

APPENDIX F

Oyster Tissue Analytical Results

- F.1. Sample log with summary PAH data
- F.2. PAH analyses results
- F.3. Trace metal data for five samples collected on December 9, 2004.
- F.4. Biomarker reports on 12 samples collected on December 7 and 9, 2004.
- F.5. NOAA Mussel Watch samples collected at Hope Creek (DBHC), Arnolds Point (DBAP), and Ben Davis Point Shoal (DBBD).

F.1. Sample log with summary PAH data.

Sample ID	Latitude	Longitude	Date	Total PAHs (ng/g wet)	Comments
R_12_7_2004	39.20567	-75.36167	7-Dec-04	19.8	Ridge
SB_12_7_2004	39.22012	-75.38298	7-Dec-04	15.7	Silver Bed
LM_12_7_2004	39.23002	-75.35343	7-Dec-04	21.8	Lower Middle
RN_12_7_2004	39.23193	-75.33495	7-Dec-04	24.5	Red Nun
OB_12_7_2004	39.25822	-75.37707	7-Dec-04	22.3	Over the Bar
WB_12_7_2004	39.33165	-75.45527	7-Dec-04	17.1	Woodland Beach
NJMW1_12_7_2004	39.38125	-75.44997	7-Dec-04	24.5	NJ Mussel Watch Site
DBFE-091204	39.2100	-75.19148	9-Dec-04	25.4	DE Bay, False Egg
Newbedsoermo-091204	39.2468	-75.25307	9-Dec-04	26.1	
DBBD-091204	39.25138	-75.30147	9-Dec-04	28.5	De Bay, Ben Davis
DBAP-091204	39.38332	-75.44895	9-Dec-04	24.1	De Bay, Arnolds Point
DBHC-091204	39.42627	-75.48827	9-Dec-04	17.6	De Bay, Hope Creek
DBFE-032405	39.21000	-75.19150	24-Feb-05	21.5	De Bay, False Egg
DBBD-032405	39.25138	-75.30150	24-Feb-05	13.2	De Bay, Ben Davis
DBAP-032405	39.38332	-75.44900	24-Feb-05	28.9	De Bay, Arnolds Point
DBHC-032405	39.42627	-75.48830	24-Feb-05	25.3	De Bay, Hope Creek
Supplemental samples from the NOAA Mussel Watch program					
Sample ID	Latitude	Longitude	Date	Total NS&T PAHs (ng/g dry)	Comments
DBAP	39.2300	-75.2700	1-Jan-05	951	Arnolds Point
DBHC	39.25604	-75.2560	1-Jan-05	1041	Hope Creek
DBBD	39.1514	-75.1817	1-Jan-05	459	Ben Davis Point Shoal

F.2. PAH analyses results

Client Sample ID	R-12-7-2004	SB-12-7-2004
Sample Descriptor	10 Oysters	16 Oysters
Original Sample		
GERG ID	C45246	C45247
Sample Type	SAMP	SAMP
SDG	EC170	EC170
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Dry Weight	1.14	1.18
Wet Weight	11.45	13.93
Sample Size Units	Grams	Grams
Matrix	Tissue	Tissue
% solid	10.0	8.5
% Lipid	6.0	4.5
Reporting Units	ng/g	ng/g
Calculation Basis (dry/wet)	Wet	Wet
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QC Batch ID	T1463	T1463
Method	GCMS	GCMS
Collection Date	12/07/04	12/07/04
Receive Date	12/11/04	12/11/04
Extraction Date	12/14/04	12/14/04
Analysis Date	12/14/04	12/14/04
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Surrogate Compounds	%Recovery	%Recovery
d8-Naphthalene	86.3	85.8
d10-Acenaphthene	99.2	101.9
d10-Phenanthrene	108.0	114.1
d12-Chrysene	88.0	87.9
d12-Perylene	74.0	77.1
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Total PAHs	Concentration	Concentration
Total PAHs with Perylene	19.8	15.7
Total PAHs without Perylene	19.1	15.3
Total NS&T PAHs	7.1	5.7
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ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID	R-12-7-2004	SB-12-7-2004
Sample Descriptor	10 Oysters	16 Oysters
Original Sample		
GERG ID	C45246	C45247
Sample Type	SAMP	SAMP
SDG	EC170	EC170

PAH Compounds	Concentration	MDL		Concentration	MDL	
Naphthalene	0.56	0.47		0.48	0.38	
C1-Naphthalenes	0.37	0.80	J	0.33	0.66	J
C2-Naphthalenes	0.28	0.46	J	0.22	0.38	J
C3-Naphthalenes	0.55	0.70	J	0.47	0.58	J
C4-Naphthalenes	0.76	0.70		0.58	0.58	
Biphenyl	0.19	0.38	J	0.16	0.32	J
Acenaphthylene	0.45	0.24		0.29	0.20	
Acenaphthene	0.16	0.24	J	0.11	0.20	J
Fluorene	0.30	0.36	J	0.21	0.30	J
C1-Fluorenes	0.92	0.73		1.31	0.60	
C2-Fluorenes	1.59	0.73		0.90	0.60	
C3-Fluorenes	2.55	0.73		1.97	0.60	
Phenanthrene	0.73	0.34		0.48	0.28	
Anthracene	1.25	0.29		0.78	0.24	
C1-Phenanthrenes/Anthracenes	0.72	0.30		0.44	0.25	
C2-Phenanthrenes/Anthracenes	0.68	0.30		0.47	0.25	
C3-Phenanthrenes/Anthracenes	0.78	0.30		0.41	0.25	
C4-Phenanthrenes/Anthracenes	0.52	0.30		0.61	0.25	
Dibenzothiophene	0.09	0.12	J	0.06	0.10	J
C1-Dibenzothiophenes	0.52	0.25		0.21	0.21	
C2-Dibenzothiophenes	0.60	0.25		0.41	0.21	
C3-Dibenzothiophenes	0.61	0.25		0.41	0.21	
Fluoranthene	0.97	0.31		0.59	0.25	
Pyrene	1.36	0.33		0.79	0.27	
C1-Fluoranthenes/Pyrenes	0.83	0.64		0.56	0.53	
C2-Fluoranthenes/Pyrenes	0.58	0.64	J	0.33	0.53	J
C3-Fluoranthenes/Pyrenes	0.26	0.64	J	0.00	0.53	ND
Benzo(a)anthracene	0.25	0.32	J	0.17	0.26	J
Chrysene	0.89	0.25		0.52	0.21	
C1-Chrysenes	0.30	0.50	J	0.19	0.41	J
C2-Chrysenes	0.29	0.50	J	0.24	0.41	J
C3-Chrysenes	0.00	0.50	ND	0.00	0.41	ND
C4-Chrysenes	0.00	0.50	ND	0.00	0.41	ND
Benzo(b)fluoranthene	0.44	0.58	J	0.25	0.48	J
Benzo(k)fluoranthene	0.09	0.40	J	0.08	0.33	J
Benzo(e)pyrene	0.47	0.32		0.28	0.26	
Benzo(a)pyrene	0.18	0.63	J	0.11	0.51	J
Perylene	0.73	0.14		0.43	0.12	
Indeno(1,2,3-c,d)pyrene	0.10	0.59	J	0.02	0.49	J
Dibenz(a,h)anthracene	0.04	0.31	J	0.03	0.26	J
Benzo(g,h,i)perylene	0.16	0.49	J	0.11	0.40	J
2-Methylnaphthalene	0.21	0.36	J	0.19	0.29	J
1-Methylnaphthalene	0.16	0.44	J	0.14	0.36	J
2,6-Dimethylnaphthalene	0.12	0.23	J	0.09	0.19	J
1,6,7-Trimethylnaphthalene	0.14	0.35	J	0.10	0.29	J
1-Methylphenanthrene	0.16	0.15		0.10	0.12	J

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID	LM-12-7-2004	RN-12-7-2004
Sample Descriptor	13 Oysters	12 Oysters
Original Sample		
GERG ID	C45248	C45249
Sample Type	SAMP	SAMP
SDG	EC170	EC170
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Dry Weight	1.00	1.46
Wet Weight	10.41	13.29
Sample Size Units	Grams	Grams
Matrix	Tissue	Tissue
% solid	9.6	11.0
% Lipid	5.2	6.9
Reporting Units	ng/g	ng/g
Calculation Basis (dry/wet)	Wet	Wet
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QC Batch ID	T1463	T1463
Method	GCMS	GCMS
Collection Date	12/07/04	12/07/04
Receive Date	12/11/04	12/11/04
Extraction Date	12/14/04	12/14/04
Analysis Date	12/14/04	12/15/04
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Surrogate Compounds	%Recovery	%Recovery
d8-Naphthalene	69.4	77.8
d10-Acenaphthene	83.6	92.3
d10-Phenanthrene	94.5	101.5
d12-Chrysene	76.7	82.9
d12-Perylene	67.1	71.0
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Total PAHs	Concentration	Concentration
Total PAHs with Perylene	21.8	24.5
Total PAHs without Perylene	21.0	23.9
Total NS&T PAHs	7.8	9.2
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ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID	LM-12-7-2004	RN-12-7-2004
Sample Descriptor	13 Oysters	12 Oysters
Original Sample		
GERG ID	C45248	C45249
Sample Type	SAMP	SAMP
SDG	EC170	EC170

PAH Compounds	Concentration	MDL		Concentration	MDL	
Naphthalene	0.58	0.51		0.63	0.40	
C1-Naphthalenes	0.42	0.88	J	0.43	0.69	J
C2-Naphthalenes	0.29	0.51	J	0.31	0.40	J
C3-Naphthalenes	0.64	0.77	J	0.55	0.60	J
C4-Naphthalenes	0.86	0.77		0.78	0.60	
Biphenyl	0.21	0.42	J	0.20	0.33	J
Acenaphthylene	0.43	0.27		0.51	0.21	
Acenaphthene	0.16	0.27	J	0.18	0.21	J
Fluorene	0.20	0.40	J	0.29	0.31	J
C1-Fluorenes	1.78	0.80		1.92	0.63	
C2-Fluorenes	1.40	0.80		1.55	0.63	
C3-Fluorenes	2.35	0.80		2.79	0.63	
Phenanthrene	0.56	0.37		0.67	0.29	
Anthracene	1.11	0.32		1.45	0.25	
C1-Phenanthrenes/Anthracenes	0.55	0.33		0.71	0.26	
C2-Phenanthrenes/Anthracenes	0.56	0.33		0.86	0.26	
C3-Phenanthrenes/Anthracenes	0.73	0.33		0.85	0.26	
C4-Phenanthrenes/Anthracenes	0.87	0.33		0.67	0.26	
Dibenzothiophene	0.07	0.14	J	0.11	0.11	
C1-Dibenzothiophenes	0.35	0.27		0.35	0.21	
C2-Dibenzothiophenes	0.59	0.27		0.78	0.21	
C3-Dibenzothiophenes	0.49	0.27		0.68	0.21	
Fluoranthene	0.71	0.34		1.03	0.27	
Pyrene	1.12	0.37		1.35	0.29	
C1-Fluoranthenes/Pyrenes	0.81	0.71		0.93	0.56	
C2-Fluoranthenes/Pyrenes	0.42	0.71	J	0.48	0.56	J
C3-Fluoranthenes/Pyrenes	0.27	0.71	J	0.17	0.56	J
Benzo(a)anthracene	0.25	0.35	J	0.34	0.28	
Chrysene	0.80	0.28		0.94	0.22	
C1-Chrysenes	0.38	0.55	J	0.31	0.43	J
C2-Chrysenes	0.36	0.55	J	0.27	0.43	J
C3-Chrysenes	0.00	0.55	ND	0.00	0.43	ND
C4-Chrysenes	0.00	0.55	ND	0.00	0.43	ND
Benzo(b)fluoranthene	0.43	0.64	J	0.41	0.50	J
Benzo(k)fluoranthene	0.10	0.44	J	0.07	0.34	J
Benzo(e)pyrene	0.42	0.35		0.42	0.27	
Benzo(a)pyrene	0.16	0.69	J	0.28	0.54	J
Perylene	0.85	0.16		0.56	0.12	
Indeno(1,2,3-c,d)pyrene	0.09	0.65	J	0.13	0.51	J
Dibenz(a,h)anthracene	0.03	0.34	J	0.04	0.27	J
Benzo(g,h,i)perylene	0.12	0.54	J	0.15	0.42	J
2-Methylnaphthalene	0.23	0.39	J	0.22	0.31	J
1-Methylnaphthalene	0.19	0.49	J	0.21	0.38	J
2,6-Dimethylnaphthalene	0.12	0.25	J	0.13	0.20	J
1,6,7-Trimethylnaphthalene	0.09	0.39	J	0.13	0.30	J
1-Methylphenanthrene	0.14	0.17	J	0.24	0.13	

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID	OB-12-7-2004	WB-12-7-2004
Sample Descriptor	16 Oysters	13 Oysters
Original Sample		
GERG ID	C45250	C45251
Sample Type	SAMP	SAMP
SDG	EC170	EC170
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Dry Weight	1.35	0.64
Wet Weight	13.49	11.67
Sample Size Units	Grams	Grams
Matrix	Tissue	Tissue
% solid	10.0	5.5
% Lipid	5.0	3.5
Reporting Units	ng/g	ng/g
Calculation Basis (dry/wet)	Wet	Wet
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QC Batch ID	T1463	T1463
Method	GCMS	GCMS
Collection Date	12/07/04	12/07/04
Receive Date	12/11/04	12/11/04
Extraction Date	12/14/04	12/14/04
Analysis Date	12/15/04	12/15/04
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Surrogate Compounds	%Recovery	%Recovery
d8-Naphthalene	80.4	76.2
d10-Acenaphthene	96.7	90.9
d10-Phenanthrene	94.1	104.5
d12-Chrysene	82.5	78.4
d12-Perylene	73.0	72.9
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Total PAHs	Concentration	Concentration
Total PAHs with Perylene	22.3	17.1
Total PAHs without Perylene	21.4	16.4
Total NS&T PAHs	9.2	6.7
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ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID
 Sample Descriptor
 Original Sample
 GERG ID
 Sample Type
 SDG

OB-12-7-2004
 16 Oysters
 C45250
 SAMP
 EC170

WB-12-7-2004
 13 Oysters
 C45251
 SAMP
 EC170

PAH Compounds	Concentration	MDL		Concentration	MDL	
Naphthalene	0.75	0.39		0.58	0.46	
C1-Naphthalenes	0.54	0.68	J	0.45	0.78	J
C2-Naphthalenes	0.24	0.39	J	0.23	0.45	J
C3-Naphthalenes	0.44	0.59	J	0.53	0.69	J
C4-Naphthalenes	0.45	0.59	J	0.42	0.69	J
Biphenyl	0.17	0.33	J	0.21	0.38	J
Acenaphthylene	0.52	0.21		0.45	0.24	
Acenaphthene	0.14	0.21	J	0.16	0.24	J
Fluorene	0.22	0.31	J	0.26	0.36	J
C1-Fluorenes	0.46	0.62	J	0.51	0.71	J
C2-Fluorenes	1.02	0.62		1.01	0.71	
C3-Fluorenes	1.88	0.62		2.15	0.71	
Phenanthrene	0.59	0.29		0.42	0.33	
Anthracene	1.17	0.24		0.81	0.28	
C1-Phenanthrenes/Anthracenes	0.70	0.26		0.43	0.30	
C2-Phenanthrenes/Anthracenes	0.67	0.26		0.41	0.30	
C3-Phenanthrenes/Anthracenes	0.72	0.26		0.40	0.30	
C4-Phenanthrenes/Anthracenes	1.05	0.26		0.70	0.30	
Dibenzothiophene	0.08	0.11	J	0.05	0.12	J
C1-Dibenzothiophenes	0.29	0.21		0.31	0.24	
C2-Dibenzothiophenes	0.65	0.21		0.38	0.24	
C3-Dibenzothiophenes	0.76	0.21		0.59	0.24	
Fluoranthene	0.81	0.26		0.58	0.30	
Pyrene	1.38	0.28		0.90	0.33	
C1-Fluoranthenes/Pyrenes	1.16	0.55		0.75	0.63	
C2-Fluoranthenes/Pyrenes	0.68	0.55		0.59	0.63	J
C3-Fluoranthenes/Pyrenes	0.30	0.55	J	0.25	0.63	J
Benzo(a)anthracene	0.40	0.27		0.26	0.31	J
Chrysene	1.02	0.21		0.60	0.25	
C1-Chrysenes	0.42	0.43	J	0.37	0.49	J
C2-Chrysenes	0.44	0.43		0.29	0.49	J
C3-Chrysenes	0.11	0.43	J	0.00	0.49	ND
C4-Chrysenes	0.00	0.43	ND	0.00	0.49	ND
Benzo(b)fluoranthene	0.64	0.49		0.38	0.57	J
Benzo(k)fluoranthene	0.19	0.34	J	0.07	0.39	J
Benzo(e)pyrene	0.53	0.27		0.39	0.31	
Benzo(a)pyrene	0.32	0.53	J	0.16	0.61	J
Perylene	0.87	0.12		0.68	0.14	
Indeno(1,2,3-c,d)pyrene	0.22	0.50	J	0.08	0.58	J
Dibenz(a,h)anthracene	0.05	0.27	J	0.02	0.31	J
Benzo(g,h,i)perylene	0.22	0.42	J	0.10	0.48	J
2-Methylnaphthalene	0.29	0.30	J	0.25	0.35	J
1-Methylnaphthalene	0.25	0.38	J	0.20	0.43	J
2,6-Dimethylnaphthalene	0.10	0.20	J	0.08	0.23	J
1,6,7-Trimethylnaphthalene	0.11	0.30	J	0.10	0.34	J
1-Methylphenanthrene	0.15	0.13		0.11	0.15	J

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID	NJMW1-12-7-2004	DBFE-091204
Sample Descriptor	37 Oysters	10 Oysters
Original Sample		
GERG ID	C45252	C45253
Sample Type	SAMP	SAMP
SDG	EC170	EC170
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Dry Weight	0.78	2.28
Wet Weight	13.23	16.63
Sample Size Units	Grams	Grams
Matrix	Tissue	Tissue
% solid	5.9	13.7
% Lipid	2.8	9.1
Reporting Units	ng/g	ng/g
Calculation Basis (dry/wet)	Wet	Wet
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QC Batch ID	T1463	T1463
Method	GCMS	GCMS
Collection Date	12/07/04	12/09/04
Receive Date	12/11/04	12/11/04
Extraction Date	12/14/04	12/14/04
Analysis Date	12/15/04	12/15/04
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Surrogate Compounds	%Recovery	%Recovery
d8-Naphthalene	74.1	83.5
d10-Acenaphthene	87.5	98.6
d10-Phenanthrene	80.8	119.3
d12-Chrysene	70.7	96.5
d12-Perylene	60.2	75.5
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Total PAHs	Concentration	Concentration
Total PAHs with Perylene	24.5	25.4
Total PAHs without Perylene	23.5	24.6
Total NS&T PAHs	10.4	10.8
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ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID
 Sample Descriptor
 Original Sample
 GERG ID
 Sample Type
 SDG

NJMW1-12-7-2004
 37 Oysters
 C45252
 SAMP
 EC170

DBFE-091204
 10 Oysters
 C45253
 SAMP
 EC170

PAH Compounds	Concentration	MDL		Concentration	MDL	
Naphthalene	0.68	0.40		0.56	0.32	
C1-Naphthalenes	0.62	0.69	J	0.68	0.55	
C2-Naphthalenes	0.31	0.40	J	0.48	0.32	
C3-Naphthalenes	0.56	0.61	J	0.69	0.48	
C4-Naphthalenes	0.52	0.61	J	0.84	0.48	
Biphenyl	0.19	0.33	J	0.27	0.26	
Acenaphthylene	0.30	0.21		0.46	0.17	
Acenaphthene	0.19	0.21	J	0.23	0.17	
Fluorene	0.20	0.31	J	0.40	0.25	
C1-Fluorenes	0.47	0.63	J	0.74	0.50	
C2-Fluorenes	0.86	0.63		1.93	0.50	
C3-Fluorenes	2.44	0.63		2.76	0.50	
Phenanthrene	0.55	0.29		0.76	0.23	
Anthracene	0.62	0.25		1.53	0.20	
C1-Phenanthrenes/Anthracenes	0.63	0.26		0.99	0.21	
C2-Phenanthrenes/Anthracenes	0.73	0.26		0.92	0.21	
C3-Phenanthrenes/Anthracenes	0.92	0.26		0.87	0.21	
C4-Phenanthrenes/Anthracenes	0.81	0.26		0.47	0.21	
Dibenzothiophene	0.06	0.11	J	0.12	0.09	
C1-Dibenzothiophenes	0.40	0.22		0.30	0.17	
C2-Dibenzothiophenes	0.70	0.22		0.60	0.17	
C3-Dibenzothiophenes	0.51	0.22		0.54	0.17	
Fluoranthene	1.11	0.27		1.26	0.21	
Pyrene	1.87	0.29		1.41	0.23	
C1-Fluoranthenes/Pyrenes	1.21	0.56		0.84	0.44	
C2-Fluoranthenes/Pyrenes	0.91	0.56		0.39	0.44	J
C3-Fluoranthenes/Pyrenes	0.41	0.56	J	0.00	0.44	ND
Benzo(a)anthracene	0.56	0.28		0.31	0.22	
Chrysene	0.97	0.22		1.00	0.17	
C1-Chrysenes	0.81	0.44		0.36	0.35	
C2-Chrysenes	0.40	0.44	J	0.47	0.35	
C3-Chrysenes	0.00	0.44	ND	0.00	0.35	ND
C4-Chrysenes	0.00	0.44	ND	0.00	0.35	ND
Benzo(b)fluoranthene	0.88	0.50		0.53	0.40	
Benzo(k)fluoranthene	0.33	0.34	J	0.14	0.27	J
Benzo(e)pyrene	0.64	0.27		0.54	0.22	
Benzo(a)pyrene	0.65	0.54		0.32	0.43	J
Perylene	1.04	0.13		0.80	0.10	
Indeno(1,2,3-c,d)pyrene	0.35	0.51	J	0.10	0.41	J
Dibenz(a,h)anthracene	0.07	0.27	J	0.03	0.22	J
Benzo(g,h,i)perylene	0.36	0.43	J	0.18	0.34	J
2-Methylnaphthalene	0.33	0.31		0.39	0.25	
1-Methylnaphthalene	0.29	0.38	J	0.29	0.30	J
2,6-Dimethylnaphthalene	0.12	0.20	J	0.18	0.16	
1,6,7-Trimethylnaphthalene	0.09	0.30	J	0.17	0.24	J
1-Methylphenanthrene	0.28	0.13		0.47	0.10	

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID	Newbedsoermo-091204	DBBD-091204
Sample Descriptor	18 Oysters	18 Oysters
Original Sample		
GERG ID	C45254	C45255
Sample Type	SAMP	SAMP
SDG	EC170	EC170
<hr/>		
Dry Weight	1.81	1.51
Wet Weight	14.53	13.28
Sample Size Units	Grams	Grams
Matrix	Tissue	Tissue
% solid	12.5	11.4
% Lipid	7.6	7.8
Reporting Units	ng/g	ng/g
Calculation Basis (dry/wet)	Wet	Wet
<hr/>		
QC Batch ID	T1463	T1463
Method	GCMS	GCMS
Collection Date	12/09/04	12/09/04
Receive Date	12/11/04	12/11/04
Extraction Date	12/14/04	12/14/04
Analysis Date	12/15/04	12/15/04
<hr/>		
Surrogate Compounds	%Recovery	%Recovery
d8-Naphthalene	91.9	87.4
d10-Acenaphthene	103.5	103.4
d10-Phenanthrene	119.3	111.6
d12-Chrysene	90.2	90.7
d12-Perylene	77.1	78.5
<hr/>		
Total PAHs	Concentration	Concentration
Total PAHs with Perylene	26.1	28.5
Total PAHs without Perylene	25.4	27.5
Total NS&T PAHs	10.8	11.2
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ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID	Newbedsoermo-091204	DBBD-091204
Sample Descriptor	18 Oysters	18 Oysters
Original Sample		
GERG ID	C45254	C45255
Sample Type	SAMP	SAMP
SDG	EC170	EC170

PAH Compounds	Concentration	MDL		Concentration	MDL	
Naphthalene	0.58	0.37		0.63	0.40	
C1-Naphthalenes	0.53	0.63	J	0.43	0.69	J
C2-Naphthalenes	0.33	0.37	J	0.30	0.40	J
C3-Naphthalenes	0.59	0.55		0.65	0.60	
C4-Naphthalenes	0.79	0.55		0.83	0.60	
Biphenyl	0.18	0.30	J	0.19	0.33	J
Acenaphthylene	0.46	0.19		0.58	0.21	
Acenaphthene	0.20	0.19		0.20	0.21	J
Fluorene	0.36	0.29		0.29	0.31	J
C1-Fluorenes	0.67	0.57		1.13	0.63	
C2-Fluorenes	1.91	0.57		1.96	0.63	
C3-Fluorenes	3.33	0.57		2.92	0.63	
Phenanthrene	0.72	0.27		0.68	0.29	
Anthracene	1.46	0.23		1.58	0.25	
C1-Phenanthrenes/Anthracenes	0.91	0.24		0.92	0.26	
C2-Phenanthrenes/Anthracenes	0.89	0.24		1.03	0.26	
C3-Phenanthrenes/Anthracenes	0.95	0.24		1.07	0.26	
C4-Phenanthrenes/Anthracenes	0.66	0.24		0.92	0.26	
Dibenzothiophene	0.10	0.10		0.10	0.11	J
C1-Dibenzothiophenes	0.32	0.20		0.44	0.22	
C2-Dibenzothiophenes	0.63	0.20		0.74	0.22	
C3-Dibenzothiophenes	0.42	0.20		0.75	0.22	
Fluoranthene	1.39	0.24		1.19	0.27	
Pyrene	1.78	0.26		2.14	0.29	
C1-Fluoranthenes/Pyrenes	1.00	0.51		1.14	0.56	
C2-Fluoranthenes/Pyrenes	0.61	0.51		0.73	0.56	
C3-Fluoranthenes/Pyrenes	0.25	0.51	J	0.45	0.56	J
Benzo(a)anthracene	0.37	0.25		0.37	0.28	
Chrysene	1.12	0.20		1.22	0.22	
C1-Chrysenes	0.44	0.40		0.48	0.43	
C2-Chrysenes	0.32	0.40	J	0.46	0.43	
C3-Chrysenes	0.00	0.40	ND	0.14	0.43	J
C4-Chrysenes	0.00	0.40	ND	0.00	0.43	ND
Benzo(b)fluoranthene	0.53	0.46		0.57	0.50	
Benzo(k)fluoranthene	0.13	0.31	J	0.13	0.34	J
Benzo(e)pyrene	0.47	0.25		0.59	0.27	
Benzo(a)pyrene	0.36	0.49	J	0.31	0.54	J
Perylene	0.71	0.11		1.00	0.12	
Indeno(1,2,3-c,d)pyrene	0.20	0.47	J	0.15	0.51	J
Dibenz(a,h)anthracene	0.10	0.25	J	0.06	0.27	J
Benzo(g,h,i)perylene	0.23	0.39	J	0.17	0.42	J
2-Methylnaphthalene	0.32	0.28		0.24	0.31	J
1-Methylnaphthalene	0.21	0.35	J	0.19	0.38	J
2,6-Dimethylnaphthalene	0.15	0.18	J	0.15	0.20	J
1,6,7-Trimethylnaphthalene	0.15	0.28	J	0.14	0.30	J
1-Methylphenanthrene	0.33	0.12		0.20	0.13	

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID	DBAP-091204	DBHC-091204
Sample Descriptor	17 Oysters	16 Oysters
Original Sample		
GERG ID	C45256	C45257
Sample Type	SAMP	SAMP
SDG	EC170	EC170
<hr/>		
Dry Weight	0.64	0.64
Wet Weight	11.20	13.48
Sample Size Units	Grams	Grams
Matrix	Tissue	Tissue
% solid	5.7	4.8
% Lipid	29.3	5.1
Reporting Units	ng/g	ng/g
Calculation Basis (dry/wet)	Wet	Wet
<hr/>		
QC Batch ID	T1463	T1463
Method	GCMS	GCMS
Collection Date	12/09/04	12/09/04
Receive Date	12/11/04	12/11/04
Extraction Date	12/14/04	12/14/04
Analysis Date	12/15/04	12/15/04
<hr/>		
Surrogate Compounds	%Recovery	%Recovery
d8-Naphthalene	78.1	81.8
d10-Acenaphthene	88.5	96.6
d10-Phenanthrene	101.4	105.3
d12-Chrysene	78.7	81.0
d12-Perylene	67.8	69.0
<hr/>		
Total PAHs	Concentration	Concentration
Total PAHs with Perylene	24.1	17.6
Total PAHs without Perylene	22.9	16.7
Total NS&T PAHs	10.1	6.7
<hr/>		

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID
 Sample Descriptor
 Original Sample
 GERG ID
 Sample Type
 SDG

DBAP-091204
 17 Oysters
 C45256
 SAMP
 EC170

DBHC-091204
 16 Oysters
 C45257
 SAMP
 EC170

PAH Compounds	Concentration	MDL		Concentration	MDL	
Naphthalene	0.63	0.48		0.51	0.39	
C1-Naphthalenes	0.51	0.82	J	0.36	0.68	J
C2-Naphthalenes	0.29	0.47	J	0.22	0.39	J
C3-Naphthalenes	0.49	0.72	J	0.39	0.60	J
C4-Naphthalenes	0.74	0.72		0.73	0.60	
Biphenyl	0.19	0.39	J	0.15	0.33	J
Acenaphthylene	0.37	0.25		0.39	0.21	
Acenaphthene	0.18	0.25	J	0.17	0.21	J
Fluorene	0.18	0.37	J	0.19	0.31	J
C1-Fluorenes	0.65	0.74	J	0.54	0.62	J
C2-Fluorenes	0.97	0.74		0.83	0.62	
C3-Fluorenes	2.42	0.74		2.06	0.62	
Phenanthrene	0.47	0.35		0.31	0.29	
Anthracene	1.28	0.29		0.59	0.24	
C1-Phenanthrenes/Anthracenes	0.55	0.31		0.38	0.26	
C2-Phenanthrenes/Anthracenes	0.71	0.31		0.48	0.26	
C3-Phenanthrenes/Anthracenes	0.82	0.31		0.56	0.26	
C4-Phenanthrenes/Anthracenes	0.85	0.31		0.56	0.26	
Dibenzothiophene	0.06	0.13	J	0.06	0.11	J
C1-Dibenzothiophenes	0.51	0.26		0.36	0.21	
C2-Dibenzothiophenes	0.55	0.26		0.51	0.21	
C3-Dibenzothiophenes	0.78	0.26		0.44	0.21	
Fluoranthene	0.84	0.32		0.48	0.26	
Pyrene	1.70	0.34		1.19	0.28	
C1-Fluoranthenes/Pyrenes	1.06	0.66		0.75	0.55	
C2-Fluoranthenes/Pyrenes	0.84	0.66		0.61	0.55	
C3-Fluoranthenes/Pyrenes	0.37	0.66	J	0.23	0.55	J
Benzo(a)anthracene	0.43	0.33		0.27	0.27	J
Chrysene	1.03	0.26		0.72	0.21	
C1-Chrysenes	0.69	0.52		0.72	0.43	
C2-Chrysenes	0.37	0.52	J	0.26	0.43	J
C3-Chrysenes	0.00	0.52	ND	0.00	0.43	ND
C4-Chrysenes	0.00	0.52	ND	0.00	0.43	ND
Benzo(b)fluoranthene	0.71	0.59		0.45	0.49	J
Benzo(k)fluoranthene	0.21	0.41	J	0.13	0.34	J
Benzo(e)pyrene	0.61	0.32		0.43	0.27	
Benzo(a)pyrene	0.45	0.64	J	0.21	0.53	J
Perylene	1.26	0.15		0.90	0.12	
Indeno(1,2,3-c,d)pyrene	0.24	0.61	J	0.11	0.50	J
Dibenz(a,h)anthracene	0.06	0.32	J	0.04	0.27	J
Benzo(g,h,i)perylene	0.28	0.50	J	0.17	0.42	J
2-Methylnaphthalene	0.31	0.37	J	0.21	0.30	J
1-Methylnaphthalene	0.20	0.45	J	0.15	0.38	J
2,6-Dimethylnaphthalene	0.11	0.24	J	0.07	0.20	J
1,6,7-Trimethylnaphthalene	0.08	0.36	J	0.07	0.30	J
1-Methylphenanthrene	0.17	0.16		0.11	0.13	J

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID	OS0002	OS0003
Sample Descriptor	DBFE	DBBD
Original Sample		
GERG ID	C45770	C45771
Sample Type	SAMP	SAMP
SDG	F2193	F2193
Dry Weight	0.36	0.45
Wet Weight	10.51	10.37
Sample Size Units	Grams	Grams
Matrix	Tissue	Tissue
% solid	3.4	4.4
% Lipid	4.2	2.1
Reporting Units	ng/g	ng/g
Calculation Basis (dry/wet)	Wet	Wet
QC Batch ID	T1477	T1477
Method	GCMS	GCMS
Collection Date	02/25/05	02/25/05
Receive Date	02/25/05	02/25/05
Extraction Date	03/03/05	03/03/05
Analysis Date	03/24/05	03/24/05
Surrogate Compounds	%Recovery	%Recovery
d8-Naphthalene	62.5	71.0
d10-Acenaphthene	66.5	75.8
d10-Phenanthrene	70.9	84.6
d12-Chrysene	68.1	81.7
d12-Perylene	55.8	63.8
Total PAHs	Concentration	Concentration
Total PAHs with Perylene	21.5	13.2
Total PAHs without Perylene	20.5	12.7
Total NS&T PAHs	7.6	5.0

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID	OS0002	OS0003
Sample Descriptor	DBFE	DBBD
GERG ID		
Sample Type	C45770	C45771
SDG	SAMP	SAMP

PAH Compounds	Concentration	MDL		Concentration	MDL	
Naphthalene	0.74	0.51		0.46	0.51	J
C1-Naphthalenes	0.46	0.87	J	0.69	0.88	J
C2-Naphthalenes	0.75	0.51		0.45	0.51	J
C3-Naphthalenes	0.44	0.76	J	0.16	0.77	J
C4-Naphthalenes	0.36	0.76	J	0.27	0.77	J
Biphenyl	0.23	0.42	J	0.14	0.42	J
Acenaphthylene	0.37	0.27		0.27	0.27	J
Acenaphthene	0.30	0.27	J	0.20	0.27	J
Fluorene	0.17	0.40	J	0.10	0.40	J
C1-Fluorenes	0.56	0.79	J	0.35	0.80	J
C2-Fluorenes	0.81	0.79		0.33	0.80	J
C3-Fluorenes	1.24	0.79		1.01	0.80	
Phenanthrene	0.30	0.37	J	0.19	0.38	J
Anthracene	0.64	0.31		0.37	0.32	
C1-Phenanthrenes/Anthracenes	0.59	0.33		0.26	0.34	J
C2-Phenanthrenes/Anthracenes	0.74	0.33		0.45	0.34	
C3-Phenanthrenes/Anthracenes	0.97	0.33		0.46	0.34	
C4-Phenanthrenes/Anthracenes	0.73	0.33		0.34	0.34	
Dibenzothiophene	0.11	0.14	J	0.07	0.14	J
C1-Dibenzothiophenes	0.42	0.27		0.21	0.28	J
C2-Dibenzothiophenes	1.23	0.27		0.43	0.28	
C3-Dibenzothiophenes	1.16	0.27		0.50	0.28	
Fluoranthene	0.42	0.34		0.29	0.34	J
Pyrene	1.32	0.36		0.79	0.37	
C1-Fluoranthenes/Pyrenes	0.77	0.70		0.59	0.71	J
C2-Fluoranthenes/Pyrenes	0.67	0.70	J	0.39	0.71	J
C3-Fluoranthenes/Pyrenes	0.27	0.70	J	0.46	0.71	J
Benzo(a)anthracene	0.22	0.35	J	0.16	0.35	J
Chrysene	0.81	0.27		0.52	0.28	
C1-Chrysenes	0.62	0.55		0.36	0.56	J
C2-Chrysenes	0.17	0.55	J	0.24	0.56	J
C3-Chrysenes	0.19	0.55	J	0.19	0.56	J
C4-Chrysenes	0.27	0.55	J	0.00	0.56	ND
Benzo(b)fluoranthene	0.57	0.63	J	0.29	0.64	J
Benzo(k)fluoranthene	0.14	0.43	J	0.14	0.44	J
Benzo(e)pyrene	0.48	0.34		0.30	0.35	J
Benzo(a)pyrene	0.20	0.68	J	0.10	0.69	J
Perylene	0.97	0.16		0.56	0.16	
Indeno(1,2,3-c,d)pyrene	0.02	0.65	J	0.03	0.65	J
Dibenz(a,h)anthracene	0.02	0.34	J	0.01	0.35	J
Benzo(g,h,i)perylene	0.01	0.54	J	0.11	0.54	J
2-Methylnaphthalene	0.33	0.39	J	0.34	0.40	J
1-Methylnaphthalene	0.13	0.48	J	0.36	0.49	J
2,6-Dimethylnaphthalene	0.09	0.25	J	0.08	0.26	J
1,6,7-Trimethylnaphthalene	0.03	0.38	J	0.07	0.39	J
1-Methylphenanthrene	0.18	0.17		0.07	0.17	J

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID	OS0005	OS0007
Sample Descriptor	DBAP	DBHC
Original Sample		
GERG ID	C45773	C45775
Sample Type	SAMP	SAMP
SDG	F2193	F2193
Dry Weight	1.32	1.49
Wet Weight	9.84	9.89
Sample Size Units	Grams	Grams
Matrix	Tissue	Tissue
% solid	13.4	15.1
% Lipid	6.6	8.8
Reporting Units	ng/g	ng/g
Calculation Basis (dry/wet)	Wet	Wet
QC Batch ID	T1477	T1477
Method	GCMS	GCMS
Collection Date	02/25/05	02/25/05
Receive Date	02/25/05	02/25/05
Extraction Date	03/03/05	03/03/05
Analysis Date	03/24/05	03/24/05
Surrogate Compounds	%Recovery	%Recovery
d8-Naphthalene	69.8	81.7
d10-Acenaphthene	74.3	81.9
d10-Phenanthrene	80.4	83.1
d12-Chrysene	70.8	77.3
d12-Perylene	62.0	67.0
Total PAHs	Concentration	Concentration
Total PAHs with Perylene	28.9	25.3
Total PAHs without Perylene	28.2	24.6
Total NS&T PAHs	11.4	10.6

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

F.3. Trace metal data for five samples collected on December 9, 2004.

Client Sample ID	DBFE-091204				Newbedsoermo-091204			
Sample Descriptor	10 Oysters				18 Oysters			
GERG Sample ID	C45253				C45254			
Sample Type	SAMP				SAMP			
GERG SDG	EC170				EC170			
Collection Date	12/9/2004				12/9/2004			
Receipt Date	12/11/2004				12/11/2004			
Matrix	Tissue				Tissue			
Acid Digest QC Batch	TS-306				TS-306			
Acid Digestion Wt	0.1084				0.1086			
Acid Digestion Date	12/14/2004				12/14/2004			
Hg Digest QC Batch	HG-1155				HG-1155			
Hg Digestion Wt	0.159				0.146			
Hg Digestion Date	12/15/2004				12/15/2004			
Wt Units	Grams				Grams			
Unit Qual	Dry				Dry			
% Moisture	86.3				87.5			
% Solid	13.7				12.5			
Conc Units	ug/g				ug/g			
	Conc	DL	QUAL		Conc	DL	QUAL	
GFAA/ICP								
Antimony	0.00	0.92	J		0.00	0.92	J	
Aluminum	169.79	6.46			105.90	6.45		
Arsenic	9.44	0.18			8.09	0.18		
Cadmium	3.34	0.09			4.31	0.09		
Chromium	0.09	0.09	J		0.16	0.09		
Copper	90.58	0.46			276.95	0.46		
Iron	370.78	4.61			536.55	4.60		
Manganese	14.13	4.61			10.73	4.60		
Nickel	3.27	0.46			4.49	0.46		
Lead	0.41	0.09			0.63	0.09		
Selenium	2.16	0.92			2.91	0.92		
Silver	3.02	0.01			1.17	0.01		
Tin	0.10	0.04			-0.02	0.04	J	
Thallium	0.00	0.02	J		0.00	0.02	J	
Zinc	4029.01	36.90			4413.85	36.83		
CVAA								
Mercury	0.096	0.01			0.111	0.01		

ND Not Detected
 J <DL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3*DL
 D Dilution
 EL Exceeds Linear Range

Client Sample ID	DBBD-091204				DBAP-091204		
Sample Descriptor	18 Oysters				17 Oysters		
GERG Sample ID	C45255				C45256		
Sample Type	SAMP				SAMP		
GERG SDG	EC170				EC170		
Collection Date	12/9/2004				12/9/2004		
Receipt Date	12/11/2004				12/11/2004		
Matrix	Tissue				Tissue		
Acid Digest QC Batch	TS-306				TS-306		
Acid Digestion Wt	0.1028				0.1092		
Acid Digestion Date	12/14/2004				12/14/2004		
Hg Digest QC Batch	HG-1155				HG-1155		
Hg Digestion Wt	0.165				0.126		
Hg Digestion Date	12/15/2004				12/15/2004		
Wt Units	Grams				Grams		
Unit Qual	Dry				Dry		
% Moisture	88.6				94.3		
% Solid	11.4				5.7		
Conc Units	ug/g				ug/g		
GFAA/ICP	Conc	DL	QUAL	Conc	DL	QUAL	
Antimony	0.00	0.97	J	0.01	0.92	J	
Aluminum	138.93	6.81		895.21	6.41		
Arsenic	7.78	0.19		7.58	0.18		
Cadmium	4.99	0.10		9.88	0.09		
Chromium	0.53	0.10		1.33	0.09		
Copper	348.67	0.49		1646.09	0.46		
Iron	216.26	4.86		2325.71	4.58		
Manganese	11.83	4.86		53.97	4.58		
Nickel	4.26	0.49		8.07	0.46		
Lead	0.90	0.10		1.35	0.09		
Selenium	2.94	0.97		6.47	0.92		
Silver	0.86	0.01		4.25	0.01		
Tin	0.62	0.04		0.23	0.04		
Thallium	0.00	0.02	J	0.01	0.02	J	
Zinc	8899.47	38.91		28262.30	36.63		
CVAA							
Mercury	0.117	0.01		0.210	0.01		

ND Not Detected
 J <DL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3*DL
 D Dilution
 EL Exceeds Linear Range

Client Sample ID	DBHC-091204		
Sample Descriptor	16 Oysters		
GERG Sample ID	C45257		
Sample Type	SAMP		
GERG SDG	EC170		
Collection Date	12/9/2004		
Receipt Date	12/11/2004		
Matrix	Tissue		
Acid Digest QC Batch	TS-306		
Acid Digestion Wt	0.0946		
Acid Digestion Date	12/14/2004		
Hg Digest QC Batch	HG-1155		
Hg Digestion Wt	0.093		
Hg Digestion Date	12/15/2004		
Wt Units	Grams		
Unit Qual	Dry		
% Moisture	95.2		
% Solid	4.8		
Conc Units	ug/g		
	Conc	DL	QUAL
GEAA/ICP			
Antimony	0.01	1.06	J
Aluminum	827.62	7.40	
Arsenic	6.61	0.21	
Cadmium	16.35	0.11	
Chromium	0.88	0.11	
Copper	1753.11	0.53	
Iron	1808.62	5.29	
Manganese	35.63	5.29	
Nickel	7.44	0.53	
Lead	1.38	0.11	
Selenium	6.33	1.06	
Silver	1.77	0.01	
Tin	0.16	0.04	
Thallium	0.05	0.02	B
Zinc	33700.35	42.28	
CVAA			
Mercury	0.048	0.01	

ND Not Detected
 J <DL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3*DL
 D Dilution
 EL Exceeds Linear Range

F.4. Biomarker reports on 12 samples collected on December 7 and 9, 2004.

STERANE AND TRITERPANE BIOMARKERS

Project: ATHOS I Oil Spill
 Lab Sample ID: C45246
 Sample Descriptor: R-12-7-2004
 Analysis Date: 12/17/2004

No.	COMPOUND NAME	RT	ION	AREA	CONC	%
	TERPANES				(ng/g)	
H	C19 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
A	C20 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
B	C21 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
C	C22 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
D	C23 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
E	C24 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
1	C25 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
4	C24 TETRACYCLIC TERPANE	0.00	191	0	0.00	0.0
5	C26 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
6	C26 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
9	C28 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
10	C28 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
11	C29 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
12	C29 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
13	C27 18a-22,29,30-TRISNORNEOHOPANE (Ts)	50.15	191	666	0.68	36.5
I	C27 PENTACYCLIC TERPANE (Y)	0.00	191	0	0.00	0.0
14	C27 17a-22,29,30-TRISNORHOPANE (Tm)	51.03	191	531	0.54	29.1
15	C30 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
16	C30 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
17	C28 17a,21b-28,30-BISNORHOPANE	0.00	191	0	0.00	0.0
J	C29 17a,21b-25-NORHOPANE	0.00	191	0	0.00	0.0
19	C29 17a,21b-30-NORHOPANE	0.00	191	0	0.00	0.0
20	C29 18a-NORNEOHOPANE (29Ts)	0.00	191	0	0.00	0.0
F	C30 DIAHOPANE	0.00	191	0	0.00	0.0
21	C29 17b,21a-30-NORMORETANE	0.00	191	0	0.00	0.0
22	C30 18a-OLEANANE	0.00	191	0	0.00	0.0
23	C30 17a,21b-HOPANE	0.00	191	0	0.00	0.0
24	C30 17b,21a-MORETANE	0.00	191	0	0.00	0.0
27	C31 17a,21b-HOMOHOPANE (22S)	57.64	191	630	0.64	34.5
28	C31 17a,21b-HOMOHOPANE(22R)	0.00	191	0	0.00	0.0
G	C30 GAMMACERANE	0.00	191	0	0.00	0.0
30	C32 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
31	C32 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0
34	C33 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
35	C33 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0
36	C34 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
37	C34 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0
38	C35 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
39	C35 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0

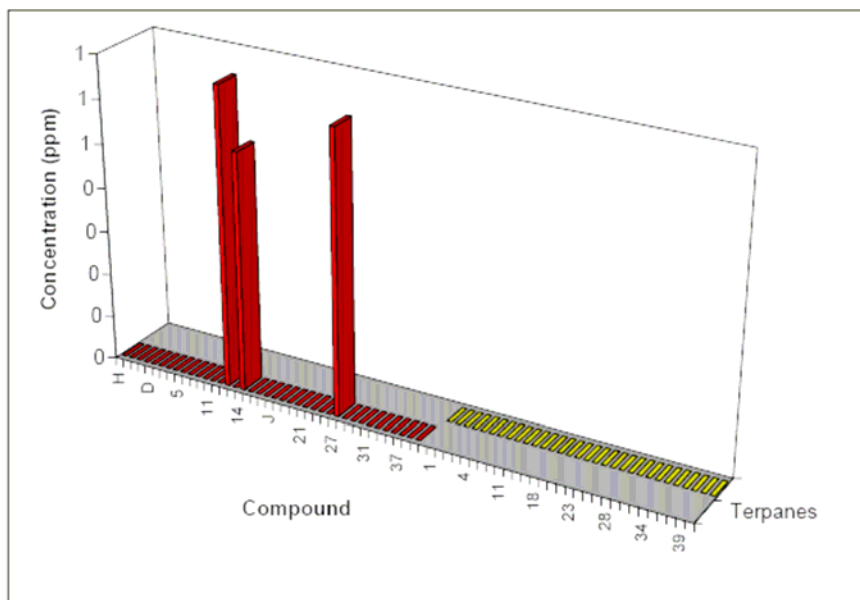
STERANE AND TRITERPANE BIOMARKERS

Project: ATHOS I Oil Spill

Lab Sample ID: C45246

Sample Descriptor: R-12-7-2004

Analysis Date: 12/17/2004



STERANE AND TRITERPANE BIOMARKERS

Project: ATHOS I Oil Spill

Lab Sample ID: C45247

Sample Descriptor: SB-12-7-2004

Analysis Date: 12/17/2004

No.	COMPOUND NAME	RT	ION	AREA	CONC	%
	TERPANES				(ng/g)	
H	C19 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
A	C20 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
B	C21 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
C	C22 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
D	C23 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
E	C24 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
1	C25 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
4	C24 TETRACYCLIC TERPANE	0.00	191	0	0.00	0.0
5	C26 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
6	C26 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
9	C28 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
10	C28 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
11	C29 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
12	C29 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
13	C27 18a-22,29,30-TRISNORNEOHOPANE (Ts)	50.15	191	744	0.77	38.2
I	C27 PENTACYCLIC TERPANE (Y)	50.58	191	322	0.33	16.5
14	C27 17a-22,29,30-TRISNORHOPANE (Tm)	51.03	191	309	0.32	15.9
15	C30 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
16	C30 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
17	C28 17a,21b-28,30-BISNORHOPANE	0.00	191	0	0.00	0.0
J	C29 17a,21b-25-NORHOPANE	0.00	191	0	0.00	0.0
19	C29 17a,21b-30-NORHOPANE	0.00	191	0	0.00	0.0
20	C29 18a-NORNEOHOPANE (29Ts)	0.00	191	0	0.00	0.0
F	C30 DIAHOPANE	0.00	191	0	0.00	0.0
21	C29 17b,21a-30-NORMORETANE	0.00	191	0	0.00	0.0
22	C30 18a-OLEANANE	0.00	191	0	0.00	0.0
23	C30 17a,21b-HOPANE	0.00	191	0	0.00	0.0
24	C30 17b,21a-MORETANE	0.00	191	0	0.00	0.0
27	C31 17a,21b-HOMOHOPANE (22S)	57.62	191	572	0.59	29.4
28	C31 17a,21b-HOMOHOPANE(22R)	0.00	191	0	0.00	0.0
G	C30 GAMMACERANE	0.00	191	0	0.00	0.0
30	C32 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
31	C32 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0
34	C33 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
35	C33 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0
36	C34 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
37	C34 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0
38	C35 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
39	C35 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0

STERANE AND TRITERPANE BIOMARKERS

Project: ATHOS I Oil Spill

Lab Sample ID: C45247

Sample Descriptor: SB-12-7-2004

Analysis Date: 12/17/2004

No.	COMPOUND NAME	RT	ION	AREA	CONC	%
	STERANES				(ng/g)	
A	C21 DIAPREGNANE	0.00	217	0	0.00	n.d.
1	C21 PREGNANE	0.00	217	0	0.00	n.d.
B	C22 DIAHOMOPREGNANE	0.00	217	0	0.00	n.d.
2	C22 HOMOPREGNANE	0.00	217	0	0.00	n.d.
3	C27 13b,17a DIASTERANE (20S)	0.00	217	0	0.00	n.d.
4	C27 13b,17a DIASTERANE (20R)	0.00	217	0	0.00	n.d.
8	C27 13a,17b DIASTERANE (20S)	0.00	217	0	0.00	n.d.
9	C27 13a,17b DIASTERANE (20R)	0.00	217	0	0.00	n.d.
10	C28 13b,17a DIASTERANE (20S) (24R/24S ?)	0.00	217	0	0.00	n.d.
11	C28 13b,17a DIASTERANE (20S) (24R/24S ?)	0.00	217	0	0.00	n.d.
14+15	C28 13b,17a DIASTERANE (20R) (24R/24S ?)	0.00	217	0	0.00	n.d.
16	C28 13a,17b DIASTERANE (20S)	0.00	217	0	0.00	n.d.
17	C27 5a,14a,17a STERANE (20S)	0.00	217	0	0.00	n.d.
18	C27 5a,14b,17b ISOSTERANE (20R) + C29 13b,17a DIASTERANE (20S)	0.00	217	0	0.00	n.d.
19	C27 5a,14b,17b ISOSTERANE (20S)	0.00	217	0	0.00	n.d.
20	C28 13a,17b DIASTERANE (20R)	0.00	217	0	0.00	n.d.
22	C27 5a,14a,17a STERANE (20R)	0.00	217	0	0.00	n.d.
23	C29 13b,17a DIASTERANE (20R)	0.00	217	0	0.00	n.d.
24	C29 13a,17b DIASTERANE (20S)	0.00	217	0	0.00	n.d.
26	C28 5a,14a,17a STERANE (20S)	0.00	217	0	0.00	n.d.
27	C29 13a,17b DIASTERANE (20R)	0.00	217	0	0.00	n.d.
28	C28 5a,14b,17b ISOSTERANE (20R)	0.00	217	0	0.00	n.d.
29	C28 5a,14b,17b ISOSTERANE (20S)	0.00	217	0	0.00	n.d.
31	C28 5a,14a,17a STERANE (20R)	0.00	217	0	0.00	n.d.
33	C29 5a,14a,17a STERANE (20S)	0.00	217	0	0.00	n.d.
34	C29 5a,14b,17b ISOSTERANE (20R)	0.00	217	0	0.00	n.d.
35	C29 5a,14b,17b ISOSTERANE (20S)	0.00	217	0	0.00	n.d.
37	C29 5a,14a,17a STERANE (20R)	0.00	217	0	0.00	n.d.
38	C30 5a,14a,17a STERANE (20S)	0.00	217	0	0.00	n.d.
39	C30 5a,14b,17b ISOSTERANE (20R)	0.00	217	0	0.00	n.d.
40	C30 5a,14b,17b ISOSTERANE (20S)	0.00	217	0	0.00	n.d.
41	C30 5a,14a,17a STERANE (20R)	0.00	217	0	0.00	n.d.

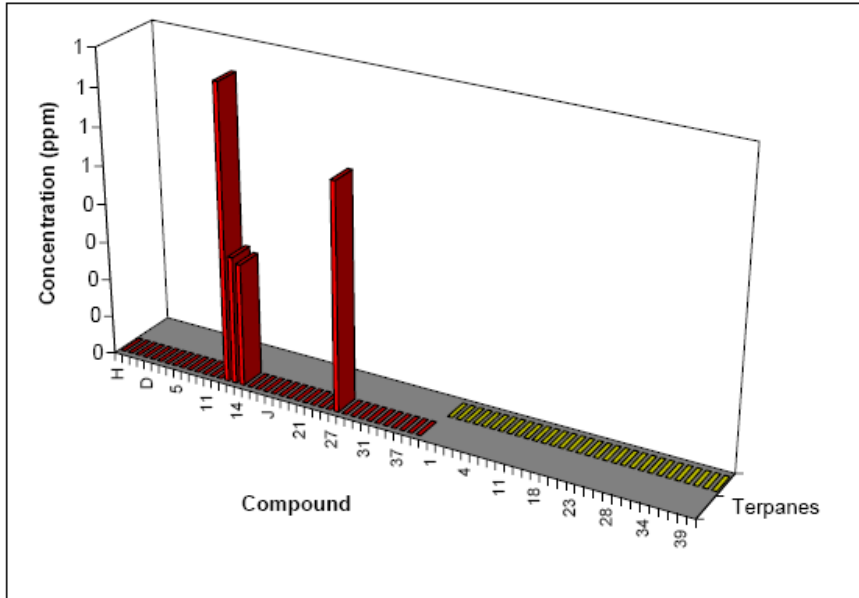
STERANE AND TRITERPANE BIOMARKERS

Project: ATHOS I Oil Spill

Lab Sample ID: C45247

Sample Descriptor: SB-12-7-2004

Analysis Date: 12/17/2004



STERANE AND TRITERPANE BIOMARKERS

Project: ATHOS I Oil Spill

Lab Sample ID: C45248

Sample Descriptor: LM-12-7-2004

Analysis Date: 12/17/2004

No.	COMPOUND NAME	RT	ION	AREA	CONC	%
	TERPANES				(ng/g)	
H	C19 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
A	C20 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
B	C21 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
C	C22 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
D	C23 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
E	C24 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
1	C25 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
4	C24 TETRACYCLIC TERPANE	0.00	191	0	0.00	0.0
5	C26 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
6	C26 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
9	C28 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
10	C28 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
11	C29 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
12	C29 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
13	C27 18a-22,29,30-TRISNORNEOHOPANE (Ts)	50.15	191	582	0.75	63.4
I	C27 PENTACYCLIC TERPANE (Y)	0.00	191	0	0.00	0.0
14	C27 17a-22,29,30-TRISNORHOPANE (Tm)	51.06	191	336	0.43	36.6
15	C30 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
16	C30 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
17	C28 17a,21b-28,30-BISNORHOPANE	0.00	191	0	0.00	0.0
J	C29 17a,21b-25-NORHOPANE	0.00	191	0	0.00	0.0
19	C29 17a,21b-30-NORHOPANE	0.00	191	0	0.00	0.0
20	C29 18a-NORNEOHOPANE (29Ts)	0.00	191	0	0.00	0.0
F	C30 DIAHOPANE	0.00	191	0	0.00	0.0
21	C29 17b,21a-30-NORMORETANE	0.00	191	0	0.00	0.0
22	C30 18a-OLEANANE	0.00	191	0	0.00	0.0
23	C30 17a,21b-HOPANE	0.00	191	0	0.00	0.0
24	C30 17b,21a-MORETANE	0.00	191	0	0.00	0.0
27	C31 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
28	C31 17a,21b-HOMOHOPANE(22R)	0.00	191	0	0.00	0.0
G	C30 GAMMACERANE	0.00	191	0	0.00	0.0
30	C32 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
31	C32 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0
34	C33 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
35	C33 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0
36	C34 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
37	C34 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0
38	C35 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
39	C35 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0

STERANE AND TRITERPANE BIOMARKERS

Project: ATHOS I Oil Spill

Lab Sample ID: C45248

Sample Descriptor: LM-12-7-2004

Analysis Date: 12/17/2004

No.	COMPOUND NAME	RT	ION	AREA	CONC (ng/g)	%
STERANES						
A	C21 DIAPREGNANE	0.00	217	0	0.00	n.d.
1	C21 PREGNANE	0.00	217	0	0.00	n.d.
B	C22 DIAHOMOPREGNANE	0.00	217	0	0.00	n.d.
2	C22 HOMOPREGNANE	0.00	217	0	0.00	n.d.
3	C27 13b,17a DIASTERANE (20S)	0.00	217	0	0.00	n.d.
4	C27 13b,17a DIASTERANE (20R)	0.00	217	0	0.00	n.d.
8	C27 13a,17b DIASTERANE (20S)	0.00	217	0	0.00	n.d.
9	C27 13a,17b DIASTERANE (20R)	0.00	217	0	0.00	n.d.
10	C28 13b,17a DIASTERANE (20S) (24R/24S ?)	0.00	217	0	0.00	n.d.
11	C28 13b,17a DIASTERANE (20S) (24R/24S ?)	0.00	217	0	0.00	n.d.
14-15	C28 13b,17a DIASTERANE (20R) (24R/24S ?)	0.00	217	0	0.00	n.d.
16	C28 13a,17b DIASTERANE (20S)	0.00	217	0	0.00	n.d.
17	C27 5a,14a,17a STERANE (20S)	0.00	217	0	0.00	n.d.
18	C27 5a,14b,17b ISOSTERANE (20R) + C29 13b,17a DIASTERANE (20S)	0.00	217	0	0.00	n.d.
19	C27 5a,14b,17b ISOSTERANE (20S)	0.00	217	0	0.00	n.d.
20	C28 13a,17b DIASTERANE (20R)	0.00	217	0	0.00	n.d.
22	C27 5a,14a,17a STERANE (20R)	0.00	217	0	0.00	n.d.
23	C29 13b,17a DIASTERANE (20R)	0.00	217	0	0.00	n.d.
24	C29 13a,17b DIASTERANE (20S)	0.00	217	0	0.00	n.d.
26	C28 5a,14a,17a STERANE (20S)	0.00	217	0	0.00	n.d.
27	C29 13a,17b DIASTERANE (20R)	0.00	217	0	0.00	n.d.
28	C28 5a,14b,17b ISOSTERANE (20R)	0.00	217	0	0.00	n.d.
29	C28 5a,14b,17b ISOSTERANE (20S)	0.00	217	0	0.00	n.d.
31	C28 5a,14a,17a STERANE (20R)	0.00	217	0	0.00	n.d.
33	C29 5a,14a,17a STERANE (20S)	0.00	217	0	0.00	n.d.
34	C29 5a,14b,17b ISOSTERANE (20R)	0.00	217	0	0.00	n.d.
35	C29 5a,14b,17b ISOSTERANE (20S)	0.00	217	0	0.00	n.d.
37	C29 5a,14a,17a STERANE (20R)	0.00	217	0	0.00	n.d.
38	C30 5a,14a,17a STERANE (20S)	0.00	217	0	0.00	n.d.
39	C30 5a,14b,17b ISOSTERANE (20R)	0.00	217	0	0.00	n.d.
40	C30 5a,14b,17b ISOSTERANE (20S)	0.00	217	0	0.00	n.d.
41	C30 5a,14a,17a STERANE (20R)	0.00	217	0	0.00	n.d.

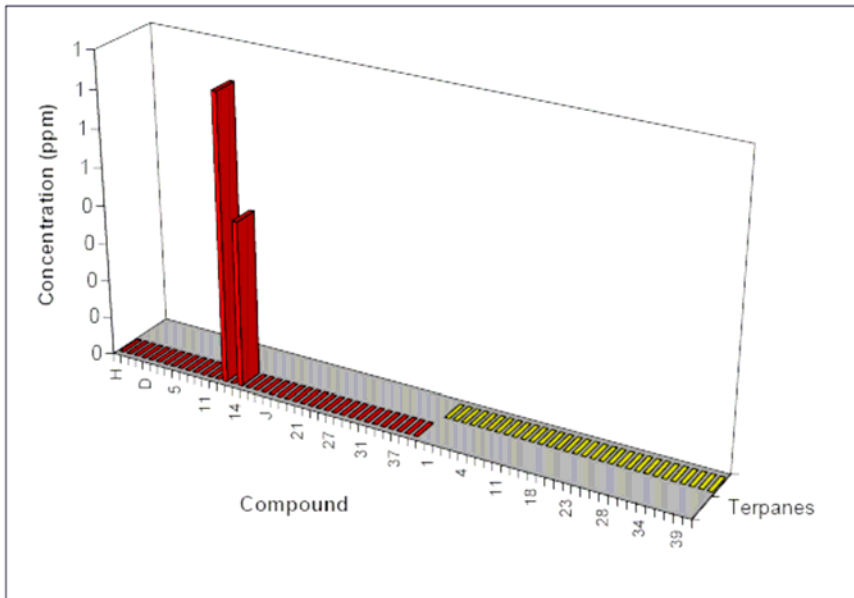
STERANE AND TRITERPANE BIOMARKERS

Project: ATHOS I Oil Spill

Lab Sample ID: C45248

Sample Descriptor: LM-12-7-2004

Analysis Date: 12/17/2004



STERANE AND TRITERPANE BIOMARKERS

Project: ATHOS I Oil Spill

Lab Sample ID: C45249

Sample Descriptor: RN-12-7-2004

Analysis Date: 12/17/2004

No.	COMPOUND NAME	RT	ION	AREA	CONC	%
	TERPANES				(ng/g)	
H	C19 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
A	C20 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
B	C21 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
C	C22 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
D	C23 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
E	C24 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
1	C25 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
4	C24 TETRACYCLIC TERPANE	0.00	191	0	0.00	0.0
5	C26 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
6	C26 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
9	C28 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
10	C28 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
11	C29 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
12	C29 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
13	C27 18a-22,29,30-TRISNORNEOHOPANE (Ts)	50.15	191	658	0.47	46.9
I	C27 PENTACYCLIC TERPANE (Y)	0.00	191	0	0.00	0.0
14	C27 17a-22,29,30-TRISNORHOPANE (Tm)	51.03	191	746	0.54	53.1
15	C30 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
16	C30 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
17	C28 17a,21b-28,30-BISNORHOPANE	0.00	191	0	0.00	0.0
J	C29 17a,21b-25-NORHOPANE	0.00	191	0	0.00	0.0
19	C29 17a,21b-30-NORHOPANE	0.00	191	0	0.00	0.0
20	C29 18a-NORNEOHOPANE (29Ts)	0.00	191	0	0.00	0.0
F	C30 DIAHOPANE	0.00	191	0	0.00	0.0
21	C29 17b,21a-30-NORMORETANE	0.00	191	0	0.00	0.0
22	C30 18a-OLEANANE	0.00	191	0	0.00	0.0
23	C30 17a,21b-HOPANE	0.00	191	0	0.00	0.0
24	C30 17b,21a-MORETANE	0.00	191	0	0.00	0.0
27	C31 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
28	C31 17a,21b-HOMOHOPANE(22R)	0.00	191	0	0.00	0.0
G	C30 GAMMACERANE	0.00	191	0	0.00	0.0
30	C32 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
31	C32 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0
34	C33 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
35	C33 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0
36	C34 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
37	C34 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0
38	C35 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
39	C35 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0

STERANE AND TRITERPANE BIOMARKERS

Project: ATHOS I Oil Spill

Lab Sample ID: C45249

Sample Descriptor: RN-12-7-2004

Analysis Date: 12/17/2004

No.	COMPOUND NAME	RT	ION	AREA	CONC	%
	STERANES				(ng/g)	
A	C21 DIAPREGNANE	0.00	217	0	0.00	n.d.
1	C21 PREGNANE	0.00	217	0	0.00	n.d.
B	C22 DIAHOMOPREGNANE	0.00	217	0	0.00	n.d.
2	C22 HOMOPREGNANE	0.00	217	0	0.00	n.d.
3	C27 13b,17a DIASTERANE (20S)	0.00	217	0	0.00	n.d.
4	C27 13b,17a DIASTERANE (20R)	0.00	217	0	0.00	n.d.
8	C27 13a,17b DIASTERANE (20S)	0.00	217	0	0.00	n.d.
9	C27 13a,17b DIASTERANE (20R)	0.00	217	0	0.00	n.d.
10	C28 13b,17a DIASTERANE (20S) (24R/24S ?)	0.00	217	0	0.00	n.d.
11	C28 13b,17a DIASTERANE (20S) (24R/24S ?)	0.00	217	0	0.00	n.d.
14-15	C28 13b,17a DIASTERANE (20R) (24R/24S ?)	0.00	217	0	0.00	n.d.
16	C28 13a,17b DIASTERANE (20S)	0.00	217	0	0.00	n.d.
17	C27 5a,14a,17a STERANE (20S)	0.00	217	0	0.00	n.d.
18	C27 5a,14b,17b ISOSTERANE (20R) + C29 13b,17a DIASTERANE (20S)	0.00	217	0	0.00	n.d.
19	C27 5a,14b,17b ISOSTERANE (20S)	0.00	217	0	0.00	n.d.
20	C28 13a,17b DIASTERANE (20R)	0.00	217	0	0.00	n.d.
22	C27 5a,14a,17a STERANE (20R)	0.00	217	0	0.00	n.d.
23	C29 13b,17a DIASTERANE (20R)	0.00	217	0	0.00	n.d.
24	C29 13a,17b DIASTERANE (20S)	0.00	217	0	0.00	n.d.
26	C28 5a,14a,17a STERANE (20S)	0.00	217	0	0.00	n.d.
27	C29 13a,17b DIASTERANE (20R)	0.00	217	0	0.00	n.d.
28	C28 5a,14b,17b ISOSTERANE (20R)	0.00	217	0	0.00	n.d.
29	C28 5a,14b,17b ISOSTERANE (20S)	0.00	217	0	0.00	n.d.
31	C28 5a,14a,17a STERANE (20R)	0.00	217	0	0.00	n.d.
33	C29 5a,14a,17a STERANE (20S)	0.00	217	0	0.00	n.d.
34	C29 5a,14b,17b ISOSTERANE (20R)	0.00	217	0	0.00	n.d.
35	C29 5a,14b,17b ISOSTERANE (20S)	0.00	217	0	0.00	n.d.
37	C29 5a,14a,17a STERANE (20R)	0.00	217	0	0.00	n.d.
38	C30 5a,14a,17a STERANE (20S)	0.00	217	0	0.00	n.d.
39	C30 5a,14b,17b ISOSTERANE (20R)	0.00	217	0	0.00	n.d.
40	C30 5a,14b,17b ISOSTERANE (20S)	0.00	217	0	0.00	n.d.
41	C30 5a,14a,17a STERANE (20R)	0.00	217	0	0.00	n.d.

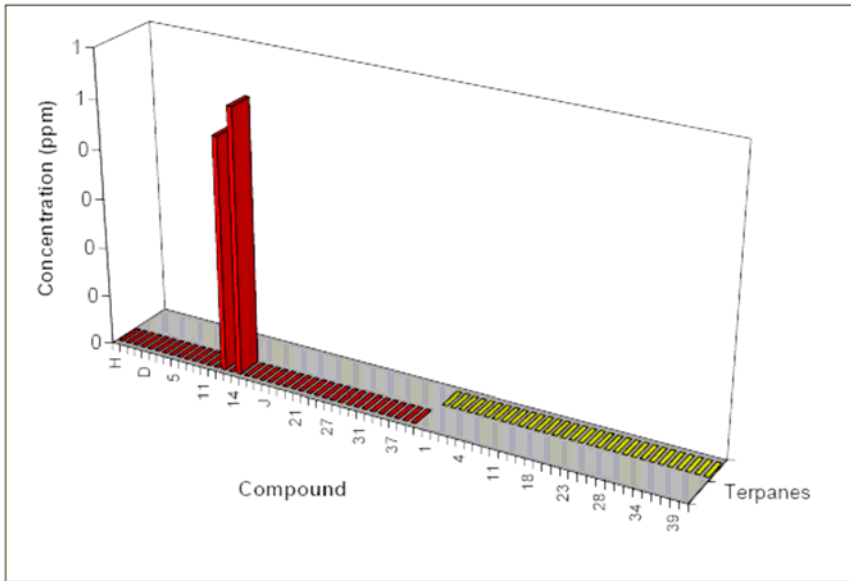
STERANE AND TRITERPANE BIOMARKERS

Project: ATHOS I Oil Spill

Lab Sample ID: C45249

Sample Descriptor: RN-12-7-2004

Analysis Date: 12/17/2004



STERANE AND TRITERPANE BIOMARKERS

Project: ATHOS I Oil Spill

Lab Sample ID: C45250

Sample Descriptor: OB-12-7-2004

Analysis Date: 12/17/2004

No.	COMPOUND NAME	RT	ION	AREA	CONC	%
	TERPANES				(ng/g)	
H	C19 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
A	C20 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
B	C21 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
C	C22 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
D	C23 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
E	C24 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
1	C25 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
4	C24 TETRACYCLIC TERPANE	0.00	191	0	0.00	0.0
5	C26 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
6	C26 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
9	C28 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
10	C28 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
11	C29 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
12	C29 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
13	C27 18a,22,29,30-TRISNORNEOHOPANE (Ts)	50.15	191	721	0.60	24.4
1	C27 PENTACYCLIC TERPANE (Y)	0.00	191	0	0.00	0.0
14	C27 17a,22,29,30-TRISNORHOPANE (Tm)	51.05	191	519	0.43	17.5
15	C30 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
16	C30 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
17	C28 17a,21b-28,30-BISNORHOPANE	0.00	191	0	0.00	0.0
J	C29 17a,21b-25-NORHOPANE	0.00	191	0	0.00	0.0
19	C29 17a,21b-30-NORHOPANE	0.00	191	0	0.00	0.0
20	C29 18a-NORNEOHOPANE (29Ts)	0.00	191	0	0.00	0.0
F	C30 DIAHOPANE	0.00	191	0	0.00	0.0
21	C29 17b,21a-30-NORMORETANE	0.00	191	0	0.00	0.0
22	C30 18a-OLEANANE	0.00	191	0	0.00	0.0
23	C30 17a,21b-HOPANE	0.00	191	0	0.00	0.0
24	C30 17b,21a-MORETANE	0.00	191	0	0.00	0.0
27	C31 17a,21b-HOMOHOPANE (22S)	57.64	191	1403	1.16	47.4
28	C31 17a,21b-HOMOHOPANE(22R)	57.87	191	316	0.26	10.7
G	C30 GAMMACERANE	0.00	191	0	0.00	0.0
30	C32 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
31	C32 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0
34	C33 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
35	C33 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0
36	C34 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
37	C34 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0
38	C35 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
39	C35 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0

STERANE AND TRITERPANE BIOMARKERS

Project: ATHOS I Oil Spill

Lab Sample ID: C45250

Sample Descriptor: OB-12-7-2004

Analysis Date: 12/17/2004

No.	COMPOUND NAME	RT	ION	AREA	CONC	%
	STERANES				(ng/g)	
A	C21 DIAPREGNANE	0.00	217	0	0.00	n.d.
1	C21 PREGNANE	0.00	217	0	0.00	n.d.
B	C22 DIAHOMOPREGNANE	0.00	217	0	0.00	n.d.
2	C22 HOMOPREGNANE	0.00	217	0	0.00	n.d.
3	C27 13b,17a DIASTERANE (20S)	0.00	217	0	0.00	n.d.
4	C27 13b,17a DIASTERANE (20R)	0.00	217	0	0.00	n.d.
8	C27 13a,17b DIASTERANE (20S)	0.00	217	0	0.00	n.d.
9	C27 13a,17b DIASTERANE (20R)	0.00	217	0	0.00	n.d.
10	C28 13b,17a DIASTERANE (20S) (24R/24S ?)	0.00	217	0	0.00	n.d.
11	C28 13b,17a DIASTERANE (20S) (24R/24S ?)	0.00	217	0	0.00	n.d.
14+15	C28 13b,17a DIASTERANE (20R) (24R/24S ?)	0.00	217	0	0.00	n.d.
16	C28 13a,17b DIASTERANE (20S)	0.00	217	0	0.00	n.d.
17	C27 5a,14a,17a STERANE (20S)	0.00	217	0	0.00	n.d.
18	C27 5a,14b,17b ISOSTERANE (20R) + C29 13b,17a DIASTERANE (20S)	0.00	217	0	0.00	n.d.
19	C27 5a,14b,17b ISOSTERANE (20S)	0.00	217	0	0.00	n.d.
20	C28 13a,17b DIASTERANE (20R)	0.00	217	0	0.00	n.d.
22	C27 5a,14a,17a STERANE (20R)	0.00	217	0	0.00	n.d.
23	C29 13b,17a DIASTERANE (20R)	0.00	217	0	0.00	n.d.
24	C29 13a,17b DIASTERANE (20S)	0.00	217	0	0.00	n.d.
26	C28 5a,14a,17a STERANE (20S)	0.00	217	0	0.00	n.d.
27	C29 13a,17b DIASTERANE (20R)	0.00	217	0	0.00	n.d.
28	C28 5a,14b,17b ISOSTERANE (20R)	0.00	217	0	0.00	n.d.
29	C28 5a,14b,17b ISOSTERANE (20S)	0.00	217	0	0.00	n.d.
31	C28 5a,14a,17a STERANE (20R)	0.00	217	0	0.00	n.d.
33	C29 5a,14a,17a STERANE (20S)	0.00	217	0	0.00	n.d.
34	C29 5a,14b,17b ISOSTERANE (20R)	0.00	217	0	0.00	n.d.
35	C29 5a,14b,17b ISOSTERANE (20S)	0.00	217	0	0.00	n.d.
37	C29 5a,14a,17a STERANE (20R)	0.00	217	0	0.00	n.d.
38	C30 5a,14a,17a STERANE (20S)	0.00	217	0	0.00	n.d.
39	C30 5a,14b,17b ISOSTERANE (20R)	0.00	217	0	0.00	n.d.
40	C30 5a,14b,17b ISOSTERANE (20S)	0.00	217	0	0.00	n.d.
41	C30 5a,14a,17a STERANE (20R)	0.00	217	0	0.00	n.d.

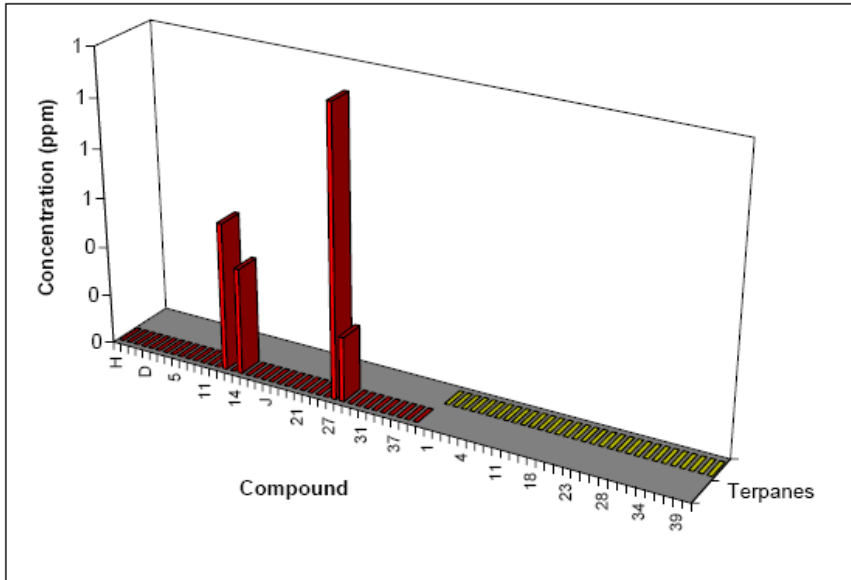
STERANE AND TRITERPANE BIOMARKERS

Project: ATHOS I Oil Spill

Lab Sample ID: C45250

Sample Descriptor: OB-12-7-2004

Analysis Date: 12/17/2004



STERANE AND TRITERPANE BIOMARKERS

Project: ATHOS I Oil Spill

Lab Sample ID: C45251

Sample Descriptor: WB-12-7-2004

Analysis Date: 12/17/2004

No.	COMPOUND NAME	RT	ION	AREA	CONC	%
	TERPANES				(ng/g)	
H	C19 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
A	C20 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
B	C21 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
C	C22 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
D	C23 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
E	C24 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
1	C25 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
4	C24 TETRACYCLIC TERPANE	0.00	191	0	0.00	0.0
5	C26 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
6	C26 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
9	C28 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
10	C28 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
11	C29 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
12	C29 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
13	C27 18a-22,29,30-TRISNORNEOHOPANE (Ts)	50.15	191	951	1.24	74.1
I	C27 PENTACYCLIC TERPANE (Y)	0.00	191	0	0.00	0.0
14	C27 17a-22,29,30-TRISNORHOPANE (Tm)	51.05	191	332	0.43	25.9
15	C30 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
16	C30 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
17	C28 17a,21b-28,30-BISNORHOPANE	0.00	191	0	0.00	0.0
J	C29 17a,21b-25-NORHOPANE	0.00	191	0	0.00	0.0
19	C29 17a,21b-30-NORHOPANE	0.00	191	0	0.00	0.0
20	C29 18a-NORNEOHOPANE (29Ts)	0.00	191	0	0.00	0.0
F	C30 DIAHOPANE	0.00	191	0	0.00	0.0
21	C29 17b,21a-30-NORMORETANE	0.00	191	0	0.00	0.0
22	C30 18a-OLEANANE	0.00	191	0	0.00	0.0
23	C30 17a,21b-HOPANE	0.00	191	0	0.00	0.0
24	C30 17b,21a-MORETANE	0.00	191	0	0.00	0.0
27	C31 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
28	C31 17a,21b-HOMOHOPANE(22R)	0.00	191	0	0.00	0.0
G	C30 GAMMACERANE	0.00	191	0	0.00	0.0
30	C32 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
31	C32 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0
34	C33 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
35	C33 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0
36	C34 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
37	C34 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0
38	C35 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
39	C35 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0

Project: ATHOS I Oil Spill
 Lab Sample ID: C45251
 Sample Descriptor: WB-12-7-2004
 Analysis Date: 12/17/2004

No.	COMPOUND NAME	RT	ION	AREA	CONC (ng/g)	%
STERANES						
A	C21 DIAPREGNANE	0.00	217	0	0.00	n.d.
1	C21 PREGNANE	0.00	217	0	0.00	n.d.
B	C22 DIAHOMOPREGNANE	0.00	217	0	0.00	n.d.
2	C22 HOMOPREGNANE	0.00	217	0	0.00	n.d.
3	C27 13b,17a DIASTERANE (20S)	0.00	217	0	0.00	n.d.
4	C27 13b,17a DIASTERANE (20R)	0.00	217	0	0.00	n.d.
8	C27 13a,17b DIASTERANE (20S)	0.00	217	0	0.00	n.d.
9	C27 13a,17b DIASTERANE (20R)	0.00	217	0	0.00	n.d.
10	C28 13b,17a DIASTERANE (20S) (24R/24S ?)	0.00	217	0	0.00	n.d.
11	C28 13b,17a DIASTERANE (20S) (24R/24S ?)	0.00	217	0	0.00	n.d.
14+15	C28 13b,17a DIASTERANE (20R) (24R/24S ?)	0.00	217	0	0.00	n.d.
16	C28 13a,17b DIASTERANE (20S)	0.00	217	0	0.00	n.d.
17	C27 5a,14a,17a STERANE (20S)	0.00	217	0	0.00	n.d.
18	C27 5a,14b,17b ISOSTERANE (20R) + C29 13b,17a DIASTERANE (20S)	0.00	217	0	0.00	n.d.
19	C27 5a,14b,17b ISOSTERANE (20S)	0.00	217	0	0.00	n.d.
20	C28 13a,17b DIASTERANE (20R)	0.00	217	0	0.00	n.d.
22	C27 5a,14a,17a STERANE (20R)	0.00	217	0	0.00	n.d.
23	C29 13b,17a DIASTERANE (20R)	0.00	217	0	0.00	n.d.
24	C29 13a,17b DIASTERANE (20S)	0.00	217	0	0.00	n.d.
26	C28 5a,14a,17a STERANE (20S)	0.00	217	0	0.00	n.d.
27	C29 13a,17b DIASTERANE (20R)	0.00	217	0	0.00	n.d.
28	C28 5a,14b,17b ISOSTERANE (20R)	0.00	217	0	0.00	n.d.
29	C28 5a,14b,17b ISOSTERANE (20S)	0.00	217	0	0.00	n.d.
31	C28 5a,14a,17a STERANE (20R)	0.00	217	0	0.00	n.d.
33	C29 5a,14a,17a STERANE (20S)	0.00	217	0	0.00	n.d.
34	C29 5a,14b,17b ISOSTERANE (20R)	0.00	217	0	0.00	n.d.
35	C29 5a,14b,17b ISOSTERANE (20S)	0.00	217	0	0.00	n.d.
37	C29 5a,14a,17a STERANE (20R)	0.00	217	0	0.00	n.d.
38	C30 5a,14a,17a STERANE (20S)	0.00	217	0	0.00	n.d.
39	C30 5a,14b,17b ISOSTERANE (20R)	0.00	217	0	0.00	n.d.
40	C30 5a,14b,17b ISOSTERANE (20S)	0.00	217	0	0.00	n.d.
41	C30 5a,14a,17a STERANE (20R)	0.00	217	0	0.00	n.d.

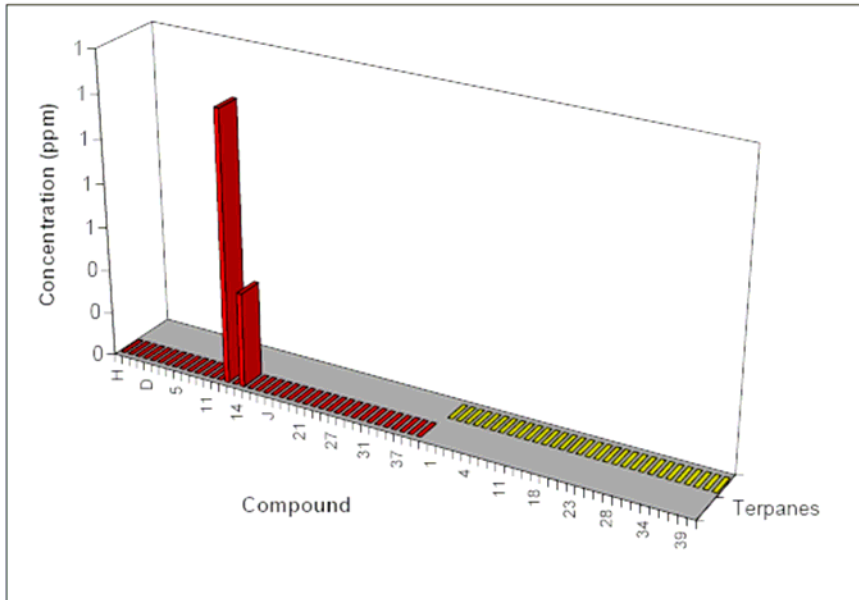
STERANE AND TRITERPANE BIOMARKERS

Project: ATHOS I Oil Spill

Lab Sample ID: C45251

Sample Descriptor: WB-12-7-2004

Analysis Date: 12/17/2004



STERANE AND TRITERPANE BIOMARKERS

Project: ATHOS I Oil Spill

Lab Sample ID: C45252

Sample Descriptor: NJMW1-12-7-2004

Analysis Date: 12/17/2004

No.	COMPOUND NAME	RT	ION	AREA	CONC	%
	TERPANES				(ng/g)	
H	C19 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
A	C20 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
B	C21 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
C	C22 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
D	C23 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
E	C24 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
1	C25 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
4	C24 TETRACYCLIC TERPANE	0.00	191	0	0.00	0.0
5	C26 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
6	C26 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
9	C28 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
10	C28 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
11	C29 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
12	C29 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
13	C27 18a-22,29,30-TRISNORNEOHOPANE (Ts)	50.15	191	615	0.73	62.6
I	C27 PENTACYCLIC TERPANE (Y)	0.00	191	0	0.00	0.0
14	C27 17a-22,29,30-TRISNORHOPANE (Tm)	51.06	191	367	0.43	37.4
15	C30 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
16	C30 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
17	C28 17a,21b-28,30-BISNORHOPANE	0.00	191	0	0.00	0.0
J	C29 17a,21b-25-NORHOPANE	0.00	191	0	0.00	0.0
19	C29 17a,21b-30-NORHOPANE	0.00	191	0	0.00	0.0
20	C29 18a-NORNEOHOPANE (29Ts)	0.00	191	0	0.00	0.0
F	C30 DIAHOPANE	0.00	191	0	0.00	0.0
21	C29 17b,21a-30-NORMORETANE	0.00	191	0	0.00	0.0
22	C30 18a-OLEANANE	0.00	191	0	0.00	0.0
23	C30 17a,21b-HOPANE	0.00	191	0	0.00	0.0
24	C30 17b,21a-MORETANE	0.00	191	0	0.00	0.0
27	C31 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
28	C31 17a,21b-HOMOHOPANE(22R)	0.00	191	0	0.00	0.0
G	C30 GAMMACERANE	0.00	191	0	0.00	0.0
30	C32 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
31	C32 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0
34	C33 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
35	C33 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0
36	C34 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
37	C34 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0
38	C35 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
39	C35 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0

STERANE AND TRITERPANE BIOMARKERS

Project: ATHOS I Oil Spill

Lab Sample ID: C45252

Sample Descriptor: NJMW1-12-7-2004

Analysis Date: 12/17/2004

No.	COMPOUND NAME	RT	ION	AREA	CONC (ng/g)	%
STERANES						
A	C21 DIAPREGNANE	0.00	217	0	0.00	n.d.
1	C21 PREGNANE	0.00	217	0	0.00	n.d.
B	C22 DIAHOMOPREGNANE	0.00	217	0	0.00	n.d.
2	C22 HOMOPREGNANE	0.00	217	0	0.00	n.d.
3	C27 13b,17a DIASTERANE (20S)	0.00	217	0	0.00	n.d.
4	C27 13b,17a DIASTERANE (20R)	0.00	217	0	0.00	n.d.
8	C27 13a,17b DIASTERANE (20S)	0.00	217	0	0.00	n.d.
9	C27 13a,17b DIASTERANE (20R)	0.00	217	0	0.00	n.d.
10	C28 13b,17a DIASTERANE (20S) (24R/24S ?)	0.00	217	0	0.00	n.d.
11	C28 13b,17a DIASTERANE (20S) (24R/24S ?)	0.00	217	0	0.00	n.d.
14-15	C28 13b,17a DIASTERANE (20R) (24R/24S ?)	0.00	217	0	0.00	n.d.
16	C28 13a,17b DIASTERANE (20S)	0.00	217	0	0.00	n.d.
17	C27 5a,14a,17a STERANE (20S)	0.00	217	0	0.00	n.d.
18	C27 5a,14b,17b ISOSTERANE (20R) + C29 13b,17a DIASTERANE (20S)	0.00	217	0	0.00	n.d.
19	C27 5a,14b,17b ISOSTERANE (20S)	0.00	217	0	0.00	n.d.
20	C28 13a,17b DIASTERANE (20R)	0.00	217	0	0.00	n.d.
22	C27 5a,14a,17a STERANE (20R)	0.00	217	0	0.00	n.d.
23	C29 13b,17a DIASTERANE (20R)	0.00	217	0	0.00	n.d.
24	C29 13a,17b DIASTERANE (20S)	0.00	217	0	0.00	n.d.
26	C28 5a,14a,17a STERANE (20S)	0.00	217	0	0.00	n.d.
27	C29 13a,17b DIASTERANE (20R)	0.00	217	0	0.00	n.d.
28	C28 5a,14b,17b ISOSTERANE (20R)	0.00	217	0	0.00	n.d.
29	C28 5a,14b,17b ISOSTERANE (20S)	0.00	217	0	0.00	n.d.
31	C28 5a,14a,17a STERANE (20R)	0.00	217	0	0.00	n.d.
33	C29 5a,14a,17a STERANE (20S)	0.00	217	0	0.00	n.d.
34	C29 5a,14b,17b ISOSTERANE (20R)	0.00	217	0	0.00	n.d.
35	C29 5a,14b,17b ISOSTERANE (20S)	0.00	217	0	0.00	n.d.
37	C29 5a,14a,17a STERANE (20R)	0.00	217	0	0.00	n.d.
38	C30 5a,14a,17a STERANE (20S)	0.00	217	0	0.00	n.d.
39	C30 5a,14b,17b ISOSTERANE (20R)	0.00	217	0	0.00	n.d.
40	C30 5a,14b,17b ISOSTERANE (20S)	0.00	217	0	0.00	n.d.
41	C30 5a,14a,17a STERANE (20R)	0.00	217	0	0.00	n.d.

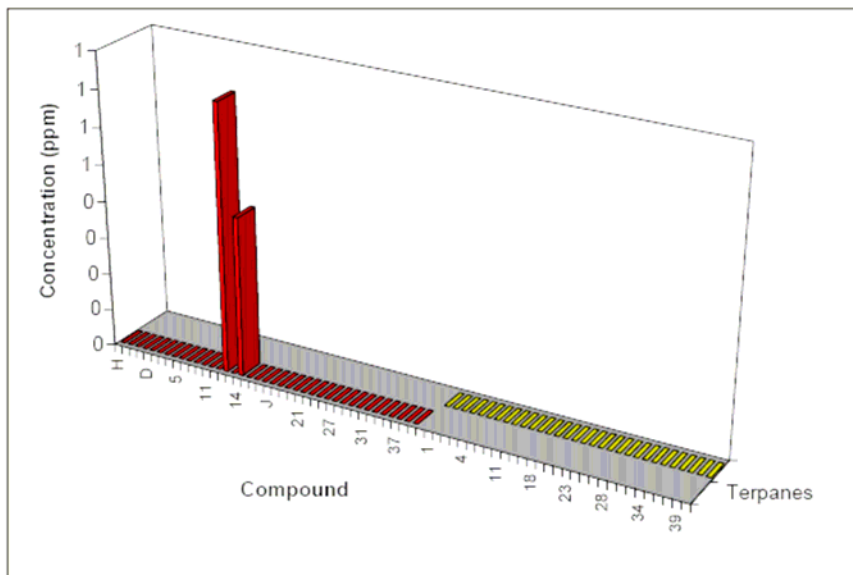
STERANE AND TRITERPANE BIOMARKERS

Project: ATHOS I Oil Spill

Lab Sample ID: C45252

Sample Descriptor: NJMW1-12-7-2004

Analysis Date: 12/17/2004



STERANE AND TRITERPANE BIOMARKERS

Project: ATHOS I Oil Spill

Lab Sample ID: C45253

Sample Descriptor: DBFE-091204

Analysis Date: 12/17/2004

No.	COMPOUND NAME	RT	ION	AREA	CONC	%
	TERPANES				(ng/g)	
H	C19 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
A	C20 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
B	C21 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
C	C22 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
D	C23 TRICYCLIC TERPANE	36.93	191	1228	0.35	25.3
E	C24 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
1	C25 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
4	C24 TETRACYCLIC TERPANE	42.76	191	450	0.13	9.3
5	C26 TRICYCLIC TERPANE (22R)	42.86	191	74	0.02	1.5
6	C26 TRICYCLIC TERPANE (22S)	42.98	191	84	0.02	1.7
9	C28 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
10	C28 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
11	C29 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
12	C29 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
13	C27 18a-22,29,30-TRISNORNEOHOPANE (Ts)	50.15	191	1783	0.51	36.7
I	C27 PENTACYCLIC TERPANE (Y)	0.00	191	0	0.00	0.0
14	C27 17a-22,29,30-TRISNORHOPANE (Tm)	51.03	191	1004	0.29	20.7
15	C30 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
16	C30 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
17	C28 17a,21b-28,30-BISNORHOPANE	0.00	191	0	0.00	0.0
J	C29 17a,21b-25-NORHOPANE	0.00	191	0	0.00	0.0
19	C29 17a,21b-30-NORHOPANE	0.00	191	0	0.00	0.0
20	C29 18a-NORNEOHOPANE (29Ts)	0.00	191	0	0.00	0.0
F	C30 DIAHOPANE	0.00	191	0	0.00	0.0
21	C29 17b,21a-30-NORMORETANE	0.00	191	0	0.00	0.0
22	C30 18a-OLEANANE	0.00	191	0	0.00	0.0
23	C30 17a,21b-HOPANE	55.62	191	233	0.07	4.8
24	C30 17b,21a-MORETANE	0.00	191	0	0.00	0.0
27	C31 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
28	C31 17a,21b-HOMOHOPANE(22R)	0.00	191	0	0.00	0.0
G	C30 GAMMACERANE	0.00	191	0	0.00	0.0
30	C32 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
31	C32 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0
34	C33 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
35	C33 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0
36	C34 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
37	C34 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0
38	C35 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
39	C35 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0

STERANE AND TRITERPANE BIOMARKERS

Project: ATHOS I Oil Spill

Lab Sample ID: C45253

Sample Descriptor: DBFE-091204

Analysis Date: 12/17/2004

No.	COMPOUND NAME	RT	ION	AREA	CONC	%
	STERANES				(ng/g)	
A	C21 DIAPREGNANE	33.08	217	194	0.31	29.0
1	C21 PREGNANE	35.04	217	94	0.15	14.0
B	C22 DIAHOMOPREGNANE	0.00	217	0	0.00	0.0
2	C22 HOMOPREGNANE	37.67	217	152	0.24	22.7
3	C27 13b,17a DIASTERANE (20S)	0.00	217	0	0.00	0.0
4	C27 13b,17a DIASTERANE (20R)	45.93	217	38	0.03	2.9
8	C27 13a,17b DIASTERANE (20S)	46.54	217	21	0.02	1.6
9	C27 13a,17b DIASTERANE (20R)	47.12	217	11	0.01	0.8
10	C28 13b,17a DIASTERANE (20S) (24R/24S ?)	47.16	217	17	0.01	1.3
11	C28 13b,17a DIASTERANE (20S) (24R/24S ?)	47.35	217	49	0.04	3.7
14-15	C28 13b,17a DIASTERANE (20R) (24R/24S ?)	0.00	217	0	0.00	0.0
16	C28 13a,17b DIASTERANE (20S)	48.40	217	94	0.05	4.8
17	C27 5a,14a,17a STERANE (20S)	0.00	217	0	0.00	0.0
18	C27 5a,14b,17b ISOSTERANE (20R) + C29 13b,17a DIASTERANE (20S)	0.00	217	0	0.00	0.0
19	C27 5a,14b,17b ISOSTERANE (20S)	49.12	217	209	0.11	10.7
20	C28 13a,17b DIASTERANE (20R)	49.12	217	142	0.08	7.2
22	C27 5a,14a,17a STERANE (20R)	0.00	217	0	0.00	0.0
23	C29 13b,17a DIASTERANE (20R)	0.00	217	0	0.00	0.0
24	C29 13a,17b DIASTERANE (20S)	0.00	217	0	0.00	0.0
26	C28 5a,14a,17a STERANE (20S)	0.00	217	0	0.00	0.0
27	C29 13a,17b DIASTERANE (20R)	0.00	217	0	0.00	0.0
28	C28 5a,14b,17b ISOSTERANE (20R)	0.00	217	0	0.00	0.0
29	C28 5a,14b,17b ISOSTERANE (20S)	0.00	217	0	0.00	0.0
31	C28 5a,14a,17a STERANE (20R)	0.00	217	0	0.00	0.0
33	C29 5a,14a,17a STERANE (20S)	0.00	217	0	0.00	0.0
34	C29 5a,14b,17b ISOSTERANE (20R)	0.00	217	0	0.00	0.0
35	C29 5a,14b,17b ISOSTERANE (20S)	53.03	217	28	0.01	1.3
37	C29 5a,14a,17a STERANE (20R)	0.00	217	0	0.00	0.0
38	C30 5a,14a,17a STERANE (20S)	0.00	217	0	0.00	0.0
39	C30 5a,14b,17b ISOSTERANE (20R)	0.00	217	0	0.00	0.0
40	C30 5a,14b,17b ISOSTERANE (20S)	0.00	217	0	0.00	0.0
41	C30 5a,14a,17a STERANE (20R)	0.00	217	0	0.00	0.0

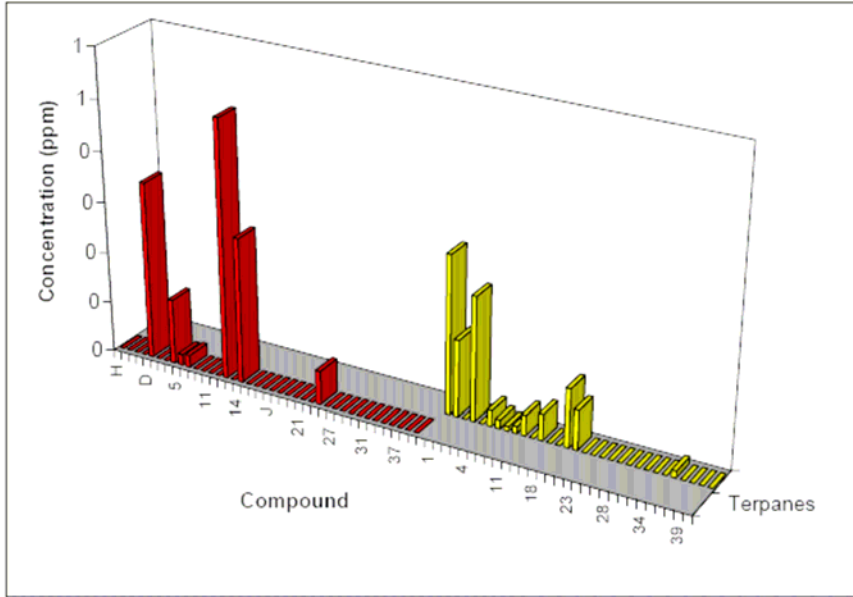
STERANE AND TRITERPANE BIOMARKERS

Project: ATHOS I Oil Spill

Lab Sample ID: C45253

Sample Descriptor: DBFE-091204

Analysis Date: 12/17/2004



STERANE AND TRITERPANE BIOMARKERS

Project: ATHOS I Oil Spill

Lab Sample ID: C45254

Sample Descriptor: Newbedsoermo-091204

Analysis Date: 12/17/2004

No.	COMPOUND NAME	RT	ION	AREA	CONC	%
	TERPANES				(ng/g)	
H	C19 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
A	C20 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
B	C21 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
C	C22 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
D	C23 TRICYCLIC TERPANE	36.93	191	183	0.07	8.0
E	C24 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
1	C25 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
4	C24 TETRACYCLIC TERPANE	42.80	191	99	0.04	4.3
5	C26 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
6	C26 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
9	C28 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
10	C28 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
11	C29 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
12	C29 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
13	C27 18a-22,29,30-TRISNORNEOHOPANE (Ts)	50.15	191	1348	0.50	58.8
I	C27 PENTACYCLIC TERPANE (Y)	0.00	191	0	0.00	0.0
14	C27 17a-22,29,30-TRISNORHOPANE (Tm)	51.05	191	662	0.25	28.9
15	C30 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
16	C30 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
17	C28 17a,21b-28,30-BISNORHOPANE	0.00	191	0	0.00	0.0
J	C29 17a,21b-25-NORHOPANE	0.00	191	0	0.00	0.0
19	C29 17a,21b-30-NORHOPANE	0.00	191	0	0.00	0.0
20	C29 18a-NORNEOHOPANE (29Ts)	0.00	191	0	0.00	0.0
F	C30 DIAHOPANE	0.00	191	0	0.00	0.0
21	C29 17b,21a-30-NORMORETANE	0.00	191	0	0.00	0.0
22	C30 18a-OLEANANE	0.00	191	0	0.00	0.0
23	C30 17a,21b-HOPANE	0.00	191	0	0.00	0.0
24	C30 17b,21a-MORETANE	0.00	191	0	0.00	0.0
27	C31 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
28	C31 17a,21b-HOMOHOPANE(22R)	0.00	191	0	0.00	0.0
G	C30 GAMMACERANE	0.00	191	0	0.00	0.0
30	C32 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
31	C32 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0
34	C33 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
35	C33 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0
36	C34 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
37	C34 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0
38	C35 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
39	C35 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0

STERANE AND TRITERPANE BIOMARKERS

Project: ATHOS I Oil Spill

Lab Sample ID: C45254

Sample Descriptor: Newbedsoermo-091204

Analysis Date: 12/17/2004

No.	COMPOUND NAME	RT	ION	AREA	CONC (ng/g)	%
STERANES						
A	C21 DIAPREGNANE	0.00	217	0	0.00	0.0
1	C21 PREGNANE	0.00	217	0	0.00	0.0
B	C22 DIAHOMOPREGNANE	35.16	217	37	0.08	100.0
2	C22 HOMOPREGNANE	0.00	217	0	0.00	0.0
3	C27 13b,17a DIASTERANE (20S)	0.00	217	0	0.00	0.0
4	C27 13b,17a DIASTERANE (20R)	0.00	217	0	0.00	0.0
8	C27 13a,17b DIASTERANE (20S)	0.00	217	0	0.00	0.0
9	C27 13a,17b DIASTERANE (20R)	0.00	217	0	0.00	0.0
10	C28 13b,17a DIASTERANE (20S) (24R/24S ?)	0.00	217	0	0.00	0.0
11	C28 13b,17a DIASTERANE (20S) (24R/24S ?)	0.00	217	0	0.00	0.0
14+15	C28 13b,17a DIASTERANE (20R) (24R/24S ?)	0.00	217	0	0.00	0.0
16	C28 13a,17b DIASTERANE (20S)	0.00	217	0	0.00	0.0
17	C27 5a,14a,17a STERANE (20S)	0.00	217	0	0.00	0.0
18	C27 5a,14b,17b ISOSTERANE (20R) + C29 13b,17a DIASTERANE (20S)	0.00	217	0	0.00	0.0
19	C27 5a,14b,17b ISOSTERANE (20S)	0.00	217	0	0.00	0.0
20	C28 13a,17b DIASTERANE (20R)	0.00	217	0	0.00	0.0
22	C27 5a,14a,17a STERANE (20R)	0.00	217	0	0.00	0.0
23	C29 13b,17a DIASTERANE (20R)	0.00	217	0	0.00	0.0
24	C29 13a,17b DIASTERANE (20S)	0.00	217	0	0.00	0.0
26	C28 5a,14a,17a STERANE (20S)	0.00	217	0	0.00	0.0
27	C29 13a,17b DIASTERANE (20R)	0.00	217	0	0.00	0.0
28	C28 5a,14b,17b ISOSTERANE (20R)	0.00	217	0	0.00	0.0
29	C28 5a,14b,17b ISOSTERANE (20S)	0.00	217	0	0.00	0.0
31	C28 5a,14a,17a STERANE (20R)	0.00	217	0	0.00	0.0
33	C29 5a,14a,17a STERANE (20S)	0.00	217	0	0.00	0.0
34	C29 5a,14b,17b ISOSTERANE (20R)	0.00	217	0	0.00	0.0
35	C29 5a,14b,17b ISOSTERANE (20S)	0.00	217	0	0.00	0.0
37	C29 5a,14a,17a STERANE (20R)	0.00	217	0	0.00	0.0
38	C30 5a,14a,17a STERANE (20S)	0.00	217	0	0.00	0.0
39	C30 5a,14b,17b ISOSTERANE (20R)	0.00	217	0	0.00	0.0
40	C30 5a,14b,17b ISOSTERANE (20S)	0.00	217	0	0.00	0.0
41	C30 5a,14a,17a STERANE (20R)	0.00	217	0	0.00	0.0

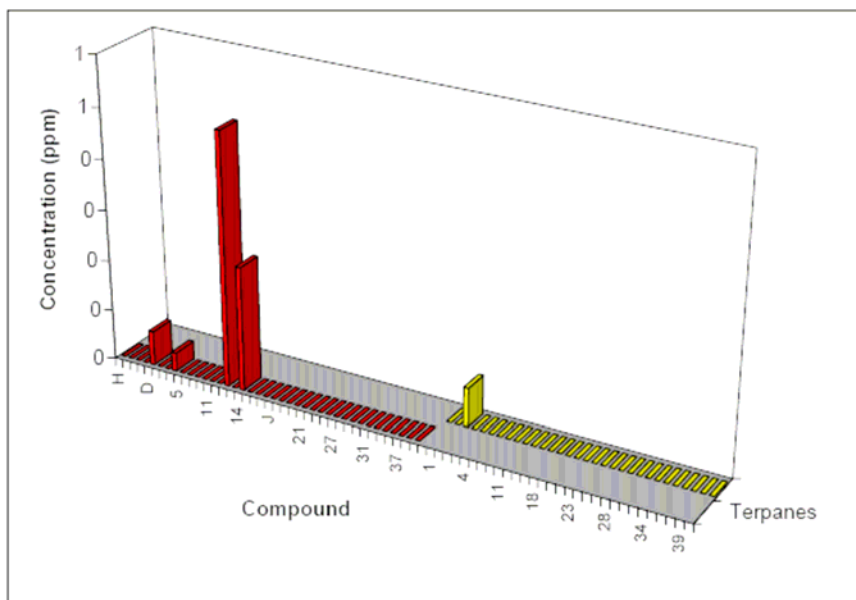
STERANE AND TRITERPANE BIOMARKERS

Project: ATHOS I Oil Spill

Lab Sample ID: C45254

Sample Descriptor: Newbedsoermo-091204

Analysis Date: 12/17/2004



STERANE AND TRITERPANE BIOMARKERS

Project: ATHOS I Oil Spill

Lab Sample ID: C45255

Sample Descriptor: DBBD-091204

Analysis Date: 12/17/2004

No.	COMPOUND NAME	RT	ION	AREA	CONC	%
	TERPANES				(ng/g)	
H	C19 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
A	C20 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
B	C21 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
C	C22 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
D	C23 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
E	C24 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
1	C25 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
4	C24 TETRACYCLIC TERPANE	0.00	191	0	0.00	0.0
5	C26 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
6	C26 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
9	C28 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
10	C28 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
11	C29 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
12	C29 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
13	C27 18a-22,29,30-TRISNORNEOHOPANE (Ts)	50.17	191	1223	0.55	38.9
I	C27 PENTACYCLIC TERPANE (Y)	50.62	191	347	0.16	11.0
14	C27 17a-22,29,30-TRISNORHOPANE (Tm)	51.03	191	592	0.27	18.8
15	C30 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
16	C30 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
17	C28 17a,21b-28,30-BISNORHOPANE	0.00	191	0	0.00	0.0
J	C29 17a,21b-25-NORHOPANE	0.00	191	0	0.00	0.0
19	C29 17a,21b-30-NORHOPANE	0.00	191	0	0.00	0.0
20	C29 18a-NORNEOHOPANE (29Ts)	0.00	191	0	0.00	0.0
F	C30 DIAHOPANE	0.00	191	0	0.00	0.0
21	C29 17b,21a-30-NORMORETANE	0.00	191	0	0.00	0.0
22	C30 18a-OLEANANE	0.00	191	0	0.00	0.0
23	C30 17a,21b-HOPANE	0.00	191	0	0.00	0.0
24	C30 17b,21a-MORETANE	0.00	191	0	0.00	0.0
27	C31 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
28	C31 17a,21b-HOMOHOPANE(22R)	0.00	191	0	0.00	0.0
G	C30 GAMMACERANE	0.00	191	0	0.00	0.0
30	C32 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
31	C32 17a,21b-HOMOHOPANE (22R)	59.58	191	980	0.44	31.2
34	C33 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
35	C33 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0
36	C34 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
37	C34 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0
38	C35 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
39	C35 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0

STERANE AND TRITERPANE BIOMARKERS

Project: ATHOS I Oil Spill

Lab Sample ID: C45255

Sample Descriptor: DBBD-091204

Analysis Date: 12/17/2004

No.	COMPOUND NAME	RT	ION	AREA	CONC	%
	STERANES				(ng/g)	
A	C21 DIAPREGNANE	0.00	217	0	0.00	n.d.
1	C21 PREGNANE	0.00	217	0	0.00	n.d.
B	C22 DIAHOMOPREGNANE	0.00	217	0	0.00	n.d.
2	C22 HOMOPREGNANE	0.00	217	0	0.00	n.d.
3	C27 13b,17a DIASTERANE (20S)	0.00	217	0	0.00	n.d.
4	C27 13b,17a DIASTERANE (20R)	0.00	217	0	0.00	n.d.
8	C27 13a,17b DIASTERANE (20S)	0.00	217	0	0.00	n.d.
9	C27 13a,17b DIASTERANE (20R)	0.00	217	0	0.00	n.d.
10	C28 13b,17a DIASTERANE (20S) (24R/24S ?)	0.00	217	0	0.00	n.d.
11	C28 13b,17a DIASTERANE (20S) (24R/24S ?)	0.00	217	0	0.00	n.d.
14-15	C28 13b,17a DIASTERANE (20R) (24R/24S ?)	0.00	217	0	0.00	n.d.
16	C28 13a,17b DIASTERANE (20S)	0.00	217	0	0.00	n.d.
17	C27 5a,14a,17a STERANE (20S)	0.00	217	0	0.00	n.d.
18	C27 5a,14b,17b ISOSTERANE (20R) + C29 13b,17a DIASTERANE (20S)	0.00	217	0	0.00	n.d.
19	C27 5a,14b,17b ISOSTERANE (20S)	0.00	217	0	0.00	n.d.
20	C28 13a,17b DIASTERANE (20R)	0.00	217	0	0.00	n.d.
22	C27 5a,14a,17a STERANE (20R)	0.00	217	0	0.00	n.d.
23	C29 13b,17a DIASTERANE (20R)	0.00	217	0	0.00	n.d.
24	C29 13a,17b DIASTERANE (20S)	0.00	217	0	0.00	n.d.
26	C28 5a,14a,17a STERANE (20S)	0.00	217	0	0.00	n.d.
27	C29 13a,17b DIASTERANE (20R)	0.00	217	0	0.00	n.d.
28	C28 5a,14b,17b ISOSTERANE (20R)	0.00	217	0	0.00	n.d.
29	C28 5a,14b,17b ISOSTERANE (20S)	0.00	217	0	0.00	n.d.
31	C28 5a,14a,17a STERANE (20R)	0.00	217	0	0.00	n.d.
33	C29 5a,14a,17a STERANE (20S)	0.00	217	0	0.00	n.d.
34	C29 5a,14b,17b ISOSTERANE (20R)	0.00	217	0	0.00	n.d.
35	C29 5a,14b,17b ISOSTERANE (20S)	0.00	217	0	0.00	n.d.
37	C29 5a,14a,17a STERANE (20R)	0.00	217	0	0.00	n.d.
38	C30 5a,14a,17a STERANE (20S)	0.00	217	0	0.00	n.d.
39	C30 5a,14b,17b ISOSTERANE (20R)	0.00	217	0	0.00	n.d.
40	C30 5a,14b,17b ISOSTERANE (20S)	0.00	217	0	0.00	n.d.
41	C30 5a,14a,17a STERANE (20R)	0.00	217	0	0.00	n.d.

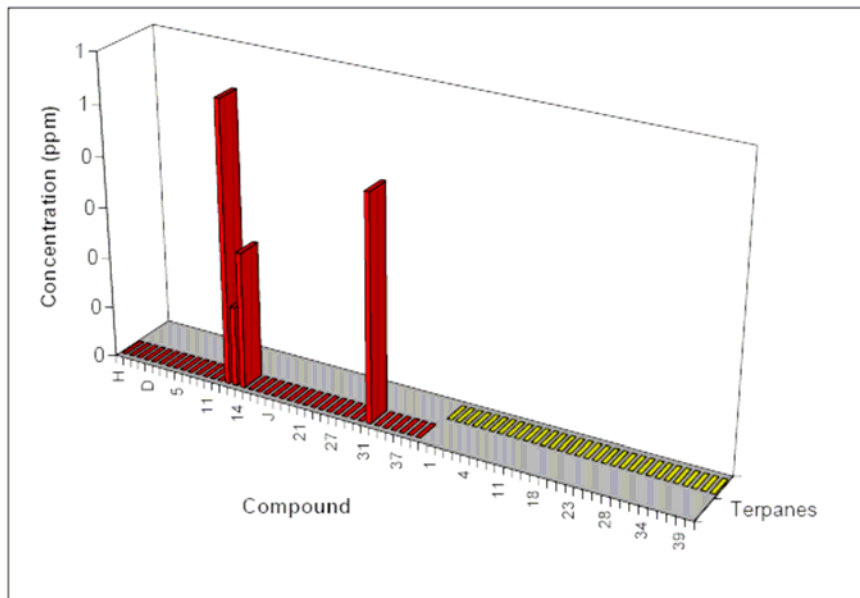
STERANE AND TRITERPANE BIOMARKERS

Project: ATHOS I Oil Spill

Lab Sample ID: C45255

Sample Descriptor: DBBD-091204

Analysis Date: 12/17/2004



STERANE AND TRITERPANE BIOMARKERS

Project: ATHOS I Oil Spill

Lab Sample ID: C45256

Sample Descriptor: DBAP-091204

Analysis Date: 12/17/2004

No.	COMPOUND NAME	RT	ION	AREA	CONC (ng/g)	%
	TERPANES					
H	C19 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
A	C20 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
B	C21 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
C	C22 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
D	C23 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
E	C24 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
1	C25 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
4	C24 TETRACYCLIC TERPANE	0.00	191	0	0.00	0.0
5	C26 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
6	C26 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
9	C28 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
10	C28 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
11	C29 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
12	C29 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
13	C27 18a-22,29,30-TRISNORNEOHOPANE (Ts)	50.17	191	668	0.47	14.0
I	C27 PENTACYCLIC TERPANE (Y)	0.00	191	0	0.00	0.0
14	C27 17a-22,29,30-TRISNORHOPANE (Tm)	51.08	191	573	0.41	12.0
15	C30 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
16	C30 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
17	C28 17a,21b-28,30-BISNORHOPANE	0.00	191	0	0.00	0.0
J	C29 17a,21b-25-NORHOPANE	0.00	191	0	0.00	0.0
19	C29 17a,21b-30-NORHOPANE	0.00	191	0	0.00	0.0
20	C29 18a-NORNEOHOPANE (29Ts)	0.00	191	0	0.00	0.0
F	C30 DIAHOPANE	0.00	191	0	0.00	0.0
21	C29 17b,21a-30-NORMORETANE	0.00	191	0	0.00	0.0
22	C30 18a-OLEANANE	55.36	191	2688	1.91	56.5
23	C30 17a,21b-HOPANE	55.63	191	96	0.07	2.0
24	C30 17b,21a-MORETANE	56.45	191	75	0.05	1.6
27	C31 17a,21b-HOMOHOPANE (22S)	57.64	191	658	0.47	13.8
28	C31 17a,21b-HOMOHOPANE(22R)	0.00	191	0	0.00	0.0
G	C30 GAMMACERANE	0.00	191	0	0.00	0.0
30	C32 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
31	C32 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0
34	C33 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
35	C33 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0
36	C34 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
37	C34 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0
38	C35 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
39	C35 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0

STERANE AND TRITERPANE BIOMARKERS

Project: ATHOS I Oil Spill

Lab Sample ID: C45256

Sample Descriptor: DBAP-091204

Analysis Date: 12/17/2004

No.	COMPOUND NAME	RT	ION	AREA	CONC	%
	STERANES				(ng/g)	
A	C21 DIAPREGNANE	0.00	217	0	0.00	0.0
1	C21 PREGNANE	0.00	217	0	0.00	0.0
B	C22 DIAHOMOPREGNANE	0.00	217	0	0.00	0.0
2	C22 HOMOPREGNANE	0.00	217	0	0.00	0.0
3	C27 13b,17a DIASTERANE (20S)	0.00	217	0	0.00	0.0
4	C27 13b,17a DIASTERANE (20R)	0.00	217	0	0.00	0.0
8	C27 13a,17b DIASTERANE (20S)	0.00	217	0	0.00	0.0
9	C27 13a,17b DIASTERANE (20R)	0.00	217	0	0.00	0.0
10	C28 13b,17a DIASTERANE (20S) (24R/24S ?)	0.00	217	0	0.00	0.0
11	C28 13b,17a DIASTERANE (20S) (24R/24S ?)	0.00	217	0	0.00	0.0
14+15	C28 13b,17a DIASTERANE (20R) (24R/24S ?)	0.00	217	0	0.00	0.0
16	C28 13a,17b DIASTERANE (20S)	0.00	217	0	0.00	0.0
17	C27 5a,14a,17a STERANE (20S)	0.00	217	0	0.00	0.0
18	C27 5a,14b,17b ISOSTERANE (20R) + C29 13b,17a DIASTERANE (20S)	0.00	217	0	0.00	0.0
19	C27 5a,14b,17b ISOSTERANE (20S)	0.00	217	0	0.00	0.0
20	C28 13a,17b DIASTERANE (20R)	0.00	217	0	0.00	0.0
22	C27 5a,14a,17a STERANE (20R)	0.00	217	0	0.00	0.0
23	C29 13b,17a DIASTERANE (20R)	0.00	217	0	0.00	0.0
24	C29 13a,17b DIASTERANE (20S)	0.00	217	0	0.00	0.0
26	C28 5a,14a,17a STERANE (20S)	0.00	217	0	0.00	0.0
27	C29 13a,17b DIASTERANE (20R)	0.00	217	0	0.00	0.0
28	C28 5a,14b,17b ISOSTERANE (20R)	0.00	217	0	0.00	0.0
29	C28 5a,14b,17b ISOSTERANE (20S)	0.00	217	0	0.00	0.0
31	C28 5a,14a,17a STERANE (20R)	0.00	217	0	0.00	0.0
33	C29 5a,14a,17a STERANE (20S)	0.00	217	0	0.00	0.0
34	C29 5a,14b,17b ISOSTERANE (20R)	0.00	217	0	0.00	0.0
35	C29 5a,14b,17b ISOSTERANE (20S)	53.03	217	37	0.05	8.7
37	C29 5a,14a,17a STERANE (20R)	53.69	217	231	0.28	54.4
38	C30 5a,14a,17a STERANE (20S)	53.88	217	72	0.09	16.9
39	C30 5a,14b,17b ISOSTERANE (20R)	54.33	217	85	0.10	20.0
40	C30 5a,14b,17b ISOSTERANE (20S)	0.00	217	0	0.00	0.0
41	C30 5a,14a,17a STERANE (20R)	0.00	217	0	0.00	0.0

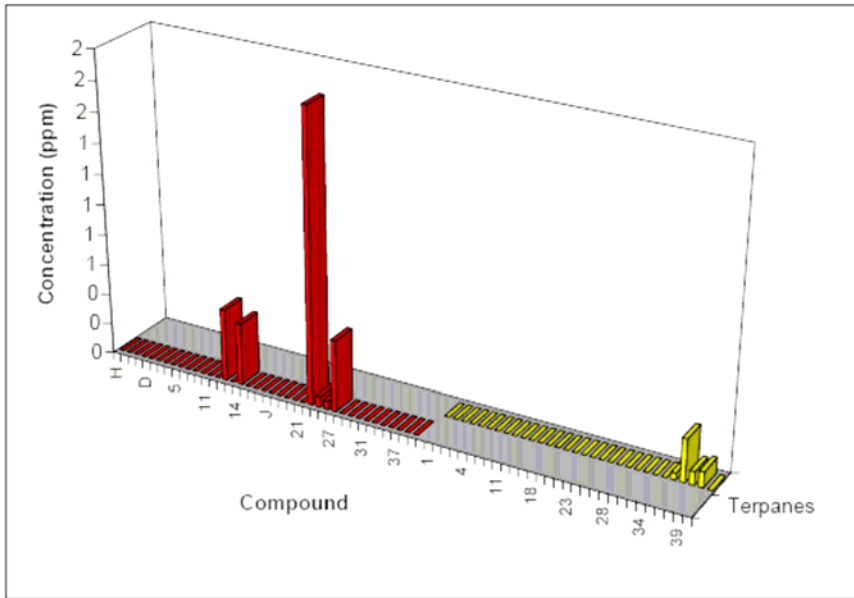
STERANE AND TRITERPANE BIOMARKERS

Project: ATHOS I Oil Spill

Lab Sample ID: C45256

Sample Descriptor: DBAP-091204

Analysis Date: 12/17/2004



STERANE AND TRITERPANE BIOMARKERS

Project: ATHOS I Oil Spill

Lab Sample ID: C45257

Sample Descriptor: DBHC-091204

Analysis Date: 12/17/2004

No.	COMPOUND NAME	RT	ION	AREA	CONC	%
	TERPANES				(ng/g)	
H	C19 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
A	C20 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
B	C21 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
C	C22 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
D	C23 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
E	C24 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
1	C25 TRICYCLIC TERPANE	0.00	191	0	0.00	0.0
4	C24 TETRACYCLIC TERPANE	0.00	191	0	0.00	0.0
5	C26 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
6	C26 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
9	C28 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
10	C28 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
11	C29 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
12	C29 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
13	C27 18a-22,29,30-TRISNORNEOHOPANE (Ts)	50.15	191	840	0.55	32.8
I	C27 PENTACYCLIC TERPANE (Y)	0.00	191	0	0.00	0.0
14	C27 17a-22,29,30-TRISNORHOPANE (Tm)	51.04	191	815	0.53	31.8
15	C30 TRICYCLIC TERPANE (22R)	0.00	191	0	0.00	0.0
16	C30 TRICYCLIC TERPANE (22S)	0.00	191	0	0.00	0.0
17	C28 17a,21b-28,30-BISNORHOPANE	0.00	191	0	0.00	0.0
J	C29 17a,21b-25-NORHOPANE	0.00	191	0	0.00	0.0
19	C29 17a,21b-30-NORHOPANE	0.00	191	0	0.00	0.0
20	C29 18a-NORNEOHOPANE (29Ts)	0.00	191	0	0.00	0.0
F	C30 DIAHOPANE	0.00	191	0	0.00	0.0
21	C29 17b,21a-30-NORMORETANE	0.00	191	0	0.00	0.0
22	C30 18a-OLEANANE	55.36	191	904	0.59	35.3
23	C30 17a,21b-HOPANE	0.00	191	0	0.00	0.0
24	C30 17b,21a-MORETANE	0.00	191	0	0.00	0.0
27	C31 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
28	C31 17a,21b-HOMOHOPANE(22R)	0.00	191	0	0.00	0.0
G	C30 GAMMACERANE	0.00	191	0	0.00	0.0
30	C32 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
31	C32 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0
34	C33 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
35	C33 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0
36	C34 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
37	C34 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0
38	C35 17a,21b-HOMOHOPANE (22S)	0.00	191	0	0.00	0.0
39	C35 17a,21b-HOMOHOPANE (22R)	0.00	191	0	0.00	0.0

STERANE AND TRITERPANE BIOMARKERS

Project: ATHOS I Oil Spill

Lab Sample ID: C45257

Sample Descriptor: DBHC-091204

Analysis Date: 12/17/2004

No.	COMPOUND NAME	RT	ION	AREA	CONC	%
	STERANES				(ng/g)	
A	C21 DIAPREGNANE	0.00	217	0	0.00	n.d.
1	C21 PREGNANE	0.00	217	0	0.00	n.d.
B	C22 DIAHOMOPREGNANE	0.00	217	0	0.00	n.d.
2	C22 HOMOPREGNANE	0.00	217	0	0.00	n.d.
3	C27 13b,17a DIASTERANE (20S)	0.00	217	0	0.00	n.d.
4	C27 13b,17a DIASTERANE (20R)	0.00	217	0	0.00	n.d.
8	C27 13a,17b DIASTERANE (20S)	0.00	217	0	0.00	n.d.
9	C27 13a,17b DIASTERANE (20R)	0.00	217	0	0.00	n.d.
10	C28 13b,17a DIASTERANE (20S) (24R/24S ?)	0.00	217	0	0.00	n.d.
11	C28 13b,17a DIASTERANE (20S) (24R/24S ?)	0.00	217	0	0.00	n.d.
14-15	C28 13b,17a DIASTERANE (20R) (24R/24S ?)	0.00	217	0	0.00	n.d.
16	C28 13a,17b DIASTERANE (20S)	0.00	217	0	0.00	n.d.
17	C27 5a,14a,17a STERANE (20S)	0.00	217	0	0.00	n.d.
18	C27 5a,14b,17b ISOSTERANE (20R) + C29 13b,17a DIASTERANE (20S)	0.00	217	0	0.00	n.d.
19	C27 5a,14b,17b ISOSTERANE (20S)	0.00	217	0	0.00	n.d.
20	C28 13a,17b DIASTERANE (20R)	0.00	217	0	0.00	n.d.
22	C27 5a,14a,17a STERANE (20R)	0.00	217	0	0.00	n.d.
23	C29 13b,17a DIASTERANE (20R)	0.00	217	0	0.00	n.d.
24	C29 13a,17b DIASTERANE (20S)	0.00	217	0	0.00	n.d.
26	C28 5a,14a,17a STERANE (20S)	0.00	217	0	0.00	n.d.
27	C29 13a,17b DIASTERANE (20R)	0.00	217	0	0.00	n.d.
28	C28 5a,14b,17b ISOSTERANE (20R)	0.00	217	0	0.00	n.d.
29	C28 5a,14b,17b ISOSTERANE (20S)	0.00	217	0	0.00	n.d.
31	C28 5a,14a,17a STERANE (20R)	0.00	217	0	0.00	n.d.
33	C29 5a,14a,17a STERANE (20S)	0.00	217	0	0.00	n.d.
34	C29 5a,14b,17b ISOSTERANE (20R)	0.00	217	0	0.00	n.d.
35	C29 5a,14b,17b ISOSTERANE (20S)	0.00	217	0	0.00	n.d.
37	C29 5a,14a,17a STERANE (20R)	0.00	217	0	0.00	n.d.
38	C30 5a,14a,17a STERANE (20S)	0.00	217	0	0.00	n.d.
39	C30 5a,14b,17b ISOSTERANE (20R)	0.00	217	0	0.00	n.d.
40	C30 5a,14b,17b ISOSTERANE (20S)	0.00	217	0	0.00	n.d.
41	C30 5a,14a,17a STERANE (20R)	0.00	217	0	0.00	n.d.

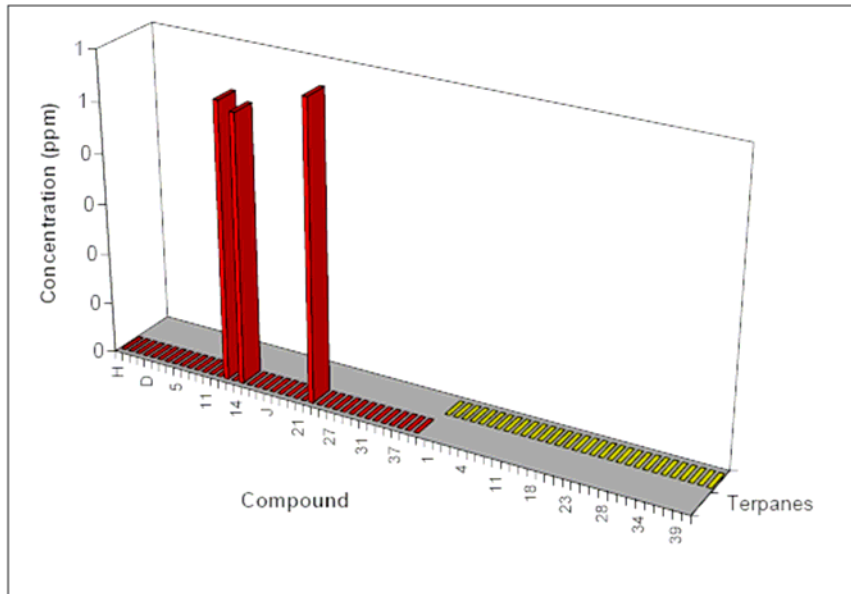
STERANE AND TRITERPANE BIOMARKERS

Project: ATHOS I Oil Spill

Lab Sample ID: C45257

Sample Descriptor: DBHC-091204

Analysis Date: 12/17/2004



F.5. NOAA Mussel Watch samples collected at Hope Creek (DBHC), Arnolds Point (DBAP), and Ben Davis Point Shoal (DBBD).

Sample Name	NST1363.D	NST1365.D	NST1366.D
Client Name	DBAP	DBBD	DBHC
Matrix	Tissue	Tissue	Tissue
Species	Bivalves	Bivalves	Bivalves
Collection Date	01/02/05	01/02/05	01/02/05
Received Date	01/05/05	01/05/05	01/05/05
Extraction Date	06/15/05	06/15/05	06/15/05
Extraction Batch	ENV 1189	ENV 1189	ENV 1189
Date Acquired	07/14/05	07/14/05	07/14/05
Method	PAH-2002	PAH-2002	PAH-2002
Sample Wet Weight (g)	12.2	12.2	12.6
Sample Dry Weight (g)	0.7	1.6	0.6
% Moisture	94	87	95
% Dry	6	13	5
% Lipid (wet)	0.6	1.4	0.6
% Lipid (dry)	10.6	11.6	13.0
Dilution	NA	NA	NA

Target Compounds	Su Corrected Conc. (ng/dry g)	Q1	Q2	Q3	Su Corrected Conc. (ng/dry g)	Q1	Q2	Q3	Su Corrected Conc. (ng/dry g)	Q1	Q2	Q3
Decalin	0.0	U			0.0	U			0.0	U		
C1-Decalin	0.0	U			0.0	U			0.0	U		
C2-Decalin	0.0	U			0.0	U			0.0	U		
C3-Decalin	0.0	U			0.0	U			0.0	U		
C4-Decalin	0.0	U			0.0	U			0.0	U		
Naphthalene	31.3				44.7				37.5			
C1-Naphthalenes	52.3				60.1				56.7			
C2-Naphthalenes	42.6				36.6				41.8			
C3-Naphthalenes	37.8				28.2				38.9			
C4-Naphthalenes	19.9	J			14.7				23.3	J		
Benzothiophene	0.0	U			0.0	U			0.0	U		
C1-Benzothiophene	0.0	U			0.0	U			0.0	U		
C2-Benzothiophene	0.0	U			0.0	U			0.0	U		
C3-Benzothiophene	0.0	U			0.0	U			0.0	U		
Biphenyl	30.2				18.8				40.6			
Acenaphthylene	13.8				8.1				14.4			
Acenaphthene	6.7				5.9				7.5			
Dibenzofuran	17.9				10.3				22.6			
Fluorene	9.6				6.9				11.9			
C1-Fluorenes	11.9				6.7				15.6			
C2-Fluorenes	28.2				13.4				23.9			
C3-Fluorenes	0.0	U			0.0	U			0.0	U		
Anthracene	10.6				7.8				17.6			
Phenanthrene	19.1				12.4				26.0			
C1-Phenanthrenes/Anthracenes	26.3				13.0				30.7			
C2-Phenanthrenes/Anthracenes	36.2				17.0				42.7			
C3-Phenanthrenes/Anthracenes	54.4				20.8				53.5			
C4-Phenanthrenes/Anthracenes	35.9				13.0				45.6			
Dibenzothiophene	2.4	J			1.4	J			4.0	J		
C1-Dibenzothiophenes	14.8				5.4				17.2			
C2-Dibenzothiophenes	26.3				11.5				37.9			
C3-Dibenzothiophenes	42.6				14.0				47.4			
Fluoranthene	17.9	J			10.4	J			23.7	J		
Pyrene	50.2				17.8				60.6			
C1-Fluoranthenes/Pyrenes	28.5				8.5	J			31.1			
C2-Fluoranthenes/Pyrenes	18.9	J			5.8	J			20.7	J		
C3-Fluoranthenes/Pyrenes	0.0	U			0.0	U			15.1	J		
Naphthobenzothiophene	6.9	J			0.0	U			5.9	J		
C1-Naphthobenzothiophene	9.8				0.0	U			10.2			

C2-Naphthobenzothiophene	8.7		0.0	U	12.7	
C3-Naphthobenzothiophene	0.0	U	0.0	U	6.5	J
Benz(a)anthracene	13.3		3.4	J	10.0	J
Chrysene	29		10.5		29	
C1-Chrysenes	21.8		4.7	J	15.9	J
C2-Chrysenes	13.2	J	4.6	J	12.5	J
C3-Chrysenes	8.0	J	0.0	U	10.3	J
C4-Chrysenes	0.0	U	0.0	U	0.0	U
Benzo(b)fluoranthene	34.3		6.2		29.4	
Benzo(k)fluoranthene	8.4		1.2	J	6.5	J
Benzo(e)pyrene	34.9		7.0		28.1	
Benzo(a)pyrene	8.0		0.6	J	5.2	J
Perylene	48.1		5.5	J	39.4	
Indeno(1,2,3-c,d)pyrene	7.0	J	0.8	J	4.3	J
Dibenzo(a,h)anthracene	2.0	J	0.0	U	0.0	U
C1-Dibenzo(a,h)anthracene	0.0	U	0.0	U	0.0	U
C2-Dibenzo(a,h)anthracene	0.0	U	0.0	U	0.0	U
C3-Dibenzo(a,h)anthracene	0.0	U	0.0	U	0.0	U
Benzo(g,h,i)perylene	11.2		1.4	J	7.0	J
Total PAHs	951		459		1041	

Individual Isomers

2-Methylnaphthalene	50.8		59.8		55.8	
1-Methylnaphthalene	32.7		36.0		34.7	
2,6-Dimethylnaphthalene	21.0		18.1		21.8	
1,6,7-Trimethylnaphthalene	3.8		2.4		4.4	
1-Methylphenanthrene	3.4	J	2.6		7.4	

Surrogate (Su)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)
Naphthalene-d8	55	62	53
Acenaphthene-d10	74	77	75
Phenanthrene-d10	82	86	78
Chrysene-d12	59	66	70
Perylene-d12	76	51	54

Qualifiers (Q): J=Below the MDL, U=Not detected, B=In procedural blank > 3x MDL, I=Interference, D=Diluted value, NA=Not Applicable,*=Outside QA limits, refer to narrative

APPENDIX G

Fish Tissue Analytical Results

G.1. Fish tissue sample log and summary PAH results.

G.2. Fish tissue PAH data.

G.3. Striped Bass tissue data.

G.1. Fish tissue sample log and summary PAH results.

Sample ID	Species	Date	Latitude	Longitude	Whole Body Wt. (g)	Fillet Wt (g)	Carcass Wt (g)	Tissue	Total PAHs (ng/g wet)	Comments
MHC-PERCH1	perch	9-Dec-04	39.4227	-75.4585	90.06	16.55	73.51	Fillet	23.5	
								Carcass	45.7	
MHC-PERCH2	perch	9-Dec-04	39.4227	-75.4585	119.58	32.45	87.13	Fillet	20.2	
								Carcass	73.2	
MHC-PERCH3	perch	9-Dec-04	39.4227	-75.4585	155.86	28.86	181.72	Fillet	17.0	
								Carcass	36.5	
FTP-C-01	catfish	16-Dec-04						Whole body	88.9	North of Tacony Palmyra bridge
FTP-C-02	catfish	16-Dec-04						Whole body	324.5	North of Tacony Palmyra bridge
FTP-C-03	catfish	16-Dec-04						Whole body	185.6	North of Tacony Palmyra bridge
TI-3-C-01	catfish	16-Dec-04						Whole body	439.3	South of Tinicum Island
TI-3-C-02	catfish	16-Dec-04						Whole body	273.8	South of Tinicum Island
TI-3-C-03	catfish	16-Dec-04						Whole body	464.3	South of Tinicum Island
FMH-GC-01	gizzard shad	16-Dec-04						Fillet	101.7	Marcus Hook
								Carcass	233.7	
FMH-GC-02	gizzard shad	16-Dec-04						Fillet	82.8	Marcus Hook
								Carcass	254.4	
FMH-C-01	catfish	16-Dec-04						Whole body	381.7	Marcus Hook
MH-GC-03	gizzard shad	16-Dec-04						Fillet	117.5	Marcus Hook
								Carcass	362.5	
MH-C-02	catfish	16-Dec-04						Whole body	247.7	Marcus Hook
MH-C-03	catfish	16-Dec-04						Whole body	353.5	Marcus Hook
FCR-C-01	catfish	16-Dec-04						Whole body	139.1	Christina River
FCR-P-01	white perch	16-Dec-04						Fillet	89.4	Christina River
								Carcass	233.1	
FCR-P-02	white perch	16-Dec-04						Fillet	72.1	Christina River
								Carcass	270.8	
FCR-P-03	white perch	16-Dec-04						Fillet	209.5	Christina River
								Carcass	1143.6	
FCR-C-02	catfish	16-Dec-04						Whole body	176.7	Christina River

Sample ID	Species	Date	Latitude	Longitude	Whole Body Wt. (g)	Fillet Wt (g)	Carcass Wt (g)	Tissue	Total PAHs (ng/g wet)	Comments
FCR-C-03	catfish	16-Dec-04						Whole body	235.4	Christina River
FPP-C-01	catfish	16-Dec-04						Whole body	374.8	North of Pea Patch Island
FPP-C-02	catfish	16-Dec-04						Whole body	129.6	North of Pea Patch Island
FPP-C-03	catfish	16-Dec-04						Whole body	140.9	North of Pea Patch Island
FPP-P-01	white perch	16-Dec-04						Fillet	124.6	North of Pea Patch Island
								Carcass	205.6	
FPP-P-02	white perch	16-Dec-04						Fillet	238.6	North of Pea Patch Island
								Carcass	755.0	
FPP-P-03	white perch	16-Dec-04						Fillet	134.3	North of Pea Patch Island
								Carcass	827.0	
NJDB-01	striped bass	3-May-05	39.0300	74.5658	2448.59	153.09	2295.50	Fillet	10.4	
								Carcass	14.0	
								Carcass (dup)	11.5	
NJDB-02	striped bass	3-May-05	39.0248	74.5717	2538.99	121.19	2417.80	Fillet	10.2	
								Carcass	27.8	
NJDB-03	striped bass	10-May-05	39.0785	74.5511	3311.63	190.23	3121.40	Fillet	11.1	
								Carcass	26.2	
NJDB-04	striped bass	10-May-05	39.0793	74.5531	2442.97	184.97	2258.00	Fillet	7.2	
								Carcass	53.2	
NJDB-05	striped bass	11-May-05	39.0964	74.5809	5039.86	309.66	4730.20	Fillet	13.5	
								Carcass	43.4	
UPTPBFT-A	striped bass	6-Jul-05			1454.22	171.48	1282.74	Fillet	47.8	Upstream of Tacomy Palmyra Bridge
								Fillet (dup)	15.7	
								Carcass	21.9	
UPTPBFT-B	striped bass	6-Jul-05			1749.84	224.7	1525.14	Fillet	21.1	Upstream of Tacomy Palmyra Bridge
								Carcass	41.7	
UPTPBFT-C	striped bass	6-Jul-05			1521.46	167.19	1354.27	Fillet	130.6	Upstream of Tacomy Palmyra Bridge
								Carcass	291.5	
UPTPBFT-D	striped bass	6-Jul-05			1467.00	166.95	1300.05	Fillet	13.7	Upstream of Tacomy Palmyra Bridge
								Carcass	60.3	

Sample ID	Species	Date	Latitude	Longitude	Whole Body Wt. (g)	Fillet Wt (g)	Carcass Wt (g)	Tissue	Total PAHs (ng/g wet)	Comments
UPTPBFT-E	striped bass	6-Jul-05			1742.31	268.26	1474.05	Fillet	16.6	Upstream of Tacomy Palmyra Bridge
								Carcass	62.3	
Fish # 1	striped bass	27-May-05			2107.85	122.44	1985.41	Fillet	50.8	Lower end of Tinicum Island
								Carcass	60.1	
Fish # 2	striped bass	27-May-05			1475.69	141.81	1333.88	Fillet	9.7	Lower end of Tinicum Island
								Carcass	70.4	
Fish # 3	striped bass	27-May-05			1233.40	123.54	1109.86	Fillet	66.7	Lower end of Tinicum Island
								Carcass	89.3	
Fish # 4	striped bass	31-May-05			1533.05	157.48	1375.57	Fillet	98.4	Lower end of Tinicum Island
								Carcass	26.8	
Fish # 5	striped bass	31-May-05			1440.87	164.92	1275.95	Fillet	46.2	Lower end of Tinicum Island
								Carcass	25.6	

G.2. Fish tissue PAH data.

Client Sample ID	MHC-PERCH1 Fillet	MHC-PERCH1 Carcass
Sample Descriptor	Fillet	Carcass
Original Sample		
GERG ID	C45258	C45259
Sample Type	SAMP	SAMP
SDG	EC170	EC170
<hr/>		
Dry Weight	1.34	1.84
Wet Weight	6.28	6.58
Sample Size Units	Grams	Grams
Matrix	Tissue	Tissue
% solid	21.4	28.0
% Lipid	4.2	10.8
Reporting Units	ng/g	ng/g
Calculation Basis (dry/wet)	Wet	Wet
<hr/>		
QC Batch ID	T1463	T1463
Method	GCMS	GCMS
Collection Date	12/09/04	12/09/04
Receive Date	12/11/04	12/11/04
Extraction Date	12/14/04	12/14/04
Analysis Date	12/15/04	12/15/04
<hr/>		
Surrogate Compounds	%Recovery	%Recovery
d8-Naphthalene	73.7	75.5
d10-Acenaphthene	86.4	104.5
d10-Phenanthrene	106.7	108.2
d12-Chrysene	84.8	99.0
d12-Perylene	71.7	80.4
<hr/>		
Total PAHs	Concentration	Concentration
Total PAHs with Perylene	23.5	45.7
Total PAHs without Perylene	23.5	45.7
Total NS&T PAHs	7.1	18.6
<hr/>		

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID	MHC-PERCH1 Fillet	MHC-PERCH1 Carcass
Sample Descriptor	Fillet	Carcass
Original Sample		
GERG ID	C45258	C45259
Sample Type	SAMP	SAMP
SDG	EC170	EC170

PAH Compounds	Concentration	MDL		Concentration	MDL	
Naphthalene	1.31	0.85		1.78	0.81	
C1-Naphthalenes	1.01	1.46	J	1.73	1.39	
C2-Naphthalenes	0.46	0.84	J	1.41	0.81	
C3-Naphthalenes	1.19	1.28	J	1.43	1.22	
C4-Naphthalenes	1.08	1.28	J	1.69	1.22	
Biphenyl	0.42	0.70	J	0.50	0.67	J
Acenaphthylene	0.88	0.45		3.60	0.43	
Acenaphthene	0.30	0.45	J	0.37	0.43	J
Fluorene	0.39	0.66	J	1.04	0.63	
C1-Fluorenes	1.63	1.32		3.83	1.27	
C2-Fluorenes	3.45	1.32		3.93	1.27	
C3-Fluorenes	5.47	1.32		4.92	1.27	
Phenanthrene	0.48	0.62	J	0.90	0.59	
Anthracene	2.12	0.52		9.73	0.50	
C1-Phenanthrenes/Anthracenes	0.81	0.55		2.53	0.53	
C2-Phenanthrenes/Anthracenes	0.29	0.55	J	0.82	0.53	
C3-Phenanthrenes/Anthracenes	0.47	0.55	J	1.81	0.53	
C4-Phenanthrenes/Anthracenes	0.27	0.55	J	0.66	0.53	
Dibenzothiophene	0.08	0.23	J	0.25	0.22	
C1-Dibenzothiophenes	0.65	0.45		0.40	0.43	J
C2-Dibenzothiophenes	0.00	0.45	ND	0.00	0.43	ND
C3-Dibenzothiophenes	0.00	0.45	ND	0.00	0.43	ND
Fluoranthene	0.21	0.56	J	0.51	0.54	J
Pyrene	0.20	0.61	J	0.38	0.58	J
C1-Fluoranthenes/Pyrenes	0.00	1.17	ND	0.00	1.12	ND
C2-Fluoranthenes/Pyrenes	0.00	1.17	ND	0.00	1.12	ND
C3-Fluoranthenes/Pyrenes	0.00	1.17	ND	0.00	1.12	ND
Benzo(a)anthracene	0.10	0.58	J	0.27	0.56	J
Chrysene	0.06	0.46	J	0.15	0.44	J
C1-Chrysenes	0.00	0.92	ND	0.21	0.88	J
C2-Chrysenes	0.00	0.92	ND	0.26	0.88	J
C3-Chrysenes	0.00	0.92	ND	0.00	0.88	ND
C4-Chrysenes	0.00	0.92	ND	0.00	0.88	ND
Benzo(b)fluoranthene	0.04	1.06	J	0.07	1.01	J
Benzo(k)fluoranthene	0.09	0.72	J	0.32	0.69	J
Benzo(e)pyrene	0.02	0.57	J	0.04	0.55	J
Benzo(a)pyrene	0.00	1.14	ND	0.11	1.09	J
Perylene	0.00	0.26	ND	0.00	0.25	ND
Indeno(1,2,3-c,d)pyrene	0.00	1.08	ND	0.00	1.03	ND
Dibenz(a,h)anthracene	0.00	0.57	ND	0.00	0.54	ND
Benzo(g,h,i)perylene	0.00	0.89	ND	0.00	0.85	ND
2-Methylnaphthalene	0.63	0.65	J	1.05	0.62	
1-Methylnaphthalene	0.38	0.81	J	0.68	0.77	J
2,6-Dimethylnaphthalene	0.15	0.42	J	0.35	0.40	J
1,6,7-Trimethylnaphthalene	0.18	0.64	J	0.29	0.61	J
1-Methylphenanthrene	0.30	0.28		0.78	0.26	

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID	MHC-PERCH2 Fillet	MHC-PERCH2 Carcass
Sample Descriptor	Fillet	Carcass
Original Sample		
GERG ID	C45260	C45261
Sample Type	SAMP	SAMP
SDG	EC170	EC170
<hr/>		
Dry Weight	1.23	1.59
Wet Weight	5.81	5.21
Sample Size Units	Grams	Grams
Matrix	Tissue	Tissue
% solid	21.2	30.5
% Lipid	5.1	26.1
Reporting Units	ng/g	ng/g
Calculation Basis (dry/wet)	Wet	Wet
<hr/>		
QC Batch ID	T1463	T1463
Method	GCMS	GCMS
Collection Date	12/09/04	12/09/04
Receive Date	12/11/04	12/11/04
Extraction Date	12/14/04	12/14/04
Analysis Date	12/15/04	12/15/04
<hr/>		
Surrogate Compounds	%Recovery	%Recovery
d8-Naphthalene	59.5	91.6
d10-Acenaphthene	63.0	111.1
d10-Phenanthrene	74.4	106.8
d12-Chrysene	54.7	95.6
d12-Perylene	46.6	77.2
<hr/>		
Total PAHs	Concentration	Concentration
Total PAHs with Perylene	20.2	73.2
Total PAHs without Perylene	20.2	73.2
Total NS&T PAHs	8.1	32.1
<hr/>		

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID	MHC-PERCH2 Fillet	MHC-PERCH2 Carcass
Sample Descriptor	Fillet	Carcass
Original Sample		
GERG ID	C45260	C45261
Sample Type	SAMP	SAMP
SDG	EC170	EC170

PAH Compounds	Concentration	MDL		Concentration	MDL	
Naphthalene	1.57	0.92		3.07	1.02	
C1-Naphthalenes	1.49	1.58	J	5.56	1.76	
C2-Naphthalenes	0.98	0.91		4.74	1.02	
C3-Naphthalenes	1.34	1.38	J	3.64	1.54	
C4-Naphthalenes	1.20	1.38	J	2.53	1.54	
Biphenyl	0.52	0.76	J	1.49	0.84	
Acenaphthylene	0.49	0.48		3.64	0.54	
Acenaphthene	0.41	0.48	J	1.50	0.54	
Fluorene	0.61	0.72	J	2.64	0.80	
C1-Fluorenes	1.39	1.43	J	3.98	1.60	
C2-Fluorenes	1.13	1.43	J	4.20	1.60	
C3-Fluorenes	3.49	1.43		5.16	1.60	
Phenanthrene	0.69	0.67		2.33	0.75	
Anthracene	1.22	0.57		9.48	0.63	
C1-Phenanthrenes/Anthracenes	0.48	0.60	J	5.00	0.67	
C2-Phenanthrenes/Anthracenes	0.37	0.60	J	1.01	0.67	
C3-Phenanthrenes/Anthracenes	0.76	0.60		5.42	0.67	
C4-Phenanthrenes/Anthracenes	0.00	0.60	ND	0.98	0.67	
Dibenzothiophene	0.13	0.25	J	0.56	0.27	
C1-Dibenzothiophenes	0.43	0.49	J	3.29	0.55	
C2-Dibenzothiophenes	0.16	0.49	J	0.00	0.55	ND
C3-Dibenzothiophenes	0.00	0.49	ND	0.00	0.55	ND
Fluoranthene	0.33	0.61	J	0.62	0.68	J
Pyrene	0.30	0.66	J	0.44	0.73	J
C1-Fluoranthenes/Pyrenes	0.00	1.27	ND	0.00	1.42	ND
C2-Fluoranthenes/Pyrenes	0.00	1.27	ND	0.00	1.42	ND
C3-Fluoranthenes/Pyrenes	0.00	1.27	ND	0.00	1.42	ND
Benzo(a)anthracene	0.13	0.63	J	0.30	0.70	J
Chrysene	0.12	0.50	J	0.19	0.55	J
C1-Chrysenes	0.00	0.99	ND	0.17	1.11	J
C2-Chrysenes	0.00	0.99	ND	0.41	1.11	J
C3-Chrysenes	0.00	0.99	ND	0.00	1.11	ND
C4-Chrysenes	0.00	0.99	ND	0.00	1.11	ND
Benzo(b)fluoranthene	0.07	1.15	J	0.05	1.28	J
Benzo(k)fluoranthene	0.13	0.78	J	0.56	0.87	J
Benzo(e)pyrene	0.07	0.62	J	0.03	0.69	J
Benzo(a)pyrene	0.14	1.23	J	0.22	1.37	J
Perylene	0.00	0.29	ND	0.00	0.32	ND
Indeno(1,2,3-c,d)pyrene	0.00	1.17	ND	0.00	1.30	ND
Dibenz(a,h)anthracene	0.00	0.62	ND	0.00	0.69	ND
Benzo(g,h,i)perylene	0.00	0.97	ND	0.00	1.08	ND
2-Methylnaphthalene	0.93	0.71		3.45	0.79	
1-Methylnaphthalene	0.56	0.87	J	2.11	0.97	
2,6-Dimethylnaphthalene	0.32	0.46	J	1.58	0.51	
1,6,7-Trimethylnaphthalene	0.23	0.69	J	1.05	0.77	
1-Methylphenanthrene	0.20	0.30	J	2.64	0.33	

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID	MHC-PERCH3 Fillet	MHC-PERCH3 Carcass
Sample Descriptor	Fillet	Carcass
Original Sample		
GERG ID	C45262	C45263
Sample Type	SAMP	SAMP
SDG	EC170	EC170
<hr/>		
Dry Weight	1.26	1.95
Wet Weight	6.13	7.29
Sample Size Units	Grams	Grams
Matrix	Tissue	Tissue
% solid	20.6	26.8
% Lipid	3.6	12.3
Reporting Units	ng/g	ng/g
Calculation Basis (dry/wet)	Wet	Wet
<hr/>		
QC Batch ID	T1463	T1463
Method	GCMS	GCMS
Collection Date	12/09/04	12/09/04
Receive Date	12/11/04	12/11/04
Extraction Date	12/14/04	12/14/04
Analysis Date	12/15/04	12/15/04
<hr/>		
Surrogate Compounds	%Recovery	%Recovery
d8-Naphthalene	81.6	85.6
d10-Acenaphthene	89.1	98.0
d10-Phenanthrene	101.8	103.3
d12-Chrysene	79.0	89.2
d12-Perylene	68.7	72.7
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Total PAHs	Concentration	Concentration
Total PAHs with Perylene	17.0	36.5
Total PAHs without Perylene	17.0	36.5
Total NS&T PAHs	5.7	13.5
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ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID	MHC-PERCH3 Fillet	MHC-PERCH3 Carcass
Sample Descriptor	Fillet	Carcass
Original Sample		
GERG ID	C45262	C45263
Sample Type	SAMP	SAMP
SDG	EC170	EC170

PAH Compounds	Concentration	MDL		Concentration	MDL	
Naphthalene	1.12	0.87		1.60	0.73	
C1-Naphthalenes	0.96	1.50	J	1.90	1.26	
C2-Naphthalenes	0.55	0.87	J	1.37	0.73	
C3-Naphthalenes	0.82	1.31	J	1.57	1.10	
C4-Naphthalenes	1.23	1.31	J	1.08	1.10	J
Biphenyl	0.35	0.72	J	0.50	0.60	J
Acenaphthylene	0.44	0.46	J	1.71	0.38	
Acenaphthene	0.28	0.46	J	0.54	0.38	
Fluorene	0.39	0.68	J	0.90	0.57	
C1-Fluorenes	1.32	1.36	J	2.48	1.14	
C2-Fluorenes	1.03	1.36	J	2.72	1.14	
C3-Fluorenes	3.67	1.36		5.61	1.14	
Phenanthrene	0.47	0.64	J	0.84	0.53	
Anthracene	1.01	0.54		4.76	0.45	
C1-Phenanthrenes/Anthracenes	0.69	0.57		2.29	0.48	
C2-Phenanthrenes/Anthracenes	0.27	0.57	J	0.65	0.48	
C3-Phenanthrenes/Anthracenes	0.69	0.57		1.78	0.48	
C4-Phenanthrenes/Anthracenes	0.22	0.57	J	0.00	0.48	ND
Dibenzothiophene	0.07	0.23	J	0.21	0.20	
C1-Dibenzothiophenes	0.57	0.47		2.39	0.39	
C2-Dibenzothiophenes	0.23	0.47	J	0.00	0.39	ND
C3-Dibenzothiophenes	0.00	0.47	ND	0.00	0.39	ND
Fluoranthene	0.18	0.58	J	0.32	0.49	J
Pyrene	0.17	0.63	J	0.30	0.53	J
C1-Fluoranthenes/Pyrenes	0.00	1.20	ND	0.00	1.01	ND
C2-Fluoranthenes/Pyrenes	0.00	1.20	ND	0.00	1.01	ND
C3-Fluoranthenes/Pyrenes	0.00	1.20	ND	0.00	1.01	ND
Benzo(a)anthracene	0.06	0.60	J	0.12	0.50	J
Chrysene	0.07	0.47	J	0.13	0.40	J
C1-Chrysenes	0.00	0.94	ND	0.13	0.79	J
C2-Chrysenes	0.00	0.94	ND	0.00	0.79	ND
C3-Chrysenes	0.00	0.94	ND	0.00	0.79	ND
C4-Chrysenes	0.00	0.94	ND	0.00	0.79	ND
Benzo(b)fluoranthene	0.04	1.09	J	0.07	0.91	J
Benzo(k)fluoranthene	0.07	0.74	J	0.29	0.62	J
Benzo(e)pyrene	0.03	0.59	J	0.05	0.49	J
Benzo(a)pyrene	0.00	1.17	ND	0.16	0.98	J
Perylene	0.00	0.27	ND	0.00	0.23	ND
Indeno(1,2,3-c,d)pyrene	0.00	1.11	ND	0.00	0.93	ND
Dibenz(a,h)anthracene	0.00	0.59	ND	0.00	0.49	ND
Benzo(g,h,i)perylene	0.00	0.92	ND	0.00	0.77	ND
2-Methylnaphthalene	0.63	0.67	J	1.15	0.56	
1-Methylnaphthalene	0.33	0.83	J	0.75	0.69	
2,6-Dimethylnaphthalene	0.18	0.43	J	0.45	0.36	
1,6,7-Trimethylnaphthalene	0.15	0.65	J	0.46	0.55	J
1-Methylphenanthrene	0.42	0.28		0.96	0.24	

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID	FCR-P-01 Fillet	FCR-P-01 Carcass
Sample Descriptor		
Original Sample		
GERG ID	C45355	C45356
Sample Type	SAMP	SAMP
SDG	F1179	F1179
Dry Weight	1.19	3.31
Wet Weight	5.37	13.28
Sample Size Units	Grams	Grams
Matrix	Tissue	Tissue
% solid	22.2	24.9
% Lipid	ng/g	ng/g
Reporting Units	Wet	Wet
Calculation Basis (dry/wet)		
QC Batch ID	T1466	T1466
Method	GCMS	GCMS
Collection Date	12/16/04	12/16/04
Receive Date	12/18/04	12/18/04
Extraction Date	01/10/05	01/10/05
Analysis Date	01/15/05	01/15/05
Surrogate Compounds	%Recovery	%Recovery
d8-Naphthalene	57.4	86.4
d10-Acenaphthene	67.4	93.2
d10-Phenanthrene	69.1	98.0
d12-Chrysene	52.0	60.6
d12-Perylene	69.0	75.2
Total PAHs	Concentration	Concentration
Total PAHs with Perylene	89.4	233.1
Total PAHs without Perylene	89.4	232.9
Total NS&T PAHs	20.5	65.5

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID
 Sample Descriptor
 Original Sample
 GERG ID
 Sample Type
 SDG

FCR-P-01 Fillet

 C45355
 SAMP
 F1179

FCR-P-01 Carcass

 C45356
 SAMP
 F1179

PAH Compounds	Concentration	MDL	Concentration	MDL
Naphthalene	2.67	0.99	4.71	0.40
C1-Naphthalenes	3.95	1.71	7.68	0.69
C2-Naphthalenes	7.10	0.99	18.13	0.40
C3-Naphthalenes	8.36	1.49	18.18	0.60
C4-Naphthalenes	11.10	1.49	24.81	0.60
Biphenyl	1.23	0.82	1.47	0.33
Acenaphthylene	2.65	0.52	5.37	0.21
Acenaphthene	0.25	0.52	2.69	0.21
Fluorene	1.44	0.78	3.85	0.31
C1-Fluorenes	2.32	1.55	8.31	0.63
C2-Fluorenes	5.39	1.55	14.95	0.63
C3-Fluorenes	8.22	1.55	15.11	0.63
Phenanthrene	1.16	0.73	8.51	0.29
Anthracene	5.58	0.61	15.39	0.25
C1-Phenanthrenes/Anthracenes	3.27	0.65	11.46	0.26
C2-Phenanthrenes/Anthracenes	2.82	0.65	6.42	0.26
C3-Phenanthrenes/Anthracenes	4.23	0.65	10.15	0.26
C4-Phenanthrenes/Anthracenes	1.20	0.65	3.68	0.26
Dibenzothiophene	0.57	0.27	2.26	0.11
C1-Dibenzothiophenes	1.26	0.53	7.48	0.22
C2-Dibenzothiophenes	2.12	0.53	7.90	0.22
C3-Dibenzothiophenes	2.59	0.53	4.30	0.22
Fluoranthene	0.92	0.66	4.02	0.27
Pyrene	0.53	0.71	4.99	0.29
C1-Fluoranthenes/Pyrenes	2.32	1.37	6.43	0.56
C2-Fluoranthenes/Pyrenes	1.86	1.37	4.76	0.56
C3-Fluoranthenes/Pyrenes	1.47	1.37	1.82	0.56
Benzo(a)anthracene	0.34	0.68	1.23	0.28
Chrysene	0.41	0.54	2.38	0.22
C1-Chrysenes	0.77	1.07	1.47	0.43
C2-Chrysenes	0.86	1.07	1.13	0.43
C3-Chrysenes	0.00	1.07	0.77	0.43
C4-Chrysenes	0.00	1.07	0.00	0.43
Benzo(b)fluoranthene	0.11	1.24	0.17	0.50
Benzo(k)fluoranthene	0.00	0.85	0.00	0.34
Benzo(e)pyrene	0.28	0.67	0.46	0.27
Benzo(a)pyrene	0.00	1.33	0.34	0.54
Perylene	0.00	0.31	0.20	0.12
Indeno(1,2,3-c,d)pyrene	0.00	1.26	0.00	0.51
Dibenz(a,h)anthracene	0.00	0.67	0.00	0.27
Benzo(g,h,i)perylene	0.00	1.05	0.14	0.42
2-Methylnaphthalene	2.15	0.76	4.53	0.31
1-Methylnaphthalene	1.80	0.94	3.15	0.38
2,6-Dimethylnaphthalene	1.34	0.49	5.24	0.20
1,6,7-Trimethylnaphthalene	1.46	0.75	5.25	0.30
1-Methylphenanthrene	0.42	0.32	2.29	0.13

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID	FCR-P-02 Fillet	FCR-P-02 Carcass
Sample Descriptor		
Original Sample		
GERG ID	C45357	C45358
Sample Type	SAMP	SAMP
SDG	F1179	F1179
Dry Weight	1.03	3.19
Wet Weight	5.07	11.46
Sample Size Units	Grams	Grams
Matrix	Tissue	Tissue
% solid	20.4	27.8
% Lipid	ng/g	ng/g
Reporting Units	Wet	Wet
Calculation Basis (dry/wet)		
QC Batch ID	T1466	T1466
Method	GCMS	GCMS
Collection Date	12/16/04	12/16/04
Receive Date	12/18/04	12/18/04
Extraction Date	01/10/05	01/10/05
Analysis Date	01/15/05	01/15/05
Surrogate Compounds	%Recovery	%Recovery
d8-Naphthalene	81.3	72.1
d10-Acenaphthene	85.1	84.4
d10-Phenanthrene	89.8	96.7
d12-Chrysene	64.0	68.0
d12-Perylene	80.7	73.6
Total PAHs	Concentration	Concentration
Total PAHs with Perylene	72.1	270.8
Total PAHs without Perylene	72.1	270.0
Total NS&T PAHs	21.8	74.1

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID
 Sample Descriptor
 Original Sample
 GERG ID
 Sample Type
 SDG

FCR-P-02 Fillet

 C45357
 SAMP
 F1179

FCR-P-02 Carcass

 C45358
 SAMP
 F1179

PAH Compounds	Concentration	MDL		Concentration	MDL	
Naphthalene	2.38	1.05		4.26	0.46	
C1-Naphthalenes	3.86	1.81		8.84	0.80	
C2-Naphthalenes	4.74	1.05		15.34	0.46	
C3-Naphthalenes	5.32	1.58		16.37	0.70	
C4-Naphthalenes	4.73	1.58		16.68	0.70	
Biphenyl	1.06	0.87		1.36	0.38	
Acenaphthylene	1.81	0.55		6.37	0.24	
Acenaphthene	1.36	0.55		4.45	0.24	
Fluorene	1.52	0.82		4.45	0.36	
C1-Fluorenes	3.29	1.64		6.95	0.73	
C2-Fluorenes	6.13	1.64		21.48	0.73	
C3-Fluorenes	6.91	1.64		17.40	0.73	
Phenanthrene	3.09	0.77		10.95	0.34	
Anthracene	5.63	0.65		20.13	0.29	
C1-Phenanthrenes/Anthracenes	1.80	0.69		10.88	0.30	
C2-Phenanthrenes/Anthracenes	1.54	0.69		11.33	0.30	
C3-Phenanthrenes/Anthracenes	3.29	0.69		14.82	0.30	
C4-Phenanthrenes/Anthracenes	1.36	0.69		6.17	0.30	
Dibenzothiophene	0.58	0.28		1.80	0.12	
C1-Dibenzothiophenes	1.40	0.56		5.07	0.25	
C2-Dibenzothiophenes	1.22	0.56		10.84	0.25	
C3-Dibenzothiophenes	1.51	0.56		11.34	0.25	
Fluoranthene	0.49	0.70	J	2.73	0.31	
Pyrene	0.24	0.76	J	3.73	0.33	
C1-Fluoranthenes/Pyrenes	2.26	1.46		6.02	0.64	
C2-Fluoranthenes/Pyrenes	1.85	1.46		7.67	0.64	
C3-Fluoranthenes/Pyrenes	0.57	1.46	J	5.25	0.64	
Benzo(a)anthracene	0.21	0.72	J	1.45	0.32	
Chrysene	0.20	0.57	J	4.03	0.25	
C1-Chrysenes	0.67	1.14	J	3.27	0.50	
C2-Chrysenes	0.86	1.14	J	3.76	0.50	
C3-Chrysenes	0.00	1.14	ND	0.97	0.50	
C4-Chrysenes	0.00	1.14	ND	0.00	0.50	ND
Benzo(b)fluoranthene	0.08	1.31	J	0.97	0.58	
Benzo(k)fluoranthene	0.00	0.90	ND	0.27	0.40	J
Benzo(e)pyrene	0.14	0.71	J	1.76	0.31	
Benzo(a)pyrene	0.00	1.41	ND	0.00	0.62	ND
Perylene	0.00	0.33	ND	0.83	0.14	
Indeno(1,2,3-c,d)pyrene	0.00	1.34	ND	0.20	0.59	J
Dibenz(a,h)anthracene	0.00	0.71	ND	0.10	0.31	J
Benzo(g,h,i)perylene	0.00	1.11	ND	0.52	0.49	
2-Methylnaphthalene	2.34	0.81		5.33	0.36	
1-Methylnaphthalene	1.52	1.00		3.51	0.44	
2,6-Dimethylnaphthalene	1.17	0.52		3.64	0.23	
1,6,7-Trimethylnaphthalene	1.10	0.79		3.90	0.35	
1-Methylphenanthrene	0.45	0.34		1.42	0.15	

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID	FCR-P-03 Fillet	FCR-P-03 Carcass
Sample Descriptor		
Original Sample		
GERG ID	C45359	C45360
Sample Type	SAMP	SAMP
SDG	F1179	F1179
Dry Weight	1.02	2.85
Wet Weight	5.09	11.83
Sample Size Units	Grams	Grams
Matrix	Tissue	Tissue
% solid	20.1	24.1
% Lipid	ng/g	ng/g
Reporting Units	Wet	Wet
Calculation Basis (dry/wet)		
QC Batch ID	T1466	T1466
Method	GCMS	GCMS
Collection Date	12/16/04	12/16/04
Receive Date	12/18/04	12/18/04
Extraction Date	01/10/05	01/10/05
Analysis Date	01/15/05	01/15/05
Surrogate Compounds	%Recovery	%Recovery
d8-Naphthalene	56.9	56.9
d10-Acenaphthene	61.1	69.5
d10-Phenanthrene	51.1	77.3
d12-Chrysene	42.8	67.1
d12-Perylene	59.0	62.2
Total PAHs	Concentration	Concentration
Total PAHs with Perylene	209.5	1143.6
Total PAHs without Perylene	209.5	1141.8
Total NS&T PAHs	41.1	140.5

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID
 Sample Descriptor
 Original Sample
 GERG ID
 Sample Type
 SDG

FCR-P-03 Fillet

 C45359
 SAMP
 F1179

FCR-P-03 Carcass

 C45360
 SAMP
 F1179

PAH Compounds	Concentration	MDL	Concentration	MDL		
Naphthalene	4.68	1.05	6.24	0.45		
C1-Naphthalenes	7.03	1.80	17.60	0.77		
C2-Naphthalenes	17.26	1.04	71.07	0.45		
C3-Naphthalenes	20.32	1.58	92.31	0.68		
C4-Naphthalenes	13.92	1.58	85.60	0.68		
Biphenyl	1.79	0.86	2.09	0.37		
Acenaphthylene	1.01	0.55	3.80	0.24		
Acenaphthene	2.24	0.55	4.43	0.24		
Fluorene	3.17	0.82	11.03	0.35		
C1-Fluorenes	6.29	1.64	27.78	0.70		
C2-Fluorenes	8.93	1.64	59.04	0.70		
C3-Fluorenes	11.42	1.64	77.48	0.70		
Phenanthrene	6.08	0.76	20.81	0.33		
Anthracene	2.58	0.65	8.67	0.28		
C1-Phenanthrenes/Anthracenes	11.42	0.68	57.04	0.29		
C2-Phenanthrenes/Anthracenes	11.44	0.68	48.78	0.29		
C3-Phenanthrenes/Anthracenes	11.21	0.68	69.00	0.29		
C4-Phenanthrenes/Anthracenes	4.46	0.68	45.00	0.29		
Dibenzothiophene	3.47	0.28	34.60	0.12		
C1-Dibenzothiophenes	10.93	0.56	42.97	0.24		
C2-Dibenzothiophenes	13.41	0.56	91.61	0.24		
C3-Dibenzothiophenes	9.02	0.56	75.02	0.24		
Fluoranthene	0.59	0.70	J	2.22	0.30	
Pyrene	0.71	0.75	J	4.73	0.32	
C1-Fluoranthenes/Pyrenes	4.60	1.45		20.60	0.62	
C2-Fluoranthenes/Pyrenes	4.84	1.45		37.84	0.62	
C3-Fluoranthenes/Pyrenes	3.90	1.45		39.13	0.62	
Benzo(a)anthracene	0.32	0.72	J	2.94	0.31	
Chrysene	1.48	0.57		10.60	0.24	
C1-Chrysenes	2.87	1.13		17.73	0.49	
C2-Chrysenes	5.15	1.13		30.84	0.49	
C3-Chrysenes	1.40	1.13		10.37	0.49	
C4-Chrysenes	0.00	1.13	ND	3.36	0.49	
Benzo(b)fluoranthene	0.41	1.31	J	2.16	0.56	
Benzo(k)fluoranthene	0.28	0.89	J	0.73	0.38	
Benzo(e)pyrene	0.49	0.71	J	3.73	0.31	
Benzo(a)pyrene	0.22	1.41	J	1.34	0.61	
Perylene	0.00	0.33	ND	1.87	0.14	
Indeno(1,2,3-c,d)pyrene	0.08	1.33	J	0.00	0.57	ND
Dibenz(a,h)anthracene	0.00	0.70	ND	0.52	0.30	
Benzo(g,h,i)perylene	0.03	1.10	J	0.96	0.48	
2-Methylnaphthalene	4.06	0.80		9.53	0.35	
1-Methylnaphthalene	2.97	1.00		8.07	0.43	
2,6-Dimethylnaphthalene	6.85	0.52		26.16	0.22	
1,6,7-Trimethylnaphthalene	5.43	0.79		23.94	0.34	
1-Methylphenanthrene	2.84	0.34		15.49	0.15	

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID	FPP-P-01 Fillet	FPP-P-01 Carcass
Sample Descriptor		
Original Sample		
GERG ID	C45361	C45362
Sample Type	SAMP	SAMP
SDG	F1179	F1179
Dry Weight	1.37	3.39
Wet Weight	6.20	11.55
Sample Size Units	Grams	Grams
Matrix	Tissue	Tissue
% solid	22.1	29.3
% Lipid	ng/g	ng/g
Reporting Units	Wet	Wet
Calculation Basis (dry/wet)		
QC Batch ID	T1466	T1466
Method	GCMS	GCMS
Collection Date	12/16/04	12/16/04
Receive Date	12/18/04	12/18/04
Extraction Date	01/10/05	01/10/05
Analysis Date	01/15/05	01/16/05
Surrogate Compounds	%Recovery	%Recovery
d8-Naphthalene	71.7	51.0
d10-Acenaphthene	81.1	75.6
d10-Phenanthrene	83.1	60.7
d12-Chrysene	45.9	39.7
d12-Perylene	72.3	54.8
Total PAHs	Concentration	Concentration
Total PAHs with Perylene	124.6	205.6
Total PAHs without Perylene	124.2	205.0
Total NS&T PAHs	34.4	50.4

Q

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID
 Sample Descriptor
 Original Sample
 GERG ID
 Sample Type
 SDG

FPP-P-01 Fillet

 C45361
 SAMP
 F1179

FPP-P-01 Carcass

 C45362
 SAMP
 F1179

PAH Compounds	Concentration	MDL		Concentration	MDL	
Naphthalene	2.51	0.86		2.41	0.46	
C1-Naphthalenes	3.43	1.48		4.11	0.79	
C2-Naphthalenes	9.65	0.86		16.52	0.46	
C3-Naphthalenes	10.80	1.29		19.68	0.69	
C4-Naphthalenes	12.80	1.29		24.00	0.69	
Biphenyl	1.37	0.71		0.91	0.38	
Acenaphthylene	2.57	0.45		4.50	0.24	
Acenaphthene	4.43	0.45		1.00	0.24	
Fluorene	1.75	0.67		2.37	0.36	
C1-Fluorenes	5.45	1.34		6.29	0.72	
C2-Fluorenes	9.21	1.34		11.25	0.72	
C3-Fluorenes	7.01	1.34		8.19	0.72	
Phenanthrene	4.57	0.63		4.53	0.34	
Anthracene	8.67	0.53		19.60	0.29	
C1-Phenanthrenes/Anthracenes	5.52	0.56		10.41	0.30	
C2-Phenanthrenes/Anthracenes	3.00	0.56		6.19	0.30	
C3-Phenanthrenes/Anthracenes	7.08	0.56		13.31	0.30	
C4-Phenanthrenes/Anthracenes	1.20	0.56		3.82	0.30	
Dibenzothiophene	1.29	0.23		2.25	0.12	
C1-Dibenzothiophenes	3.65	0.46		7.03	0.25	
C2-Dibenzothiophenes	3.82	0.46		6.54	0.25	
C3-Dibenzothiophenes	1.44	0.46		3.44	0.25	
Fluoranthene	0.59	0.57		2.44	0.31	
Pyrene	0.39	0.62	J	1.53	0.33	
C1-Fluoranthenes/Pyrenes	2.78	1.19		4.39	0.64	
C2-Fluoranthenes/Pyrenes	1.98	1.19		4.70	0.64	
C3-Fluoranthenes/Pyrenes	0.00	1.19	ND	1.63	0.64	ND
Benzo(a)anthracene	0.41	0.59	J	1.57	0.32	
Chrysene	1.00	0.47		0.82	0.25	
C1-Chrysenes	0.93	0.93	J	1.95	0.50	
C2-Chrysenes	1.11	0.93		1.63	0.50	
C3-Chrysenes	0.00	0.93	ND	0.00	0.50	ND
C4-Chrysenes	-0.22	0.93	J	0.00	0.50	ND
Benzo(b)fluoranthene	0.24	1.07	J	1.13	0.58	
Benzo(k)fluoranthene	1.34	0.73		2.21	0.39	
Benzo(e)pyrene	0.43	0.58	J	0.78	0.31	
Benzo(a)pyrene	0.00	1.15	ND	0.51	0.62	J
Perylene	0.32	0.27		0.61	0.14	
Indeno(1,2,3-c,d)pyrene	0.79	1.09	J	0.57	0.59	J
Dibenz(a,h)anthracene	0.67	0.58		0.17	0.31	J
Benzo(g,h,i)perylene	0.57	0.91	J	0.58	0.49	
2-Methylnaphthalene	1.99	0.66		2.29	0.35	
1-Methylnaphthalene	1.44	0.82		1.82	0.44	
2,6-Dimethylnaphthalene	3.11	0.43		4.42	0.23	
1,6,7-Trimethylnaphthalene	2.61	0.65		3.72	0.35	
1-Methylphenanthrene	0.78	0.28		2.62	0.15	

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID	FPP-P-02 Fillet	FPP-P-02 Carcass
Sample Descriptor		
Original Sample		
GERG ID	C45363	C45364
Sample Type	SAMP	SAMP
SDG	F1179	F1179
Dry Weight	0.35	1.43
Wet Weight	1.75	5.14
Sample Size Units	Grams	Grams
Matrix	Tissue	Tissue
% solid	20.1	27.8
% Lipid	ng/g	ng/g
Reporting Units	Wet	Wet
Calculation Basis (dry/wet)		
QC Batch ID	T1466	T1466
Method	GCMS	GCMS
Collection Date	12/16/04	12/16/04
Receive Date	12/18/04	12/18/04
Extraction Date	01/10/05	01/10/05
Analysis Date	01/16/05	01/16/05
Surrogate Compounds	%Recovery	%Recovery
d8-Naphthalene	62.2	67.4
d10-Acenaphthene	59.2	70.7
d10-Phenanthrene	60.2	77.9
d12-Chrysene	39.3	65.2
d12-Perylene	65.2	74.4
Total PAHs	Concentration	Concentration
Total PAHs with Perylene	238.6	755.0
Total PAHs without Perylene	238.6	754.0
Total NS&T PAHs	81.3	144.4

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID
 Sample Descriptor
 Original Sample
 GERG ID
 Sample Type
 SDG

FPP-P-02 Fillet

 C45363
 SAMP
 F1179

FPP-P-02 Carcass

 C45364
 SAMP
 F1179

PAH Compounds	Concentration	MDL	Concentration	MDL
Naphthalene	8.68	3.04	10.72	1.04
C1-Naphthalenes	13.25	5.24	27.82	1.78
C2-Naphthalenes	28.98	3.03	82.40	1.03
C3-Naphthalenes	29.72	4.59	81.70	1.56
C4-Naphthalenes	17.71	4.59	71.88	1.56
Biphenyl	3.21	2.52	4.64	0.86
Acenaphthylene	3.62	1.60	7.68	0.55
Acenaphthene	6.76	1.60	3.71	0.55
Fluorene	5.42	2.38	13.64	0.81
C1-Fluorenes	9.27	4.76	24.51	1.62
C2-Fluorenes	11.36	4.76	37.57	1.62
C3-Fluorenes	15.50	4.76	38.94	1.62
Phenanthrene	6.23	2.23	9.63	0.76
Anthracene	4.43	1.89	16.72	0.64
C1-Phenanthrenes/Anthracenes	9.77	1.99	37.03	0.68
C2-Phenanthrenes/Anthracenes	5.42	1.99	38.65	0.68
C3-Phenanthrenes/Anthracenes	6.74	1.99	32.52	0.68
C4-Phenanthrenes/Anthracenes	0.00	1.99	14.85	0.68
Dibenzothiophene	3.86	0.82	10.24	0.28
C1-Dibenzothiophenes	9.44	1.63	28.14	0.56
C2-Dibenzothiophenes	10.20	1.63	40.10	0.56
C3-Dibenzothiophenes	5.71	1.63	32.06	0.56
Fluoranthene	0.88	2.03	1.62	0.69
Pyrene	0.55	2.19	2.70	0.75
C1-Fluoranthenes/Pyrenes	3.00	4.22	9.99	1.44
C2-Fluoranthenes/Pyrenes	4.87	4.22	15.07	1.44
C3-Fluoranthenes/Pyrenes	2.82	4.22	16.79	1.44
Benzo(a)anthracene	3.95	2.10	1.43	0.71
Chrysene	3.30	1.65	6.49	0.56
C1-Chrysenes	2.08	3.30	8.72	1.12
C2-Chrysenes	1.68	3.30	13.58	1.12
C3-Chrysenes	0.00	3.30	5.65	1.12
C4-Chrysenes	0.00	3.30	0.53	1.12
Benzo(b)fluoranthene	0.00	3.81	1.04	1.30
Benzo(k)fluoranthene	0.17	2.60	1.47	0.88
Benzo(e)pyrene	0.00	2.06	2.05	0.70
Benzo(a)pyrene	0.00	4.09	0.89	1.39
Perylene	0.00	0.95	0.98	0.32
Indeno(1,2,3-c,d)pyrene	0.00	3.88	0.00	1.32
Dibenz(a,h)anthracene	0.00	2.05	0.31	0.70
Benzo(g,h,i)perylene	0.00	3.22	0.52	1.09
2-Methylnaphthalene	7.89	2.34	15.99	0.80
1-Methylnaphthalene	5.36	2.90	11.83	0.99
2,6-Dimethylnaphthalene	18.69	1.52	32.89	0.52
1,6,7-Trimethylnaphthalene	7.85	2.29	23.51	0.78
1-Methylphenanthrene	5.92	0.99	8.18	0.34

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID	FPP-P-03 Fillet	FPP-P-03 Carcass
Sample Descriptor		
Original Sample		
GERG ID	C45365	C45366
Sample Type	SAMP	SAMP
SDG	F1179	F1179
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Dry Weight	0.23	1.48
Wet Weight	1.16	5.78
Sample Size Units	Grams	Grams
Matrix	Tissue	Tissue
% solid	19.5	25.6
% Lipid	ng/g	ng/g
Reporting Units	Wet	Wet
Calculation Basis (dry/wet)		
<hr/>		
QC Batch ID	T1466	T1466
Method	GCMS	GCMS
Collection Date	12/16/04	12/16/04
Receive Date	12/18/04	12/18/04
Extraction Date	01/10/05	01/10/05
Analysis Date	01/16/05	01/16/05
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Surrogate Compounds	%Recovery	%Recovery
d8-Naphthalene	108.0	46.5
d10-Acenaphthene	102.0	59.1
d10-Phenanthrene	97.9	58.1
d12-Chrysene	72.3	46.0
d12-Perylene	99.1	57.5
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Total PAHs	Concentration	Concentration
Total PAHs with Perylene	134.3	827.0
Total PAHs without Perylene	134.3	825.4
Total NS&T PAHs	39.6	102.8
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ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID	FPP-P-03 Fillet	FPP-P-03 Carcass
Sample Descriptor		
Original Sample		
GERG ID	C45365	C45366
Sample Type	SAMP	SAMP
SDG	F1179	F1179

PAH Compounds	Concentration		Concentration	MDL
Naphthalene	7.96		4.43	0.92
C1-Naphthalenes	6.07	J	10.26	1.59
C2-Naphthalenes	12.81		47.93	0.92
C3-Naphthalenes	20.24		68.53	1.39
C4-Naphthalenes	14.19		63.96	1.39
Biphenyl	2.90	J	1.76	0.76
Acenaphthylene	0.88	J	2.69	0.48
Acenaphthene	7.09		3.52	0.48
Fluorene	1.97	J	6.58	0.72
C1-Fluorenes	4.92		18.50	1.44
C2-Fluorenes	6.77	J	36.55	1.44
C3-Fluorenes	4.11		46.95	1.44
Phenanthrene	1.26	J	15.10	0.67
Anthracene	2.30	J	10.69	0.57
C1-Phenanthrenes/Anthracenes	5.83		43.57	0.60
C2-Phenanthrenes/Anthracenes	4.01		64.29	0.60
C3-Phenanthrenes/Anthracenes	4.77		55.18	0.60
C4-Phenanthrenes/Anthracenes	0.00	ND	29.07	0.60
Dibenzothiophene	1.66		6.75	0.25
C1-Dibenzothiophenes	3.98		31.37	0.49
C2-Dibenzothiophenes	6.48		58.61	0.49
C3-Dibenzothiophenes	4.22		54.51	0.49
Fluoranthene	0.54	J	1.41	0.61
Pyrene	0.54	J	4.27	0.66
C1-Fluoranthenes/Pyrenes	1.52	J	16.08	1.28
C2-Fluoranthenes/Pyrenes	0.93	J	24.65	1.28
C3-Fluoranthenes/Pyrenes	0.00	ND	26.08	1.28
Benzo(a)anthracene	1.81	J	2.78	0.63
Chrysene	1.51	J	7.70	0.50
C1-Chrysenes	2.29	J	16.23	1.00
C2-Chrysenes	0.00	ND	23.29	1.00
C3-Chrysenes	0.00	ND	13.97	1.00
C4-Chrysenes	0.00	ND	0.00	1.00
Benzo(b)fluoranthene	0.00	ND	1.69	1.15
Benzo(k)fluoranthene	0.71	J	0.85	0.79
Benzo(e)pyrene	0.00	ND	3.88	0.62
Benzo(a)pyrene	0.00	ND	0.82	1.24
Perylene	0.00	ND	1.58	0.29
Indeno(1,2,3-c,d)pyrene	0.00	ND	0.00	1.17
Dibenz(a,h)anthracene	0.00	ND	0.00	0.62
Benzo(g,h,i)perylene	0.00	ND	0.89	0.97
2-Methylnaphthalene	3.46	J	5.52	0.71
1-Methylnaphthalene	2.61	J	4.74	0.88
2,6-Dimethylnaphthalene	4.14		17.43	0.46
1,6,7-Trimethylnaphthalene	3.91		17.22	0.69
1-Methylphenanthrene	1.50		10.62	0.30

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID	FMH-GC-01 Fillet	FMH-GC-01 Carcass
Sample Descriptor		
Original Sample		
GERG ID	C45367	C45368
Sample Type	SAMP	SAMP
SDG	F1179	F1179
Dry Weight	1.13	2.49
Wet Weight	5.69	10.04
Sample Size Units	Grams	Grams
Matrix	Tissue	Tissue
% solid	19.9	24.9
% Lipid	ng/g	ng/g
Reporting Units	Wet	Wet
Calculation Basis (dry/wet)		
QC Batch ID	T1466	T1466
Method	GCMS	GCMS
Collection Date	12/16/04	12/16/04
Receive Date	12/18/04	12/18/04
Extraction Date	01/10/05	01/10/05
Analysis Date	01/16/05	01/16/05
Surrogate Compounds	%Recovery	%Recovery
d8-Naphthalene	76.6	52.8
d10-Acenaphthene	77.1	73.3
d10-Phenanthrene	68.5	80.1
d12-Chrysene	47.8	42.8
d12-Perylene	81.2	68.5
Total PAHs	Concentration	Concentration
Total PAHs with Perylene	101.7	233.7
Total PAHs without Perylene	101.7	233.6
Total NS&T PAHs	36.6	81.8

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID
 Sample Descriptor
 Original Sample
 GERG ID
 Sample Type
 SDG

FMH-GC-01 Fillet

 C45367
 SAMP
 F1179

FMH-GC-01 Carcass

 C45368
 SAMP
 F1179

PAH Compounds	Concentration	MDL		Concentration	MDL	
Naphthalene	5.62	0.94		12.59	0.53	
C1-Naphthalenes	10.42	1.61		27.32	0.91	
C2-Naphthalenes	10.76	0.93		30.48	0.53	
C3-Naphthalenes	11.51	1.41		30.48	0.80	
C4-Naphthalenes	26.92	1.41		58.60	0.80	
Biphenyl	1.12	0.77		1.49	0.44	
Acenaphthylene	1.65	0.49		3.97	0.28	
Acenaphthene	2.55	0.49		4.81	0.28	
Fluorene	3.38	0.73		6.67	0.41	
C1-Fluorenes	1.76	1.46		5.03	0.83	
C2-Fluorenes	2.75	1.46		5.39	0.83	
C3-Fluorenes	3.81	1.46		5.37	0.83	
Phenanthrene	2.80	0.68		5.46	0.39	
Anthracene	5.17	0.58		10.69	0.33	
C1-Phenanthrenes/Anthracenes	1.74	0.61		3.52	0.35	
C2-Phenanthrenes/Anthracenes	1.14	0.61		1.33	0.35	
C3-Phenanthrenes/Anthracenes	1.39	0.61		2.39	0.35	
C4-Phenanthrenes/Anthracenes	0.00	0.61	ND	0.64	0.35	
Dibenzothiophene	1.03	0.25		2.18	0.14	
C1-Dibenzothiophenes	1.07	0.50		1.80	0.28	
C2-Dibenzothiophenes	1.01	0.50		1.67	0.28	
C3-Dibenzothiophenes	0.50	0.50	J	1.11	0.28	
Fluoranthene	0.88	0.62		2.04	0.35	
Pyrene	0.79	0.67		1.47	0.38	
C1-Fluoranthenes/Pyrenes	0.43	1.30	J	1.08	0.73	
C2-Fluoranthenes/Pyrenes	1.19	1.30	J	1.52	0.73	
C3-Fluoranthenes/Pyrenes	0.26	1.30	J	0.53	0.73	J
Benzo(a)anthracene	0.00	0.64	ND	0.41	0.37	
Chrysene	0.26	0.51	J	0.54	0.29	
C1-Chrysenes	0.00	1.01	ND	0.69	0.57	
C2-Chrysenes	0.00	1.01	ND	0.70	0.57	
C3-Chrysenes	0.00	1.01	ND	0.00	0.57	ND
C4-Chrysenes	-0.35	1.01	J	0.00	0.57	ND
Benzo(b)fluoranthene	0.00	1.17	ND	0.44	0.66	J
Benzo(k)fluoranthene	0.17	0.80	J	0.30	0.45	J
Benzo(e)pyrene	0.00	0.63	ND	0.25	0.36	J
Benzo(a)pyrene	0.00	1.26	ND	0.32	0.71	J
Perylene	0.00	0.29	ND	0.14	0.17	J
Indeno(1,2,3-c,d)pyrene	0.00	1.19	ND	0.08	0.68	J
Dibenz(a,h)anthracene	0.00	0.63	ND	0.00	0.36	ND
Benzo(g,h,i)perylene	0.00	0.99	ND	0.22	0.56	J
2-Methylnaphthalene	6.03	0.72		15.00	0.41	
1-Methylnaphthalene	4.39	0.89		12.32	0.50	
2,6-Dimethylnaphthalene	3.34	0.47		6.82	0.26	
1,6,7-Trimethylnaphthalene	2.69	0.71		5.69	0.40	
1-Methylphenanthrene	0.23	0.31	J	0.74	0.17	

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID	FMH-GC-02 Fillet	FMH-GC-02 Carcass
Sample Descriptor		
Original Sample		
GERG ID	C45369	C45370
Sample Type	SAMP	SAMP
SDG	F1179	F1179
Dry Weight	2.20	3.08
Wet Weight	10.30	11.19
Sample Size Units	Grams	Grams
Matrix	Tissue	Tissue
% solid	21.4	27.5
% Lipid	ng/g	ng/g
Reporting Units	Wet	Wet
Calculation Basis (dry/wet)		
QC Batch ID	T1466	T1466
Method	GCMS	GCMS
Collection Date	12/16/04	12/16/04
Receive Date	12/18/04	12/18/04
Extraction Date	01/10/05	01/10/05
Analysis Date	01/16/05	01/16/05
Surrogate Compounds	%Recovery	%Recovery
d8-Naphthalene	51.5	45.7
d10-Acenaphthene	60.5	85.7
d10-Phenanthrene	64.0	74.5
d12-Chrysene	42.9	41.5
d12-Perylene	67.3	66.7
Total PAHs	Concentration	Concentration
Total PAHs with Perylene	82.8	254.4
Total PAHs without Perylene	82.8	254.4
Total NS&T PAHs	34.4	107.8

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID
 Sample Descriptor
 Original Sample
 GERG ID
 Sample Type
 SDG

FMH-GC-02 Fillet

 C45369
 SAMP
 F1179

FMH-GC-02 Carcass

 C45370
 SAMP
 F1179

PAH Compounds	Concentration	MDL		Concentration	MDL	
Naphthalene	5.47	0.52		16.53	0.48	
C1-Naphthalenes	10.35	0.89		34.41	0.82	
C2-Naphthalenes	10.76	0.52		38.07	0.47	
C3-Naphthalenes	11.69	0.78		37.26	0.72	
C4-Naphthalenes	11.20	0.78		33.71	0.72	
Biphenyl	0.92	0.43		1.59	0.39	
Acenaphthylene	0.90	0.27		2.42	0.25	
Acenaphthene	1.67	0.27		12.20	0.25	
Fluorene	4.51	0.40		10.47	0.37	
C1-Fluorenes	2.69	0.81		6.67	0.74	
C2-Fluorenes	2.33	0.81		6.36	0.74	
C3-Fluorenes	3.04	0.81		4.88	0.74	
Phenanthrene	3.34	0.38		10.56	0.35	
Anthracene	2.45	0.32		6.53	0.29	
C1-Phenanthrenes/Anthracenes	1.51	0.34		6.35	0.31	
C2-Phenanthrenes/Anthracenes	0.80	0.34		1.86	0.31	
C3-Phenanthrenes/Anthracenes	0.84	0.34		1.59	0.31	
C4-Phenanthrenes/Anthracenes	0.44	0.34		0.46	0.31	
Dibenzothiophene	1.11	0.14		3.14	0.13	
C1-Dibenzothiophenes	0.90	0.28		3.72	0.26	
C2-Dibenzothiophenes	0.75	0.28		2.43	0.26	
C3-Dibenzothiophenes	0.54	0.28		0.97	0.26	
Fluoranthene	1.13	0.34		3.32	0.32	
Pyrene	1.01	0.37		2.84	0.34	
C1-Fluoranthenes/Pyrenes	0.60	0.72	J	1.17	0.66	
C2-Fluoranthenes/Pyrenes	1.16	0.72		2.39	0.66	
C3-Fluoranthenes/Pyrenes	0.41	0.72	J	0.68	0.66	
Benzo(a)anthracene	0.07	0.36	J	0.15	0.33	J
Chrysene	0.17	0.28	J	0.71	0.26	
C1-Chrysenes	0.00	0.56	ND	0.30	0.52	J
C2-Chrysenes	0.00	0.56	ND	0.51	0.52	J
C3-Chrysenes	-0.04	0.56	J	0.00	0.52	ND
C4-Chrysenes	0.00	0.56	ND	0.00	0.52	ND
Benzo(b)fluoranthene	0.00	0.65	ND	0.06	0.59	J
Benzo(k)fluoranthene	0.08	0.44	J	0.11	0.41	J
Benzo(e)pyrene	0.00	0.35	ND	0.00	0.32	ND
Benzo(a)pyrene	0.00	0.70	ND	0.00	0.64	ND
Perylene	0.00	0.16	ND	0.00	0.15	ND
Indeno(1,2,3-c,d)pyrene	0.00	0.66	ND	0.00	0.61	ND
Dibenz(a,h)anthracene	0.00	0.35	ND	0.00	0.32	ND
Benzo(g,h,i)perylene	0.00	0.55	ND	0.00	0.50	ND
2-Methylnaphthalene	6.00	0.40		19.65	0.37	
1-Methylnaphthalene	4.35	0.49		14.76	0.45	
2,6-Dimethylnaphthalene	2.94	0.26		6.45	0.24	
1,6,7-Trimethylnaphthalene	2.51	0.39		5.89	0.36	
1-Methylphenanthrene	0.41	0.17		2.03	0.16	

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID	MH-GC-03 Fillet	MH-GC-03 Carcass
Sample Descriptor		
Original Sample		
GERG ID	C45371	C45372
Sample Type	SAMP	SAMP
SDG	F1179	F1179
Dry Weight	1.18	3.79
Wet Weight	5.71	12.55
Sample Size Units	Grams	Grams
Matrix	Tissue	Tissue
% solid	20.7	30.2
% Lipid	ng/g	ng/g
Reporting Units	Wet	Wet
Calculation Basis (dry/wet)		
QC Batch ID	T1466	T1466
Method	GCMS	GCMS
Collection Date	12/16/04	12/16/04
Receive Date	12/18/04	12/18/04
Extraction Date	01/10/05	01/10/05
Analysis Date	01/16/05	01/16/05
Surrogate Compounds	%Recovery	%Recovery
d8-Naphthalene	73.6	61.2
d10-Acenaphthene	79.7	143.7
d10-Phenanthrene	90.1	102.1
d12-Chrysene	57.2	73.6
d12-Perylene	86.9	89.6
Total PAHs	Concentration	Concentration
Total PAHs with Perylene	117.5	362.5
Total PAHs without Perylene	117.5	362.5
Total NS&T PAHs	49.7	140.9

Q

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID
 Sample Descriptor
 Original Sample
 GERG ID
 Sample Type
 SDG

MH-GC-03 Fillet

MH-GC-03 Carcass

C45371
 SAMP
 F1179

C45372
 SAMP
 F1179

PAH Compounds	Concentration	MDL		Concentration	MDL	
Naphthalene	5.36	0.93		17.82	0.42	
C1-Naphthalenes	10.88	1.61		41.24	0.73	
C2-Naphthalenes	12.10	0.93		53.17	0.42	
C3-Naphthalenes	11.51	1.41		48.75	0.64	
C4-Naphthalenes	16.95	1.41		53.53	0.64	
Biphenyl	1.42	0.77		1.48	0.35	
Acenaphthylene	3.74	0.49		7.38	0.22	
Acenaphthene	8.95	0.49		18.00	0.22	
Fluorene	3.49	0.73		6.28	0.33	
C1-Fluorenes	3.45	1.46		6.69	0.66	
C2-Fluorenes	4.06	1.46		8.40	0.66	
C3-Fluorenes	5.61	1.46		7.25	0.66	
Phenanthrene	4.63	0.68		7.35	0.31	
Anthracene	8.24	0.58		30.56	0.26	
C1-Phenanthrenes/Anthracenes	2.53	0.61		10.43	0.28	
C2-Phenanthrenes/Anthracenes	1.41	0.61		4.65	0.28	
C3-Phenanthrenes/Anthracenes	1.73	0.61		6.29	0.28	
C4-Phenanthrenes/Anthracenes	0.96	0.61		2.49	0.28	
Dibenzothiophene	1.00	0.25		3.39	0.11	
C1-Dibenzothiophenes	0.92	0.50		3.71	0.23	
C2-Dibenzothiophenes	1.43	0.50		3.60	0.23	
C3-Dibenzothiophenes	0.78	0.50		2.31	0.23	
Fluoranthene	0.93	0.62		3.41	0.28	
Pyrene	0.94	0.67		3.66	0.31	
C1-Fluoranthenes/Pyrenes	1.01	1.29	J	2.72	0.59	
C2-Fluoranthenes/Pyrenes	1.12	1.29	J	2.90	0.59	
C3-Fluoranthenes/Pyrenes	0.61	1.29	J	1.65	0.59	
Benzo(a)anthracene	0.47	0.64	J	0.80	0.29	
Chrysene	0.53	0.51		1.50	0.23	
C1-Chrysenes	0.38	1.01	J	0.45	0.46	J
C2-Chrysenes	0.27	1.01	J	0.21	0.46	J
C3-Chrysenes	0.00	1.01	ND	0.00	0.46	ND
C4-Chrysenes	0.00	1.01	ND	0.00	0.46	ND
Benzo(b)fluoranthene	0.07	1.17	J	0.10	0.53	J
Benzo(k)fluoranthene	0.00	0.80	ND	0.23	0.36	J
Benzo(e)pyrene	0.00	0.63	ND	0.07	0.29	J
Benzo(a)pyrene	0.00	1.25	ND	0.00	0.57	ND
Perylene	0.00	0.29	ND	0.00	0.13	ND
Indeno(1,2,3-c,d)pyrene	0.00	1.19	ND	0.00	0.54	ND
Dibenz(a,h)anthracene	0.00	0.63	ND	0.00	0.29	ND
Benzo(g,h,i)perylene	0.00	0.99	ND	0.00	0.45	ND
2-Methylnaphthalene	6.20	0.72		22.80	0.33	
1-Methylnaphthalene	4.68	0.89		18.44	0.40	
2,6-Dimethylnaphthalene	3.52	0.46		7.50	0.21	
1,6,7-Trimethylnaphthalene	2.99	0.70		6.02	0.32	
1-Methylphenanthrene	0.34	0.31		1.20	0.14	

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID	FTP-C-01	FTP-C-02
Sample Descriptor	0822	0822
Original Sample		
GERG ID	C45321	C45322
Sample Type	FTP-C-01	FTP-C-02
SDG	F1179	F1179
<hr/>		
Dry Weight	2.50	4.24
Wet Weight	10.74	13.88
Sample Size Units	Grams	Grams
Matrix	Tissue	Tissue
% solid	23.2	30.5
% Lipid	13.7	25.3
Reporting Units	ng/g	ng/g
Calculation Basis (dry/wet)	Wet	Wet
<hr/>		
QC Batch ID	T1465	T1465
Method	GCMS	GCMS
Collection Date	12/16/04	12/16/04
Receive Date	12/18/04	12/18/04
Extraction Date	01/06/05	01/06/05
Analysis Date	01/14/05	01/14/05
<hr/>		
Surrogate Compounds	%Recovery	%Recovery
d8-Naphthalene	65.8	63.5
d10-Acenaphthene	70.6	100.3
d10-Phenanthrene	70.5	86.3
d12-Chrysene	70.0	79.6
d12-Perylene	63.2	59.2
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Total PAHs	Concentration	Concentration
Total PAHs with Perylene	88.9	324.5
Total PAHs without Perylene	88.9	324.5
Total NS&T PAHs	43.6	159.3
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ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID	FTP-C-01	FTP-C-02
Sample Descriptor	0822	0822
Original Sample		
GERG ID	C45321	C45322
Sample Type	FTP-C-01	FTP-C-02
SDG	F1179	F1179

PAH Compounds	Concentration	MDL		Concentration	MDL	
Naphthalene	3.67	0.50		19.01	0.38	
C1-Naphthalenes	6.07	0.85		55.14	0.66	
C2-Naphthalenes	5.45	0.49		38.37	0.38	
C3-Naphthalenes	5.19	0.75		24.97	0.58	
C4-Naphthalenes	3.61	0.75		15.99	0.58	
Biphenyl	1.12	0.41		4.64	0.32	
Acenaphthylene	4.93	0.26		10.00	0.20	
Acenaphthene	3.59	0.26		19.78	0.20	
Fluorene	2.21	0.39		12.01	0.30	
C1-Fluorenes	1.73	0.78		18.64	0.60	
C2-Fluorenes	2.62	0.78		16.69	0.60	
C3-Fluorenes	4.41	0.78		5.73	0.60	
Phenanthrene	6.90	0.36		7.64	0.28	
Anthracene	12.62	0.31		25.92	0.24	
C1-Phenanthrenes/Anthracenes	2.18	0.32		5.58	0.25	
C2-Phenanthrenes/Anthracenes	1.38	0.32		4.83	0.25	
C3-Phenanthrenes/Anthracenes	4.26	0.32		9.78	0.25	
C4-Phenanthrenes/Anthracenes	0.80	0.32		2.07	0.25	
Dibenzothiophene	0.43	0.13		1.85	0.10	
C1-Dibenzothiophenes	1.21	0.27		3.49	0.21	
C2-Dibenzothiophenes	0.83	0.27		3.98	0.21	
C3-Dibenzothiophenes	1.07	0.27		2.64	0.21	
Fluoranthene	1.85	0.33		4.21	0.26	
Pyrene	1.13	0.36		1.48	0.28	
C1-Fluoranthenes/Pyrenes	1.63	0.69		2.43	0.53	
C2-Fluoranthenes/Pyrenes	1.31	0.69		2.20	0.53	
C3-Fluoranthenes/Pyrenes	0.56	0.69		1.11	0.53	
Benzo(a)anthracene	0.92	0.34		0.96	0.26	
Chrysene	0.94	0.27		0.72	0.21	
C1-Chrysenes	0.89	0.54		0.99	0.42	
C2-Chrysenes	0.69	0.54		0.65	0.42	
C3-Chrysenes	0.00	0.54	ND	0.00	0.42	ND
C4-Chrysenes	0.00	0.54	ND	0.00	0.42	ND
Benzo(b)fluoranthene	0.51	0.62	J	0.25	0.48	J
Benzo(k)fluoranthene	0.80	0.42		0.58	0.33	
Benzo(e)pyrene	0.31	0.34	J	0.14	0.26	J
Benzo(a)pyrene	0.51	0.67	J	0.00	0.52	ND
Perylene	0.00	0.15	ND	0.00	0.12	ND
Indeno(1,2,3-c,d)pyrene	0.24	0.63	J	0.00	0.49	ND
Dibenz(a,h)anthracene	0.09	0.33	J	0.00	0.26	ND
Benzo(g,h,i)perylene	0.28	0.52	J	0.00	0.41	ND
2-Methylnaphthalene	3.32	0.38		32.96	0.30	
1-Methylnaphthalene	2.75	0.47		22.18	0.36	
2,6-Dimethylnaphthalene	1.35	0.25		7.13	0.19	
1,6,7-Trimethylnaphthalene	1.39	0.37		5.24	0.29	
1-Methylphenanthrene	0.35	0.16		0.52	0.13	

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID	FTP-C-03	FCR-C-01
Sample Descriptor	0822	1232
Original Sample		
GERG ID	C45323	C45324
Sample Type	FTP-C-03	FCR-C-01
SDG	F1179	F1179
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Dry Weight	2.62	2.45
Wet Weight	11.39	10.40
Sample Size Units	Grams	Grams
Matrix	Tissue	Tissue
% solid	23.0	23.6
% Lipid	14.5	16.8
Reporting Units	ng/g	ng/g
Calculation Basis (dry/wet)	Wet	Wet
<hr/>		
QC Batch ID	T1465	T1465
Method	GCMS	GCMS
Collection Date	12/16/04	12/16/04
Receive Date	12/18/04	12/18/04
Extraction Date	01/06/05	01/06/05
Analysis Date	01/15/05	01/15/05
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Surrogate Compounds	%Recovery	%Recovery
d8-Naphthalene	67.8	64.1
d10-Acenaphthene	87.1	92.8
d10-Phenanthrene	87.0	76.8
d12-Chrysene	72.2	78.8
d12-Perylene	71.2	76.6
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Total PAHs	Concentration	Concentration
Total PAHs with Perylene	185.6	139.1
Total PAHs without Perylene	185.6	139.1
Total NS&T PAHs	61.2	49.2
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ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID	FTP-C-03	FCR-C-01
Sample Descriptor	0822	1232
Original Sample		
GERG ID	C45323	C45324
Sample Type	FTP-C-03	FCR-C-01
SDG	F1179	F1179

PAH Compounds	Concentration	MDL		Concentration	MDL	
Naphthalene	5.31	0.47		3.60	0.51	
C1-Naphthalenes	12.10	0.80		7.37	0.88	
C2-Naphthalenes	19.00	0.47		13.13	0.51	
C3-Naphthalenes	26.76	0.70		12.38	0.77	
C4-Naphthalenes	16.31	0.70		12.40	0.77	
Biphenyl	1.20	0.39		2.57	0.42	
Acenaphthylene	7.12	0.25		4.91	0.27	
Acenaphthene	3.69	0.25		2.88	0.27	
Fluorene	4.25	0.37		1.75	0.40	
C1-Fluorenes	5.83	0.73		3.39	0.80	
C2-Fluorenes	8.50	0.73		7.64	0.80	
C3-Fluorenes	8.62	0.73		6.53	0.80	
Phenanthrene	4.25	0.34		8.13	0.37	
Anthracene	16.76	0.29		14.91	0.32	
C1-Phenanthrenes/Anthracenes	4.95	0.31		4.13	0.33	
C2-Phenanthrenes/Anthracenes	5.17	0.31		3.13	0.33	
C3-Phenanthrenes/Anthracenes	4.35	0.31		3.56	0.33	
C4-Phenanthrenes/Anthracenes	3.32	0.31		1.73	0.33	
Dibenzothiophene	0.84	0.13		0.75	0.14	
C1-Dibenzothiophenes	4.18	0.25		1.08	0.27	
C2-Dibenzothiophenes	2.46	0.25		3.87	0.27	
C3-Dibenzothiophenes	3.02	0.25		2.43	0.27	
Fluoranthene	3.16	0.31		1.76	0.34	
Pyrene	1.58	0.34		1.50	0.37	
C1-Fluoranthenes/Pyrenes	3.78	0.65		3.93	0.71	
C2-Fluoranthenes/Pyrenes	1.71	0.65		2.92	0.71	
C3-Fluoranthenes/Pyrenes	0.55	0.65		1.15	0.71	
Benzo(a)anthracene	0.99	0.32		0.68	0.35	
Chrysene	1.21	0.25		1.44	0.28	
C1-Chrysenes	1.44	0.51		1.11	0.56	
C2-Chrysenes	0.84	0.51		1.21	0.56	
C3-Chrysenes	0.00	0.51	ND	0.00	0.56	ND
C4-Chrysenes	0.00	0.51	ND	0.00	0.56	ND
Benzo(b)fluoranthene	0.65	0.58		0.24	0.64	J
Benzo(k)fluoranthene	0.13	0.40	J	0.12	0.44	J
Benzo(e)pyrene	0.41	0.32		0.35	0.35	
Benzo(a)pyrene	0.52	0.63	J	0.27	0.69	J
Perylene	0.00	0.15	ND	0.00	0.16	ND
Indeno(1,2,3-c,d)pyrene	0.31	0.60	J	0.01	0.65	J
Dibenz(a,h)anthracene	0.00	0.31	ND	0.00	0.34	ND
Benzo(g,h,i)perylene	0.35	0.49	J	0.18	0.54	J
2-Methylnaphthalene	6.81	0.36		3.99	0.39	
1-Methylnaphthalene	5.29	0.44		3.38	0.49	
2,6-Dimethylnaphthalene	4.76	0.23		1.52	0.26	
1,6,7-Trimethylnaphthalene	6.93	0.35		2.08	0.39	
1-Methylphenanthrene	0.96	0.15		0.45	0.17	

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID	FCR-C-02	FCR-C-03
Sample Descriptor	1303	1303
Original Sample GERG ID	C45325	C45326
Sample Type	FCR-C-02	FCR-C-03
SDG	F1179	F1179
<hr/>		
Dry Weight	3.20	3.84
Wet Weight	11.81	12.94
Sample Size Units	Grams	Grams
Matrix	Tissue	Tissue
% solid	27.1	29.7
% Lipid	20.9	28.2
Reporting Units	ng/g	ng/g
Calculation Basis (dry/wet)	Wet	Wet
<hr/>		
QC Batch ID	T1465	T1465
Method	GCMS	GCMS
Collection Date	12/16/04	12/16/04
Receive Date	12/18/04	12/18/04
Extraction Date	01/06/05	01/06/05
Analysis Date	01/15/05	01/15/05
<hr/>		
Surrogate Compounds	%Recovery	%Recovery
d8-Naphthalene	59.6	48.6
d10-Acenaphthene	94.4	69.9
d10-Phenanthrene	75.5	63.9
d12-Chrysene	72.4	75.3
d12-Perylene	76.5	65.4
<hr/>		
Total PAHs	Concentration	Concentration
Total PAHs with Perylene	176.7	235.4
Total PAHs without Perylene	176.7	235.4
Total NS&T PAHs	62.5	87.6
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ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID	FCR-C-02	FCR-C-03
Sample Descriptor	1303	1303
Original Sample		
GERG ID	C45325	C45326
Sample Type	FCR-C-02	FCR-C-03
SDG	F1179	F1179

PAH Compounds	Concentration	MDL	Concentration	MDL
Naphthalene	5.45	0.45	7.55	0.41
C1-Naphthalenes	12.46	0.78	17.11	0.71
C2-Naphthalenes	19.61	0.45	26.32	0.41
C3-Naphthalenes	20.80	0.68	27.84	0.62
C4-Naphthalenes	20.36	0.68	22.35	0.62
Biphenyl	1.07	0.37	2.54	0.34
Acenaphthylene	5.59	0.24	5.79	0.22
Acenaphthene	5.01	0.24	6.33	0.22
Fluorene	3.83	0.35	5.52	0.32
C1-Fluorenes	5.47	0.71	6.47	0.64
C2-Fluorenes	6.69	0.71	11.20	0.64
C3-Fluorenes	4.11	0.71	7.65	0.64
Phenanthrene	8.27	0.33	10.70	0.30
Anthracene	15.18	0.28	20.68	0.25
C1-Phenanthrenes/Anthracenes	4.20	0.29	8.09	0.27
C2-Phenanthrenes/Anthracenes	3.74	0.29	5.13	0.27
C3-Phenanthrenes/Anthracenes	5.13	0.29	6.64	0.27
C4-Phenanthrenes/Anthracenes	1.37	0.29	2.01	0.27
Dibenzothiophene	1.41	0.12	2.07	0.11
C1-Dibenzothiophenes	2.92	0.24	3.83	0.22
C2-Dibenzothiophenes	4.60	0.24	6.26	0.22
C3-Dibenzothiophenes	2.93	0.24	2.84	0.22
Fluoranthene	2.71	0.30	3.49	0.27
Pyrene	2.47	0.32	3.38	0.30
C1-Fluoranthenes/Pyrenes	2.23	0.62	3.07	0.57
C2-Fluoranthenes/Pyrenes	2.30	0.62	3.11	0.57
C3-Fluoranthenes/Pyrenes	1.09	0.62	1.29	0.57
Benzo(a)anthracene	0.70	0.31	0.58	0.28
Chrysene	0.56	0.24	2.27	0.22
C1-Chrysenes	0.54	0.49	0.68	0.45
C2-Chrysenes	1.87	0.49	0.52	0.45
C3-Chrysenes	0.00	0.49	0.00	0.45
C4-Chrysenes	0.00	0.49	0.00	0.45
Benzo(b)fluoranthene	0.22	0.56	0.18	0.51
Benzo(k)fluoranthene	1.29	0.39	1.51	0.35
Benzo(e)pyrene	0.27	0.31	0.23	0.28
Benzo(a)pyrene	0.09	0.61	0.06	0.55
Perylene	0.00	0.14	0.00	0.13
Indeno(1,2,3-c,d)pyrene	0.04	0.57	0.00	0.52
Dibenz(a,h)anthracene	0.00	0.30	0.00	0.28
Benzo(g,h,i)perylene	0.13	0.48	0.11	0.43
2-Methylnaphthalene	6.89	0.35	9.32	0.32
1-Methylnaphthalene	5.57	0.43	7.79	0.39
2,6-Dimethylnaphthalene	3.43	0.22	5.81	0.20
1,6,7-Trimethylnaphthalene	3.85	0.34	5.95	0.31
1-Methylphenanthrene	1.02	0.15	1.33	0.13

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID	FPP-C-01	FPP-C-02
Sample Descriptor	1354	1354
Original Sample		
GERG ID	C45330	C45331
Sample Type	FPP-C-01	FPP-C-02
SDG	F1179	F1179
<hr/>		
Dry Weight	2.73	2.21
Wet Weight	10.89	10.75
Sample Size Units	Grams	Grams
Matrix	Tissue	Tissue
% solid	25.1	20.5
% Lipid	21.5	14.1
Reporting Units	ng/g	ng/g
Calculation Basis (dry/wet)	Wet	Wet
<hr/>		
QC Batch ID	T1465	T1465
Method	GCMS	GCMS
Collection Date	12/16/04	12/16/04
Receive Date	12/18/04	12/18/04
Extraction Date	01/06/05	01/06/05
Analysis Date	01/15/05	01/15/05
<hr/>		
Surrogate Compounds	%Recovery	%Recovery
d8-Naphthalene	60.0	67.3
d10-Acenaphthene	89.6	89.9
d10-Phenanthrene	90.9	83.0
d12-Chrysene	98.3	82.6
d12-Perylene	68.3	67.4
<hr/>		
Total PAHs	Concentration	Concentration
Total PAHs with Perylene	374.8	129.6
Total PAHs without Perylene	373.7	128.6
Total NS&T PAHs	85.0	37.2
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ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID	FPP-C-01	FPP-C-02
Sample Descriptor	1354	1354
Original Sample		
GERG ID	C45330	C45331
Sample Type	FPP-C-01	FPP-C-02
SDG	F1179	F1179

PAH Compounds	Concentration	MDL		Concentration	MDL	
Naphthalene	3.21	0.49		1.44	0.50	
C1-Naphthalenes	6.63	0.84		1.12	0.85	
C2-Naphthalenes	18.85	0.49		2.67	0.49	
C3-Naphthalenes	27.32	0.74		4.43	0.75	
C4-Naphthalenes	33.95	0.74		6.40	0.75	
Biphenyl	3.04	0.40		1.60	0.41	
Acenaphthylene	7.72	0.26		4.21	0.26	
Acenaphthene	2.23	0.26		0.46	0.26	
Fluorene	3.14	0.38		0.61	0.39	
C1-Fluorenes	8.77	0.76		2.56	0.77	
C2-Fluorenes	22.59	0.76		5.92	0.77	
C3-Fluorenes	23.40	0.76		8.65	0.77	
Phenanthrene	14.51	0.36		9.00	0.36	
Anthracene	25.67	0.30		14.65	0.31	
C1-Phenanthrenes/Anthracenes	19.46	0.32		6.14	0.32	
C2-Phenanthrenes/Anthracenes	16.87	0.32		2.31	0.32	
C3-Phenanthrenes/Anthracenes	16.51	0.32		7.36	0.32	
C4-Phenanthrenes/Anthracenes	10.69	0.32		5.16	0.32	
Dibenzothiophene	2.11	0.13		0.35	0.13	
C1-Dibenzothiophenes	9.12	0.26		1.34	0.27	
C2-Dibenzothiophenes	17.16	0.26		3.05	0.27	
C3-Dibenzothiophenes	15.16	0.26		2.26	0.27	
Fluoranthene	2.82	0.33		0.87	0.33	
Pyrene	4.97	0.35		1.65	0.36	
C1-Fluoranthenes/Pyrenes	7.40	0.68		1.54	0.69	
C2-Fluoranthenes/Pyrenes	11.22	0.68		2.62	0.69	
C3-Fluoranthenes/Pyrenes	8.76	0.68		1.95	0.69	
Benzo(a)anthracene	1.90	0.34		0.96	0.34	
Chrysene	3.96	0.26		1.53	0.27	
C1-Chrysenes	6.95	0.53		1.39	0.54	
C2-Chrysenes	8.21	0.53		22.16	0.54	
C3-Chrysenes	2.85	0.53		0.00	0.54	ND
C4-Chrysenes	0.00	0.53	ND	0.00	0.54	ND
Benzo(b)fluoranthene	1.42	0.61		0.46	0.62	J
Benzo(k)fluoranthene	0.29	0.42	J	0.12	0.42	J
Benzo(e)pyrene	1.76	0.33		0.43	0.34	
Benzo(a)pyrene	1.19	0.66		0.40	0.67	J
Perylene	1.11	0.15		0.92	0.15	
Indeno(1,2,3-c,d)pyrene	0.58	0.62	J	0.25	0.63	J
Dibenz(a,h)anthracene	0.36	0.33		0.16	0.33	J
Benzo(g,h,i)perylene	0.90	0.52		0.45	0.52	J
2-Methylnaphthalene	3.37	0.38		0.58	0.38	
1-Methylnaphthalene	3.26	0.47		0.54	0.47	
2,6-Dimethylnaphthalene	5.37	0.24		0.46	0.25	
1,6,7-Trimethylnaphthalene	5.30	0.37		0.73	0.37	
1-Methylphenanthrene	3.12	0.16		0.90	0.16	

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID	FPP-C-03	FMH-C-01
Sample Descriptor	1354	1121
Original Sample		
GERG ID	C45332	C45339
Sample Type	FPP-C-03	FMH-C-01
SDG	F1179	F1179
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Dry Weight	2.93	2.70
Wet Weight	11.52	9.14
Sample Size Units	Grams	Grams
Matrix	Tissue	Tissue
% solid	25.5	29.5
% Lipid	22.6	18.4
Reporting Units	ng/g	ng/g
Calculation Basis (dry/wet)	Wet	Wet
<hr/>		
QC Batch ID	T1465	T1465
Method	GCMS	GCMS
Collection Date	12/16/04	12/16/04
Receive Date	12/18/04	12/18/04
Extraction Date	01/06/05	01/06/05
Analysis Date	01/15/05	01/15/05
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Surrogate Compounds	%Recovery	%Recovery
d8-Naphthalene	70.9	49.9
d10-Acenaphthene	84.8	109.0
d10-Phenanthrene	80.2	85.1
d12-Chrysene	73.9	77.7
d12-Perylene	83.1	86.1
<hr/>		
Total PAHs	Concentration	Concentration
Total PAHs with Perylene	140.9	381.7
Total PAHs without Perylene	140.7	381.7
Total NS&T PAHs	38.3	143.6
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ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID	FPP-C-03	FMH-C-01
Sample Descriptor	1354	1121
Original Sample		
GERG ID	C45332	C45339
Sample Type	FPP-C-03	FMH-C-01
SDG	F1179	F1179

PAH Compounds	Concentration	MDL	Concentration	MDL
Naphthalene	1.80	0.46	19.32	0.58
C1-Naphthalenes	2.83	0.80	54.60	1.00
C2-Naphthalenes	11.06	0.46	60.03	0.58
C3-Naphthalenes	13.42	0.70	48.83	0.88
C4-Naphthalenes	14.94	0.70	40.36	0.88
Biphenyl	1.18	0.38	1.93	0.48
Acenaphthylene	5.56	0.24	9.31	0.31
Acenaphthene	1.22	0.24	8.58	0.31
Fluorene	1.31	0.36	5.39	0.46
C1-Fluorenes	3.36	0.72	5.47	0.91
C2-Fluorenes	6.96	0.72	10.95	0.91
C3-Fluorenes	6.92	0.72	7.49	0.91
Phenanthrene	1.40	0.34	4.57	0.43
Anthracene	18.26	0.29	32.49	0.36
C1-Phenanthrenes/Anthracenes	5.77	0.30	8.63	0.38
C2-Phenanthrenes/Anthracenes	4.74	0.30	6.84	0.38
C3-Phenanthrenes/Anthracenes	6.31	0.30	10.63	0.38
C4-Phenanthrenes/Anthracenes	2.33	0.30	5.75	0.38
Dibenzothiophene	0.73	0.12	2.34	0.16
C1-Dibenzothiophenes	3.24	0.25	5.47	0.31
C2-Dibenzothiophenes	5.30	0.25	7.37	0.31
C3-Dibenzothiophenes	4.03	0.25	4.74	0.31
Fluoranthene	1.40	0.31	3.28	0.39
Pyrene	2.16	0.33	2.23	0.42
C1-Fluoranthenes/Pyrenes	3.08	0.64	4.37	0.81
C2-Fluoranthenes/Pyrenes	3.24	0.64	4.32	0.81
C3-Fluoranthenes/Pyrenes	1.39	0.64	1.58	0.81
Benzo(a)anthracene	0.93	0.32	1.20	0.40
Chrysene	1.45	0.25	1.47	0.32
C1-Chrysenes	1.12	0.50	0.53	0.63
C2-Chrysenes	1.37	0.50	0.70	0.63
C3-Chrysenes	0.00	0.50	0.00	0.63
C4-Chrysenes	0.00	0.50	0.00	0.63
Benzo(b)fluoranthene	0.21	0.58	0.35	0.73
Benzo(k)fluoranthene	0.14	0.39	0.06	0.50
Benzo(e)pyrene	0.59	0.31	0.30	0.39
Benzo(a)pyrene	0.33	0.62	0.00	0.78
Perylene	0.26	0.14	0.00	0.18
Indeno(1,2,3-c,d)pyrene	0.20	0.59	0.00	0.74
Dibenz(a,h)anthracene	0.10	0.31	0.00	0.39
Benzo(g,h,i)perylene	0.29	0.49	0.17	0.62
2-Methylnaphthalene	1.54	0.36	31.80	0.45
1-Methylnaphthalene	1.29	0.44	22.80	0.55
2,6-Dimethylnaphthalene	2.27	0.23	6.95	0.29
1,6,7-Trimethylnaphthalene	3.03	0.35	6.41	0.44
1-Methylphenanthrene	0.85	0.15	1.28	0.19

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID	MH-C-02	MH-C-03
Sample Descriptor	1145	1145
Original Sample		
GERG ID	C45340	C45341
Sample Type	MH-C-02	MH-C-03
SDG	F1179	F1179
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Dry Weight	2.87	2.88
Wet Weight	12.46	11.68
Sample Size Units	Grams	Grams
Matrix	Tissue	Tissue
% solid	23.0	24.7
% Lipid	12.9	14.9
Reporting Units	ng/g	ng/g
Calculation Basis (dry/wet)	Wet	Wet
<hr/>		
QC Batch ID	T1465	T1465
Method	GCMS	GCMS
Collection Date	12/16/04	12/16/04
Receive Date	12/18/04	12/18/04
Extraction Date	01/06/05	01/06/05
Analysis Date	01/15/05	01/15/05
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Surrogate Compounds	%Recovery	%Recovery
d8-Naphthalene	78.6	77.0
d10-Acenaphthene	76.2	106.5
d10-Phenanthrene	78.2	109.4
d12-Chrysene	59.7	83.2
d12-Perylene	83.1	93.6
<hr/>		
Total PAHs	Concentration	Concentration
Total PAHs with Perylene	247.7	353.5
Total PAHs without Perylene	247.7	353.5
Total NS&T PAHs	72.5	113.7
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ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID	MH-C-02	MH-C-03
Sample Descriptor	1145	1145
Original Sample		
GERG ID	C45340	C45341
Sample Type	MH-C-02	MH-C-03
SDG	F1179	F1179

PAH Compounds	Concentration	MDL	Concentration	MDL
Naphthalene	7.37	0.43	10.66	0.46
C1-Naphthalenes	23.84	0.74	33.55	0.78
C2-Naphthalenes	43.80	0.43	60.25	0.45
C3-Naphthalenes	32.17	0.64	50.59	0.69
C4-Naphthalenes	22.18	0.64	28.04	0.69
Biphenyl	1.97	0.35	1.94	0.38
Acenaphthylene	7.19	0.22	10.97	0.24
Acenaphthene	7.45	0.22	10.07	0.24
Fluorene	4.35	0.33	6.61	0.36
C1-Fluorenes	7.91	0.67	8.84	0.71
C2-Fluorenes	7.95	0.67	12.33	0.71
C3-Fluorenes	9.52	0.67	11.95	0.71
Phenanthrene	4.25	0.31	5.27	0.33
Anthracene	7.86	0.26	22.98	0.28
C1-Phenanthrenes/Anthracenes	6.79	0.28	12.80	0.30
C2-Phenanthrenes/Anthracenes	9.36	0.28	7.92	0.30
C3-Phenanthrenes/Anthracenes	5.58	0.28	7.71	0.30
C4-Phenanthrenes/Anthracenes	2.22	0.28	3.15	0.30
Dibenzothiophene	1.25	0.11	2.81	0.12
C1-Dibenzothiophenes	3.05	0.23	6.71	0.24
C2-Dibenzothiophenes	5.95	0.23	8.96	0.24
C3-Dibenzothiophenes	4.90	0.23	6.31	0.24
Fluoranthene	1.41	0.28	2.92	0.30
Pyrene	0.99	0.31	1.87	0.33
C1-Fluoranthenes/Pyrenes	2.36	0.59	3.94	0.63
C2-Fluoranthenes/Pyrenes	2.62	0.59	2.81	0.63
C3-Fluoranthenes/Pyrenes	2.16	0.59	1.73	0.63
Benzo(a)anthracene	0.47	0.29	1.48	0.31
Chrysene	1.75	0.23	2.31	0.25
C1-Chrysenes	1.39	0.46	1.51	0.49
C2-Chrysenes	2.11	0.46	0.92	0.49
C3-Chrysenes	0.64	0.46	0.46	0.49
C4-Chrysenes	0.00	0.46	0.00	0.49
Benzo(b)fluoranthene	0.57	0.53	0.27	0.57
Benzo(k)fluoranthene	3.54	0.36	2.07	0.39
Benzo(e)pyrene	0.49	0.29	0.63	0.31
Benzo(a)pyrene	0.00	0.57	0.00	0.61
Perylene	0.00	0.13	0.00	0.14
Indeno(1,2,3-c,d)pyrene	0.11	0.54	0.00	0.58
Dibenz(a,h)anthracene	0.00	0.29	0.00	0.31
Benzo(g,h,i)perylene	0.16	0.45	0.17	0.48
2-Methylnaphthalene	13.37	0.33	19.00	0.35
1-Methylnaphthalene	10.47	0.41	14.55	0.43
2,6-Dimethylnaphthalene	8.57	0.21	12.08	0.23
1,6,7-Trimethylnaphthalene	9.09	0.32	11.55	0.34
1-Methylphenanthrene	1.76	0.14	1.31	0.15

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID	TI3-C-01		TI3-C-02
Sample Descriptor	1022		1022
Original Sample			
GERG ID	C45342		C45343
Sample Type	TI3-C-01		TI3-C-02
SDG	F1179		F1179
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Dry Weight	3.94		3.19
Wet Weight	11.40		11.59
Sample Size Units	Grams		Grams
Matrix	Tissue		Tissue
% solid	34.6		27.5
% Lipid	31.7		21.6
Reporting Units	ng/g		ng/g
Calculation Basis (dry/wet)	Wet		Wet
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QC Batch ID	T1465		T1465
Method	GCMS		GCMS
Collection Date	12/16/04		12/16/04
Receive Date	12/18/04		12/18/04
Extraction Date	01/06/05		01/06/05
Analysis Date	01/15/05		01/15/05
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Surrogate Compounds	%Recovery		%Recovery
d8-Naphthalene	68.5		61.9
d10-Acenaphthene	173.1	Q	96.1
d10-Phenanthrene	99.6		72.9
d12-Chrysene	86.7		67.5
d12-Perylene	80.8		73.0
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Total PAHs	Concentration		Concentration
Total PAHs with Perylene	439.3		273.8
Total PAHs without Perylene	439.3		273.8
Total NS&T PAHs	172.9		121.8
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ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID	TI3-C-01	TI3-C-02
Sample Descriptor	1022	1022
Original Sample		
GERG ID	C45342	C45343
Sample Type	TI3-C-01	TI3-C-02
SDG	F1179	F1179

PAH Compounds	Concentration	MDL	Concentration	MDL	
Naphthalene	23.33	0.47	14.81	0.46	
C1-Naphthalenes	45.42	0.80	36.68	0.79	
C2-Naphthalenes	50.40	0.47	39.50	0.46	
C3-Naphthalenes	50.70	0.70	30.09	0.69	
C4-Naphthalenes	41.64	0.70	20.29	0.69	
Biphenyl	1.41	0.39	2.26	0.38	
Acenaphthylene	10.81	0.25	6.47	0.24	
Acenaphthene	7.28	0.25	10.55	0.24	
Fluorene	5.82	0.37	6.04	0.36	
C1-Fluorenes	7.30	0.73	4.93	0.72	
C2-Fluorenes	12.64	0.73	7.37	0.72	
C3-Fluorenes	8.66	0.73	5.74	0.72	
Phenanthrene	10.25	0.34	12.44	0.34	
Anthracene	54.61	0.29	22.39	0.28	
C1-Phenanthrenes/Anthracenes	14.01	0.31	7.68	0.30	
C2-Phenanthrenes/Anthracenes	9.80	0.31	4.86	0.30	
C3-Phenanthrenes/Anthracenes	14.86	0.31	6.78	0.30	
C4-Phenanthrenes/Anthracenes	5.11	0.31	1.48	0.30	
Dibenzothiophene	3.74	0.13	1.88	0.12	
C1-Dibenzothiophenes	7.80	0.25	4.16	0.25	
C2-Dibenzothiophenes	9.78	0.25	5.37	0.25	
C3-Dibenzothiophenes	8.50	0.25	3.30	0.25	
Fluoranthene	5.87	0.31	3.54	0.31	
Pyrene	3.24	0.34	2.21	0.33	
C1-Fluoranthenes/Pyrenes	7.80	0.65	2.80	0.64	
C2-Fluoranthenes/Pyrenes	5.87	0.65	2.52	0.64	
C3-Fluoranthenes/Pyrenes	2.11	0.65	0.00	0.64	ND
Benzo(a)anthracene	1.72	0.32	1.12	0.32	
Chrysene	4.52	0.25	1.81	0.25	
C1-Chrysenes	1.74	0.51	0.77	0.50	
C2-Chrysenes	1.62	0.51	1.33	0.50	
C3-Chrysenes	0.00	0.51	0.00	0.50	ND
C4-Chrysenes	0.00	0.51	0.00	0.50	ND
Benzo(b)fluoranthene	0.37	0.58	0.26	0.57	J
Benzo(k)fluoranthene	0.07	0.40	2.04	0.39	
Benzo(e)pyrene	0.35	0.32	0.26	0.31	J
Benzo(a)pyrene	0.00	0.63	0.00	0.62	ND
Perylene	0.00	0.15	0.00	0.14	ND
Indeno(1,2,3-c,d)pyrene	0.00	0.59	0.00	0.58	ND
Dibenz(a,h)anthracene	0.00	0.31	0.00	0.31	ND
Benzo(g,h,i)perylene	0.13	0.49	0.10	0.49	J
2-Methylnaphthalene	25.56	0.36	21.00	0.35	
1-Methylnaphthalene	19.86	0.44	15.68	0.44	
2,6-Dimethylnaphthalene	6.76	0.23	6.69	0.23	
1,6,7-Trimethylnaphthalene	5.88	0.35	6.36	0.35	
1-Methylphenanthrene	2.34	0.15	0.97	0.15	

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID	TI3-C-03
Sample Descriptor	1022
Original Sample	
GERG ID	C45344
Sample Type	TI3-C-03
SDG	F1179
<hr/>	
Dry Weight	3.32
Wet Weight	10.55
Sample Size Units	Grams
Matrix	Tissue
% solid	31.5
% Lipid	27.5
Reporting Units	ng/g
Calculation Basis (dry/wet)	Wet
<hr/>	
QC Batch ID	T1465
Method	GCMS
Collection Date	12/16/04
Receive Date	12/18/04
Extraction Date	01/06/05
Analysis Date	01/15/05
<hr/>	
Surrogate Compounds	%Recovery
d8-Naphthalene	72.7
d10-Acenaphthene	97.2
d10-Phenanthrene	64.7
d12-Chrysene	59.3
d12-Perylene	75.7
<hr/>	
Total PAHs	Concentration
Total PAHs with Perylene	464.3
Total PAHs without Perylene	464.3
Total NS&T PAHs	186.6
<hr/>	

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Client Sample ID	TI3-C-03
Sample Descriptor	1022
Original Sample	
GERG ID	C45344
Sample Type	TI3-C-03
SDG	F1179

PAH Compounds	Concentration	MDL	
Naphthalene	21.00	0.50	
C1-Naphthalenes	42.69	0.87	
C2-Naphthalenes	70.73	0.50	
C3-Naphthalenes	61.84	0.76	
C4-Naphthalenes	42.45	0.76	
Biphenyl	3.25	0.42	
Acenaphthylene	11.79	0.27	
Acenaphthene	28.87	0.27	
Fluorene	11.08	0.39	
C1-Fluorenes	10.47	0.79	
C2-Fluorenes	12.29	0.79	
C3-Fluorenes	8.76	0.79	
Phenanthrene	13.17	0.37	
Anthracene	37.89	0.31	
C1-Phenanthrenes/Anthracenes	15.89	0.33	
C2-Phenanthrenes/Anthracenes	6.64	0.33	
C3-Phenanthrenes/Anthracenes	11.37	0.33	
C4-Phenanthrenes/Anthracenes	3.52	0.33	
Dibenzothiophene	4.56	0.14	
C1-Dibenzothiophenes	6.72	0.27	
C2-Dibenzothiophenes	5.87	0.27	
C3-Dibenzothiophenes	3.76	0.27	
Fluoranthene	7.10	0.34	
Pyrene	4.61	0.36	
C1-Fluoranthenes/Pyrenes	5.45	0.70	
C2-Fluoranthenes/Pyrenes	5.07	0.70	
C3-Fluoranthenes/Pyrenes	0.00	0.70	ND
Benzo(a)anthracene	1.72	0.35	
Chrysene	2.32	0.27	
C1-Chrysenes	1.59	0.55	
C2-Chrysenes	0.58	0.55	
C3-Chrysenes	0.00	0.55	ND
C4-Chrysenes	0.00	0.55	ND
Benzo(b)fluoranthene	0.35	0.63	J
Benzo(k)fluoranthene	0.46	0.43	
Benzo(e)pyrene	0.28	0.34	J
Benzo(a)pyrene	0.00	0.68	ND
Perylene	0.00	0.16	ND
Indeno(1,2,3-c,d)pyrene	0.00	0.64	ND
Dibenz(a,h)anthracene	0.00	0.34	ND
Benzo(g,h,i)perylene	0.14	0.53	J
2-Methylnaphthalene	24.75	0.39	
1-Methylnaphthalene	17.94	0.48	
2,6-Dimethylnaphthalene	10.87	0.25	
1,6,7-Trimethylnaphthalene	13.50	0.38	
1-Methylphenanthrene	1.72	0.16	

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

Appendix G.3. Striped Bass tissue data.

ATHOS I Oil Spill

Source	NJ DEP	NJ DEP
Client Sample ID	NJDB-01	NJDB-02
Sample Descriptor	Fillet	Fillet
Original Sample		
GERG ID	C46568	C46570
Sample Type	SAMP	SAMP
SDG	F7234	F7234
Dry Weight	2.13	2.39
Wet Weight	10.04	10.27
Sample Size Units	Grams	Grams
Matrix	tissue	tissue
% solid	21.3	23.3
% Lipid	3.7	7.2
Reporting Units	ng/g	ng/g
Calculation Basis (dry/wet)	Wet	Wet
QC Batch ID	T1499	T1499
Method	GCMS	GCMS
Collection Date	05/03/05	05/03/05
Receive Date	07/21/05	07/21/05
Extraction Date	08/30/05	08/30/05
Analysis Date	09/10/05	09/10/05
Surrogate Compounds	%Recovery	%Recovery
d8-Naphthalene	49.5	46.3
d10-Acenaphthene	64.3	68.1
d10-Phenanthrene	70.2	75.6
d12-Chrysene	62.8	64.5
d12-Perylene	66.6	69.6
Total PAHs	Concentration	Concentration
Total PAHs with Perylene	10.4	10.2
Total PAHs without Perylene	10.3	10.1
Total NS&T PAHs	5.2	7.1

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

ATHOS I Oil Spill

Client Sample ID	NJDB-01	NJDB-02
Sample Descriptor	Fillet	Fillet
Original Sample		
GERG ID	C46568	C46570
Sample Type	SAMP	SAMP
SDG	F7234	F7234

PAH Compounds	Concentration	MDL		Concentration	MDL	
Naphthalene	1.13	0.53		1.21	0.52	
C1-Naphthalenes	1.11	0.91		1.49	0.89	
C2-Naphthalenes	0.00	0.53	ND	1.17	0.52	
C3-Naphthalenes	0.00	0.80	ND	0.00	0.78	ND
C4-Naphthalenes	4.12	0.80		0.00	0.78	ND
Biphenyl	0.41	0.44	J	0.45	0.43	
Acenaphthylene	0.41	0.28		1.05	0.27	
Acenaphthene	0.23	0.28	J	0.32	0.27	
Fluorene	0.54	0.41		0.59	0.41	
C1-Fluorenes	0.00	0.83	ND	0.00	0.81	ND
C2-Fluorenes	0.00	0.83	ND	0.00	0.81	ND
C3-Fluorenes	0.00	0.83	ND	0.00	0.81	ND
Phenanthrene	0.37	0.39	J	0.56	0.38	
Anthracene	0.65	0.33		1.61	0.32	
C1-Phenanthrenes/Anthracenes	0.46	0.35		0.59	0.34	
C2-Phenanthrenes/Anthracenes	0.00	0.35	ND	0.00	0.34	ND
C3-Phenanthrenes/Anthracenes	0.00	0.35	ND	0.00	0.34	ND
C4-Phenanthrenes/Anthracenes	0.00	0.35	ND	0.00	0.34	ND
Dibenzothiophene	0.12	0.14	J	0.15	0.14	
C1-Dibenzothiophenes	0.00	0.28	ND	0.00	0.28	ND
C2-Dibenzothiophenes	0.00	0.28	ND	0.00	0.28	ND
C3-Dibenzothiophenes	0.00	0.28	ND	0.00	0.28	ND
Fluoranthene	0.13	0.35	J	0.13	0.35	J
Pyrene	0.11	0.38	J	0.25	0.37	J
C1-Fluoranthenes/Pyrenes	0.00	0.73	ND	0.00	0.72	ND
C2-Fluoranthenes/Pyrenes	0.00	0.73	ND	0.00	0.72	ND
C3-Fluoranthenes/Pyrenes	0.00	0.73	ND	0.00	0.72	ND
Benzo(a)anthracene	0.06	0.37	J	0.20	0.36	J
Chrysene	0.00	0.29	ND	0.00	0.28	ND
C1-Chrysenes	0.00	0.57	ND	0.00	0.56	ND
C2-Chrysenes	0.00	0.57	ND	0.00	0.56	ND
C3-Chrysenes	0.00	0.57	ND	0.00	0.56	ND
C4-Chrysenes	0.00	0.57	ND	0.00	0.56	ND
Benzo(b)fluoranthene	0.07	0.66	J	0.00	0.65	ND
Benzo(k)fluoranthene	0.14	0.45	J	0.10	0.44	J
Benzo(e)pyrene	0.05	0.36	J	0.05	0.35	J
Benzo(a)pyrene	0.07	0.71	J	0.05	0.70	J
Perylene	0.10	0.16	J	0.08	0.16	J
Indeno(1,2,3-c,d)pyrene	0.04	0.68	J	0.06	0.66	J
Dibenz(a,h)anthracene	0.01	0.36	J	0.04	0.35	J
Benzo(g,h,i)perylene	0.03	0.56	J	0.03	0.55	J
2-Methylnaphthalene	0.69	0.41		0.91	0.40	
1-Methylnaphthalene	0.42	0.50	J	0.58	0.49	
2,6-Dimethylnaphthalene	0.17	0.26	J	0.11	0.26	J
1,6,7-Trimethylnaphthalene	0.09	0.40	J	0.11	0.39	J
1-Methylphenanthrene	0.08	0.17	J	0.00	0.17	ND

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

ATHOS I Oil Spill

Source	NJ DEP	NJ DEP
Client Sample ID	NJDB-03	NJDB-04
Sample Descriptor	Fillet	Fillet
Original Sample		
GERG ID	C46572	C46574
Sample Type	SAMP	SAMP
SDG	F7234	F7234
<hr/>		
Dry Weight	2.29	2.11
Wet Weight	10.00	10.32
Sample Size Units	Grams	Grams
Matrix	tissue	tissue
% solid	22.9	20.5
% Lipid	2.2	4.4
Reporting Units	ng/g	ng/g
Calculation Basis (dry/wet)	Wet	Wet
<hr/>		
QC Batch ID	T1499	T1499
Method	GCMS	GCMS
Collection Date	05/10/05	05/10/05
Receive Date	07/21/05	07/21/05
Extraction Date	08/30/05	08/30/05
Analysis Date	09/10/05	09/10/05
<hr/>		
Surrogate Compounds	%Recovery	%Recovery
d8-Naphthalene	68.4	51.4
d10-Acenaphthene	75.7	66.8
d10-Phenanthrene	79.2	74.9
d12-Chrysene	72.3	66.0
d12-Perylene	75.0	66.2
<hr/>		
Total PAHs	Concentration	Concentration
Total PAHs with Perylene	11.1	7.2
Total PAHs without Perylene	11.1	7.2
Total NS&T PAHs	5.7	5.8

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

ATHOS I Oil Spill

Client Sample ID	NJDB-03	NJDB-04
Sample Descriptor	Fillet	Fillet
Original Sample		
GERG ID	C46572	C46574
Sample Type	SAMP	SAMP
SDG	F7234	F7234

PAH Compounds	Concentration	MDL		Concentration	MDL	
Naphthalene	1.70	0.53		1.33	0.52	
C1-Naphthalenes	1.96	0.92		1.32	0.89	
C2-Naphthalenes	0.70	0.53		1.07	0.51	
C3-Naphthalenes	0.00	0.80	ND	0.00	0.78	ND
C4-Naphthalenes	4.32	0.80		0.00	0.78	ND
Biphenyl	0.36	0.44	J	0.39	0.43	J
Acenaphthylene	0.18	0.28	J	0.25	0.27	J
Acenaphthene	0.12	0.28	J	0.17	0.27	J
Fluorene	0.30	0.42	J	0.42	0.40	
C1-Fluorenes	0.00	0.83	ND	0.00	0.81	ND
C2-Fluorenes	0.00	0.83	ND	0.00	0.81	ND
C3-Fluorenes	0.00	0.83	ND	0.00	0.81	ND
Phenanthrene	0.39	0.39		0.37	0.38	J
Anthracene	0.30	0.33	J	0.48	0.32	
C1-Phenanthrenes/Anthracenes	0.22	0.35		0.64	0.34	
C2-Phenanthrenes/Anthracenes	0.00	0.35	ND	0.00	0.34	ND
C3-Phenanthrenes/Anthracenes	0.00	0.35	ND	0.00	0.34	ND
C4-Phenanthrenes/Anthracenes	0.00	0.35	ND	0.00	0.34	ND
Dibenzothiophene	0.10	0.14	J	0.11	0.14	J
C1-Dibenzothiophenes	0.00	0.29	ND	0.00	0.28	ND
C2-Dibenzothiophenes	0.00	0.29	ND	0.00	0.28	ND
C3-Dibenzothiophenes	0.00	0.29	ND	0.00	0.28	ND
Fluoranthene	0.11	0.35	J	0.13	0.34	J
Pyrene	0.09	0.38	J	0.21	0.37	J
C1-Fluoranthenes/Pyrenes	0.00	0.74	ND	0.00	0.71	ND
C2-Fluoranthenes/Pyrenes	0.00	0.74	ND	0.00	0.71	ND
C3-Fluoranthenes/Pyrenes	0.00	0.74	ND	0.00	0.71	ND
Benzo(a)anthracene	0.00	0.37	ND	0.00	0.36	ND
Chrysene	0.00	0.29	ND	0.00	0.28	ND
C1-Chrysenes	0.00	0.58	ND	0.00	0.56	ND
C2-Chrysenes	0.00	0.58	ND	0.00	0.56	ND
C3-Chrysenes	0.00	0.58	ND	0.00	0.56	ND
C4-Chrysenes	0.00	0.58	ND	0.00	0.56	ND
Benzo(b)fluoranthene	0.01	0.67	J	0.01	0.65	J
Benzo(k)fluoranthene	0.10	0.45	J	0.11	0.44	J
Benzo(e)pyrene	0.03	0.36	J	0.04	0.35	J
Benzo(a)pyrene	0.00	0.72	ND	0.05	0.69	J
Perylene	0.03	0.17	J	0.08	0.16	J
Indeno(1,2,3-c,d)pyrene	0.03	0.68	J	0.02	0.66	J
Dibenz(a,h)anthracene	0.02	0.36	J	0.02	0.35	J
Benzo(g,h,i)perylene	0.01	0.56	J	0.01	0.54	J
2-Methylnaphthalene	1.27	0.41		0.78	0.40	
1-Methylnaphthalene	0.69	0.51		0.54	0.49	
2,6-Dimethylnaphthalene	0.16	0.27	J	0.12	0.26	J
1,6,7-Trimethylnaphthalene	0.07	0.40	J	0.14	0.39	J
1-Methylphenanthrene	0.09	0.17	J	0.69	0.17	

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

ATHOS I Oil Spill

Source	NJ DEP	NJ DEP
Client Sample ID	NJDB-05	NJDB-05
Sample Descriptor	Fillet	Fillet
Original Sample		C46576
GERG ID	C46576	Q22251
Sample Type	SAMP	DUP
SDG	F7234	F7234
<hr/>		
Dry Weight	2.39	2.35
Wet Weight	10.05	10.09
Sample Size Units	Grams	Grams
Matrix	tissue	
% solid	23.7	23.3
% Lipid	8.9	9.5
Reporting Units	ng/g	ng/g
Calculation Basis (dry/wet)	Wet	Wet
<hr/>		
QC Batch ID	T1499	T1499
Method	GCMS	GCMS
Collection Date	05/11/05	05/11/05
Receive Date	07/21/05	07/21/05
Extraction Date	08/30/05	08/30/05
Analysis Date	09/10/05	09/10/05
<hr/>		
Surrogate Compounds	%Recovery	% Recovery
d8-Naphthalene	49.7	54.3
d10-Acenaphthene	68.4	70.6
d10-Phenanthrene	69.9	79.1
d12-Chrysene	63.8	68.3
d12-Perylene	66.9	73.0
<hr/>		
Total PAHs	Concentration	Concentration
Total PAHs with Perylene	13.5	15.7
Total PAHs without Perylene	13.4	15.6
Total NS&T PAHs	8.4	9.1

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

ATHOS I Oil Spill

Client Sample ID	NJDB-05	NJDB-05
Sample Descriptor	Fillet	Fillet
Original Sample		C46576
GERG ID	C46576	Q22251
Sample Type	SAMP	DUP
SDG	F7234	F7234

PAH Compounds	Concentration	MDL	Concentration	MDL	
Naphthalene	2.01	0.53	2.17	0.53	
C1-Naphthalenes	2.53	0.91	2.78	0.91	
C2-Naphthalenes	1.61	0.53	1.64	0.53	
C3-Naphthalenes	0.00	0.80	0.00	0.80	ND
C4-Naphthalenes	0.00	0.80	0.00	0.80	ND
Biphenyl	0.44	0.44	0.52	0.44	
Acenaphthylene	0.42	0.28	0.57	0.28	
Acenaphthene	0.27	0.28	0.29	0.28	
Fluorene	0.60	0.41	0.72	0.41	
C1-Fluorenes	2.66	0.83	2.86	0.83	
C2-Fluorenes	0.00	0.83	0.00	0.83	ND
C3-Fluorenes	0.00	0.83	0.00	0.83	ND
Phenanthrene	0.60	0.39	0.65	0.39	
Anthracene	1.14	0.33	1.05	0.33	
C1-Phenanthrenes/Anthracenes	0.30	0.35	1.15	0.34	
C2-Phenanthrenes/Anthracenes	0.00	0.35	0.00	0.34	ND
C3-Phenanthrenes/Anthracenes	0.00	0.35	0.00	0.34	ND
C4-Phenanthrenes/Anthracenes	0.00	0.35	0.00	0.34	ND
Dibenzothiophene	0.20	0.14	0.18	0.14	
C1-Dibenzothiophenes	0.00	0.28	0.00	0.28	ND
C2-Dibenzothiophenes	0.00	0.28	0.00	0.28	ND
C3-Dibenzothiophenes	0.00	0.28	0.00	0.28	ND
Fluoranthene	0.17	0.35	0.19	0.35	J
Pyrene	0.12	0.38	0.23	0.38	J
C1-Fluoranthenes/Pyrenes	0.00	0.73	0.00	0.73	ND
C2-Fluoranthenes/Pyrenes	0.00	0.73		0.73	ND
C3-Fluoranthenes/Pyrenes	0.00	0.73		0.73	ND
Benzo(a)anthracene	0.13	0.36	0.10	0.36	J
Chrysene	0.00	0.29	0.00	0.29	ND
C1-Chrysenes	0.00	0.57	0.00	0.57	ND
C2-Chrysenes	0.00	0.57	0.00	0.57	ND
C3-Chrysenes	0.00	0.57	0.00	0.57	ND
C4-Chrysenes	0.00	0.57	0.00	0.57	ND
Benzo(b)fluoranthene	0.02	0.66	0.08	0.66	J
Benzo(k)fluoranthene	0.09	0.45	0.12	0.45	J
Benzo(e)pyrene	0.00	0.36	0.08	0.36	J
Benzo(a)pyrene	0.03	0.71	0.04	0.71	J
Perylene	0.14	0.16	0.09	0.16	J
Indeno(1,2,3-c,d)pyrene	0.01	0.67	0.05	0.67	J
Dibenz(a,h)anthracene	0.03	0.36	0.02	0.36	J
Benzo(g,h,i)perylene	0.01	0.56	0.09	0.56	J
2-Methylnaphthalene	1.57	0.41	1.75	0.41	
1-Methylnaphthalene	0.96	0.50	1.03	0.50	
2,6-Dimethylnaphthalene	0.18	0.26	0.20	0.26	J
1,6,7-Trimethylnaphthalene	0.09	0.40	0.19	0.40	J
1-Methylphenanthrene	0.00	0.17	0.00	0.17	ND

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

ATHOS I Oil Spill

Source	PA DEP	PA DEP
Client Sample ID	UPTPBFT-A	UPTPBFT-B
Sample Descriptor	Fillet	Fillet
Original Sample		
GERG ID	C46624	C46626
Sample Type	SAMP	SAMP
SDG	F8241	F8241
<hr/>		
Dry Weight	2.32	1.96
Wet Weight	10.25	10.05
Sample Size Units	Grams	Grams
Matrix	Tissue	Tissue
% solid	22.7	19.5
% Lipid	1.6	1.7
Reporting Units	ng/g	ng/g
Calculation Basis (dry/wet)	Wet	Wet
<hr/>		
QC Batch ID	T1499	T1499
Method	GCMS	GCMS
Collection Date	07/06/05	07/06/05
Receive Date	08/04/05	08/04/05
Extraction Date	08/30/05	08/30/05
Analysis Date	09/10/05	09/10/05
<hr/>		
Surrogate Compounds	%Recovery	%Recovery
d8-Naphthalene	45.3	41.0
d10-Acenaphthene	61.7	57.8
d10-Phenanthrene	69.0	72.2
d12-Chrysene	67.3	67.3
d12-Perylene	70.1	63.5
<hr/>		
Total PAHs	Concentration	Concentration
Total PAHs with Perylene	47.8	21.1
Total PAHs without Perylene	47.5	21.0
Total NS&T PAHs	18.4	11.0

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

ATHOS I Oil Spill

Client Sample ID	UPTPBFT-A		UPTPBFT-B		
Sample Descriptor	Fillet		Fillet		
Original Sample					
GERG ID	C46624		C46626		
Sample Type	SAMP		SAMP		
SDG	F8241		F8241		
PAH Compounds	Concentration	MDL	Concentration	MDL	
Naphthalene	1.53	0.52	2.33	0.53	
C1-Naphthalenes	4.95	0.89	2.61	0.91	
C2-Naphthalenes	7.31	0.52	1.45	0.53	
C3-Naphthalenes	6.92	0.78	0.00	0.80	ND
C4-Naphthalenes	4.22	0.78	0.00	0.80	ND
Biphenyl	0.56	0.43	0.33	0.44	J
Acenaphthylene	0.21	0.27	J	0.79	0.28
Acenaphthene	1.19	0.27	0.42	0.28	
Fluorene	2.39	0.41	0.54	0.41	
C1-Fluorenes	3.43	0.81	0.00	0.83	ND
C2-Fluorenes	2.24	0.81	2.85	0.83	
C3-Fluorenes	3.07	0.81	2.84	0.83	
Phenanthrene	3.11	0.38	0.71	0.39	
Anthracene	1.29	0.32	1.20	0.33	
C1-Phenanthrenes/Anthracenes	0.90	0.34	1.29	0.35	
C2-Phenanthrenes/Anthracenes	0.00	0.34	ND	0.35	ND
C3-Phenanthrenes/Anthracenes	0.00	0.34	ND	0.35	ND
C4-Phenanthrenes/Anthracenes	0.00	0.34	ND	0.35	ND
Dibenzothiophene	0.59	0.14	0.13	0.14	J
C1-Dibenzothiophenes	0.51	0.28	0.00	0.28	ND
C2-Dibenzothiophenes	0.00	0.28	ND	0.28	ND
C3-Dibenzothiophenes	0.00	0.28	ND	0.28	ND
Fluoranthene	0.84	0.35	0.68	0.35	
Pyrene	0.34	0.37	J	0.38	
C1-Fluoranthenes/Pyrenes	0.00	0.72	ND	0.73	ND
C2-Fluoranthenes/Pyrenes	0.00	0.72	ND	0.73	ND
C3-Fluoranthenes/Pyrenes	0.00	0.72	ND	0.73	ND
Benzo(a)anthracene	0.11	0.36	J	0.36	J
Chrysene	0.10	0.28	J	0.29	J
C1-Chrysenes	0.00	0.56	ND	0.57	ND
C2-Chrysenes	0.00	0.56	ND	0.57	ND
C3-Chrysenes	0.00	0.56	ND	0.57	ND
C4-Chrysenes	0.00	0.56	ND	0.57	ND
Benzo(b)fluoranthene	0.09	0.65	J	0.66	J
Benzo(k)fluoranthene	0.23	0.44	J	0.45	J
Benzo(e)pyrene	0.18	0.35	J	0.36	J
Benzo(a)pyrene	0.21	0.70	J	0.71	J
Perylene	0.28	0.16	0.14	0.16	J
Indeno(1,2,3-c,d)pyrene	0.35	0.66	J	0.67	J
Dibenz(a,h)anthracene	0.25	0.35	J	0.36	J
Benzo(g,h,i)perylene	0.38	0.55	J	0.56	J
2-Methylnaphthalene	2.85	0.40	1.63	0.41	
1-Methylnaphthalene	2.10	0.49	0.98	0.50	
2,6-Dimethylnaphthalene	1.04	0.26	0.16	0.26	J
1,6,7-Trimethylnaphthalene	1.14	0.39	0.20	0.40	J
1-Methylphenanthrene	0.00	0.17	ND	0.17	J

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

ATHOS I Oil Spill

Source	PA DEP	PA DEP
Client Sample ID	UPTPBFT-C	UPTPBFT-D
Sample Descriptor	Fillet	Fillet
Original Sample		
GERG ID	C46628	C46630
Sample Type	SAMP	SAMP
SDG	F8241	F8241
<hr/>		
Dry Weight	2.32	2.19
Wet Weight	10.64	10.42
Sample Size Units	Grams	Grams
Matrix	Tissue	Tissue
% solid	21.8	21.1
% Lipid	4.8	2.8
Reporting Units	ng/g	ng/g
Calculation Basis (dry/wet)	Wet	Wet
<hr/>		
QC Batch ID	T1499	T1499
Method	GCMS	GCMS
Collection Date	07/06/05	07/06/05
Receive Date	08/04/05	08/04/05
Extraction Date	08/30/05	08/30/05
Analysis Date	09/10/05	09/10/05
<hr/>		
Surrogate Compounds	%Recovery	%Recovery
d8-Naphthalene	42.3	33.2
d10-Acenaphthene	58.1	57.5
d10-Phenanthrene	67.5	68.5
d12-Chrysene	62.5	63.6
d12-Perylene	58.5	64.0
<hr/>		
Total PAHs	Concentration	Concentration
Total PAHs with Perylene	130.6	13.7
Total PAHs without Perylene	130.5	13.7
Total NS&T PAHs	53.3	8.4
<hr/>		

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

ATHOS I Oil Spill

Client Sample ID	UPTPBFT-C	UPTPBFT-D
Sample Descriptor	Fillet	Fillet
Original Sample		
GERG ID	C46628	C46630
Sample Type	SAMP	SAMP
SDG	F8241	F8241

PAH Compounds	Concentration	MDL	Concentration	MDL	
Naphthalene	2.83	0.50	2.11	0.51	
C1-Naphthalenes	15.70	0.86	2.22	0.88	
C2-Naphthalenes	28.03	0.50	1.44	0.51	
C3-Naphthalenes	20.34	0.75	0.00	0.77	ND
C4-Naphthalenes	10.69	0.75	0.00	0.77	ND
Biphenyl	1.44	0.41	0.30	0.42	J
Acenaphthylene	2.30	0.26	0.62	0.27	
Acenaphthene	3.58	0.26	0.31	0.27	
Fluorene	6.84	0.39	0.45	0.40	
C1-Fluorenes	9.39	0.78	0.00	0.80	ND
C2-Fluorenes	5.52	0.78	0.00	0.80	ND
C3-Fluorenes	0.00	0.78	0.00	0.80	ND
Phenanthrene	7.83	0.37	0.51	0.37	
Anthracene	5.94	0.31	1.34	0.32	
C1-Phenanthrenes/Anthracenes	5.30	0.33	3.19	0.33	
C2-Phenanthrenes/Anthracenes	0.00	0.33	0.00	0.33	ND
C3-Phenanthrenes/Anthracenes	0.00	0.33	0.00	0.33	ND
C4-Phenanthrenes/Anthracenes	0.00	0.33	0.00	0.33	ND
Dibenzothiophene	1.04	0.13	0.13	0.14	J
C1-Dibenzothiophenes	0.00	0.27	0.00	0.27	ND
C2-Dibenzothiophenes	0.00	0.27	0.00	0.27	ND
C3-Dibenzothiophenes	0.00	0.27	0.00	0.27	ND
Fluoranthene	1.84	0.33	0.27	0.34	J
Pyrene	0.74	0.36	0.21	0.37	J
C1-Fluoranthenes/Pyrenes	0.00	0.69	0.00	0.71	ND
C2-Fluoranthenes/Pyrenes	0.00	0.69	0.00	0.71	ND
C3-Fluoranthenes/Pyrenes	0.00	0.69	0.00	0.71	ND
Benzo(a)anthracene	0.53	0.34	0.13	0.35	J
Chrysene	0.14	0.27	0.07	0.28	J
C1-Chrysenes	0.00	0.54	0.00	0.55	ND
C2-Chrysenes	0.00	0.54	0.00	0.55	ND
C3-Chrysenes	0.00	0.54	0.00	0.55	ND
C4-Chrysenes	0.00	0.54	0.00	0.55	ND
Benzo(b)fluoranthene	0.11	0.63	0.03	0.64	J
Benzo(k)fluoranthene	0.15	0.43	0.07	0.44	J
Benzo(e)pyrene	0.05	0.34	0.13	0.35	J
Benzo(a)pyrene	0.00	0.67	0.02	0.69	J
Perylene	0.13	0.16	0.05	0.16	J
Indeno(1,2,3-c,d)pyrene	0.07	0.64	0.05	0.65	J
Dibenz(a,h)anthracene	0.04	0.34	0.03	0.34	J
Benzo(g,h,i)perylene	0.02	0.53	0.04	0.54	J
2-Methylnaphthalene	9.34	0.39	1.39	0.39	
1-Methylnaphthalene	6.36	0.48	0.83	0.49	
2,6-Dimethylnaphthalene	5.06	0.25	0.10	0.25	J
1,6,7-Trimethylnaphthalene	3.52	0.38	0.17	0.39	J
1-Methylphenanthrene	0.61	0.16	0.12	0.17	J

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

ATHOS I Oil Spill

Source	PA DEP	DE DNREC
Client Sample ID	UPTPBFT-E	Fish # 1
Sample Descriptor	Fillet	Fillet
Original Sample		
GERG ID	C46632	C46664
Sample Type	SAMP	SAMP
SDG	F8241	F8243
<hr/>		
Dry Weight	4.86	1.94
Wet Weight	10.14	10.24
Sample Size Units	Grams	Grams
Matrix	Tissue	Tissue
% solid	47.9	18.9
% Lipid	0.4	0.6
Reporting Units	ng/g	ng/g
Calculation Basis (dry/wet)	Wet	Wet
<hr/>		
QC Batch ID	T1499	T1499
Method	GCMS	GCMS
Collection Date	07/06/05	05/27/05
Receive Date	08/04/05	08/12/05
Extraction Date	08/30/05	08/30/05
Analysis Date	09/10/05	09/10/05
<hr/>		
Surrogate Compounds	%Recovery	%Recovery
d8-Naphthalene	50.6	48.9
d10-Acenaphthene	66.0	67.7
d10-Phenanthrene	73.9	73.8
d12-Chrysene	71.4	74.3
d12-Perylene	71.1	66.7
<hr/>		
Total PAHs	Concentration	Concentration
Total PAHs with Perylene	16.6	50.8
Total PAHs without Perylene	16.5	50.8
Total NS&T PAHs	7.7	38.9

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

ATHOS I Oil Spill

Client Sample ID	UPTPBFT-E	Fish # 1
Sample Descriptor	Fillet	Fillet
Original Sample		
GERG ID	C46632	C46664
Sample Type	SAMP	SAMP
SDG	F8241	F8243

PAH Compounds	Concentration	MDL	Concentration	MDL
Naphthalene	1.03	0.52	15.60	0.52
C1-Naphthalenes	1.41	0.90	18.71	0.89
C2-Naphthalenes	2.15	0.52	3.89	0.52
C3-Naphthalenes	2.87	0.79	2.88	0.78
C4-Naphthalenes	0.00	0.79	0.00	0.78
Biphenyl	0.35	0.43	0.34	0.43
Acenaphthylene	0.20	0.28	0.84	0.27
Acenaphthene	0.54	0.28	0.27	0.27
Fluorene	0.86	0.41	0.52	0.41
C1-Fluorenes	2.35	0.82	1.97	0.81
C2-Fluorenes	0.00	0.82	1.85	0.81
C3-Fluorenes	0.00	0.82	0.00	0.81
Phenanthrene	1.36	0.38	0.67	0.38
Anthracene	0.70	0.33	0.46	0.32
C1-Phenanthrenes/Anthracenes	0.85	0.34	0.94	0.34
C2-Phenanthrenes/Anthracenes	0.00	0.34	0.00	0.34
C3-Phenanthrenes/Anthracenes	0.00	0.34	0.00	0.34
C4-Phenanthrenes/Anthracenes	0.00	0.34	0.00	0.34
Dibenzothiophene	0.26	0.14	0.07	0.14
C1-Dibenzothiophenes	0.50	0.28	0.00	0.28
C2-Dibenzothiophenes	0.00	0.28	0.00	0.28
C3-Dibenzothiophenes	0.00	0.28	0.00	0.28
Fluoranthene	0.59	0.35	0.52	0.35
Pyrene	0.26	0.38	0.48	0.37
C1-Fluoranthenes/Pyrenes	0.00	0.73	0.00	0.72
C2-Fluoranthenes/Pyrenes	0.00	0.73	0.00	0.72
C3-Fluoranthenes/Pyrenes	0.00	0.73	0.00	0.72
Benzo(a)anthracene	0.07	0.36	0.16	0.36
Chrysene	0.02	0.28	0.06	0.28
C1-Chrysenes	0.00	0.57	0.00	0.56
C2-Chrysenes	0.00	0.57	0.00	0.56
C3-Chrysenes	0.00	0.57	0.00	0.56
C4-Chrysenes	0.00	0.57	0.00	0.56
Benzo(b)fluoranthene	0.00	0.66	0.13	0.65
Benzo(k)fluoranthene	0.07	0.45	0.00	0.44
Benzo(e)pyrene	0.01	0.36	0.11	0.35
Benzo(a)pyrene	0.00	0.71	0.15	0.70
Perylene	0.13	0.16	0.04	0.16
Indeno(1,2,3-c,d)pyrene	0.00	0.67	0.12	0.66
Dibenz(a,h)anthracene	0.02	0.35	0.02	0.35
Benzo(g,h,i)perylene	0.04	0.55	0.01	0.55
2-Methylnaphthalene	0.76	0.40	12.30	0.40
1-Methylnaphthalene	0.65	0.50	6.41	0.49
2,6-Dimethylnaphthalene	0.29	0.26	0.74	0.26
1,6,7-Trimethylnaphthalene	0.25	0.40	0.25	0.39
1-Methylphenanthrene	0.08	0.17	0.05	0.17

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

ATHOS I Oil Spill

Source	DE DNREC	DE DNREC
Client Sample ID	Fish # 2	Fish # 3
Sample Descriptor	Fillet	Fillet
Original Sample		
GERG ID	C46666	C46668
Sample Type	SAMP	SAMP
SDG	F8243	F8243
<hr/>		
Dry Weight	2.10	2.24
Wet Weight	10.08	10.05
Sample Size Units	Grams	Grams
Matrix	Tissue	Tissue
% solid	20.9	22.3
% Lipid	1.3	5.8
Reporting Units	ng/g	ng/g
Calculation Basis (dry/wet)	Wet	Wet
<hr/>		
QC Batch ID	T1499	T1499
Method	GCMS	GCMS
Collection Date	05/27/05	05/27/05
Receive Date	08/12/05	08/12/05
Extraction Date	08/30/05	08/30/05
Analysis Date	09/10/05	09/10/05
<hr/>		
Surrogate Compounds	%Recovery	%Recovery
d8-Naphthalene	44.3	50.5
d10-Acenaphthene	68.4	74.6
d10-Phenanthrene	78.6	77.1
d12-Chrysene	76.7	72.2
d12-Perylene	73.7	62.6
<hr/>		
Total PAHs	Concentration	Concentration
Total PAHs with Perylene	9.7	66.7
Total PAHs without Perylene	9.6	66.6
Total NS&T PAHs	6.2	47.9

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

ATHOS I Oil Spill

Client Sample ID	Fish # 2	Fish # 3
Sample Descriptor	Fillet	Fillet
Original Sample		
GERG ID	C46666	C46668
Sample Type	SAMP	SAMP
SDG	F8243	F8243

PAH Compounds	Concentration	MDL		Concentration	MDL	
Naphthalene	1.67	0.53		20.45	0.53	
C1-Naphthalenes	1.57	0.91		19.09	0.91	
C2-Naphthalenes	1.07	0.53		4.92	0.53	
C3-Naphthalenes	1.02	0.80		2.60	0.80	
C4-Naphthalenes	0.00	0.80	ND	0.00	0.80	ND
Biphenyl	0.25	0.44	J	0.46	0.44	
Acenaphthylene	0.40	0.28		1.97	0.28	
Acenaphthene	0.27	0.28	J	0.60	0.28	
Fluorene	0.51	0.41		0.74	0.41	
C1-Fluorenes	0.00	0.83	ND	0.00	0.83	ND
C2-Fluorenes	0.00	0.83	ND	0.00	0.83	ND
C3-Fluorenes	0.00	0.83	ND	0.00	0.83	ND
Phenanthrene	0.34	0.39	J	0.84	0.39	
Anthracene	0.66	0.33		3.42	0.33	
C1-Phenanthrenes/Anthracenes	0.89	0.35		9.54	0.35	
C2-Phenanthrenes/Anthracenes	0.00	0.35	ND	0.04	0.35	J
C3-Phenanthrenes/Anthracenes	0.00	0.35	ND	0.00	0.35	ND
C4-Phenanthrenes/Anthracenes	0.00	0.35	ND	0.00	0.35	ND
Dibenzothiophene	0.08	0.14	J	0.22	0.14	
C1-Dibenzothiophenes	0.00	0.28	ND	0.00	0.28	ND
C2-Dibenzothiophenes	0.00	0.28	ND	0.00	0.28	ND
C3-Dibenzothiophenes	0.00	0.28	ND	0.00	0.28	ND
Fluoranthene	0.22	0.35	J	0.56	0.35	
Pyrene	0.25	0.38	J	0.61	0.38	
C1-Fluoranthenes/Pyrenes	0.00	0.73	ND	0.00	0.73	ND
C2-Fluoranthenes/Pyrenes	0.00	0.73	ND	0.00	0.73	ND
C3-Fluoranthenes/Pyrenes	0.00	0.73	ND	0.00	0.73	ND
Benzo(a)anthracene	0.11	0.36	J	0.17	0.36	J
Chrysene	0.05	0.29	J	0.10	0.29	J
C1-Chrysenes	0.00	0.57	ND	0.00	0.57	ND
C2-Chrysenes	0.00	0.57	ND	0.00	0.57	ND
C3-Chrysenes	0.00	0.57	ND	0.00	0.57	ND
C4-Chrysenes	0.00	0.57	ND	0.00	0.57	ND
Benzo(b)fluoranthene	0.02	0.66	J	0.11	0.66	J
Benzo(k)fluoranthene	0.10	0.45	J	0.09	0.45	J
Benzo(e)pyrene	0.05	0.36	J	0.04	0.36	J
Benzo(a)pyrene	0.04	0.71	J	0.00	0.71	ND
Perylene	0.04	0.16	J	0.05	0.16	J
Indeno(1,2,3-c,d)pyrene	0.01	0.67	J	0.01	0.67	J
Dibenz(a,h)anthracene	0.03	0.36	J	0.00	0.36	ND
Benzo(g,h,i)perylene	0.00	0.56	ND	0.02	0.56	J
2-Methylnaphthalene	0.96	0.41		12.62	0.41	
1-Methylnaphthalene	0.61	0.50		6.47	0.50	
2,6-Dimethylnaphthalene	0.12	0.26	J	0.75	0.26	
1,6,7-Trimethylnaphthalene	0.18	0.40	J	0.31	0.40	J
1-Methylphenanthrene	0.00	0.17	ND	0.00	0.17	ND

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

ATHOS I Oil Spill

Source	DE DNREC	DE DNREC
Client Sample ID	Fish # 4	Fish # 5
Sample Descriptor	Fillet	Fillet
Original Sample		
GERG ID	C46670	C46672
Sample Type	SAMP	SAMP
SDG	F8243	F8243
<hr/>		
Dry Weight	2.45	2.18
Wet Weight	10.01	10.26
Sample Size Units	Grams	Grams
Matrix	Tissue	Tissue
% solid	24.5	21.2
% Lipid	16.4	2.2
Reporting Units	ng/g	ng/g
Calculation Basis (dry/wet)	Wet	Wet
<hr/>		
QC Batch ID	T1499	T1499
Method	GCMS	GCMS
Collection Date	05/31/05	05/31/05
Receive Date	08/12/05	08/12/05
Extraction Date	08/30/05	08/30/05
Analysis Date	09/10/05	09/10/05
<hr/>		
Surrogate Compounds	%Recovery	%Recovery
d8-Naphthalene	57.7	58.3
d10-Acenaphthene	64.7	70.3
d10-Phenanthrene	71.4	74.7
d12-Chrysene	66.3	64.4
d12-Perylene	63.3	66.7
<hr/>		
Total PAHs	Concentration	Concentration
Total PAHs with Perylene	98.4	46.2
Total PAHs without Perylene	98.4	46.2
Total NS&T PAHs	60.5	36.7

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

ATHOS I Oil Spill

Client Sample ID	Fish # 4	Fish # 5
Sample Descriptor	Fillet	Fillet
Original Sample		
GERG ID	C46670	C46672
Sample Type	SAMP	SAMP
SDG	F8243	F8243

PAH Compounds	Concentration	MDL	Concentration	MDL	
Naphthalene	18.29	0.53	14.22	0.52	
C1-Naphthalenes	19.15	0.92	16.11	0.89	
C2-Naphthalenes	8.54	0.53	4.06	0.52	
C3-Naphthalenes	11.72	0.80	2.46	0.78	
C4-Naphthalenes	8.69	0.80	0.00	0.78	ND
Biphenyl	0.61	0.44	0.46	0.43	
Acenaphthylene	3.34	0.28	1.47	0.27	
Acenaphthene	2.28	0.28	0.44	0.27	
Fluorene	2.74	0.42	0.65	0.41	
C1-Fluorenes	0.00	0.83	0.00	0.81	ND
C2-Fluorenes	0.00	0.83	0.00	0.81	ND
C3-Fluorenes	0.00	0.83	0.00	0.81	ND
Phenanthrene	2.81	0.39	0.68	0.38	
Anthracene	7.36	0.33	2.03	0.32	
C1-Phenanthrenes/Anthracenes	7.01	0.35	2.02	0.34	
C2-Phenanthrenes/Anthracenes	0.00	0.35	0.00	0.34	ND
C3-Phenanthrenes/Anthracenes	0.00	0.35	0.00	0.34	ND
C4-Phenanthrenes/Anthracenes	0.00	0.35	0.00	0.34	ND
Dibenzothiophene	0.61	0.14	0.20	0.14	
C1-Dibenzothiophenes	0.00	0.29	0.00	0.28	ND
C2-Dibenzothiophenes	0.00	0.29	0.00	0.28	ND
C3-Dibenzothiophenes	0.00	0.29	0.00	0.28	ND
Fluoranthene	2.31	0.35	0.46	0.35	
Pyrene	2.39	0.38	0.60	0.37	
C1-Fluoranthenes/Pyrenes	0.00	0.74	0.00	0.72	ND
C2-Fluoranthenes/Pyrenes	0.00	0.74	0.00	0.72	ND
C3-Fluoranthenes/Pyrenes	0.00	0.74	0.00	0.72	ND
Benzo(a)anthracene	0.32	0.37	0.12	0.36	J
Chrysene	0.11	0.29	0.05	0.28	J
C1-Chrysenes	0.00	0.58	0.00	0.56	ND
C2-Chrysenes	0.00	0.58	0.00	0.56	ND
C3-Chrysenes	0.00	0.58	0.00	0.56	ND
C4-Chrysenes	0.00	0.58	0.00	0.56	ND
Benzo(b)fluoranthene	0.00	0.66	0.01	0.65	J
Benzo(k)fluoranthene	0.02	0.45	0.00	0.44	ND
Benzo(e)pyrene	0.03	0.36	0.09	0.35	J
Benzo(a)pyrene	0.03	0.72	0.02	0.70	J
Perylene	0.02	0.17	0.01	0.16	J
Indeno(1,2,3-c,d)pyrene	0.00	0.68	0.00	0.66	ND
Dibenz(a,h)anthracene	0.04	0.36	0.02	0.35	J
Benzo(g,h,i)perylene	0.02	0.56	0.02	0.55	J
2-Methylnaphthalene	12.60	0.41	10.60	0.40	
1-Methylnaphthalene	6.55	0.51	5.51	0.49	
2,6-Dimethylnaphthalene	2.03	0.26	0.70	0.26	
1,6,7-Trimethylnaphthalene	2.19	0.40	0.28	0.39	J
1-Methylphenanthrene	0.00	0.17	0.00	0.17	ND

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

ATHOS I Oil Spill

Source	NJ DEP	NJ DEP
Client Sample ID	NJDB-01	NJDB-01
Sample Descriptor	Carcass	Carcass
Original Sample		C46569
GERG ID	C46569	Q22256
Sample Type	SAMP	DUP
SDG	F7234	F7234
<hr/>		
Dry Weight	2.35	2.30
Wet Weight	10.11	10.06
Sample Size Units	Grams	Grams
Matrix	Tissue	Tissue
% solid	23.2	22.8
% Lipid	6.9	8.2
Reporting Units	ng/g	ng/g
Calculation Basis (dry/wet)	Wet	Wet
<hr/>		
QC Batch ID	T1500	T1500
Method	GCMS	GCMS
Collection Date	05/03/05	05/11/05
Receive Date	07/21/05	07/21/05
Extraction Date	08/31/05	08/31/05
Analysis Date	09/11/05	09/11/05
<hr/>		
Surrogate Compounds	%Recovery	% Recovery
d8-Naphthalene	63.3	66.2
d10-Acenaphthene	67.4	71.8
d10-Phenanthrene	82.3	88.7
d12-Chrysene	58.6	63.4
d12-Perylene	57.3	67.9
<hr/>		
Total PAHs	Concentration	Concentration
Total PAHs with Perylene	14.0	11.5
Total PAHs without Perylene	13.9	11.4
Total NS&T PAHs	9.8	8.9

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

ATHOS I Oil Spill

Client Sample ID	NJDB-01	NJDB-01
Sample Descriptor	Carcass	Carcass
Original Sample		C46569
GERG ID	C46569	Q22256
Sample Type	SAMP	DUP
SDG	F7234	F7234

PAH Compounds	Concentration	MDL	Concentration	MDL	
Naphthalene	2.59	0.53	2.12	0.53	
C1-Naphthalenes	2.36	0.91	2.00	0.91	
C2-Naphthalenes	1.04	0.52	0.00	0.53	ND
C3-Naphthalenes	0.00	0.79	0.00	0.80	ND
C4-Naphthalenes	0.00	0.79	0.00	0.80	ND
Biphenyl	0.47	0.44	0.52	0.44	
Acenaphthylene	0.97	0.28	1.02	0.28	
Acenaphthene	0.28	0.28	0.24	0.28	J
Fluorene	0.79	0.41	0.74	0.41	
C1-Fluorenes	0.50	0.82	0.00	0.83	ND
C2-Fluorenes	0.00	0.82	0.00	0.83	ND
C3-Fluorenes	0.00	0.82	0.00	0.83	ND
Phenanthrene	0.53	0.38	0.58	0.39	
Anthracene	1.68	0.33	1.62	0.33	
C1-Phenanthrenes/Anthracenes	1.46	0.34	1.26	0.35	
C2-Phenanthrenes/Anthracenes	0.00	0.34	0.00	0.35	ND
C3-Phenanthrenes/Anthracenes	0.00	0.34	0.00	0.35	ND
C4-Phenanthrenes/Anthracenes	0.00	0.34	0.00	0.35	ND
Dibenzothiophene	0.11	0.14	0.11	0.14	J
C1-Dibenzothiophenes	0.00	0.28	0.00	0.28	ND
C2-Dibenzothiophenes	0.00	0.28	0.00	0.28	ND
C3-Dibenzothiophenes	0.00	0.28	0.00	0.28	ND
Fluoranthene	0.16	0.35	0.20	0.35	J
Pyrene	0.12	0.38	0.17	0.38	J
C1-Fluoranthenes/Pyrenes	0.00	0.73	0.00	0.73	ND
C2-Fluoranthenes/Pyrenes	0.00	0.73	0.00	0.73	ND
C3-Fluoranthenes/Pyrenes	0.00	0.73	0.00	0.73	ND
Benzo(a)anthracene	0.22	0.36	0.17	0.36	J
Chrysene	0.06	0.29	0.07	0.29	J
C1-Chrysenes	0.00	0.57	0.00	0.57	ND
C2-Chrysenes	0.00	0.57	0.00	0.57	ND
C3-Chrysenes	0.00	0.57	0.00	0.57	ND
C4-Chrysenes	0.00	0.57	0.00	0.57	ND
Benzo(b)fluoranthene	0.16	0.66	0.13	0.66	J
Benzo(k)fluoranthene	0.05	0.45	0.12	0.45	J
Benzo(e)pyrene	0.07	0.36	0.07	0.36	J
Benzo(a)pyrene	0.08	0.71	0.08	0.71	J
Perylene	0.09	0.16	0.08	0.16	J
Indeno(1,2,3-c,d)pyrene	0.06	0.67	0.04	0.67	J
Dibenz(a,h)anthracene	0.08	0.35	0.01	0.36	J
Benzo(g,h,i)perylene	0.07	0.56	0.10	0.56	J
2-Methylnaphthalene	1.57	0.41	1.28	0.41	
1-Methylnaphthalene	0.79	0.50	0.72	0.50	
2,6-Dimethylnaphthalene	0.21	0.26	0.19	0.26	J
1,6,7-Trimethylnaphthalene	0.09	0.40	0.06	0.40	J
1-Methylphenanthrene	0.00	0.17	0.00	0.17	ND

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

ATHOS I Oil Spill

Source	NJ DEP	NJ DEP
Client Sample ID	NJDB-02	NJDB-03
Sample Descriptor	Carcass	Carcass
Original Sample		
GERG ID	C46571	C46573
Sample Type	SAMP	SAMP
SDG	F7234	F7234
<hr/>		
Dry Weight	3.08	2.40
Wet Weight	10.26	10.26
Sample Size Units	Grams	Grams
Matrix	Tissue	Tissue
% solid	30.0	23.4
% Lipid	12.6	8.9
Reporting Units	ng/g	ng/g
Calculation Basis (dry/wet)	Wet	Wet
<hr/>		
QC Batch ID	T1500	T1500
Method	GCMS	GCMS
Collection Date	05/03/05	05/10/05
Receive Date	07/21/05	07/21/05
Extraction Date	08/31/05	08/31/05
Analysis Date	09/11/05	09/11/05
<hr/>		
Surrogate Compounds	%Recovery	%Recovery
d8-Naphthalene	55.9	59.4
d10-Acenaphthene	62.5	68.7
d10-Phenanthrene	77.5	75.3
d12-Chrysene	51.1	54.9
d12-Perylene	55.7	56.3
<hr/>		
Total PAHs	Concentration	Concentration
Total PAHs with Perylene	27.8	26.2
Total PAHs without Perylene	27.7	26.0
Total NS&T PAHs	16.9	13.8
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ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

ATHOS I Oil Spill

Client Sample ID	NJDB-02	NJDB-03
Sample Descriptor	Carcass	Carcass
Original Sample		
GERG ID	C46571	C46573
Sample Type	SAMP	SAMP
SDG	F7234	F7234

PAH Compounds	Concentration	MDL	Concentration	MDL
Naphthalene	3.77	0.52	3.77	0.52
C1-Naphthalenes	3.79	0.89	4.86	0.89
C2-Naphthalenes	1.53	0.52	1.97	0.52
C3-Naphthalenes	1.91	0.78	2.15	0.78
C4-Naphthalenes	0.00	0.78	0.00	0.78
Biphenyl	0.70	0.43	0.47	0.43
Acenaphthylene	2.16	0.27	0.74	0.27
Acenaphthene	0.70	0.27	0.32	0.27
Fluorene	1.19	0.41	0.97	0.41
C1-Fluorenes	1.08	0.81	0.54	0.81
C2-Fluorenes	0.00	0.81	0.00	0.81
C3-Fluorenes	0.00	0.81	0.00	0.81
Phenanthrene	0.88	0.38	0.89	0.38
Anthracene	3.93	0.32	0.97	0.32
C1-Phenanthrenes/Anthracenes	2.64	0.34	6.58	0.34
C2-Phenanthrenes/Anthracenes	1.32	0.34	0.00	0.34
C3-Phenanthrenes/Anthracenes	0.00	0.34	0.00	0.34
C4-Phenanthrenes/Anthracenes	0.00	0.34	0.00	0.34
Dibenzothiophene	0.15	0.14	0.13	0.14
C1-Dibenzothiophenes	0.00	0.28	0.00	0.28
C2-Dibenzothiophenes	0.00	0.28	0.00	0.28
C3-Dibenzothiophenes	0.00	0.28	0.00	0.28
Fluoranthene	0.29	0.35	0.22	0.35
Pyrene	0.34	0.37	0.28	0.37
C1-Fluoranthenes/Pyrenes	0.00	0.72	0.00	0.72
C2-Fluoranthenes/Pyrenes	0.00	0.72	0.00	0.72
C3-Fluoranthenes/Pyrenes	0.00	0.72	0.00	0.72
Benzo(a)anthracene	0.39	0.36	0.23	0.36
Chrysene	0.08	0.28	0.14	0.28
C1-Chrysenes	0.00	0.56	0.00	0.56
C2-Chrysenes	0.00	0.56	0.00	0.56
C3-Chrysenes	0.00	0.56	0.00	0.56
C4-Chrysenes	0.00	0.56	0.00	0.56
Benzo(b)fluoranthene	0.10	0.65	0.18	0.65
Benzo(k)fluoranthene	0.11	0.44	0.13	0.44
Benzo(e)pyrene	0.11	0.35	0.08	0.35
Benzo(a)pyrene	0.06	0.70	0.00	0.70
Perylene	0.13	0.16	0.17	0.16
Indeno(1,2,3-c,d)pyrene	0.27	0.66	0.21	0.66
Dibenz(a,h)anthracene	0.13	0.35	0.00	0.35
Benzo(g,h,i)perylene	0.07	0.55	0.15	0.55
2-Methylnaphthalene	2.55	0.40	3.16	0.40
1-Methylnaphthalene	1.24	0.49	1.70	0.49
2,6-Dimethylnaphthalene	0.27	0.26	0.27	0.26
1,6,7-Trimethylnaphthalene	0.34	0.39	0.16	0.39
1-Methylphenanthrene	0.11	0.17	0.19	0.17

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

ATHOS I Oil Spill

Source	NJ DEP	NJ DEP
Client Sample ID	NJDB-04	NJDB-05
Sample Descriptor	Carcass	Carcass
Original Sample		
GERG ID	C46575	C46577
Sample Type	SAMP	SAMP
SDG	F7234	F7234
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Dry Weight	3.17	2.71
Wet Weight	10.36	10.10
Sample Size Units	Grams	Grams
Matrix	Tissue	Tissue
% solid	30.6	26.8
% Lipid	12.4	16.4
Reporting Units	ng/g	ng/g
Calculation Basis (dry/wet)	Wet	Wet
<hr/>		
QC Batch ID	T1500	T1500
Method	GCMS	GCMS
Collection Date	05/10/05	05/11/05
Receive Date	07/21/05	07/21/05
Extraction Date	08/31/05	08/31/05
Analysis Date	09/11/05	09/11/05
<hr/>		
Surrogate Compounds	%Recovery	%Recovery
d8-Naphthalene	73.3	64.2
d10-Acenaphthene	73.0	65.7
d10-Phenanthrene	92.2	78.1
d12-Chrysene	56.3	53.2
d12-Perylene	69.8	52.8
<hr/>		
Total PAHs	Concentration	Concentration
Total PAHs with Perylene	53.2	43.4
Total PAHs without Perylene	51.9	42.3
Total NS&T PAHs	26.3	23.7

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

ATHOS I Oil Spill

Client Sample ID	NJDB-04	NJDB-05
Sample Descriptor	Carcass	Carcass
Original Sample		
GERG ID	C46575	C46577
Sample Type	SAMP	SAMP
SDG	F7234	F7234

PAH Compounds	Concentration	MDL		Concentration	MDL	
Naphthalene	3.84	0.51		3.22	0.53	
C1-Naphthalenes	4.38	0.88		3.83	0.91	
C2-Naphthalenes	2.25	0.51		2.38	0.53	
C3-Naphthalenes	2.12	0.77		2.19	0.79	
C4-Naphthalenes	0.00	0.77	ND	0.00	0.79	ND
Biphenyl	0.71	0.42		0.70	0.44	
Acenaphthylene	1.36	0.27		1.15	0.28	
Acenaphthene	0.58	0.27		0.68	0.28	
Fluorene	1.51	0.40		1.45	0.41	
C1-Fluorenes	1.63	0.80		1.03	0.82	
C2-Fluorenes	0.00	0.80	ND	0.00	0.82	ND
C3-Fluorenes	0.00	0.80	ND	0.00	0.82	ND
Phenanthrene	1.92	0.38		1.80	0.39	
Anthracene	2.51	0.32		2.91	0.33	
C1-Phenanthrenes/Anthracenes	12.18	0.34		8.54	0.34	
C2-Phenanthrenes/Anthracenes	2.89	0.34		0.00	0.34	ND
C3-Phenanthrenes/Anthracenes	0.00	0.34	ND	0.00	0.34	ND
C4-Phenanthrenes/Anthracenes	0.00	0.34	ND	0.00	0.34	ND
Dibenzothiophene	0.29	0.14		0.29	0.14	
C1-Dibenzothiophenes	0.00	0.28	ND	0.00	0.28	ND
C2-Dibenzothiophenes	0.00	0.28	ND	0.00	0.28	ND
C3-Dibenzothiophenes	0.00	0.28	ND	0.00	0.28	ND
Fluoranthene	2.43	0.34		1.87	0.35	
Pyrene	1.92	0.37		1.58	0.38	
C1-Fluoranthenes/Pyrenes	0.00	0.71	ND	0.00	0.73	ND
C2-Fluoranthenes/Pyrenes	0.00	0.71	ND	0.00	0.73	ND
C3-Fluoranthenes/Pyrenes	0.00	0.71	ND	0.00	0.73	ND
Benzo(a)anthracene	1.08	0.35		0.81	0.36	
Chrysene	0.79	0.28		0.70	0.29	
C1-Chrysenes	0.00	0.56	ND	0.00	0.57	ND
C2-Chrysenes	0.00	0.56	ND	0.00	0.57	ND
C3-Chrysenes	0.00	0.56	ND	0.00	0.57	ND
C4-Chrysenes	0.00	0.56	ND	0.00	0.57	ND
Benzo(b)fluoranthene	1.25	0.64		1.60	0.66	
Benzo(k)fluoranthene	0.98	0.44		0.54	0.45	
Benzo(e)pyrene	1.05	0.35		0.86	0.36	
Benzo(a)pyrene	1.28	0.69		0.95	0.71	
Perylene	1.34	0.16		1.13	0.16	
Indeno(1,2,3-c,d)pyrene	1.54	0.65		1.60	0.67	
Dibenz(a,h)anthracene	0.30	0.35	J	0.51	0.35	
Benzo(g,h,i)perylene	1.09	0.54		1.09	0.56	
2-Methylnaphthalene	2.89	0.40		2.45	0.41	
1-Methylnaphthalene	1.49	0.49		1.38	0.50	
2,6-Dimethylnaphthalene	0.49	0.26		0.44	0.26	
1,6,7-Trimethylnaphthalene	0.26	0.39	J	0.35	0.40	J
1-Methylphenanthrene	0.12	0.17	J	0.24	0.17	

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

ATHOS I Oil Spill

Source	PA DEP	PA DEP
Client Sample ID	UPTPBFT-A	UPTPBFT-B
Sample Descriptor	Carcass	Carcass
Original Sample		
GERG ID	C46625	C46627
Sample Type	SAMP	SAMP
SDG	F8241	F8241
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Dry Weight	2.76	2.52
Wet Weight	10.02	10.25
Sample Size Units	Grams	Grams
Matrix	Tissue	Tissue
% solid	27.5	24.6
% Lipid	9.0	2.9
Reporting Units	ng/g	ng/g
Calculation Basis (dry/wet)	Wet	Wet
<hr/>		
QC Batch ID	T1500	T1500
Method	GCMS	GCMS
Collection Date	07/06/05	07/06/05
Receive Date	08/04/05	08/04/05
Extraction Date	08/31/05	08/31/05
Analysis Date	09/11/05	09/11/05
<hr/>		
Surrogate Compounds	%Recovery	%Recovery
d8-Naphthalene	58.2	63.9
d10-Acenaphthene	63.9	71.8
d10-Phenanthrene	79.9	87.6
d12-Chrysene	53.5	57.8
d12-Perylene	57.2	63.1
<hr/>		
Total PAHs	Concentration	Concentration
Total PAHs with Perylene	219.0	41.7
Total PAHs without Perylene	219.0	41.6
Total NS&T PAHs	105.5	23.9
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ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

ATHOS I Oil Spill

Client Sample ID	UPTPBFT-A	UPTPBFT-B
Sample Descriptor	Carcass	Carcass
Original Sample		
GERG ID	C46625	C46627
Sample Type	SAMP	SAMP
SDG	F8241	F8241

PAH Compounds	Concentration	MDL	Concentration	MDL
Naphthalene	6.94	0.53	5.62	0.52
C1-Naphthalenes	30.54	0.91	5.76	0.89
C2-Naphthalenes	45.74	0.53	2.65	0.52
C3-Naphthalenes	30.47	0.80	2.24	0.78
C4-Naphthalenes	15.99	0.80	2.25	0.78
Biphenyl	2.68	0.44	0.53	0.43
Acenaphthylene	1.86	0.28	1.27	0.27
Acenaphthene	8.08	0.28	0.76	0.27
Fluorene	14.59	0.42	0.88	0.41
C1-Fluorenes	7.16	0.83	4.40	0.81
C2-Fluorenes	4.05	0.83	0.00	0.81
C3-Fluorenes	0.00	0.83	0.00	0.81
Phenanthrene	17.87	0.39	1.43	0.38
Anthracene	7.56	0.33	2.71	0.32
C1-Phenanthrenes/Anthracenes	5.85	0.35	1.73	0.34
C2-Phenanthrenes/Anthracenes	3.56	0.35	0.00	0.34
C3-Phenanthrenes/Anthracenes	0.00	0.35	0.00	0.34
C4-Phenanthrenes/Anthracenes	0.00	0.35	0.00	0.34
Dibenzothiophene	1.87	0.14	0.18	0.14
C1-Dibenzothiophenes	3.32	0.29	0.70	0.28
C2-Dibenzothiophenes	0.00	0.29	0.00	0.28
C3-Dibenzothiophenes	0.00	0.29	0.00	0.28
Fluoranthene	5.31	0.35	1.45	0.35
Pyrene	1.48	0.38	1.17	0.37
C1-Fluoranthenes/Pyrenes	0.00	0.74	0.00	0.72
C2-Fluoranthenes/Pyrenes	0.00	0.74	0.00	0.72
C3-Fluoranthenes/Pyrenes	0.00	0.74	0.00	0.72
Benzo(a)anthracene	0.34	0.37	0.65	0.36
Chrysene	0.08	0.29	0.65	0.28
C1-Chrysenes	0.00	0.58	0.00	0.56
C2-Chrysenes	0.00	0.58	0.00	0.56
C3-Chrysenes	0.00	0.58	0.00	0.56
C4-Chrysenes	0.00	0.58	0.00	0.56
Benzo(b)fluoranthene	1.80	0.66	1.29	0.65
Benzo(k)fluoranthene	0.13	0.45	0.49	0.44
Benzo(e)pyrene	0.74	0.36	0.61	0.35
Benzo(a)pyrene	0.09	0.71	0.62	0.70
Perylene	0.06	0.17	0.16	0.16
Indeno(1,2,3-c,d)pyrene	0.28	0.68	0.76	0.66
Dibenz(a,h)anthracene	0.29	0.36	0.23	0.35
Benzo(g,h,i)perylene	0.28	0.56	0.52	0.55
2-Methylnaphthalene	18.23	0.41	3.80	0.40
1-Methylnaphthalene	12.31	0.51	1.96	0.49
2,6-Dimethylnaphthalene	7.96	0.26	0.47	0.26
1,6,7-Trimethylnaphthalene	6.34	0.40	0.26	0.39
1-Methylphenanthrene	0.90	0.17	0.24	0.17

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

ATHOS I Oil Spill

Source	PA DEP	PA DEP
Client Sample ID	UPTPBFT-C	UPTPBFT-D
Sample Descriptor	Carcass	Carcass
Original Sample		
GERG ID	C46629	C46631
Sample Type	SAMP	SAMP
SDG	F8241	F8241
<hr/>		
Dry Weight	2.63	2.79
Wet Weight	10.03	10.11
Sample Size Units	Grams	Grams
Matrix	Tissue	Tissue
% solid	26.2	27.6
% Lipid	17.2	10.9
Reporting Units	ng/g	ng/g
Calculation Basis (dry/wet)	Wet	Wet
<hr/>		
QC Batch ID	T1500	T1500
Method	GCMS	GCMS
Collection Date	07/06/05	07/06/05
Receive Date	08/04/05	08/04/05
Extraction Date	08/31/05	08/31/05
Analysis Date	09/11/05	09/11/05
<hr/>		
Surrogate Compounds	%Recovery	%Recovery
d8-Naphthalene	57.0	64.8
d10-Acenaphthene	65.8	67.6
d10-Phenanthrene	67.5	88.1
d12-Chrysene	53.6	61.2
d12-Perylene	57.9	64.3
<hr/>		
Total PAHs	Concentration	Concentration
Total PAHs with Perylene	291.5	60.3
Total PAHs without Perylene	291.4	60.1
Total NS&T PAHs	139.3	27.8

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

ATHOS I Oil Spill

Client Sample ID	UPTPBFT-C		UPTPBFT-D		
Sample Descriptor	Carcass		Carcass		
Original Sample					
GERG ID	C46629		C46631		
Sample Type	SAMP		SAMP		
SDG	F8241		F8241		
PAH Compounds	Concentration	MDL	Concentration	MDL	
Naphthalene	7.80	0.53	4.77	0.53	
C1-Naphthalenes	36.71	0.91	4.83	0.91	
C2-Naphthalenes	52.71	0.53	2.34	0.52	
C3-Naphthalenes	37.23	0.80	2.49	0.79	
C4-Naphthalenes	18.31	0.80	0.00	0.79	ND
Biphenyl	3.20	0.44	0.60	0.44	
Acenaphthylene	6.04	0.28	3.74	0.28	
Acenaphthene	8.53	0.28	0.40	0.28	
Fluorene	15.46	0.41	1.50	0.41	
C1-Fluorenes	14.02	0.83	5.28	0.82	
C2-Fluorenes	0.00	0.83	0.00	0.82	ND
C3-Fluorenes	0.00	0.83	0.00	0.82	ND
Phenanthrene	23.95	0.39	1.55	0.39	
Anthracene	21.66	0.33	9.66	0.33	
C1-Phenanthrenes/Anthracenes	23.38	0.35	12.31	0.34	
C2-Phenanthrenes/Anthracenes	8.66	0.35	6.58	0.34	
C3-Phenanthrenes/Anthracenes	0.00	0.35	0.00	0.34	ND
C4-Phenanthrenes/Anthracenes	0.00	0.35	0.00	0.34	ND
Dibenzothiophene	2.80	0.14	0.33	0.14	
C1-Dibenzothiophenes	0.00	0.28	0.00	0.28	ND
C2-Dibenzothiophenes	0.00	0.28	0.00	0.28	ND
C3-Dibenzothiophenes	0.00	0.28	0.00	0.28	ND
Fluoranthene	6.35	0.35	1.05	0.35	
Pyrene	2.43	0.38	1.29	0.38	
C1-Fluoranthenes/Pyrenes	0.00	0.74	0.00	0.73	ND
C2-Fluoranthenes/Pyrenes	0.00	0.74	0.00	0.73	ND
C3-Fluoranthenes/Pyrenes	0.00	0.74	0.00	0.73	ND
Benzo(a)anthracene	1.33	0.37	0.67	0.36	
Chrysene	0.16	0.29	0.08	0.29	J
C1-Chrysenes	0.00	0.58	0.00	0.57	ND
C2-Chrysenes	0.00	0.58	0.00	0.57	ND
C3-Chrysenes	0.00	0.58	0.00	0.57	ND
C4-Chrysenes	0.00	0.58	0.00	0.57	ND
Benzo(b)fluoranthene	0.31	0.66	0.14	0.66	J
Benzo(k)fluoranthene	0.06	0.45	0.12	0.45	J
Benzo(e)pyrene	0.15	0.36	0.11	0.36	J
Benzo(a)pyrene	0.04	0.71	0.03	0.71	J
Perylene	0.06	0.17	0.15	0.16	J
Indeno(1,2,3-c,d)pyrene	0.13	0.68	0.21	0.67	J
Dibenz(a,h)anthracene	0.00	0.36	0.01	0.35	J
Benzo(g,h,i)perylene	0.00	0.56	0.03	0.56	J
2-Methylnaphthalene	21.95	0.41	3.10	0.41	
1-Methylnaphthalene	14.76	0.50	1.73	0.50	
2,6-Dimethylnaphthalene	9.73	0.26	0.39	0.26	
1,6,7-Trimethylnaphthalene	7.52	0.40	0.61	0.40	
1-Methylphenanthrene	1.71	0.17	0.75	0.17	

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

ATHOS I Oil Spill

Source	PA DEP	DE DNREC
Client Sample ID	UPTPBFT-E	Fish # 1
Sample Descriptor	Carcass	Carcass
Original Sample		
GERG ID	C46633	C46665
Sample Type	SAMP	SAMP
SDG	F8241	F8243
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Dry Weight	2.65	2.44
Wet Weight	10.26	10.01
Sample Size Units	Grams	Grams
Matrix	Tissue	Tissue
% solid	25.8	24.4
% Lipid	4.4	1.1
Reporting Units	ng/g	ng/g
Calculation Basis (dry/wet)	Wet	Wet
<hr/>		
QC Batch ID	T1500	T1500
Method	GCMS	GCMS
Collection Date	07/06/05	05/27/05
Receive Date	08/04/05	08/12/05
Extraction Date	08/31/05	08/31/05
Analysis Date	09/11/05	09/11/05
<hr/>		
Surrogate Compounds	%Recovery	%Recovery
d8-Naphthalene	66.5	66.9
d10-Acenaphthene	72.6	71.1
d10-Phenanthrene	88.3	82.9
d12-Chrysene	59.3	57.5
d12-Perylene	64.4	63.5
<hr/>		
Total PAHs	Concentration	Concentration
Total PAHs with Perylene	62.3	60.1
Total PAHs without Perylene	62.3	60.1
Total NS&T PAHs	30.1	44.4

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

ATHOS I Oil Spill

Client Sample ID	UPTPBFT-E	Fish # 1
Sample Descriptor	Carcass	Carcass
Original Sample		
GERG ID	C46633	C46665
Sample Type	SAMP	SAMP
SDG	F8241	F8243

PAH Compounds	Concentration	MDL	Concentration	MDL	
Naphthalene	2.83	0.52	18.90	0.53	
C1-Naphthalenes	5.68	0.89	20.27	0.92	
C2-Naphthalenes	7.60	0.52	4.13	0.53	
C3-Naphthalenes	6.95	0.78	2.81	0.80	
C4-Naphthalenes	5.24	0.78	3.48	0.80	
Biphenyl	0.73	0.43	0.38	0.44	J
Acenaphthylene	1.23	0.27	1.00	0.28	
Acenaphthene	2.06	0.27	0.34	0.28	
Fluorene	3.56	0.41	0.83	0.42	
C1-Fluorenes	2.00	0.81	3.19	0.83	
C2-Fluorenes	0.00	0.81	ND	0.83	ND
C3-Fluorenes	0.00	0.81	ND	0.83	ND
Phenanthrene	5.06	0.38	0.76	0.39	
Anthracene	4.51	0.32	0.87	0.33	
C1-Phenanthrenes/Anthracenes	7.87	0.34	0.91	0.35	
C2-Phenanthrenes/Anthracenes	2.15	0.34	0.95	0.35	
C3-Phenanthrenes/Anthracenes	0.00	0.34	ND	0.35	ND
C4-Phenanthrenes/Anthracenes	0.00	0.34	ND	0.35	J
Dibenzothiophene	0.62	0.14	0.10	0.14	J
C1-Dibenzothiophenes	0.00	0.28	ND	0.29	ND
C2-Dibenzothiophenes	0.00	0.28	ND	0.29	ND
C3-Dibenzothiophenes	0.00	0.28	ND	0.29	ND
Fluoranthene	2.37	0.35	0.40	0.35	
Pyrene	1.00	0.37	0.41	0.38	
C1-Fluoranthenes/Pyrenes	0.00	0.72	ND	0.74	ND
C2-Fluoranthenes/Pyrenes	0.00	0.72	ND	0.74	ND
C3-Fluoranthenes/Pyrenes	0.00	0.72	ND	0.74	ND
Benzo(a)anthracene	0.26	0.36	J	0.37	J
Chrysene	0.11	0.28	J	0.29	J
C1-Chrysenes	0.00	0.56	ND	0.58	ND
C2-Chrysenes	0.00	0.56	ND	0.58	ND
C3-Chrysenes	0.00	0.56	ND	0.58	ND
C4-Chrysenes	0.00	0.56	ND	0.58	ND
Benzo(b)fluoranthene	0.14	0.65	J	0.66	J
Benzo(k)fluoranthene	0.03	0.44	J	0.45	J
Benzo(e)pyrene	0.11	0.35	J	0.36	J
Benzo(a)pyrene	0.02	0.70	J	0.71	J
Perylene	0.09	0.16	J	0.17	J
Indeno(1,2,3-c,d)pyrene	0.02	0.66	J	0.68	J
Dibenz(a,h)anthracene	0.05	0.35	J	0.36	ND
Benzo(g,h,i)perylene	0.05	0.55	J	0.56	J
2-Methylnaphthalene	3.24	0.40	13.51	0.41	
1-Methylnaphthalene	2.44	0.49	6.76	0.51	
2,6-Dimethylnaphthalene	1.31	0.26	0.93	0.26	
1,6,7-Trimethylnaphthalene	1.18	0.39	0.33	0.40	J
1-Methylphenanthrene	0.35	0.17	0.09	0.17	J

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

ATHOS I Oil Spill

Source	DE DNREC	DE DNREC
Client Sample ID	Fish # 2	Fish # 3
Sample Descriptor	Carcass	Carcass
Original Sample		
GERG ID	C46667	C46669
Sample Type	SAMP	SAMP
SDG	F8243	F8243
<hr/>		
Dry Weight	2.35	2.63
Wet Weight	10.12	10.01
Sample Size Units	Grams	Grams
Matrix	Tissue	Tissue
% solid	23.3	26.3
% Lipid	2.6	13.9
Reporting Units	ng/g	ng/g
Calculation Basis (dry/wet)	Wet	Wet
<hr/>		
QC Batch ID	T1500	T1500
Method	GCMS	GCMS
Collection Date	05/27/05	05/27/05
Receive Date	08/12/05	08/12/05
Extraction Date	08/31/05	08/31/05
Analysis Date	09/11/05	09/11/05
<hr/>		
Surrogate Compounds	%Recovery	%Recovery
d8-Naphthalene	63.9	56.3
d10-Acenaphthene	65.6	63.3
d10-Phenanthrene	82.7	75.3
d12-Chrysene	60.9	53.0
d12-Perylene	66.5	50.5
<hr/>		
Total PAHs	Concentration	Concentration
Total PAHs with Perylene	70.4	89.3
Total PAHs without Perylene	70.3	89.3
Total NS&T PAHs	11.5	60.1

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

ATHOS I Oil Spill

Client Sample ID	Fish # 2	Fish # 3
Sample Descriptor	Carcass	Carcass
Original Sample		
GERG ID	C46667	C46669
Sample Type	SAMP	SAMP
SDG	F8243	F8243

PAH Compounds	Concentration	MDL		Concentration	MDL	
Naphthalene	3.01	0.53		19.51	0.53	
C1-Naphthalenes	2.13	0.91		20.02	0.92	
C2-Naphthalenes	1.56	0.52		5.49	0.53	
C3-Naphthalenes	2.24	0.79		5.05	0.80	
C4-Naphthalenes	0.00	0.79	ND	6.14	0.80	
Biphenyl	0.42	0.44	J	0.56	0.44	
Acenaphthylene	0.98	0.28		3.47	0.28	
Acenaphthene	0.48	0.28		1.36	0.28	
Fluorene	0.73	0.41		1.69	0.42	
C1-Fluorenes	4.90	0.82		5.60	0.83	
C2-Fluorenes	0.00	0.82	ND	0.00	0.83	ND
C3-Fluorenes	0.00	0.82	ND	0.00	0.83	ND
Phenanthrene	0.85	0.38		3.84	0.39	
Anthracene	1.67	0.33		8.28	0.33	
C1-Phenanthrenes/Anthracenes	43.77	0.34		4.52	0.35	
C2-Phenanthrenes/Anthracenes	5.70	0.34		0.00	0.35	ND
C3-Phenanthrenes/Anthracenes	0.00	0.34	ND	0.00	0.35	ND
C4-Phenanthrenes/Anthracenes	0.00	0.34	ND	0.00	0.35	ND
Dibenzothiophene	0.11	0.14	J	0.35	0.14	
C1-Dibenzothiophenes	0.00	0.28	ND	0.00	0.29	ND
C2-Dibenzothiophenes	0.00	0.28	ND	0.00	0.29	ND
C3-Dibenzothiophenes	0.00	0.28	ND	0.00	0.29	ND
Fluoranthene	0.43	0.35		1.29	0.35	
Pyrene	0.62	0.38		1.30	0.38	
C1-Fluoranthenes/Pyrenes	0.00	0.73	ND	0.00	0.74	ND
C2-Fluoranthenes/Pyrenes	0.00	0.73	ND	0.00	0.74	ND
C3-Fluoranthenes/Pyrenes	0.00	0.73	ND	0.00	0.74	ND
Benzo(a)anthracene	0.26	0.36	J	0.44	0.37	
Chrysene	0.38	0.29		0.08	0.29	J
C1-Chrysenes	0.00	0.57	ND	0.00	0.58	ND
C2-Chrysenes	0.00	0.57	ND	0.00	0.58	ND
C3-Chrysenes	0.00	0.57	ND	0.00	0.58	ND
C4-Chrysenes	0.00	0.57	ND	0.00	0.58	ND
Benzo(b)fluoranthene	0.02	0.66	J	0.10	0.67	J
Benzo(k)fluoranthene	0.00	0.45	ND	0.00	0.45	ND
Benzo(e)pyrene	0.02	0.36	J	0.08	0.36	J
Benzo(a)pyrene	0.04	0.71	J	0.13	0.72	J
Perylene	0.07	0.16	J	0.04	0.17	J
Indeno(1,2,3-c,d)pyrene	0.00	0.67	ND	0.00	0.68	ND
Dibenz(a,h)anthracene	0.00	0.35	ND	0.00	0.36	ND
Benzo(g,h,i)perylene	0.00	0.56	ND	0.00	0.56	ND
2-Methylnaphthalene	1.41	0.41		13.27	0.41	
1-Methylnaphthalene	0.72	0.50		6.75	0.51	
2,6-Dimethylnaphthalene	0.25	0.26	J	1.04	0.27	
1,6,7-Trimethylnaphthalene	0.26	0.40	J	0.78	0.40	
1-Methylphenanthrene	0.09	0.17	J	0.46	0.17	

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

ATHOS I Oil Spill

Source	DE DNREC	DE DNREC
Client Sample ID	Fish # 4	Fish # 5
Sample Descriptor	Carcass	Carcass
Original Sample		
GERG ID	C46671	C46673
Sample Type	SAMP	SAMP
SDG	F8243	F8243
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Dry Weight	3.23	2.69
Wet Weight	10.02	10.15
Sample Size Units	Grams	Grams
Matrix	Tissue	Tissue
% solid	32.2	26.5
% Lipid	18.8	13.8
Reporting Units	ng/g	ng/g
Calculation Basis (dry/wet)	Wet	Wet
<hr/>		
QC Batch ID	T1500	T1500
Method	GCMS	GCMS
Collection Date	05/31/05	05/31/05
Receive Date	08/12/05	08/12/05
Extraction Date	08/31/05	08/31/05
Analysis Date	09/11/05	09/11/05
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Surrogate Compounds	%Recovery	%Recovery
d8-Naphthalene	55.9	59.4
d10-Acenaphthene	62.5	68.7
d10-Phenanthrene	77.5	75.3
d12-Chrysene	51.1	54.9
d12-Perylene	55.7	56.3
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Total PAHs	Concentration	Concentration
Total PAHs with Perylene	26.8	25.6
Total PAHs without Perylene	26.6	25.4
Total NS&T PAHs	16.9	13.8

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution

ATHOS I Oil Spill

Client Sample ID	Fish # 4	Fish # 5
Sample Descriptor	Carcass	Carcass
Original Sample		
GERG ID	C46671	C46673
Sample Type	SAMP	SAMP
SDG	F8243	F8243

PAH Compounds	Concentration	MDL	Concentration	MDL
Naphthalene	3.77	0.53	3.77	0.52
C1-Naphthalenes	3.79	0.91	4.86	0.90
C2-Naphthalenes	1.53	0.53	1.97	0.52
C3-Naphthalenes	1.91	0.80	2.15	0.79
C4-Naphthalenes	0.00	0.80 ND	0.00	0.79 ND
Biphenyl	0.70	0.44	0.47	0.43
Acenaphthylene	2.16	0.28	0.74	0.28
Acenaphthene	0.70	0.28	0.32	0.28
Fluorene	1.19	0.42	0.97	0.41
C1-Fluorenes	0.00	0.83 ND	0.00	0.82 ND
C2-Fluorenes	0.00	0.83 ND	0.00	0.82 ND
C3-Fluorenes	0.00	0.83 ND	0.00	0.82 ND
Phenanthrene	0.88	0.39	0.89	0.38
Anthracene	3.93	0.33	0.97	0.32
C1-Phenanthrenes/Anthracenes	2.64	0.35	6.58	0.34
C2-Phenanthrenes/Anthracenes	1.32	0.35	0.00	0.34 ND
C3-Phenanthrenes/Anthracenes	0.00	0.35 ND	0.00	0.34 ND
C4-Phenanthrenes/Anthracenes	0.00	0.35 ND	0.00	0.34 ND
Dibenzothiophene	0.15	0.14	0.13	0.14 J
C1-Dibenzothiophenes	0.00	0.29 ND	0.00	0.28 ND
C2-Dibenzothiophenes	0.00	0.29 ND	0.00	0.28 ND
C3-Dibenzothiophenes	0.00	0.29 ND	0.00	0.28 ND
Fluoranthene	0.29	0.35 J	0.22	0.35 J
Pyrene	0.34	0.38 J	0.28	0.38 J
C1-Fluoranthenes/Pyrenes	0.00	0.74 ND	0.00	0.73 ND
C2-Fluoranthenes/Pyrenes	0.00	0.74 ND	0.00	0.73 ND
C3-Fluoranthenes/Pyrenes	0.00	0.74 ND	0.00	0.73 ND
Benzo(a)anthracene	0.39	0.37	0.23	0.36 J
Chrysene	0.08	0.29 J	0.14	0.28 J
C1-Chrysenes	0.00	0.58 ND	0.00	0.57 ND
C2-Chrysenes	0.00	0.58 ND	0.00	0.57 ND
C3-Chrysenes	0.00	0.58 ND	0.00	0.57 ND
C4-Chrysenes	0.00	0.58 ND	0.00	0.57 ND
Benzo(b)fluoranthene	0.10	0.66 J	0.18	0.66 J
Benzo(k)fluoranthene	0.11	0.45 J	0.13	0.45 J
Benzo(e)pyrene	0.11	0.36 J	0.08	0.36 J
Benzo(a)pyrene	0.06	0.71 J	0.00	0.71 ND
Perylene	0.13	0.17 J	0.17	0.16
Indeno(1,2,3-c,d)pyrene	0.27	0.68 J	0.21	0.67 J
Dibenz(a,h)anthracene	0.13	0.36 J	0.00	0.35 ND
Benzo(g,h,i)perylene	0.07	0.56 J	0.15	0.55 J
2-Methylnaphthalene	2.55	0.41	3.16	0.40
1-Methylnaphthalene	1.24	0.51	1.70	0.50
2,6-Dimethylnaphthalene	0.27	0.26	0.27	0.26
1,6,7-Trimethylnaphthalene	0.34	0.40 J	0.16	0.40 J
1-Methylphenanthrene	0.11	0.17 J	0.19	0.17

ND Not Detected
 J <MDL
 NA Not Applicable
 Q Results Outside QC
 I Interference
 B Blank Contamination >3xMDL
 D Dilution