APPENDIX E - FISH TISSUE SURVEY LABORATORY RESULTS

B&B Laboratories Project J00136
Report 00-466

Entrix, Inc.
Pepco Oil Spill Project
Polycyclic Aromatic Hydrocarbon Data
Client Submitted Samples

Client Project # 729901

Sample Name	ETX0642.D	ETX0643.D	ETX0644.D	ETX0645.D	ETX0647.D
Client Name	PR-MC-04-1 Carcass	PR-MC-04-2 Carcass	PR-MC-04-3 Carcass	PR-MC-04-4 Carcass	PR-MC-04-1 Fillet
Matrix	Tissue	Tissue	Tissue	Tissue	Tissue
Collection Date	4/12/00	4/12/00	4/12/00	4/12/00	4/12/00
Received Date	4/14/00	4/14/00	4/14/00	4/14/00	4/14/00
Extraction Date	4/14/00	4/14/00	4/14/00	4/14/00	4/14/00
Extraction Batch	ENV 169	ENV 169	ENV 169	ENV 169	ENV 169
Date Acquired	04/17/00	04/17/00	04/17/00	04/18/00	04/17/00
Method	PAH	PAH	PAH	PAH	PAH
Sample Wet Weight (g)	5.7	6.1	5.7	5.3	5.9
% Moisture	74	71	74	75	82
% Dry	26	29	26	25	18
% Lipid Based on Wet Weight	1.5	4.5	2.0	3.0	0.6
% Lipid Based on Dry Weight	5.7	15.4	7.6	12.2	3.4

Target Compounds	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q
Naphthalene	6.4	J	13.2		6.8	J	17.0		3.0	J UB
C1-Naphthalenes	39.9		140		55.3		207		16.7	
C2-Naphthalenes	50.7		133		56.3		229		23.8	
C3-Naphthalenes	29.8		52.7		29.1		96.2		13.4	
C4-Naphthalenes	10.6		15.9		11.3		29.2		2.1	J
Biphenyl	7.8		11.0		7.6		15.0		3.3	J
Acenaphthylene	<1.0	J	<1.0	J	<1.0	J		U	<1.0	J
Acenaphthene	2.0	J	5.9		2.3	J	9.2		1.1	J
Fluorene	4.0		11.1		3.8		17.9		1.6	J
C1-Fluorenes	6.2		10.9		5.1	J	19.7		2.9	J
C2-Fluorenes	3.8	J	4.7	J	3.3	J	10.8			U
C3-Fluorenes	6.3			U		U	5.3	J		U
Anthracene	1.4	J	1.6	J	<1.0	J	2.8	J	<1.0	J
Phenanthrene	6.3		15.2		5.8		27.7		3.5	
C1-Phenanthrenes/Anthracenes	8.9		9.2		5.9	J	19.8		2.7	J
C2-Phenanthrenes/Anthracenes	7.3		3.2	J	4.6	J	14.8			U
C3-Phenanthrenes/Anthracenes	7.9		3.3	J	3.9	J	5.9	J		U
C4-Phenanthrenes/Anthracenes	2.8	J	1.4	J		U	3.5	J		U
Dibenzothiophene	1.6	J	3.5		1.3	J	6.1		<1.0	J
C1-Dibenzothiophenes	2.6	J	3.0	J	2.1	J	5.1			U
C2-Dibenzothiophenes	3.9	J	1.9	J	2.5	J	3.3	J		U
C3-Dibenzothiophenes	2.5	J	1.1	J	1.2	J	2.4	J		U
Fluoranthene	<1.0	J	<1.0	J	<1.0	J	<1.0	J	1.7	J
Pyrene	1.2	J	<1.0	J	<1.0	J	1.5	J	8.2	
C1-Fluoranthenes/Pyrenes	3.0	J	<1.0	J	1.5	J	2.7	J		U
C2-Fluoranthenes/Pyrenes	4.2	J	1.1	J		U	3.2	J		U
C3-Fluoranthenes/Pyrenes	1.1	J		U		U	1.4	J		U
Benz(a)anthracene	1.1	J	<1.0	J	<1.0	J	1.0	J	<1.0	J
Chrysene	1.3	J	<1.0	J	<1.0	J	1.5	J	<1.0	J
C1-Chrysenes	3.1	J		U		U	2.9	J		U
C2-Chrysenes		U		U		U	6.3			U
C3-Chrysenes		U		U		U		U		U
C4-Chrysenes		U		U		U		U		U
Benzo(b)fluoranthene	1.9	UB	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB
Benzo(k)fluoranthene	2.1	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB
Benzo(e)pyrene	1.6	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB
Benzo(a)pyrene	3.1	UB	1.1	J UB	1.8	J UB	<1.0	J UB	<1.0	J UB
Perylene	1.4	J UB	<1.0	J UB	1.5	J UB	<1.0	J UB	1.2	J UB
Indeno(1,2,3-c,d)pyrene	1.7	UB	<1.0	J UB	1.0	J UB	<1.0	J UB	<1.0	J UB
Dibenzo(a,h)anthracene	1.2		<1.0	J	1.5		<1.0	J	<1.0	J
Benzo(g,h,i)perylene	2.1	UB	<1.0	J UB	1.1	J UB	<1.0	J UB	<1.0	J UB
Total PAHs	243		444		217		768		85.2	
Selected Ratios										
D2/P2	0.534		0.594		0.543		0.223		NA	
D3/P3	0.316		0.333		0.308		0.407		NA	
D2/C2	NA		NA		NA		0.524		NA	
D3/C3	NA		NA		NA		NA		NA	
Individual Isomers										
2-Methylnaphthalene	26.1		89.4		37.6		135.0		10.8	
1-Methylnaphthalene	13.8		50.1		17.7		71.9		5.9	
2,6-Dimethylnaphthalene	17.7		47.0		17.9		77.3		7.1	
1,6,7-Trimethylnaphthalene	4.0		8.2		5.0		19.2		1.5	J
1-Methylphenanthrene	1.2	J	1.3	J	0.9	J	3.1		<1.0	J

Surrogate (Su)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)
Naphthalene-d8	86	80	77	85	54
Acenaphthene-d10	97	88	86	98	52
Phenanthrene-d10	87	90	72	86	56
Chrysene-d12	69	69	55	63	49
Perylene-d12	71	50	65	63	64

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

4/18/2000

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B&B Laboratories Project J00136
Report 00-466

Entrix, Inc.
Pepco Oil Spill Project
Polycyclic Aromatic Hydrocarbon Data
Client Submitted Samples

Client Project # 729901

Sample Name	ETX0648.D	ETX0649.D	ETX0652.D	ETX0653.D	ETX0657.D
Client Name	PR-MC-04-2 Fillet	PR-MC-04-3 Fillet	PR-MC-05-1 Carcass	PR-MC-05-2 Carcass	PR-MC-05-1 Fillet
Matrix	Tissue	Tissue	Tissue	Tissue	Tissue
Collection Date	4/12/00	4/12/00	4/12/00	4/12/00	4/12/00
Received Date	4/14/00	4/14/00	4/14/00	4/14/00	4/14/00
Extraction Date	4/14/00	4/14/00	4/14/00	4/14/00	4/14/00
Extraction Batch	ENV 169	ENV 169	ENV 169	ENV 169	ENV 169
Date Acquired	04/17/00	04/17/00	04/17/00	04/17/00	04/17/00
Method	PAH	PAH	PAH	PAH	PAH
Sample Wet Weight (g)	5.5	5.5	5.7	5.3	5.5
% Moisture	80	81	73	73	80
% Dry	20	19	27	27	20
% Lipid Based on Wet Weight	1.3	0.9	1.9	2.3	2.2
% Lipid Based on Dry Weight	6.5	4.6	7.0	8.5	10.8

Target Compounds	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q
Naphthalene	7.6	J	3.7	J UB	11.4		10.9		9.5	
C1-Naphthalenes	83.2		17.2		76.4		63.1		11.4	
C2-Naphthalenes	82.6		17.1		74.6		58.1		4.4	J
C3-Naphthalenes	34.8		9.4		44.6		24.8		1.8	J
C4-Naphthalenes	7.8			U	17.8		6.2			U
Biphenyl	7.6		2.5	J UB	4.4		5.9		1.8	J UB
Acenaphthylene	<1.0	J	<1.0	J	<1.0	J	<1.0	J	1.7	J
Acenaphthene	3.7		<1.0	J	2.9		1.8	J	<1.0	J
Fluorene	7.5		1.2	J	6.6		9.1		3.4	
C1-Fluorenes	8.1		2.2	J	11.7		6.2		1.8	J
C2-Fluorenes	3.1	J		U	10.5			U		U
C3-Fluorenes		U		U		U		U		U
Anthracene	1.1	J	<1.0	J	1.8	J	2.4	J	2.0	J
Phenanthrene	9.8		2.2	J	17.7		8.8		1.6	J
C1-Phenanthrenes/Anthracenes	5.3	J		U	22.2		6.4	J		U
C2-Phenanthrenes/Anthracenes	1.1	J		U	20.2		3.2	J		U
C3-Phenanthrenes/Anthracenes		U		U	7.7		2.5	J		U
C4-Phenanthrenes/Anthracenes		U		U	1.6	J		U		U
Dibenzothiophene	2.4		<1.0	J	2.6		1.9	J	<1.0	J
C1-Dibenzothiophenes	2.3	J		U	4.9		3.4	J		U
C2-Dibenzothiophenes	<1.0	J		U	5.1		2.3	J		U
C3-Dibenzothiophenes		U		U	2.2	J		U		U
Fluoranthene	<1.0	J	<1.0	J	1.1	J	<1.0	J	<1.0	J
Pyrene	<1.0	J	<1.0	J	3.1	J	<1.0	J	<1.0	J
C1-Fluoranthenes/Pyrenes		U		U	3.6	J		U		U
C2-Fluoranthenes/Pyrenes		U		U	2.3	J		U		U
C3-Fluoranthenes/Pyrenes		U		U		U		U		U
Benz(a)anthracene	<1.0	J		U	<1.0	J	<1.0	J	<1.0	J
Chrysene	<1.0	J		U	1.4	J	<1.0	J	<1.0	J
C1-Chrysenes		U		U	1.9	J		U		U
C2-Chrysenes		U		U	1.2	J		U		U
C3-Chrysenes		U		U		U		U		U
C4-Chrysenes		U		U		U		U		U
Benzo(b)fluoranthene	<1.0	J UB		U	<1.0	J UB	<1.0	J UB	<1.0	J UB
Benzo(k)fluoranthene	<1.0	J UB		U	<1.0	J UB	<1.0	J UB	<1.0	J UB
Benzo(e)pyrene		U		U	<1.0	J UB	1.2	J UB	<1.0	J UB
Benzo(a)pyrene	<1.0	J UB		U		U	1.5	J UB	<1.0	J UB
Perylene	<1.0	J UB	1.3	J UB	<1.0	J UB	5.8		<1.0	J UB
Indeno(1,2,3-c,d)pyrene	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB
Dibenzo(a,h)anthracene		U		U		U	<1.0	J	<1.0	J
Benzo(g,h,i)perylene		U	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB
Total PAHs	268		56.8		362		226		39.4	
Selected Ratios										
D2/P2	0.636		NA		0.252		0.719		NA	
D3/P3	NA		NA		0.286		NA		NA	
D2/C2	NA		NA		4.250		NA		NA	
D3/C3	NA		NA		NA		NA		NA	
Individual Isomers										
2-Methylnaphthalene	53.0		11.6		45.9		41.6		7.6	
1-Methylnaphthalene	30.2		5.6		30.5		21.4		3.8	
2,6-Dimethylnaphthalene	29.3		4.9		30.9		20.7		2.1	J
1,6,7-Trimethylnaphthalene	5.5		1.5	J	4.8		3.6	J	0.3	J UB
1-Methylphenanthrene	<1.0	J	<1.0	J	4.9		1.2	J	0.1	J

Surrogate (Su)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)
Naphthalene-d8	104	84	73	84	105
Acenaphthene-d10	99	85	54	74	99
Phenanthrene-d10	96	77	47	89	102
Chrysene-d12	75	56	41	74	88
Perylene-d12	74	74	55	90	99

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

4/18/2000

B&B Laboratories Project J00136
Report 00-466

Entrix, Inc.
Pepco Oil Spill Project
Polycyclic Aromatic Hydrocarbon Data
Client Submitted Samples

Client Project # 729901

Sample Name	ETX0658.D	ETX0662.D	ETX0663.D	ETX0667.D	ETX0668.D
Client Name	PR-MC-05-2 Fillet	PR-MC-03-1 Carcass	PR-MC-03-2 Carcass	PR-MC-03-1 Fillet	PR-MC-03-2 Fillet
Matrix	Tissue	Tissue	Tissue	Tissue	Tissue
Collection Date	4/12/00	4/12/00	4/12/00	4/12/00	4/12/00
Received Date	4/14/00	4/14/00	4/14/00	4/14/00	4/14/00
Extraction Date	4/14/00	4/14/00	4/14/00	4/14/00	4/14/00
Extraction Batch	ENV 169	ENV 169	ENV 169	ENV 169	ENV 169
Date Acquired	04/18/00	04/18/00	04/18/00	04/18/00	04/18/00
Method	PAH	PAH	PAH	PAH	PAH
Sample Wet Weight (g)	5.7	5.9	5.9	5.3	5.0
% Moisture	80	73	72	79	81
% Dry	20	27	28	21	19
% Lipid Based on Wet Weight	0.7	4.0	2.8	2.0	0.6
% Lipid Based on Dry Weight	3.2	15.0	9.7	9.3	3.0

Target Compounds	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q
Naphthalene	9.1		31.9		25.8		17.7		7.1	J
C1-Naphthalenes	22.9		378		328		200		77.3	
C2-Naphthalenes	17.1		359		369		200		97.1	
C3-Naphthalenes	8.8		137		159		76.7		42.0	
C4-Naphthalenes	2.6	J	46.0		52.0		21.1		13.8	
Biphenyl	2.7	J UB	28.6		28.9		15.3		8.0	
Acenaphthylene	<1.0	J	<1.0	J		U		U	<1.0	J
Acenaphthene	<1.0	J	14.2		12.7		7.7		3.6	
Fluorene	4.6		27.0		26.9		14.1		6.4	
C1-Fluorenes	2.1	J	30.9		28.7		15.1		6.9	
C2-Fluorenes	3.2	J	14.0		19.0		8.2		3.6	J
C3-Fluorenes		U	6.2		10.9			U		U
Anthracene	<1.0	J	4.1		4.4		2.3	J	0.9	J
Phenanthrene	2.4	J	42.4		43.7		23.1		9.0	
C1-Phenanthrenes/Anthracenes		U	30.3		32.8		14.8		6.3	J
C2-Phenanthrenes/Anthracenes		U	18.2		22.2		12.2		2.7	J
C3-Phenanthrenes/Anthracenes		U	7.5		11.5		2.4	J		U
C4-Phenanthrenes/Anthracenes		U	4.1	J	6.1	J		U		U
Dibenzothiophene	<1.0	J	10.8		11.9		5.9		2.5	
C1-Dibenzothiophenes		U	9.3		10.2		4.7		2.7	J
C2-Dibenzothiophenes		U	6.2		8.0		2.6	J	1.4	J
C3-Dibenzothiophenes		U	2.8	J	3.5	J		U		U
Fluoranthene	<1.0	J	1.3	J	1.2	J	<1.0	J	<1.0	J
Pyrene	<1.0	J	2.1	J	2.4	J	<1.0	J	<1.0	J
C1-Fluoranthenes/Pyrenes		U	3.8	J	4.0	J		U		U
C2-Fluoranthenes/Pyrenes		U	3.9	J	7.3	J		U		U
C3-Fluoranthenes/Pyrenes		U	2.1	J	2.9	J		U		U
Benz(a)anthracene		U	<1.0	J	1.1	J	<1.0	J	<1.0	J
Chrysene		U	1.7	J	2.2	J	<1.0	J	<1.0	J
C1-Chrysenes		U	3.7	J	4.0	J		U		U
C2-Chrysenes		U	7.5		9.9			U		U
C3-Chrysenes		U		U		U		U		U
C4-Chrysenes		U		U		U		U		U
Benzo(b)fluoranthene	<1.0	J UB	<1.0	J UB	1.3	J UB	2.1	UB	<1.0	J UB
Benzo(k)fluoranthene	<1.0	J UB	<1.0	J UB	<1.0	J UB	1.4	J UB	<1.0	J UB
Benzo(e)pyrene	<1.0	J UB	<1.0	J UB	1.1	J UB	1.8	J UB	1.3	J UB
Benzo(a)pyrene	<1.0	J UB	<1.0	J UB	1.8	J UB	1.1	J UB	1.0	J UB
Perylene	<1.0	J UB	1.2	J UB	3.5		2.6	UB	1.7	J UB
Indeno(1,2,3-c,d)pyrene	<1.0	J UB	<1.0	J UB	1.3	J UB	1.5	UB	1.0	J UB
Dibenzo(a,h)anthracene	<1.0	J	<1.0	J	<1.0	J	1.3		0.9	J
Benzo(g,h,i)perylene	<1.0	J UB	<1.0	J UB	1.1	J UB	1.7	UB	1.0	J UB
Total PAHs	75.5		1236		1260		657		298	
Selected Ratios										
D2/P2	NA		0.341		0.360		0.213		0.519	
D3/P3	NA		0.373		0.304		NA		NA	
D2/C2	NA		0.827		0.808		NA		NA	
D3/C3	NA		NA		NA		NA		NA	
Individual Isomers										
2-Methylnaphthalene	15.6		248		218		130.0		51.2	
1-Methylnaphthalene	7.3		130		110		69.3		26.1	
2,6-Dimethylnaphthalene	5.9		122		129		65.8		30.4	
1,6,7-Trimethylnaphthalene	1.4	J	20.6		23.9		11.3		8.5	
1-Methylphenanthrene	<1.0	J	3.9		3.9		2.0	J	0.8	J

Surrogate (Su)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)
Naphthalene-d8	79	78	62	79	93
Acenaphthene-d10	76	97	87	85	97
Phenanthrene-d10	87	88	76	88	103
Chrysene-d12	81	79	62	68	78
Perylene-d12	94	90	81	73	75

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

4/18/2000

2/19/01

000036

B&B Laboratories Project J00136
Report 00-466

Entrix, Inc.
Pepco Oil Spill Project
Polycyclic Aromatic Hydrocarbon Data
Client Submitted Samples

Client Project # 729901

Sample Name	ETX0672.D	ETX0673.D	ETX0678.D	ETX0679.D
Client Name	PR-MC-01-1 Carcass	PR-MC-01-2 Carcass	PR-MC-01-1 Fillet	PR-MC-01-2 Fillet
Matrix	Tissue	Tissue	Tissue	Tissue
Collection Date	4/12/00	4/12/00	4/12/00	4/12/00
Received Date	4/14/00	4/14/00	4/14/00	4/14/00
Extraction Date	4/14/00	4/14/00	4/14/00	4/14/00
Extraction Batch	ENV 169	ENV 169	ENV 169	ENV 169
Date Acquired	04/18/00	04/18/00	04/18/00	04/18/00
Method	PAH	PAH	PAH	PAH
Sample Wet Weight (g)	5.9	5.7	5.0	6.1
% Moisture	76	80	76	80
% Dry	24	20	24	20
% Lipid Based on Wet Weight	1.6	1.4	0.7	0.5
% Lipid Based on Dry Weight	6.6	6.9	3.0	2.3

Target Compounds	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q
Naphthalene	15.6		7.1	J	8.2	J	3.7	J UB
C1-Naphthalenes	169		32.5		65.2		14.9	
C2-Naphthalenes	173		37.3		73.7		14.3	
C3-Naphthalenes	74.6		17.9		31.3		7.5	
C4-Naphthalenes	16.3		3.4	J	8.5		1.6	J
Biphenyl	11.2		2.2	J	4.5		1.1	J UB
Acenaphthylene		U	<1.0	J	<1.0	J	<1.0	J
Acenaphthene	6.2		1.6	J	2.6		<1.0	J
Fluorene	12.6		3.1		5.6		1.6	J
C1-Fluorenes	13.5		3.9	J	6.1		2.0	J
C2-Fluorenes	5.9			U		U		U
C3-Fluorenes	4.8	J		U		U		U
Anthracene	1.5	J	<1.0	J	<1.0	J	<1.0	J
Phenanthrene	18.4		4.2		7.8		2.6	J
C1-Phenanthrenes/Anthracenes	12.1		4.0	J	5.4	J	1.8	J
C2-Phenanthrenes/Anthracenes	9.2			U		U		U
C3-Phenanthrenes/Anthracenes	3.4	J		U		U		U
C4-Phenanthrenes/Anthracenes		U		U		U		U
Dibenzothiophene	4.1		<1.0	J	2.3		<1.0	J
C1-Dibenzothiophenes	4.0	J	1.4	J	1.9	J	<1.0	J
C2-Dibenzothiophenes	2.8	J		U		U		U
C3-Dibenzothiophenes		U		U		U		U
Fluoranthene	<1.0	J	<1.0	J	<1.0	J	1.5	J
Pyrene	<1.0	J	<1.0	J	<1.0	J	5.4	
C1-Fluoranthenes/Pyrenes		U		U		U		U
C2-Fluoranthenes/Pyrenes		U		U		U		U
C3-Fluoranthenes/Pyrenes		U		U		U		U
Benz(a)anthracene	<1.0	J		U		U	<1.0	J
Chrysene	<1.0	J		U		U	<1.0	J
C1-Chrysenes		U		U		U		U
C2-Chrysenes		U		U		U		U
C3-Chrysenes		U		U		U		U
C4-Chrysenes		U		U		U		U
Benzo(b)fluoranthene	1.0	J UB	<1.0	J UB		U	<1.0	J UB
Benzo(k)fluoranthene	<1.0	J UB	<1.0	J UB		U	<1.0	J UB
Benzo(e)pyrene	<1.0	J UB	<1.0	J UB	1.6	J UB	1.5	J UB
Benzo(a)pyrene	9.3		1.2	J UB	<1.0	J UB	1.5	J UB
Perylene	1.3	J UB	<1.0	J UB	1.3	J UB	<1.0	J UB
Indeno(1,2,3-c,d)pyrene	<1.0	J UB	<1.0	J UB		U	1.5	J UB
Dibenzo(a,h)anthracene	<1.0	J	<1.0	J		U	<1.0	J
Benzo(g,h,i)perylene	<1.0	J UB	<1.0	J UB		U	5.4	
Total PAHs	570		120		226		67.9	
Selected Ratios								
D2/P2	0.304		NA		NA		NA	
D3/P3	NA		NA		NA		NA	
D2/C2	NA		NA		NA		NA	
D3/C3	NA		NA		NA		NA	
Individual Isomers								
2-Methylnaphthalene	112.0		20.9		42.1		9.2	
1-Methylnaphthalene	57.7		11.6		23.1		5.7	
2,6-Dimethylnaphthalene	60.4		12.2		24.2		5.0	
1,6,7-Trimethylnaphthalene	9.2		3.5	J	5.7		1.3	J
1-Methylphenanthrene	2.5	J	0.7	J	1.3	J	1.6	J

Surrogate (Su)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)
Naphthalene-d8	71	67	75	67
Acenaphthene-d10	72	70	73	69
Phenanthrene-d10	73	71	79	74
Chrysene-d12	60	53	67	68
Perylene-d12	80	34	88	68

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

4/18/2000

Entrix, Inc.
Pepco Oil Spill Project
Polycyclic Aromatic Hydrocarbon Data
Client Submitted Fish Samples

Sample Name	ETX0646.D	ETX0650.D	ETX0651.D	ETX0654.D	ETX0655.D
Client Name	PR-MC-04-5 Carcass	PR-MC-04-4 Fillet	PR-MC-04-5 Fillet	PR-MC-05-3 Carcass	PR-MC-05-4 Carcass
Matrix	Tissue	Tissue	Tissue	Tissue	Tissue
Collection Date	4/12/00	4/12/00	4/12/00	4/12/00	4/12/00
Received Date	4/14/00	4/14/00	4/14/00	4/14/00	4/14/00
Extraction Date	4/15/00	4/15/00	4/15/00	4/15/00	4/15/00
Extraction Batch	ENV 170	ENV 170	ENV 170	ENV 170	ENV 170
Date Acquired	04/18/00	04/18/00	04/18/00	04/18/00	04/18/00
Method	PAH	PAH	PAH	PAH	PAH
Sample Wet Weight (g)	5.0	5.6	4.2	5.1	5.3
% Moisture	69	77	80	78	79
% Dry	31	23	20	24	21
% Lipid Based on Wet Weight	0.7	0.7	0.3	1.8	2.9
% Lipid Based on Dry Weight	2.3	3.1	1.4	7.5	13.4

Target Compounds	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q
Naphthalene	4.0	J	3.9	J UB	2.4	J UB	9.8	J	7.9	J
C1-Naphthalenes	31.0		54.4		15.1		16.1		11.7	
C2-Naphthalenes	49.7		60.7		23.5		7.3		4.1	J
C3-Naphthalenes	25.8		26.1		12.7		4.4	J	1.9	J
C4-Naphthalenes	7.2		6.1		1.9	J		U		U
Biphenyl	2.8	J UB	4.8		1.6	J UB	<1.0	J UB	1.0	J UB
Acenaphthylene	0.1	J	0.1	J	<1.0	J	<1.0	J	<1.0	J
Acenaphthene	1.9	J	2.8		<1.0	J	<1.0	J	<1.0	J
Fluorene	4.5		5.6		2.1	J	1.1	J	1.0	J
C1-Fluorenes	6.1	J	6.5		2.5	J		U	0.8	J
C2-Fluorenes	3.1	J	2.7	J	1.0	J		U		U
C3-Fluorenes	3.7	J	3.3	J	1.3	J		U		U
Anthracene	0.7	J	0.4	J	<1.0	J	<1.0	J	<1.0	J
Phenanthrene	7.6		7.8		3.4	J	1.2	J	1.6	J
C1-Phenanthrenes/Anthracenes	6.8	J	5.0	J	2.4	J		U	1.1	J
C2-Phenanthrenes/Anthracenes	6.8	J	1.8	J	1.7	J		U	1.3	J
C3-Phenanthrenes/Anthracenes	11.2			U		U		U	2.3	J
C4-Phenanthrenes/Anthracenes	6.2	J		U		U		U		U
Dibenzothiophene	1.6	J	2.2		<1.0	J	<1.0	J	<1.0	J
C1-Dibenzothiophenes	1.9	J	1.5	J	1.0	J		U		U
C2-Dibenzothiophenes	2.3	J	<1.0	J		U		U		U
C3-Dibenzothiophenes	2.8	J		U		U		U		U
Fluoranthene	2.0	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J
Pyrene	2.0	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J
C1-Fluoranthenes/Pyrenes	3.6	J		U	1.3	J		U	<1.0	J
C2-Fluoranthenes/Pyrenes	3.5	J		U		U		U		U
C3-Fluoranthenes/Pyrenes	1.9	J		U		U		U		U
Benz(a)anthracene	1.6	J	<1.0	J	<1.0	J	<1.0	J		J
Chrysene	2.7	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J
C1-Chrysenes	3.6	J		U		U		U		U
C2-Chrysenes	3.1	J		U		U		U		U
C3-Chrysenes	1.4	J		U		U		U		U
C4-Chrysenes		U		U		U		U		U
Benzo(b)fluoranthene	2.0	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J
Benzo(k)fluoranthene	1.5	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J
Benzo(e)pyrene	2.0	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J
Benzo(a)pyrene	1.4	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J
Perylene	1.0	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J
Indeno(1,2,3-c,d)pyrene	1.8	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J
Dibenzo(a,h)anthracene	1.4		<1.0	J	<1.0	J	<1.0	J	<1.0	J
Benzo(g,h,i)perylene	1.7		<1.0	J	<1.0	J	<1.0	J	<1.0	J
Total PAHs	226		196		82.1		44.9		42.8	
Selected Ratios										
D2/C2	0.338		0.500		NA		NA		NA	
D3/P3	0.250		NA		NA		NA		NA	
D2/C2	0.742		NA		NA		NA		NA	
D3/C3	2.000		NA		NA		NA		NA	
Individual Isomers										
2-Methylnaphthalene	19.8		35.1		9.4		10.4		7.9	
1-Methylnaphthalene	11.2		19.3		5.7		5.7		3.8	
2,6-Dimethylnaphthalene	17.4		19.2		7.6		3.2		1.4	J
1,6,7-Trimethylnaphthalene	5.1		5.2		1.6	J	0.7	J	0.4	J
1-Methylphenanthrene	1.4	J	<1.0	J	0.4	J	0.3	J	0.3	J

Surrogate (Su)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)
Naphthalene-d8	65	56	65	69	69
Acenaphthene-d10	68	60	62	75	68
Phenanthrene-d10	66	65	68	67	72
Chrysene-d12	69	59	62	67	65
Perylene-d12	55	53	46	62	61

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

2/19/01

B&B Laboratories Project J00136
Report 00-466

Entrix, Inc.
Pepco Oil Spill Project
Polycyclic Aromatic Hydrocarbon Data
Client Submitted Fish Samples

Client Project # 729901

Sample Name	ETX0656.D	ETX0659.D	ETX0660.D	ETX0661.D	ETX0664.D
Client Name	PR-MC-05-5 Carcass	PR-MC-05-3 Fillet	PR-MC-05-4 Fillet	PR-MC-05-5 Fillet	PR-MC-03-3 Carcass
Matrix	Tissue	Tissue	Tissue	Tissue	Tissue
Collection Date	4/12/00	4/12/00	4/12/00	4/12/00	4/12/00
Received Date	4/14/00	4/14/00	4/14/00	4/14/00	4/14/00
Extraction Date	4/15/00	4/15/00	4/15/00	4/15/00	4/15/00
Extraction Batch	ENV 170	ENV 170	ENV 170	ENV 170	ENV 170
Date Acquired	04/18/00	04/18/00	04/18/00	04/18/00	04/01/00
Method	PAH	PAH	PAH	PAH	PAH
Sample Wet Weight (g)	5.6	4.8	4.3	5.0	4.9
% Moisture	75	84	83	77	78
% Dry	25	16	17	23	22
% Lipid Based on Wet Weight	3.9	0.5	0.5	1.6	1.0
% Lipid Based on Dry Weight	15.7	3.1	3.1	6.8	4.4

Target Compounds	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q
Naphthalene	9.6		4.5	J	7.6	J	7.8	J	6.0	J
C1-Naphthalenes	13.2		7.6	J	9.7	J	10.2		54.2	
C2-Naphthalenes	4.1	J	3.3	J	4	J	3.0	J	53.7	
C3-Naphthalenes	1.7	J	1.2	J	1.6	J	1.1	J	22.6	
C4-Naphthalenes		U		U		U		U	5.7	J
Biphenyl	1.1	J UB	<1.0	J UB	1.4	J UB	1.0	J UB	3.2	J
Acenaphthylene	<1.0	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J
Acenaphthene	<1.0	J	<1.0	J	<1.0	J	<1.0	J	2.2	J
Fluorene	1.3	J	<1.0	J	<1.0	J	<1.0	J	4.2	
C1-Fluorenes	<1.0	J		U	<1.0	J	<1.0	J	4.8	J
C2-Fluorenes		U		U		U		U	2.8	J
C3-Fluorenes		U		U		U		U		U
Anthracene	<1.0	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J
Phenanthrene	1.4	J	1.1	J	<1.0	J	<1.0	J	7.1	
C1-Phenanthrenes/Anthracenes		U		U		U		U	6.9	J
C2-Phenanthrenes/Anthracenes		U		U	3.5	J		U	4.6	J
C3-Phenanthrenes/Anthracenes		U		U	4.8	J		U	1.8	J
C4-Phenanthrenes/Anthracenes		U		U	3.4	J		U	1.3	J
Dibenzothiophene	<1.0	J	<1.0	J	<1.0	J	<1.0	J	1.5	J
C1-Dibenzothiophenes		U		U		U		U	1.6	J
C2-Dibenzothiophenes		U		U		U		U	1.2	J
C3-Dibenzothiophenes		U		U	1.5	J		U	0.9	J
Fluoranthene	<1.0	J	<1.0	J	<1.0	J	<1.0	J	18.6	
Pyrene	<1.0	J	<1.0	J	<1.0	J	<1.0	J	12.2	
C1-Fluoranthenes/Pyrenes		U		U	2.1	J		U	4.8	J
C2-Fluoranthenes/Pyrenes		U		U	2.8	J		U	3.8	J
C3-Fluoranthenes/Pyrenes		U		U	1.7	J		U	1.3	J
Benz(a)anthracene	<1.0	J	<1.0	J	<1.0	J	<1.0	J	1.2	J
Chrysene	<1.0	J	<1.0	J	1.4	J	<1.0	J	6.4	
C1-Chrysenes		U		U	1.9	J		U	2.6	J
C2-Chrysenes		U		U	2.4	J		U		U
C3-Chrysenes		U		U		U		U		U
C4-Chrysenes		U		U		U		U		U
Benzo(b)fluoranthene	<1.0	J	<1.0	J	1.5	J		U	7.2	
Benzo(k)fluoranthene	<1.0	J	<1.0	J	<1.0	J		U	3.0	J
Benzo(e)pyrene	<1.0	J	<1.0	J	1.2	J		U	3.3	
Benzo(a)pyrene	<1.0	J	<1.0	J	<1.0	J		U	1.1	J
Perylene	<1.0	J	<1.0	J	<1.0	J		U	<1.0	J
Indeno(1,2,3-c,d)pyrene	<1.0	J	<1.0	J	1.5	J		U	2.2	
Dibenzo(a,h)anthracene	<1.0	J	<1.0	J	<1.0	J		U	<1.0	J
Benzo(g,h,i)perylene	<1.0	J	<1.0	J	1.2	J		U	1.6	
Total PAHs	38.8		23.8		64.4		27.5		258	
Selected Ratios										
D2/C2	NA		NA		0.000		NA		0.261	
D3/P3	NA		NA		0.313		NA		0.500	
D2/C2	NA		NA		0.000		NA		NA	
D3/C3	NA		NA		NA		NA		NA	
Individual Isomers										
2-Methylnaphthalene	8.7		5	J	6.4		6.6		35.4	
1-Methylnaphthalene	4.5		2.6	J	3.3	J	3.6	J	18.8	
2,6-Dimethylnaphthalene	1.4	J	1	J	1.1	J	1.2	J	17.7	
1,6,7-Trimethylnaphthalene	<1.0	J	0.2	J	0.2	J	<1.0	J	4.5	
1-Methylphenanthrene	<1.0	J	0.2	J	0.3	J	<1.0	J	1.4	J

Surrogate (Su)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)
Naphthalene-d8	66	74	58	67	68
Acenaphthene-d10	69	75	61	65	74
Phenanthrene-d10	73	79	59	68	72
Chrysene-d12	62	67	60	57	64
Perylene-d12	69	62	47	51	41

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

2/19/01

Entrix, Inc.
Pepco Oil Spill Project
Polycyclic Aromatic Hydrocarbon Data
Client Submitted Fish Samples

Sample Name	ETX0665.D	ETX0666.D	ETX0669.D	ETX0670.D	ETX0671.D
Client Name	PR-MC-03-4 Carcass	PR-MC-03-5 Carcass	PR-MC-03-3 Fillet	PR-MC-03-4 Fillet	PR-MC-03-5 Fillet
Matrix	Tissue	Tissue	Tissue	Tissue	Tissue
Collection Date	4/12/00	4/12/00	4/12/00	4/12/00	4/12/00
Received Date	4/14/00	4/14/00	4/14/00	4/14/00	4/14/00
Extraction Date	4/15/00	4/15/00	4/15/00	4/15/00	4/15/00
Extraction Batch	ENV 170	ENV 170	ENV 170	ENV 170	ENV 170
Date Acquired	04/19/00	04/19/00	04/19/00	04/19/00	04/19/00
Method	PAH	PAH	PAH	PAH	PAH
Sample Wet Weight (g)	5.1	4.8	5.0	4.8	5.6
% Moisture	75	73	80	81	80
% Dry	25	28	20	19	20
% Lipid Based on Wet Weight	1.7	1.5	0.3	0.4	0.5
% Lipid Based on Dry Weight	6.9	5.5	1.3	2.3	2.3

Target Compounds	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q
Naphthalene	13.3		9.8	J	3.9	J	4.8	J	4.2	J
C1-Naphthalenes	146		103		20.7		34.5		36.0	
C2-Naphthalenes	164		135		23.2		38.8		50.3	
C3-Naphthalenes	75.4		65.5		11.0		17.7		25.4	
C4-Naphthalenes	20.3		16.0		<1.0	J	4.4	J	6.7	
Biphenyl	8.6		6.1		1.9	J UB	2.3	J UB	2.5	J UB
Acenaphthylene	<1.0	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J
Acenaphthene	6.8		4.9		1.1	J	1.7	J	2.2	J
Fluorene	13.2		11.0		2.2	J	3.5	J	4.4	
C1-Fluorenes	16.7		14.7		2.7	J	4.3	J	5.8	J
C2-Fluorenes	9.3		7.3			U	2.1	J	3.2	J
C3-Fluorenes		U		U		U		U		U
Anthracene	1.5	J	0.8	J	<1.0	J	<1.0	J	<1.0	J
Phenanthrene	19.9		21.4		3.2	J	5.4		9.4	
C1-Phenanthrenes/Anthracenes	17.4		11.1		2.1	J	3.8	J	4.9	J
C2-Phenanthrenes/Anthracenes	14.2		3.4	J		U	2.5	J	1.3	J
C3-Phenanthrenes/Anthracenes	8.7		2.9	J		U	2.4	J		U
C4-Phenanthrenes/Anthracenes	4.2	J		U		U	1.8	J		U
Dibenzothiophene	4.6		4.3		<1.0	J	1.4	J	2.3	J
C1-Dibenzothiophenes	4.9		4.4	J	1.1	J	1.7	J	2.2	J
C2-Dibenzothiophenes	4.6	J	1.4	J		U		U		U
C3-Dibenzothiophenes	2.6	J		U		U		U		U
Fluoranthene	<1.0	J	0.7	J	<1.0	J	<1.0	J	<1.0	J
Pyrene	1.9	J	0.5	J	<1.0	J	<1.0	J	<1.0	J
C1-Fluoranthenes/Pyrenes	4.2	J		U		U	<1.0	J		U
C2-Fluoranthenes/Pyrenes	4.7	J		U		U		U		U
C3-Fluoranthenes/Pyrenes	2.7	J		U		U		U		U
Benz(a)anthracene	<1.0	J	<1.0	J		U	<1.0	J	<1.0	J
Chrysene	1.8	J	<1.0	J		U	<1.0	J	<1.0	J
C1-Chrysenes	3.5	J		U		U		U		U
C2-Chrysenes	5.0	J		U		U		U		U
C3-Chrysenes		U		U		U		U		U
C4-Chrysenes		U		U		U		U		U
Benzo(b)fluoranthene	<1.0	J	<1.0	J	<1.0	J	<1.0	J		U
Benzo(k)fluoranthene	<1.0	J	<1.0	J	<1.0	J	<1.0	J		U
Benzo(e)pyrene	<1.0	J		U	<1.0	J	<1.0	J		U
Benzo(a)pyrene	<1.0	J		U	<1.0	J	<1.0	J		U
Perylene	<1.0	J		U	1.5	J	<1.0	J	<1.0	J
Indeno(1,2,3-c,d)pyrene	<1.0	J		U		U	<1.0	J		U
Dibenzo(a,h)anthracene	<1.0	J		U		U	<1.0	J		U
Benzo(g,h,i)perylene	<1.0	J		U	<1.0	J	<1.0	J		U
Total PAHs	586		425		78.1		141		163	
Selected Ratios										
D2/C2	0.324		0.412		NA		NA		NA	
D3/P3	0.299		NA		NA		NA		NA	
D2/C2	0.920		NA		NA		NA		NA	
D3/C3	NA		NA		NA		NA		NA	
Individual Isomers										
2-Methylnaphthalene	94.5		65.8		13.1		21.5		22.5	
1-Methylnaphthalene	51.9		37.7		7.6		12.9		13.4	
2,6-Dimethylnaphthalene	58.2		53.4		6.9		12.9		18.3	
1,8,7-Trimethylnaphthalene	10.2		8.7			U	3.0	J	3.9	
1-Methylphenanthrene	3.6		2.3	J	<1.0	J	0.6	J	0.8	J

Surrogate (Su)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)
Naphthalene-d8	63	72	65	57	65
Acenaphthene-d10	69	73	63	65	65
Phenanthrene-d10	66	84	61	73	74
Chrysene-d12	63	63	58	62	61
Perylene-d12	43	29	47	48	59

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

Entrix, Inc.
Pepco Oil Spill Project
Polycyclic Aromatic Hydrocarbon Data
Client Submitted Fish Samples

Sample Name	ETX0674.D	ETX0675.D	ETX0676.D	ETX0680.D
Client Name	PR-MC-01-3 Carcass	PR-MC-01-4 Carcass	PR-MC-01-5 Carcass	PR-MC-01-3 Fillet
Matrix	Tissue	Tissue	Tissue	Tissue
Collection Date	4/12/00	4/12/00	4/12/00	4/12/00
Received Date	4/14/00	4/14/00	4/14/00	4/14/00
Extraction Date	4/15/00	4/15/00	4/15/00	4/15/00
Extraction Batch	ENV 170	ENV 170	ENV 170	ENV 170
Date Acquired	04/19/00	04/19/00	04/19/00	04/19/00
Method	PAH	PAH	PAH	PAH
Sample Wet Weight (g)	4.9	5.5	4.6	5.0
% Moisture	73	63	68	81
% Dry	27	37	32	19
% Lipid Based on Wet Weight	2.7	6.4	2.6	1.0
% Lipid Based on Dry Weight	10.2	20.0	6.9	5.0

Target Compounds	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q
Naphthalene	28.2		27.3		12.4		7.1	J
C1-Naphthalenes	361		214		91.2		93.6	
C2-Naphthalenes	423		183		96.3		119	
C3-Naphthalenes	167		73.4		51.9		49.7	
C4-Naphthalenes	41.1		17.5		10.7		12.6	
Biphenyl	22.4		8.8		4.8		5.9	
Acenaphthylene		U	<1.0	J		U		U
Acenaphthene	14.9		7.8		4.3		4.3	
Fluorene	30.3		15.5		8.4		8.6	
C1-Fluorenes	35.3		17.2		12.5		10.8	
C2-Fluorenes	15.2		7.5		6.9	J	4.9	
C3-Fluorenes		U		U		U		U
Anthracene	3.1	J	1.6	J	<1.0	J	1.0	J
Phenanthrene	50.9		25.0		19.6		14.5	
C1-Phenanthrenes/Anthracenes	29.7		13.2		14.0		9.0	
C2-Phenanthrenes/Anthracenes	7.4	J	3.5	J	5.5	J	2.4	J
C3-Phenanthrenes/Anthracenes	2.4	J		U	2.4	J		U
C4-Phenanthrenes/Anthracenes		U		U		U		U
Dibenzothiophene	12.1		4.8		3.3		4.2	
C1-Dibenzothiophenes	9.4		4.0	J	3.4	J	3.0	J
C2-Dibenzothiophenes	3.8	J	1.4	J	1.7	J	1.1	J
C3-Dibenzothiophenes	1.2	J		U	1.1	J		U
Fluoranthene	<1.0	J	<1.0	J	0.8	J	<1.0	J
Pyrene	1.1	J	<1.0	J	0.9	J	<1.0	J
C1-Fluoranthenes/Pyrenes	1.2	J		U				U
C2-Fluoranthenes/Pyrenes		U		U	2.7	J		U
C3-Fluoranthenes/Pyrenes		U		U	<1.0	J		U
Benz(a)anthracene	<1.0	J	<1.0	J	<1.0	J	<1.0	J
Chrysene	<1.0	J	<1.0	J	<1.0	J	<1.0	J
C1-Chrysenes	1.1	J		U		U		U
C2-Chrysenes		U		U		U		U
C3-Chrysenes		U		U		U		U
C4-Chrysenes		U		U		U		U
Benzo(b)fluoranthene		U		U	<1.0	J	<1.0	J
Benzo(k)fluoranthene		U		U	<1.0	J	<1.0	J
Benzo(e)pyrene		U		U	<1.0	J	<1.0	J
Benzo(a)pyrene		U		U		U	<1.0	J
Perylene		U	<1.0	J	<1.0	J		U
Indeno(1,2,3-c,d)pyrene		U		U		U	<1.0	J
Dibenzo(a,h)anthracene		U		U		U		U
Benzo(g,h,i)perylene		U		U		U	<1.0	J
Total PAHs	1260		629		359		354	
Selected Ratios								
D2/C2	0.486		0.400		0.309		0.458	
D3/P3	0.500		NA		0.458		NA	
D2/C2	NA		NA		NA		NA	
D3/C3	NA		NA		NA		NA	
Individual Isomers								
2-Methylnaphthalene	238		135		56.8		60.4	
1-Methylnaphthalene	123		79.2		34.4		33.3	
2,6-Dimethylnaphthalene	149		71.0		37.2		40.0	
1,6,7-Trimethylnaphthalene	23.9		9.5		6.1		7.1	
1-Methylphenanthrene	4.7		2.4	J	2.6	J	1.4	J

Surrogate (Su)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)
Naphthalene-d8	51	69	64	60
Acenaphthene-d10	60	74	70	65
Phenanthrene-d10	54	80	71	76
Chrysene-d12	49	64	60	62
Perylene-d12	27	46	42	47

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

B&B Laboratories Project J00136
Report 00-466

Entrix, Inc.
Pepco Oil Spill Project
Polycyclic Aromatic Hydrocarbon Data
Client Submitted Samples

Client Project #

Sample Name	ETX0677.D	ETX0681.D	ETX0682.D	ETX0683.D
Client Name	PR-MC-01-6 Carcass	PR-MC-01-4 Fillet	PR-MC-01-5 Fillet	PR-MC-01-6 Fillet
Matrix	Tissue	Tissue	Tissue	Tissue
Collection Date	4/12/00	4/12/00	4/12/00	4/12/00
Received Date	4/14/00	4/14/00	4/14/00	4/14/00
Extraction Date	4/17/00	4/17/00	4/17/00	4/17/00
Extraction Batch	ENV 174	ENV 174	ENV 174	ENV 174
Date Acquired	04/21/00	04/21/00	04/21/00	04/21/00
Method	PAH	PAH	PAH	PAH
Sample Wet Weight (g)	6.2	5.2	5.1	4.8
% Moisture	69	78	79	78
% Dry	31	22	21	22
% Lipid Based on Wet Weight	6.1	2.5	0.9	3.6
% Lipid Based on Dry Weight	22.0	11.2	4.2	16.4

Target Compounds	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q
Naphthalene	34.0		16.1		7.2	J	20.4	
C1-Naphthalenes	406		123		37.8		247	
C2-Naphthalenes	378		105		42.1		226	
C3-Naphthalenes	142		42.1		22.6		84.2	
C4-Naphthalenes	34.6		10.0		5.8	J	21.9	
Biphenyl	23.4		5.1		2.0	J UB	13.9	
Acenaphthylene		U	<1.0	J		U	<1.0	J
Acenaphthene	15.0		4.7		2.1	J	9.4	
Fluorene	28.4		8.0		3.8		16.2	
C1-Fluorenes	29.6		10.0		5.8	J	19.1	
C2-Fluorenes	14.4		5.0	J	3.1	J	9.3	
C3-Fluorenes		U		U		U		U
Anthracene	2.9		1.4	J	<1.0	J	1.5	J
Phenanthrene	41.6		13.4		8.1		23.2	
C1-Phenanthrenes/Anthracenes	26.0		7.0	J	5.6	J	14.8	
C2-Phenanthrenes/Anthracenes	8.4		2.1	J	1.8	J	4.2	J
C3-Phenanthrenes/Anthracenes		U		U		U		U
C4-Phenanthrenes/Anthracenes		U		U		U		U
Dibenzothiophene	8.9		2.7		1.6	J	5.8	
C1-Dibenzothiophenes	7.6		3.1	J	1.9	J	5.3	
C2-Dibenzothiophenes	2.8	J		U		U	3.7	J
C3-Dibenzothiophenes		U		U		U	1.9	J
Fluoranthene	1.2	J	<1.0	J	<1.0	J	<1.0	J
Pyrene	1.2	J	<1.0	J	<1.0	J	<1.0	J
C1-Fluoranthenes/Pyrenes	1.0	J		U		U		U
C2-Fluoranthenes/Pyrenes		U		U		U		U
C3-Fluoranthenes/Pyrenes		U		U		U		U
Benz(a)anthracene	<1.0	J		U	<1.0	J		U
Chrysene	<1.0	J UB		U	<1.0	J UB		U
C1-Chrysenes		U		U		U		U
C2-Chrysenes		U		U		U		U
C3-Chrysenes		U		U		U		U
C4-Chrysenes		U		U		U		U
Benzo(b)fluoranthene	<1.0	J	<1.0	J		U		U
Benzo(k)fluoranthene	<1.0	J	<1.0	J		U		U
Benzo(e)pyrene	<1.0	J UB		U		U		U
Benzo(a)pyrene	<1.0	J UB		U		U		U
Perylene	<1.0	J UB		U		U		U
Indeno(1,2,3-c,d)pyrene		U		U		U		U
Dibenzo(a,h)anthracene		U		U		U		U
Benzo(g,h,i)perylene	<1.0	J UB		U		U		U
Total PAHs	1210		361		152		729	
Selected Ratios								
D2/C2	0.333		NA		NA		0.881	
D3/P3	NA		NA		NA		NA	
D2/C2	NA		NA		NA		NA	
D3/C3	NA		NA		NA		NA	
Individual Isomers								
2-Methylnaphthalene	262		77.1		23.6		160	
1-Methylnaphthalene	144		45.8		14.2		87.0	
2,6-Dimethylnaphthalene	131		39.0		16.3		74.9	
1,6,7-Trimethylnaphthalene	27.9		5.5		2.7	J	15.6	
1-Methylphenanthrene	4.8		1.4	J	1.1	J	3.1	J

Surrogate (Su)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)
Naphthalene-d8	59	74	61	57
Acenaphthene-d10	84	71	59	65
Phenanthrene-d10	75	77	63	74
Chrysene-d12	66	54	52	49
Perylene-d12	58	60	64	82

2/19/01

000190

Entrix, Inc.
Pepco Oil Spill Project
Polycyclic Aromatic Hydrocarbon Data
Client Submitted Samples

Sample Name	ETX0901.D	ETX0903.D	ETX0905.D	ETX0907.D	ETX0909.D	ETX0911.D
Client Name	TRP-1 (Fillet)	SWC-1 (Fillet)	TEP-1 (Fillet)	SWC-4 (Dup of SWC-1)	CAC-1 (Fillet)	HAP-1 (Fillet)
Matrix	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue
Collection Date	5/10/00	5/10/00	5/10/00	5/10/00	5/10/00	5/10/00
Received Date	5/12/00	5/12/00	5/12/00	5/12/00	5/12/00	5/12/00
Extraction Date	5/18/00	5/18/00	5/18/00	5/18/00	5/18/00	5/18/00
Extraction Batch	ENV 198	ENV 198	ENV 198	ENV 198	ENV 198	ENV 198
Date Acquired	05/24/00	05/24/00	05/24/00	05/24/00	05/24/00	05/24/00
Method	PAH	PAH	PAH	PAH	PAH	PAH
Sample Wet Weight (g)	5.2	5.4	6.9	4.7	5.4	5.1
% Moisture	82	80	80	79	81	79
% Dry	18	20	20	21	19	21
% Lipid Based on Wet Weight	1.2	0.6	1.3	1.4	0.5	1.4
% Lipid Based on Dry Weight	7.0	3.2	6.2	6.4	2.6	6.6

Target Compounds	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q
Naphthalene	4.7	J UB	2.2	J UB	4.2	J UB	2.8	J UB	4.6	J UB	2.7	J UB
C1-Naphthalenes	2.3	J	1.6	J	2.5	J	2.0	J	1.6	J	2.0	J
C2-Naphthalenes	4.2	J	4.8	J	4.1	J	5.4		3.1	J	3.8	J
C3-Naphthalenes	6.2		5.8	J	6.7		10.8		4.4	J	4.6	J
C4-Naphthalenes		U		U	4.5	J		U		U		U
Biphenyl	<1.0	J	<1.0	J	<1.0	J	1.4	J	<1.0	J	<1.0	J
Acenaphthylene	<1.0	J		U		U		U		U	<1.0	J
Acenaphthene		U		U		U		U		U	<1.0	J
Fluorene		U		U		U		U		U	<1.0	J
C1-Fluorenes	2.0	J	2.8	J	2.1	J		U		U	1.5	J
C2-Fluorenes		U		U		U		U		U		U
C3-Fluorenes		U		U		U		U		U		U
Anthracene		U		U	<1.0	J	<1.0	J	<1.0	J	<1.0	J
Phenanthrene	1.4	J	1.2	J	1.6	J	1.9	J	1.2	J	1.4	J
C1-Phenanthrenes/Anthracenes		U	2.4	J		U		U		U		U
C2-Phenanthrenes/Anthracenes		U	3.5	J		U		U		U		U
C3-Phenanthrenes/Anthracenes		U		U		U		U		U		U
C4-Phenanthrenes/Anthracenes		U		U		U		U		U		U
Dibenzothiophene		U	<1.0	J	<1.0	J		U		U		U
C1-Dibenzothiophenes		U		U		U		U		U		U
C2-Dibenzothiophenes		U		U		U		U		U		U
C3-Dibenzothiophenes		U		U		U		U		U		U
Fluoranthene	<1.0	J		U	1.1	J		U	<1.0	J	<1.0	J
Pyrene	<1.0	J		U	<1.0	J	<1.0	J	<1.0	J	<1.0	J
C1-Fluoranthenes/Pyrenes		U		U		U		U		U		U
C2-Fluoranthenes/Pyrenes		U		U		U		U		U		U
C3-Fluoranthenes/Pyrenes		U		U		U		U		U		U
Benz(a)anthracene		U		U	<1.0	J		U	<1.0	J	<1.0	J
Chrysene		U		U	<1.0	J		U	<1.0	J	<1.0	J
C1-Chrysenes		U		U		U		U		U		U
C2-Chrysenes		U		U		U		U		U		U
C3-Chrysenes		U		U		U		U		U		U
C4-Chrysenes		U		U		U		U		U		U
Benzo(b)fluoranthene		U	<1.0	J		U		U		U		U
Benzo(k)fluoranthene		U	<1.0	J		U		U		U		U
Benzo(e)pyrene	1.0	J	1.2	J		U		U		U		U
Benzo(a)pyrene	1.0	J		U		U		U		U		U
Perylene		U		U		U		U		U		U
Indeno(1,2,3-c,d)pyrene		U		U		U		U		U		U
Dibenzo(a,h)anthracene		U		U		U		U		U		U
Benzo(g,h,i)perylene		U	<1.0	J		U		U	<1.0	J		U
Total PAHs	25.1		27.5		30.8		25.4		17.3		19.3	
Selected Ratios												
D2/P2	NA		NA		NA		NA		NA		NA	
D3/P3	NA		NA		NA		NA		NA		NA	
D2/C2	NA		NA		NA		NA		NA		NA	
D3/C3	NA		NA		NA		NA		NA		NA	
Individual Isomers												
2-Methylnaphthalene	1.2	J	<1.0	J	1.8	J	1.4	J	<1.0	J	1.2	J
1-Methylnaphthalene	1.1	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J
2,6-Dimethylnaphthalene	1.1	J	1.6	J	1.0	J	1.2	J	<1.0	J	1.2	J
1,6,7-Trimethylnaphthalene	<1.0	J	<1.0	J	2.1	J	<1.0	J	<1.0	J	<1.0	J
1-Methylphenanthrene	<1.0	J	<1.0	J	1.0	J		U		U		U

Surrogate (Su)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)
Naphthalene-d8	50	57	45	50	48	48
Acenaphthene-d10	62	78	46	62	47	59
Phenanthrene-d10	75	77	63	75	61	71
Chrysene-d12	66	76	62	63	55	65
Perylene-d12	52	62	46	53	45	44

2/22/01

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

Entrix, Inc.
Pepco Oil Spill Project
Polycyclic Aromatic Hydrocarbon Data
Client Submitted Samples

Sample Name	ETX0925.D	ETX0926.D	ETX0933.D	ETX0935.D	ETX0937.D	ETX0939.D	ETX0941.D
Client Name	Jacks Bay #5	Hollywood Shores #6	BI-1 (Fillet)	JB-1 (Fillet)	JB-2 (Fillet)	TH-1 (Fillet)	IC-1 (Fillet)
Matrix	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue
Collection Date	5/10/00	5/10/00	5/12/00	5/12/00	5/12/00	5/12/00	5/12/00
Received Date	5/12/00	5/12/00	5/13/00	5/13/00	5/13/00	5/13/00	5/13/00
Extraction Date	5/18/00	5/18/00	5/18/00	5/18/00	5/18/00	5/18/00	5/18/00
Extraction Batch	ENV 198	ENV 198	ENV 198	ENV 198	ENV 198	ENV 198	ENV 198
Date Acquired	05/24/00	05/25/00	05/24/00	05/24/00	05/24/00	05/24/00	05/24/00
Method	PAH	PAH	PAH	PAH	PAH	PAH	PAH
Sample Wet Weight (g)	7.4	8.3	5.2	5.8	6.1	5.5	4.8
% Moisture	84	83	81	82	82	81	80
% Dry	16	17	19	18	18	19	20
% Lipid Based on Wet Weight	0.3	0.3	1.0	1.2	0.4	0.7	0.9
% Lipid Based on Dry Weight	1.8	1.9	5.5	6.7	2.3	3.8	4.4

Target Compounds	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q
Naphthalene	2.5	J uB	1.2	J uB	2.6	J uB	2.4	J uB	3.6	J uB	3.1	J uB	2.7	J uB
C1-Naphthalenes		U	<1.0	J	1.5	J	1.2	J		U	3.1	J	2.0	J
C2-Naphthalenes		U	1.5	J	2.4	J	2.5	J		U	4.8	J	4.9	J
C3-Naphthalenes		U	3.0	J	2.1	J	3.0	J		U	9.2		9.7	
C4-Naphthalenes		U	4.2	J	2.1	J		U		U	6.2		7.2	
Biphenyl	<1.0	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J
Acenaphthylene		U		U		U		U		U		U		U
Acenaphthene		U		U	<1.0	J		U		U		U		U
Fluorene		U		U	<1.0	J	<1.0	J		U		U		U
C1-Fluorenes		U	1.3	J	1.2	J		U		U		U	2.5	J
C2-Fluorenes		U		U		U		U		U		U		U
C3-Fluorenes		U		U		U		U		U		U		U
Anthracene	<1.0	J	<1.0	J	<1.0	J	<1.0	J		U	1.2	J	<1.0	J
Phenanthrene	1.2	J	2.4	J	1.3	J	1.9	J		U	1.7	J	1.4	J
C1-Phenanthrenes/Anthracenes	5.5	J	9.0			U		U		U		U		U
C2-Phenanthrenes/Anthracenes	8.8		26.5			U		U		U		U		U
C3-Phenanthrenes/Anthracenes	5.0	J	19.3			U		U		U		U		U
C4-Phenanthrenes/Anthracenes		U	4.1	J		U		U		U		U		U
Dibenzothiophene		U		U	<1.0	J		U		U		U	<1.0	J
C1-Dibenzothiophenes		U	2.4	J		U		U		U		U		U
C2-Dibenzothiophenes		U	7.2			U		U		U		U		U
C3-Dibenzothiophenes		U	5.7			U		U		U		U		U
Fluoranthene	1.2	J	3.6		<1.0	J	<1.0	J	<1.0	J		U	<1.0	J
Pyrene	1.2	J	3.4	J	<1.0	J	<1.0	J	<1.0	J		U	<1.0	J
C1-Fluoranthenes/Pyrenes	2.3	J	6.6			U		U		U		U		U
C2-Fluoranthenes/Pyrenes		U	3.7	J		U		U		U		U		U
C3-Fluoranthenes/Pyrenes		U	1.4	J		U		U		U		U		U
Benz(a)anthracene	<1.0	J	1.4	J	<1.0	J	<1.0	J		U		U		U
Chrysene	<1.0	J uB	3.8		<1.0	J uB	<1.0	J uB		U		U		U
C1-Chrysenes		U	5.3			U		U		U		U		U
C2-Chrysenes		U	2.4	J		U		U		U		U		U
C3-Chrysenes		U		U		U		U		U		U		U
C4-Chrysenes		U		U		U		U		U		U		U
Benzo(b)fluoranthene		U	<1.0	J		U	<1.0	J		U		U		U
Benzo(k)fluoranthene		U	<1.0	J		U	<1.0	J		U		U		U
Benzo(e)pyrene		U	1.2	J		U	<1.0	J		U		U		U
Benzo(a)pyrene		U	<1.0	J		U	<1.0	J		U		U		U
Perylene		U		U		U	<1.0	J		U		U		U
Indeno(1,2,3-c,d)pyrene		U		U		U	<1.0	J uB		U		U		U
Dibenzo(a,h)anthracene		U		U		U		U		U		U		U
Benzo(g,h,i)perylene		U		U		U	<1.0	J		U		U		U
Total PAHs	29.2		124.0		16.3		20.7		5.5		30.1		33.5	
Selected Ratios														
D2/P2	NA		0.272		NA		NA		NA		NA		NA	
D3/P3	NA		0.295		NA		NA		NA		NA		NA	
D2/C2	NA		3.000		NA		NA		NA		NA		NA	
D3/C3	NA		NA		NA		NA		NA		NA		NA	
Individual Isomers														
2-Methylnaphthalene		U	<1.0	J	1.0	J	<1.0	J		U	2.2	J	<1.0	J
1-Methylnaphthalene		U	<1.0	J	<1.0	J	<1.0	J		U	1.0	J	1.0	J
2,6-Dimethylnaphthalene		U	<1.0	J	<1.0	J	<1.0	J		U	1.8	J	1.5	J
1,6,7-Trimethylnaphthalene		U	<1.0	J	<1.0	J	<1.0	J		U	2.2	J	3.2	J
1-Methylphenanthrene	1.4	J	2.4	J	<1.0	J	<1.0	J		U		U		U

Surrogate (Su)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)
Naphthalene-d8	48	47	44	44	46	46	42
Acenaphthene-d10	51	59	49	55	52	57	41
Phenanthrene-d10	65	55	61	63	61	61	56
Chrysene-d12	57	57	61	67	55	71	48
Perylene-d12	45	38	30	39	44	51	31

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

MR 8/22/01

Entrix, Inc.
Pepco Oil Spill Project
Polycyclic Aromatic Hydrocarbon Data
Client Submitted Samples

Sample Name	ETX0900.D	ETX0902.D	ETX0904.D	ETX0906.D	ETX0908.D	ETX0910.D
Client Name	TRP-1 Carcass	SWC-1 Carcass	TEP-1 Carcass	SWC-4 Carcass	CAC-1 Carcass	HAP-1 Carcass
Matrix	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue
Collection Date	5/10/00	5/10/00	5/10/00	5/10/00	5/10/00	5/10/00
Received Date	5/12/00	5/12/00	5/12/00	5/12/00	5/12/00	5/12/00
Extraction Date	5/18/00	5/18/00	5/18/00	5/18/00	5/18/00	5/18/00
Extraction Batch	ENV 199	ENV 199	ENV 199	ENV 199	ENV 199	ENV 199
Date Acquired	05/28/00	05/28/00	05/28/00	05/29/00	05/29/00	05/29/00
Method	PAH	PAH	PAH	PAH	PAH	PAH
Sample Wet Weight (g)	6.2	6.1	5.4	7.1	6.6	6.8
% Moisture	70	75	68	72	73	73
% Dry	30	25	32	28	27	27
% Lipid Based on Wet Weight	2.8	2.4	3.8	3.9	1.4	4.1
% Lipid Based on Dry Weight	9.5	9.5	11.8	13.9	5.1	14.9

Target Compounds	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q
Naphthalene	2.4	J UB	3.0	J UB	3.1	J UB	3.0	J UB	2.1	J UB	2.9	J UB
C1-Naphthalenes	4.9	J UB	6.3	J UB	4.4	J UB	5.8	J UB	3.2	J UB	6.3	J UB
C2-Naphthalenes	6.9	UB	14.5		7.2	UB	14.0		5.6	UB	8.8	
C3-Naphthalenes	11.4		22.9		16.5		25.8		9.7		15.0	
C4-Naphthalenes	7.0		17.9		15.8		19.3		7.5		9.4	
Biphenyl	<1.0	J UB	1.6	J UB	1.4	J UB	1.1	J UB	<1.0	J UB	1.0	J UB
Acenaphthylene	<1.0	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J
Acenaphthene	1.4	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J	1.1	J
Fluorene	1.7	J	1.6	J	1.5	J	2.0	J	<1.0	J	1.9	J
C1-Fluorenes	2.6	J UB	4.6	J	6.2		7.4		2.2	J UB	4.7	J
C2-Fluorenes	3.0	J	4.3	J	5.3	J	6.4		2.9	J	3.9	J
C3-Fluorenes		U	4.4	J	5.3	J	4.9	J	1.8	J	2.6	J
Anthracene	<1.0	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J
Phenanthrene	2.4	J UB	3.0	J	2.1	J UB	3.8		1.4	J UB	4.0	
C1-Phenanthrenes/Anthracenes	3.2	J	4.3	J	3.9	J	5.7	J	3.4	J	3.6	J
C2-Phenanthrenes/Anthracenes	1.9	J	3.8	J	3.4	J	4.9	J	5.0	J	2.7	J
C3-Phenanthrenes/Anthracenes	1.2	J	2.1	J	1.4	J	1.7	J	3.3	J	<1.0	J
C4-Phenanthrenes/Anthracenes		U		U		U		U	1.5	J		U
Dibenzothiophene	<1.0	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J
C1-Dibenzothiophenes	1.1	J	1.2	J	1.5	J	1.9	J	<1.0	J	1.2	J
C2-Dibenzothiophenes	<1.0	J	1.2	J	1.7	J	1.6	J	1.3	J	1.2	J
C3-Dibenzothiophenes		U	<1.0	J		U	<1.0	J	<1.0	J		U
Fluoranthene	1.3	J UB	1.0	J UB	1.2	J UB	1.2	J UB	<1.0	J UB	3.0	
Pyrene	<1.0	J UB	1.0	J UB	1.1	J UB	1.0	J UB	<1.0	J UB	7.9	
C1-Fluoranthenes/Pyrenes	<1.0	J	1.3	J	<1.0	J	1.1	J	1.4	J	<1.0	J
C2-Fluoranthenes/Pyrenes		U	1.4	J		U	<1.0	J	1.9	J		U
C3-Fluoranthenes/Pyrenes		U	<1.0	J		U	<1.0	J	1.4	J		U
Benz(a)anthracene	<1.0	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J
Chrysene	<1.0	J	<1.0	J	<1.0	J	<1.0	J	1.0	J	<1.0	J
C1-Chrysenes		U	<1.0	J		U	<1.0	J	2.1	J		U
C2-Chrysenes		U		U		U		U	2.5	J		U
C3-Chrysenes		U		U		U		U	1.4	J		U
C4-Chrysenes		U		U		U		U		U		U
Benzo(b)fluoranthene	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB		U
Benzo(k)fluoranthene	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB		U
Benzo(e)pyrene		U	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB
Benzo(a)pyrene		U	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB
Perylene	<1.0	J	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB	1.1	J UB
Indeno(1,2,3-c,d)pyrene		U	<1.0	J UB		U	<1.0	J UB	<1.0	J UB		U
Dibenzo(a,h)anthracene		U		U		U		U		U		U
Benzo(g,h,i)perylene		U		U		U	<1.0	J UB	<1.0	J UB	<1.0	J UB
Total PAHs	52.4		101		83.0		113		62.6		82.3	
Selected Ratios												
D2/P2	0.316		0.316		0.500		0.327		0.260		0.444	
D3/P3	NA		0.429		NA		0.235		0.273		NA	
D2/C2	NA		NA		NA		NA		0.520		NA	
D3/C3	NA		NA		NA		NA		0.843		NA	
Individual Isomers												
2-Methylnaphthalene	3.4	J UB	4.1	J UB	2.7	J UB	3.8	J UB	2.1	J UB	4.3	UB
1-Methylnaphthalene	1.6	J UB	2.2	J UB	1.7	J UB	2.0	J UB	1.2	J UB	2.0	J UB
2,6-Dimethylnaphthalene	2.5	J	4.6		2.5	J	4.8		2.0	J	3.1	
1,6,7-Trimethylnaphthalene	2.3	J	4.8		3.6	J	5.4		1.9	J	2.2	J
1-Methylphenanthrene	<1.0	J	<1.0	J	1.0	J	1.2	J	<1.0	J	<1.0	J

Surrogate (Su)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)
Naphthalene-d8	45	48	42	41	47	41
Acenaphthene-d10	49	56	46	51	58	46
Phenanthrene-d10	48	52	41	47	61	44
Chrysene-d12	48	52	45	46	64	44
Perylene-d12	25	13	18	21	16	15

8/22/01

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

000085

B&B Laboratories Project J00136
Report 00-473

Entrix, Inc.
Pepco Oil Spill Project
Polycyclic Aromatic Hydrocarbon Data
Client Submitted Samples

Client Project # 729901

Sample Name	ETX0932.D	ETX0934.D	ETX0936.D	ETX0938.D	ETX0940.D
Client Name	BI-1 Carcass	JB-1 Carcass	JB-2 Carcass	TH-1 Carcass	IC-1 Carcass
Matrix	Tissue	Tissue	Tissue	Tissue	Tissue
Collection Date	5/12/00	5/12/00	5/12/00	5/12/00	5/12/00
Received Date	5/13/00	5/13/00	5/13/00	5/13/00	5/13/00
Extraction Date	5/18/00	5/18/00	5/18/00	5/18/00	5/18/00
Extraction Batch	ENV 199	ENV 199	ENV 199	ENV 199	ENV 199
Date Acquired	05/29/00	05/29/00	05/29/00	05/29/00	05/29/00
Method	PAH	PAH	PAH	PAH	PAH
Sample Wet Weight (g)	6.8	5.6	5.4	5.7	5.9
% Moisture	75	69	76	73	76
% Dry	25	31	24	27	24
% Lipid Based on Wet Weight	3.0	3.6	1.7	3.4	3.1
% Lipid Based on Dry Weight	12.2	11.6	7.1	12.6	12.8

Target Compounds	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q
Naphthalene	2.5	J UB	2.5	J UB	2.4	J UB	4.6	J UB	4.6	J UB
C1-Naphthalenes	4.1	J UB	3.6	J UB	2.8	J UB	8.3	UB	7.3	UB
C2-Naphthalenes	4.3	J UB	6.4	UB	2.9	J UB	17.1		19.1	
C3-Naphthalenes	5.7		12.2		3.4	J UB	33.0		33.4	
C4-Naphthalenes	3.1	J	8.0		2.3	J	25.9		26.5	
Biphenyl	1.2	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB	1.0	J UB
Acenaphthylene	<1.0	J	<1.0	J		U	<1.0	J	<1.0	J
Acenaphthene	<1.0	J	<1.0	J	<1.0	J	1.2	J	1.1	J
Fluorene	1.7	J	2.2	J	<1.0	J	3.2		2.2	J
C1-Fluorenes	2.0	J UB	3.4	J UB	1.2	J UB	8.7		6.9	
C2-Fluorenes	1.9	J	3.6	J	1.4	J	8.8		8.8	
C3-Fluorenes		U		U		U	6.1		6.0	
Anthracene	<1.0	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J
Phenanthrene	3.1	J	3.4	J UB	1.2	J UB	5.5		4.4	
C1-Phenanthrenes/Anthracenes	1.9	J UB	3.3	J	1.2	J UB	10.6		10.3	
C2-Phenanthrenes/Anthracenes	<1.0	J	2.3	J	1.6	J	11.2		14.7	
C3-Phenanthrenes/Anthracenes	<1.0	J	1.3	J		U	8.6		11.4	
C4-Phenanthrenes/Anthracenes		U		U		U	6.7	J	5.2	J
Dibenzothiophene	<1.0	J	<1.0	J	<1.0	J	1.2	J	<1.0	J
C1-Dibenzothiophenes	<1.0	J	1.0	J	<1.0	J	3.0	J	2.3	J
C2-Dibenzothiophenes		U	<1.0	J		U	4.9		2.6	J
C3-Dibenzothiophenes		U		U		U	8.9		2.3	J
Fluoranthene	<1.0	J UB	1.0	J UB	<1.0	J UB	6.7		1.8	J
Pyrene	<1.0	J UB	<1.0	J UB	<1.0	J UB	25.7		2.3	J UB
C1-Fluoranthenes/Pyrenes		U	<1.0	J	<1.0	J	3.3	J	4.8	J
C2-Fluoranthenes/Pyrenes		U		U		U	6.9		6.1	
C3-Fluoranthenes/Pyrenes		U		U		U	5.1	J	3.1	J
Benz(a)anthracene	<1.0	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J
Chrysene	<1.0	J	<1.0	J	<1.0	J	3.3		3.6	
C1-Chrysenes		U		U		U	4.9	J	4.0	J
C2-Chrysenes		U		U		U	6.2		3.8	J
C3-Chrysenes		U		U		U	5.1	J	1.5	J
C4-Chrysenes		U		U		U		U		U
Benzo(b)fluoranthene		U		U		U	1.3	J	<1.0	J UB
Benzo(k)fluoranthene		U		U		U	<1.0	J UB	<1.0	J UB
Benzo(e)pyrene		U	<1.0	J UB		U	3.2		1.4	J UB
Benzo(a)pyrene		U	<1.0	J UB		U	1.9	J UB	<1.0	J UB
Perylene	<1.0	J UB	<1.0	J UB		U	<1.0	J UB	<1.0	J UB
Indeno(1,2,3-c,d)pyrene		U		U		U	2.8	UB	<1.0	J UB
Dibenzo(a,h)anthracene		U		U		U	<1.0	J		U
Benzo(g,h,i)perylene		U		U		U	9.9	UB	<1.0	J UB
Total PAHs	31.5		54.2		20.4		264		203	
Selected Ratios										
D2/P2	NA		0.348		NA		0.438		0.177	
D3/P3	NA		NA		NA		1.035		0.202	
D2/C2	NA		NA		NA		0.790		0.684	
D3/C3	NA		NA		NA		1.745		1.533	
Individual Isomers										
2-Methylnaphthalene	2.6	J UB	2.4	J UB	1.8	J UB	5.5	UB	4.9	UB
1-Methylnaphthalene	1.5	J UB	1.3	J UB	1.1	J UB	2.8	J UB	2.5	J UB
2,6-Dimethylnaphthalene	1.6	J	2.3	J	<1.0	J UB	6.5		6.1	
1,6,7-Trimethylnaphthalene	1.3	J	2.4	J	<1.0	J	6.4		6.7	
1-Methylphenanthrene	<1.0	J	<1.0	J	<1.0	J	2.2	J	2.2	J

Surrogate (Su)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)
Naphthalene-d8	53	48	44	45	54
Acenaphthene-d10	56	51	49	50	66
Phenanthrene-d10	56	56	49	49	59
Chrysene-d12	56	55	47	50	54
Perylene-d12	23	20	17	19	22

2/22/01

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