIGHT
LIVER	LYMPH NODE, MESENT	ERIC LYMPI	H NODE, POPLITEAL	OVAR	Y, LEFT
SPLEEN					
OBSERVATIONS					
ADRENAL GLAND, RIGHT		HYPERF	PLASIA	SUBCAR	PSULAR, MILD
ESOPHAGUS		INFLAM	MATION	CHRON	IC, MILD
LUNG		CONGE	STION	MODER	ATE
[CONGESTION TGLS = TG	∟1-1]				
LYMPH NODE, POPLITEAL					
Tissue Comment: Only one of a pa	ir available for evaluation.				
THYMUS		CYST			
Animal Note: DBK					

Study Number: 120045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS
ANIMAL ID: 12	TRT#: VC1	DOSE: 0 mg/kg	SEX: Female	REMOVAL DAY: SD28
	SELECTION: Immunopath Cohort		DISP: Scheduled Removal (Term	inal) HISTO: 24524
		TISSUE STA	TUS	
No Visible Lesions				
BALT	BONE MARROW	BC	DNE, FEMUR, LEFT	KIDNEY, RIGHT
LIVER	LUNG	LY	MPH NODE, MESENTERIC	OVARY, LEFT
SPLEEN	THYMUS			
MISSING				
LYMPH NODE, POPLITEAL				
OBSERVATIONS				
ADRENAL GLAND, RIGHT		HYP	ERPLASIA SI	JBCAPSULAR, MILD
Animal Note: DJH				

Study Number: I20045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS
ANIMAL ID: 13	TRT#: VC1	DOSE: 0 mg/kg	SEX: Female	REMOVAL DAY: SD28
	SELECTION: Immunopath Cohort		DISP: Scheduled Removal (Term	inal) HISTO: 24578
		TISSUE	STATUS	
No Visible Lesions				
BALT	BONE MARROW		BONE, FEMUR, LEFT	KIDNEY, RIGHT
LIVER	LUNG		LYMPH NODE, MESENTERIC	LYMPH NODE, POPLITEAL
OVARY, LEFT	SPLEEN			
OBSERVATIONS				
ADRENAL GLAND, RIGHT			HYPERPLASIA S	UBCAPSULAR, MILD
THYMUS			CYST	
Observation Comment: Present pe	er PWG consensus			
Animal Note: DBK				

Study Number: I20045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS
ANIMAL ID: 14	TRT#: VC1 SELECTION: Immunopath Cohort	DOSE: 0 mg/kg	SEX: Female DISP: Scheduled Removal (Termi	REMOVAL DAY: SD28 nal) HISTO: 24589
		TISSUE S	TATUS	
No Visible Lesions				
BALT	BONE MARROW		BONE, FEMUR, LEFT	KIDNEY, RIGHT
LIVER	LUNG		LYMPH NODE, MESENTERIC	_YMPH NODE, POPLITEAL
OVARY, LEFT	SPLEEN			
OBSERVATIONS				
ADRENAL GLAND, RIGHT		H	HYPERPLASIA SU	JBCAPSULAR, MILD
THYMUS		(CYST	
Animal Note: DBK				

Study Number: 120045PA14Test Type: TOXPA14Route: Oral GavagePA14Species/Strain: Mouse/B6C3F1/NPA14		PA14: Individual / Test Compo CAS Nu	PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS	
ANIMAL ID: 15	TRT#: VC1 SELECTION: Immunopath Cohort	DOSE: 0 mg/kg	SEX: Female DISP: Scheduled Removal	(Terminal)	REMOVAL DAY: SD28 HISTO: 24511	
		TISSUE S	STATUS			
No Visible Lesions						
BALT	BONE MARROW		BONE, FEMUR, LEFT	KIDNE	Y, RIGHT	
LIVER	LUNG		LYMPH NODE, MESENTERIC	LYMPI	H NODE, POPLITEAL	
OVARY, LEFT	SPLEEN					
OBSERVATIONS						
ADRENAL GLAND, RIGHT		I	HYPERPLASIA	SUBCAR	PSULAR, MILD	
LYMPH NODE, POPLITEAL						
Tissue Comment: Only one of a	pair available for evaluation.					
THYMUS		(CYST			
Animal Note: DJH						
Study Number: 120045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS		
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ANIMAL ID: 16	TRT#: VC1 SELECTION: Immunopath Cohort	DOSE: 0 mg/kg	SEX: Female DISP: Scheduled Removal (Termin	REMOVAL DAY: SD28 hal) HISTO: 24644		
		TISSUE	STATUS			
No Visible Lesions						
BALT	BONE MARROW		BONE, FEMUR, LEFT	(IDNEY, RIGHT		
LIVER	LUNG		LYMPH NODE, MESENTERIC	YMPH NODE, POPLITEAL		
OVARY, LEFT	SPLEEN		THYMUS			
OBSERVATIONS						
ADRENAL GLAND, RIGHT			HYPERPLASIA SU	IBCAPSULAR, MINIMAL		
Animal Note: DJC						

Study Number: 120045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Test Compound: Ph CAS Number: 8	Pathology Data enanthrene 5-01-8	Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS
ANIMAL ID: 19	TRT#: TA1	DOSE: 12.5 mg/kg	SEX: Female DISP: Euthanized Moribund	REMOVAL DAY: SD8 HISTO: 24573
Animal Note: - internal organs - some food in stomach, little i - food/oil in thoracic cavity	appear normal n intestines			

Study Number: 120045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS
ANIMAL ID: 24	TRT#: TA1	DOSE: 12.5 mg/kg	SEX: Female DISP: Euthanized Moribund	REMOVAL DAY: SD4 HISTO: 24567
OBSERVATIONS HEART Tissue Comment: TGL1- [NO CORRESPON	NCL, TGL2-NCL IDING LESION TGLS = TGL1-NCL]	NO CORF	ESPONDING LESION	
Animal Note: - stomach partial - intestines nearly empty - liver, kidney, spleen appear r - food and oil present in should - fluid in thoracic cavity consist - heart has pale pink areas tha	ly full with food ormal ler/arm pit area of front left limb ent with oil t are rough			

Study Number: 120045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Test Compound: P CAS Number: 5	nal Pathology DataDate Report Requested:: PhenanthreneTime Report Requested:r: 85-01-8Lab: BRT with ILS	
ANIMAL ID: 33	TRT#: TA2	DOSE: 25 mg/kg	SEX: Female DISP: Euthanized Moribund	REMOVAL DAY: SD7 HISTO: 24522
Animal Note: - internal organs - food/oil in thoracic cavity - some food in stomach. little i	appear normal n intestines			

Study Number: 120045 Test Type: TOX Route: Oral Gavage		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS
Species/Strain: Mouse/B6C3F1/N				
ANIMAL ID: 37	ANIMAL ID: 37 TRT#: TA2 DOSE: 25 mg/kg		SEX: Female DISP: Euthanized Moribund	REMOVAL DAY: SD7 HISTO: 24627
Animal Note: - internal organs a - food in stomach/intestines - blood in thoracic cavity - nicking trachea did not reveal - no obvious signs of gavage tra	ppear normal obvious installation of dosing solution auma			

Study Number: 120045 Test Type: TOX Route: Oral Gavage		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS
Species/Strain: Mouse/B6	C3F1/N			
ANIMAL ID: 39	TRT#: TA2	DOSE: 25 mg/kg	SEX: Female DISP: Futhanized Moribund	REMOVAL DAY: SD9 HISTO: 24584
Animal Note: Animal was eutit - liver, kidney, spleen appear - intestines mostly empty, sto - food and oil in thoracic cavit - all other organs appear norr	hanized moribund on the evening of 20 Ma normal mach partially full of food y nal	ay 15, however, the removal from NTP Provan	tis In-Life was performed on 21 May 15.	

Study Number: 120045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Test Compound: Ph CAS Number: 8	: Individual Animal Pathology DataDate Report RequeTest Compound: PhenanthreneTime Report RequeCAS Number: 85-01-8Lab: BRT with ILS	
ANIMAL ID: 65	TRT# : TA4	DOSE: 100 mg/kg	SEX: Female DISP: Euthanized Moribund	REMOVAL DAY: SD7 HISTO: 24601
Animal Note: - internal organs - some food in stomach, little i - food/oil in thoracic cavity	appear normal n intestines			

Study Number: I20045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Test Compound: Ph CAS Number: 8	nal Pathology DataDate Report Requested:J: PhenanthreneTime Report Requested:er: 85-01-8Lab: BRT with ILS	
ANIMAL ID: 70	TRT#: TA4	DOSE: 100 mg/kg	SEX: Female DISP: Euthanized Moribund	REMOVAL DAY: SD16 HISTO: 24638
Animal Note: - internal organs - food/oil in thoracic cavity - some food in stomach and ir	appear normal			

Study Number: 120045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Test Compound: Pr CAS Number: 8	nal Pathology DataDate Report Requested: (I: PhenanthreneTime Report Requested: (er: 85-01-8Lab: BRT with ILS	
ANIMAL ID: 71	TRT#: TA4	DOSE: 100 mg/kg	SEX: Female DISP: Euthanized Moribund	REMOVAL DAY: SD12 HISTO: 24559
Animal Note: - major organs a - oil in thoracic cavity - stomach full of food	ppear normal			

Study Number: 120045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Test Compound: Ph CAS Number: 8	Pathology Data enanthrene 5-01-8	Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS
ANIMAL ID: 81	TRT#: TA5	DOSE: 200 mg/kg SEX: Female DISP: Euthanized N		REMOVAL DAY: SD6 HISTO: 24586
Animal Note: - internal organs appear normal - food in stomach, little contents in intestines - area found with food/oil consistent with gavage trauma				

Study Number: 120045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal I Test Compound: Ph	Pathology Data [Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14	
		CAS Number: 85-01-8		_ab: BRT with ILS	
ANIMAL ID: 86	TRT#: TA5	DOSE: 200 mg/kg	SEX: Female	REMOVAL DAY: SD28	
			DISP: Scheduled Removal (Terminal	I) HISTO: 24635	
OBSERVATIONS					
TISSUE NOS		NO CORF	RESPONDING LESION		
Tissue Comment: THOR	AX, TGL1-NCL				
[NO CORRESPO	NDING LESION TGLS = TGL1-NCL]				

Study Number: 120045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Test Compound: Ph CAS Number: 8	Pathology Data enanthrene 5-01-8	Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS
ANIMAL ID: 88	TRT#: TA5	DOSE: 200 mg/kg	SEX: Female DISP: Euthanized Moribund	REMOVAL DAY: SD7 HISTO: 24617
Animal Note: - internal organs - some food in stomach, little i - food/oil in thoracic cavity	appear normal n intestines			

Study Number: 120045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS
ANIMAL ID: 98	TRT#: TA6	DOSE: 400 mg/kg	SEX: Female DISP: Euthanized Moribund	REMOVAL DAY: SD7 HISTO: 24609
Animal Note: - internal organs - some food in stomach, little i - food/oil in thoracic cavity	appear normal n intestines			

Study Number: 120045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS
ANIMAL ID: 113	TRT#: TA7	DOSE: 800 mg/kg	SEX: Female DISP: Euthanized, Exce Group	REMOVAL DAY: SD3 essive Toxicity in HISTO: 24561
Animal Note: - lungs consistent - food in stomach - all major organs appear norma	with euthanasia al			

Study Number: 120045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS
ANIMAL ID: 114	TRT#: TA7	DOSE: 800 mg/kg	SEX: Female DISP: Euthanized Moribund	REMOVAL DAY: SD2 HISTO: 24621
OBSERVATIONS				
LIVER		CONGESTION		MILD
		NECROSIS		CENTRILOBULAR, MILD
[CONGESTION TGLS = TGL1-2]				
Animal Note: - food in stomach - liver has mild areas of dark re- - all other major organs appear	d coloration normal			

- lung coloration consistent with euthanasia

Study Number: 120045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N ANIMAL ID: 115 TRT#: TA7		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS
		DOSE: 800 mg/kg	SEX: Female DISP: Found Dead	REMOVAL DAY: SD1 HISTO: 24653
Animal Note: - All major organs - fluid in small intestine - no signs of gavage trauma - animal held in the refrigerator	appear normal			

Study Number: 120045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS
ANIMAL ID: 116	TRT#: TA7	DOSE: 800 mg/kg	SEX: Female DISP: Euthanized, Exce Group	REMOVAL DAY: SD3 essive Toxicity in HISTO: 24557
Animal Note: Euthanized due to - lung coloration consistent with	o excessive toxicity in the group. Refer t n euthanasia	o protocol amendment 2.		

- food in stomach

- all major organs appear normal

Study Number: 120045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS
ANIMAL ID: 117	TRT#: TA7	DOSE: 800 mg/kg	SEX: Female DISP: Euthanized Moribund	REMOVAL DAY: SD2 HISTO: 24534
OBSERVATIONS				
LIVER		NECROSI	S	CENTRILOBULAR, MODERATE
[NECROSIS TGLS =	= TGL1-2]			
CONTRIBUTORY CAUSE OF D	EATH - LIVER NECROS	IS CENTRILOBULAR		
Animal Note: - color variation in - lung coloration consistent with - lung, heart, spleen appear norr	liver - dark red to pale pink euthanasia nal			

Study Number: 120045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS
ANIMAL ID: 118	TRT#: TA7	DOSE: 800 mg/kg SEX: Female DISP: Found Dead		REMOVAL DAY: SD2 HISTO: 24647
Animal Note: - food in stomach - liver slightly discolored from early autolysis - all major organs appear normal				

Study Number: 120045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS
ANIMAL ID: 119	TRT#: TA7	DOSE: 800 mg/kg	SEX: Female DISP: Euthanized, Exce Group	REMOVAL DAY: SD3 ssive Toxicity in HISTO: 24636
OBSERVATIONS LIVER [NECROSIS TGLS = TGL1-2	2]	NECROSIS		CENTRILOBULAR, MODERATE
CONTRIBUTORY CAUSE OF DEATH	- LIVER NECROSIS	CENTRILOBULAR		
Animal Note: Euthanized due to excessiv - liver has pale areas - lung coloration consistent with euthanas - food in stomach - no other findings	re toxicity in group. See protocol am sia	endment 2.		

Study Number: 120045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N		PA14: Individual Animal Pathology Data Test Compound: Phenanthrene CAS Number: 85-01-8		Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS
ANIMAL ID: 120	TRT#: TA7	DOSE: 800 mg/kg SEX: Female DISP: Euthanize		REMOVAL DAY: SD2 HISTO: 24643
Animal Note: - food in stomach - lung coloration consistent with euthanasia - all major organs appear normal (heart, lungs, spleen)				

Study Number: 120045 Test Type: TOX Route: Oral Gavage Species/Strain: Mouse/B6C3F1/N

LEGEND

SD – Study Day

Date Report Requested: 07/30/2019 Time Report Requested: 12:26:14 Lab: BRT with ILS

** END OF REPORT **