

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

**Minerals Management Service - Shelikof Strait and Outermost Cook Inlet**

1997 Final Data (Surrogate Corrected) - Sediment Core - PAH

Field ID	97-0-F1-03-00-PHC-SC	97-0-F1-03-02-PHC-SC	97-0-F1-03-04-PHC-SC	97-0-F1-03-06-PHC-SC
Lab ID	97C1234	97C1240	97C1235	97C1236
SDG	SDGS001	SDGS001	SDGS001	SDGS001
File	DZ9914.D	DZ9921.D	DZ9915.D	DZ9916.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	21.9 g	24.6 g	26.3 g	26.9 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-86PB	BK-S-86PB	BK-S-86PB	BK-S-86PB
Field Date	7/16/1997	7/16/1997	7/16/1997	7/16/1997
Extract Date	7/23/1997	7/23/1997	7/23/1997	7/23/1997
Analysis Date	7/30/1997	7/31/1997	7/30/1997	7/30/1997
Min Reporting Limit	0.00057	0.00051	0.00048	0.00046
Units	ug/g	ug/g	ug/g	ug/g

**PAH**

Naphthalene	0.0041	0.0041	0.0037	0.0032
C1-Naphthalenes	0.0049	0.0053	0.0053	0.0054
C2-Naphthalenes	0.013	0.016	0.014	0.014
C3-Naphthalenes	0.017	0.018	0.016	0.019
C4-Naphthalenes	0.018	0.018	0.016	0.02
Acenaphthylene	0.00033 J	0.0004 J	0.00038 J	0.00049 J
Acenaphthene	0.001	0.0016	0.001	0.0011
Biphenyl	0.0048	0.004	0.0045	0.0029
Fluorene	0.0033	0.0041	0.0038	0.0038
C1-Fluorenes	0.0041	0.0048	0.0032	0.0042
C2-Fluorenes	0.0053	0.0058	0.0048	0.0062
C3-Fluorenes	0.0075	0.011	0.0069	0.0099
Anthracene	0.001	0.0023	0.0015	0.0014
Phenanthrene	0.01	0.014	0.0097	0.01
C1-Phenanthrenes/anthracenes	0.01	0.013	0.0097	0.012
C2-Phenanthrenes/anthracenes	0.0086	0.01	0.0082	0.011
C3-Phenanthrenes/anthracenes	0.013	0.015	0.012	0.014
C4-Phenanthrenes/anthracenes	0.03	0.034	0.026	0.034
Dibenzothiophene	0.0014	0.0018	0.0014	0.0016
C1-Dibenzothiophenes	0.0016	0.0019	0.0015	0.002
C2-Dibenzothiophenes	0.0021	0.0028	0.0021	0.0029
C3-Dibenzothiophenes	0.0009	0.0024	0.0016	0.0023
Fluoranthene	0.0062	0.012	0.0064	0.008
Pyrene	0.0065	0.012	0.0075	0.0094
C1-Fluoranthenes/pyrenes	0.0063	0.0099	0.0065	0.0087
C2-Fluoranthenes/pyrenes	0.006	0.0079	0.0054	0.0072
C3-Fluoranthenes/pyrenes	0.0032	0.0047	0.0032	0.0045
Benzo[a]anthracene	0.0012	0.0031	0.0018	0.0022
Chrysene	0.0033	0.0066	0.0034	0.0048
C1-Chrysenes	0.0031	0.0048	0.0033	0.0042
C2-Chrysenes	0.0024	0.0038	0.0026	0.0033
C3-Chrysenes	ND	ND	ND	ND
C4-Chrysenes	ND	ND	ND	ND
Benzo[b]fluoranthene	0.002	0.0044	0.0021	0.0032
Benzo[k]fluoranthene	0.00047 J	0.0013	0.00055	0.00064
Benzo[e]pyrene	0.0014	0.0032	0.0015	0.0025
Benzo[a]pyrene	0.00078	0.0027	0.00097	0.0018
Perylene	0.033	0.04	0.025	0.037
Indeno[1,2,3,-c,d]pyrene	0.0008	0.002	0.00085	0.0014
Dibenzo[a,h]anthracene	ND	ND	ND	ND
Benzo[g,h,i]perylene	0.0035	0.0087	0.0054	0.007

Total PAH	0.24	0.32	0.23	0.29
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d8-Naphthalene	93	86	95	80
d10-Acenaphthene	98	90	96	85
d10-Phenanthrene	108	95	100	91
d12-Benzo[a]pyrene	104	91	97	87

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Environmental Monitoring and Analysis

**Minerals Management Service - Shelikof Strait and Outermost Cook Inlet**

1997 Final Data (Surrogate Corrected) - Sediment Core - PAH

Field ID	97-0-F1-03-08-PHC-SC	97-0-F1-03-12-PHC-SC	97-0-F1-03-18-PHC-SC	97-0-F1-03-22-PHC-SC
Lab ID	97C1238	97C1239	97C1233REX	97C1241
SDG	SDGS001	SDGS001	SDGS001	SDGS001
File	DZ9918.D	DZ9919.D	DZ9913.D	DZ9922.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	28.2 g	28.9 g	22.1 g	28 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-86PB	BK-S-86PB	BK-S-86PBREX	BK-S-86PB
Field Date	7/16/1997	7/16/1997	7/16/1997	7/16/1997
Extract Date	7/23/1997	7/23/1997	7/25/1997	7/23/1997
Analysis Date	7/30/1997	7/31/1997	7/30/1997	7/31/1997
Min Reporting Limit	0.00044	0.00043	0.00056	0.00045
Units	ug/g	ug/g	ug/g	ug/g

**PAH**

Naphthalene	0.0033	0.0033	0.0048	0.0037
C1-Naphthalenes	0.0059	0.0057	0.0058	0.0059
C2-Naphthalenes	0.016	0.015	0.018	0.017
C3-Naphthalenes	0.019	0.02	0.023	0.023
C4-Naphthalenes	0.022	0.024	0.023	0.022
Acenaphthylene	0.00031 J	0.00051	0.00036 J	0.00027 J
Acenaphthene	0.0012	0.0013	0.0014	0.0014
Biphenyl	0.0031	0.0025	0.0026	0.003
Fluorene	0.0042	0.0046	0.0049	0.005
C1-Fluorenes	0.0051	0.0048	0.0051	0.0057
C2-Fluorenes	0.0068	0.0075	0.0078	0.0086
C3-Fluorenes	0.011	0.012	0.011	0.013
Anthracene	0.0013	0.0025	0.0013	0.0014
Phenanthrene	0.012	0.012	0.012	0.012
C1-Phenanthrenes/anthracenes	0.014	0.016	0.015	0.016
C2-Phenanthrenes/anthracenes	0.013	0.013	0.014	0.014
C3-Phenanthrenes/anthracenes	0.017	0.016	0.016	0.016
C4-Phenanthrenes/anthracenes	0.037	0.038	0.033	0.033
Dibenzothiophene	0.0019	0.0021	0.002	0.002
C1-Dibenzothiophenes	0.0025	0.0026	0.0026	0.0026
C2-Dibenzothiophenes	0.0036	0.0039	0.0036	0.0039
C3-Dibenzothiophenes	0.0028	0.0032	0.0036	0.0019
Fluoranthene	0.0091	0.0095	0.0098	0.0079
Pyrene	0.01	0.011	0.012	0.011
C1-Fluoranthenes/pyrenes	0.0092	0.012	0.01	0.011
C2-Fluoranthenes/pyrenes	0.0081	0.0074	0.0076	0.0071
C3-Fluoranthenes/pyrenes	0.0045	0.0054	0.0059	0.005
Benzo[a]anthracene	0.0017	0.0045	0.002	0.0019
Chrysene	0.0035	0.0071	0.004	0.004
C1-Chrysenes	0.0044	0.006	0.0054	0.0055
C2-Chrysenes	0.0037	0.0044	0.0043	0.0051
C3-Chrysenes	ND	ND	0.0038	ND
C4-Chrysenes	ND	ND	ND	ND
Benzo[b]fluoranthene	0.0026	0.0052	0.0035	0.0029
Benzo[k]fluoranthene	0.00051	0.0013	0.00075	0.00049
Benzo[e]pyrene	0.0024	0.0034	0.003	0.0028
Benzo[a]pyrene	0.0012	0.0022	0.0017	0.0011
Perylene	0.042	0.049	0.06	0.063
Indeno[1,2,3,-c,d]pyrene	0.0011	0.0017	0.0016	0.0013
Dibenzo[a,h]anthracene	ND	ND	ND	ND
Benzo[g,h,i]perylene	0.0079	0.011	0.012	0.011
Total PAH	0.31	0.35	0.36	0.35
d8-Naphthalene	88	88	67	87
d10-Acenaphthene	90	91	78	92
d10-Phenanthrene	95	97	85	103
d12-Benzo[a]pyrene	91	93	77	90

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1997 Final Data (Surrogate Corrected) - Sediment Core - PAH

Field ID	97-0-F1-03-27-PHC-SC	97-0-F1-03-33-PHC-SC	97-0-F5-03-00-PHC-SC	97-0-F5-03-02-PHC-SC
Lab ID	97C1237	97C1232REX	97C1251	97C1254
SDG	SDGS001	SDGS001	SDGS002	SDGS002
File	DZ9917.D	DZ9912.D	DZ9941.D	DZ0131.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	28.2 g	21.8 g	34.5 g	36 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-86PB	BK-S-86PBREX	BK-S-89PB	BK-S-89PB
Field Date	7/16/1997	7/16/1997	7/15/1997	7/15/1997
Extract Date	7/23/1997	7/25/1997	7/24/1997	7/24/1997
Analysis Date	7/30/1997	7/30/1997	8/1/1997	8/14/1997
Min Reporting Limit	0.00044	0.00057	0.00036	0.00069
Units	ug/g	ug/g	ug/g	ug/g
<b>PAH</b>				
Naphthalene	0.004	0.0057	0.0036	0.0033
C1-Naphthalenes	0.006	0.0066	0.0063	0.0067
C2-Naphthalenes	0.019	0.014	0.0096	0.01
C3-Naphthalenes	0.019	0.021	0.014	0.0082
C4-Naphthalenes	0.021	0.021	0.0079	0.0071
Acenaphthylene	0.0003 J	0.00031 J	0.000088 J	0.00011 J
Acenaphthene	0.0013	0.0016	0.00025 J	0.0003 J
Biphenyl	0.0041	0.0024	0.0026	0.0014
Fluorene	0.0041	0.0047	0.00097	0.0011
C1-Fluorenes	0.0053	0.0044	0.0016	0.0017
C2-Fluorenes	0.0069	0.0072	0.0027	0.003
C3-Fluorenes	0.011	0.012	0.004	0.0051
Anthracene	0.0011	0.0014	0.00018 J	0.00027 J
Phenanthrene	0.011	0.011	0.0042	0.0052
C1-Phenanthrenes/anthracenes	0.014	0.015	0.0057	0.0075
C2-Phenanthrenes/anthracenes	0.011	0.014	0.0062	0.0084
C3-Phenanthrenes/anthracenes	0.014	0.015	0.0038	0.0057
C4-Phenanthrenes/anthracenes	0.03	0.031	0.0047	0.0077
Dibenzothiophene	0.0019	0.0018	0.00051	0.00078 J
C1-Dibenzothiophenes	0.0022	0.0021	0.0006	0.001
C2-Dibenzothiophenes	0.0029	0.0027	0.00086	0.0016
C3-Dibenzothiophenes	0.0032	0.0026	0.00054	0.0012
Fluoranthene	0.0072	0.01	0.001	0.0014
Pyrene	0.0094	0.012	0.0011	0.0016
C1-Fluoranthenes/pyrenes	0.0087	0.011	0.0017	0.0029
C2-Fluoranthenes/pyrenes	0.0073	0.0075	0.002	0.0034
C3-Fluoranthenes/pyrenes	0.0047	0.0059	0.0017	0.0029
Benzo[a]anthracene	0.0014	0.0021	0.00033 J	0.00055 J
Chrysene	0.003	0.0036	0.00084	0.0012
C1-Chrysenes	0.0044	0.0046	0.001	0.0018
C2-Chrysenes	0.0036	0.0045	0.0015	0.0023
C3-Chrysenes	ND	0.0033	0.001	0.0017
C4-Chrysenes	ND	ND	ND	0.0019
Benzo[b]fluoranthene	0.0023	0.0034	0.00044	0.00084 J
Benzo[k]fluoranthene	0.00047	0.00068	0.000099 J	0.00014 J
Benzo[e]pyrene	0.002	0.0034	0.00046	0.00082 J
Benzo[a]pyrene	0.00089	0.0016	0.0002 J	0.00027 J
Perylene	0.044	0.059	0.005	0.0077
Indeno[1,2,3,-c,d]pyrene	0.001	0.0015	0.00011 J	0.00032 J
Dibenzo[a,h]anthracene	ND	ND	0.00013 J	0.00018 J
Benzo[g,h,i]perylene	0.0069	0.011	0.0005	0.00087 J
Total PAH	0.3	0.34	0.1	0.12
d8-Naphthalene	84	99	77	73
d10-Acenaphthene	94	104	73	72
d10-Phenanthrene	100	110	81	77
d12-Benzo[a]pyrene	95	91	78	78

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Environmental Monitoring and Analysis

**Minerals Management Service - Shelikof Strait and Outermost Cook Inlet**

1997 Final Data (Surrogate Corrected) - Sediment Core - PAH

Field ID	97-0-F5-03-04-PHC-SC	97-0-F5-03-06-PHC-SC	97-0-F5-03-08-PHC-SC	97-0-F5-03-10-PHC-SC
Lab ID	97C1252	97C1253	97C1249	97C1255
SDG	SDGS002	SDGS002	SDGS002	SDGS002
File	DZ0129.D	DZ0130.D	DZ9939.D	DZ9946.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	37.4 g	36.2 g	36.7 g	36.6 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-89PB	BK-S-89PB	BK-S-89PB	BK-S-89PB
Field Date	7/15/1997	7/15/1997	7/15/1997	7/15/1997
Extract Date	7/24/1997	7/24/1997	7/24/1997	7/24/1997
Analysis Date	8/14/1997	8/14/1997	8/1/1997	8/1/1997
Min Reporting Limit	0.00033	0.00034	0.00034	0.00034
Units	ug/g	ug/g	ug/g	ug/g
<b>PAH</b>				
Naphthalene	0.003	0.0033	0.0035	0.004
C1-Naphthalenes	0.0061	0.0066	0.0068	0.0081
C2-Naphthalenes	0.0099	0.011	0.012	0.013
C3-Naphthalenes	0.0081	0.0086	0.016	0.017
C4-Naphthalenes	0.0072	0.0082	0.0097	0.0086
Acenaphthylene	0.00009 J	0.000091 J	0.00016 J	0.00019 J
Acenaphthene	0.00024 J	0.00034 J	0.00033 J	0.00041 J
Biphenyl	0.0014	0.0014	0.0016	0.0021
Fluorene	0.0011	0.0011	0.0013	0.0017
C1-Fluorenes	0.0018	0.0018	0.0021	0.0022
C2-Fluorenes	0.003	0.0032	0.0036	0.0033
C3-Fluorenes	0.0044	0.0049	0.0054	0.0046
Anthracene	0.0003 J	0.00033 J	0.00038 J	0.00041 J
Phenanthrene	0.0053	0.0054	0.0061	0.0069
C1-Phenanthrenes/anthracenes	0.0074	0.0077	0.0084	0.0089
C2-Phenanthrenes/anthracenes	0.0086	0.0088	0.0088	0.0082
C3-Phenanthrenes/anthracenes	0.0055	0.0064	0.0061	0.0052
C4-Phenanthrenes/anthracenes	0.0064	0.0075	0.0069	0.0062
Dibenzothiophene	0.00062	0.00068	0.00073	0.00081
C1-Dibenzothiophenes	0.0011	0.001	0.00099	0.00091
C2-Dibenzothiophenes	0.0014	0.0014	0.0012	0.0012
C3-Dibenzothiophenes	0.0011	0.0013	0.0011	0.00085
Fluoranthene	0.0016	0.0017	0.002	0.0023
Pyrene	0.0017	0.0019	0.0022	0.0021
C1-Fluoranthenes/pyrenes	0.0029	0.0029	0.0031	0.0031
C2-Fluoranthenes/pyrenes	0.0034	0.0038	0.0035	0.0032
C3-Fluoranthenes/pyrenes	0.0029	0.0032	0.0031	0.0028
Benzo[a]anthracene	0.00055	0.00043 J	0.00061	0.00069
Chrysene	0.0013	0.0013	0.0016	0.0017
C1-Chrysenes	0.002	0.0019	0.0023	0.0023
C2-Chrysenes	0.0022	0.0023	0.0024	0.0023
C3-Chrysenes	0.0016	0.0014	0.0015	0.0014
C4-Chrysenes	0.0022	0.0014	0.0015	0.0013
Benzo[b]fluoranthene	0.00099	0.00097	0.0011	0.0012
Benzo[k]fluoranthene	0.00018 J	0.00016 J	0.00019 J	0.00025 J
Benzo[e]pyrene	0.00098	0.00081	0.001	0.0012
Benzo[a]pyrene	0.00036 J	0.00034 J	0.00045 J	0.00049 J
Perylene	0.0097	0.012	0.014	0.014
Indeno[1,2,3,-c,d]pyrene	0.00039 J	0.00033 J	0.0003 J	0.00042 J
Dibenzo[a,h]anthracene	0.00021 J	0.00022 J	0.00018 J	0.00017 J
Benzo[g,h,i]perylene	0.00098	0.0009	0.00097	0.00077 J
Total PAH	0.12	0.13	0.14	0.15
d8-Naphthalene	70	64	68	69
d10-Acenaphthene	72	65	70	63
d10-Phenanthrene	76	69	74	65
d12-Benzo[a]pyrene	67	67	73	57

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Environmental Monitoring and Analysis

**Minerals Management Service - Shelikof Strait and Outermost Cook Inlet**

1997 Final Data (Surrogate Corrected) - Sediment Core - PAH

Field ID	97-0-F5-03-12-PHC-SC	97-0-F5-03-14-PHC-SC	97-0-F5-03-16-PHC-SC	97-0-F6-03-00-PHC-SC
Lab ID	97C1250	97C1244	97C1248	97C1328
SDG	SDGS002	SDGS002	SDGS002	SDGS005
File	DZ0128.D	DZ9937.D	DZ9938.D	W1241.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	37.9 g	38.5 g	36.6 g	33.8 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-89PB	BK-S-89PB	BK-S-89PB	BK-S-97PB
Field Date	7/15/1997	7/15/1997	7/15/1997	7/15/1997
Extract Date	7/24/1997	7/24/1997	7/24/1997	7/31/1997
Analysis Date	8/14/1997	8/1/1997	8/1/1997	8/28/1997
Min Reporting Limit	0.00033	0.00032	0.00034	0.00037
Units	ug/g	ug/g	ug/g	ug/g

**PAH**

Naphthalene	0.0031	0.0033	0.0035	0.0038 B
C1-Naphthalenes	0.0056	0.0064	0.0069	0.0043
C2-Naphthalenes	0.0097	0.011	0.011	0.0065
C3-Naphthalenes	0.0071	0.014	0.014	0.0049
C4-Naphthalenes	0.0057	0.0083	0.008	0.0031
Acenaphthylene	0.00016 J	0.00017 J	0.00023 J	0.00023 JB
Acenaphthene	0.00026 J	0.00029 J	0.0003 J	0.0003 JB
Biphenyl	0.0014	0.0017	0.0017	0.0015
Fluorene	0.0011	0.0013	0.0013	0.0011 B
C1-Fluorenes	0.0013	0.0017	0.0016	0.0014
C2-Fluorenes	0.0023	0.0026	0.0026	0.0027
C3-Fluorenes	0.0031	0.0039	0.0044	0.003
Anthracene	0.00026 J	0.00031 J	0.00038 J	0.00023 JB
Phenanthrene	0.0046	0.0061	0.0062	0.0048 B
C1-Phenanthrenes/anthracenes	0.0057	0.0076	0.0075	0.0059
C2-Phenanthrenes/anthracenes	0.0063	0.0076	0.0077	0.0073
C3-Phenanthrenes/anthracenes	0.0041	0.0051	0.0051	0.0041
C4-Phenanthrenes/anthracenes	0.0059	0.0064	0.0062	0.0016
Dibenzothiophene	0.0005	0.00064	0.00063	0.00065
C1-Dibenzothiophenes	0.00062	0.00077	0.0008	0.001
C2-Dibenzothiophenes	0.00079	0.0009	0.00072	0.0011
C3-Dibenzothiophenes	0.00059	0.00058	0.0006	0.00083
Fluoranthene	0.0016	0.0017	0.0018	0.0012
Pyrene	0.0016	0.0019	0.002	0.0012
C1-Fluoranthenes/pyrenes	0.0022	0.003	0.0029	0.0021
C2-Fluoranthenes/pyrenes	0.003	0.0033	0.0032	0.0026
C3-Fluoranthenes/pyrenes	0.0024	0.0031	0.0029	0.0022
Benzo[a]anthracene	0.00037 J	0.00061	0.00063	0.00038 J
Chrysene	0.00092	0.0014	0.0015	0.0011
C1-Chrysenes	0.0013	0.0023	0.0021	0.0012
C2-Chrysenes	0.0014	0.0023	0.0021	0.002
C3-Chrysenes	0.0011	0.002	0.0014	0.0015
C4-Chrysenes	0.0006	0.002	0.0017	0.0016
Benzo[b]fluoranthene	0.00078	0.0011	0.0011	0.00066
Benzo[k]fluoranthene	0.00014 J	0.00021 J	0.00018 J	0.00012 J
Benzo[e]pyrene	0.0006	0.0011	0.0011	0.00065
Benzo[a]pyrene	0.00031 J	0.00045 J	0.00051 J	0.00026 J
Perylene	0.0081	0.014	0.015	0.0051
Indeno[1,2,3,-c,d]pyrene	0.00027 J	0.00032 J	0.00029 J	0.00022 J
Dibenzo[a,h]anthracene	0.00013 J	0.00017 J	0.00019 J	0.00015 J
Benzo[g,h,i]perylene	0.00061	0.00072	0.00015 J	0.00067

Total PAH	0.098	0.13	0.13	0.085
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d8-Naphthalene	70	67	66	60
d10-Acenaphthene	70	66	64	74
d10-Phenanthrene	76	70	65	85
d12-Benzo[a]pyrene	78	69	59	72

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

**Minerals Management Service - Shelikof Strait and Outermost Cook Inlet**

1997 Final Data (Surrogate Corrected) - Sediment Core - PAH

Field ID	97-0-F6-03-02-PHC-SC	97-0-F6-03-04-PHC-SC	97-0-F6-03-06-PHC-SC	97-0-F6-03-08-PHC-SC
Lab ID	97C1329	97C1330	97C1331	97C1332
SDG	SDGS005	SDGS005	SDGS005	SDGS005
File	W1243.D	W1244.D	W1245.D	W1246.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	37.8 g	37.4 g	38.6 g	38.3 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-97PB	BK-S-97PB	BK-S-97PB	BK-S-97PB
Field Date	7/15/1997	7/15/1997	7/15/1997	7/15/1997
Extract Date	7/31/1997	7/31/1997	7/31/1997	7/31/1997
Analysis Date	8/28/1997	8/28/1997	8/29/1997	8/29/1997
Min Reporting Limit	0.00033	0.00033	0.00032	0.00033
Units	ug/g	ug/g	ug/g	ug/g
<b>PAH</b>				
Naphthalene	0.0032 B	0.0046 B	0.0035 B	0.0045 B
C1-Naphthalenes	0.0041	0.0059	0.0045	0.006
C2-Naphthalenes	0.0061	0.0088	0.007	0.0093
C3-Naphthalenes	0.0041	0.0064	0.0049	0.0055
C4-Naphthalenes	0.0029	0.0041	0.0035	0.0038
Acenaphthylene	0.00019 JB	0.00024 JB	0.0002 JB	0.00018 JB
Acenaphthene	0.00027 JB	0.00038 JB	0.00032 JB	0.00045 JB
Biphenyl	0.0013	0.0018	0.0015	0.0018
Fluorene	0.001 B	0.0016 B	0.0014 B	0.0015 B
C1-Fluorenes	0.0012	0.0018	0.0013	0.0014
C2-Fluorenes	0.0025	0.0033	0.0023	0.0028
C3-Fluorenes	0.0031	0.0043	0.0027	0.0034
Anthracene	0.00024 JB	0.00046 B	0.00031 JB	0.00033 JB
Phenanthrene	0.0046 B	0.007	0.0057	0.0067
C1-Phenanthrenes/anthracenes	0.0056	0.008	0.0064	0.0076
C2-Phenanthrenes/anthracenes	0.0068	0.0094	0.0071	0.0087
C3-Phenanthrenes/anthracenes	0.0038	0.0053	0.0039	0.0047
C4-Phenanthrenes/anthracenes	0.0061	0.0025	0.0049	0.0073
Dibenzothiophene	0.00065	0.0009	0.00071	0.00081
C1-Dibenzothiophenes	0.00096	0.0013	0.00096	0.0015
C2-Dibenzothiophenes	0.00099	0.0012	0.00069	0.00086
C3-Dibenzothiophenes	0.00083	0.00082	0.00051	0.00062
Fluoranthene	0.0013	0.0025	0.0017	0.0014
Pyrene	0.0013	0.0025	0.0017	0.0018
C1-Fluoranthenes/pyrenes	0.0024	0.0037	0.0025	0.0032
C2-Fluoranthenes/pyrenes	0.0031	0.0045	0.0031	0.0043
C3-Fluoranthenes/pyrenes	0.0026	0.0035	0.0028	0.0037
Benzo[a]anthracene	0.00042	0.00075	0.00045	0.00051
Chrysene	0.0012	0.0017	0.0013	0.0015
C1-Chrysenes	0.0017	0.0022	0.0018	0.0021
C2-Chrysenes	0.0026	0.0027	0.0023	0.0025
C3-Chrysenes	0.0015	0.002	0.0017	0.0023
C4-Chrysenes	0.0037	0.0035	0.0024	0.0028
Benzo[b]fluoranthene	0.00069	0.0012	0.0008	0.00087
Benzo[k]fluoranthene	0.00014 J	0.00028 J	0.00016 J	0.00015 J
Benzo[e]pyrene	0.00075	0.0011	0.00086	0.001
Benzo[a]pyrene	0.00028 J	0.00062	0.00036 J	0.0004 J
Perylene	0.0067	0.012	0.011	0.015
Indeno[1,2,3,-c,d]pyrene	0.00018 J	0.00034 J	0.0002 J	0.00022 J
Dibenzo[a,h]anthracene	0.00014 J	0.00019 J	0.00015 J	0.00018 J
Benzo[g,h,i]perylene	0.00087	0.0011	0.00073	0.00089
Total PAH	0.092	0.13	0.1	0.12
d8-Naphthalene	66	52	66	65
d10-Acenaphthene	75	61	74	71
d10-Phenanthrene	84	71	83	79
d12-Benzo[a]pyrene	76	64	74	73

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

**Minerals Management Service - Shelikof Strait and Outermost Cook Inlet**

1997 Final Data (Surrogate Corrected) - Sediment Core - PAH

Field ID	97-0-F6-03-12-PHC-SC	97-0-F6-03-15-PHC-SC	97-0-F6-03-18-PHC-SC	97-0-F6-03-22-PHC-SC
Lab ID	97C1333	97C1334	97C1335	97C1336
SDG	SDGS005	SDGS005	SDGS005	SDGS005
File	W1247.D	W1248.D	W1249.D	W1250.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	38.3 g	38.7 g	38 g	38.7 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-97PB	BK-S-97PB	BK-S-97PB	BK-S-97PB
Field Date	7/15/1997	7/15/1997	7/15/1997	7/15/1997
Extract Date	7/31/1997	7/31/1997	7/31/1997	7/31/1997
Analysis Date	8/29/1997	8/29/1997	8/29/1997	8/29/1997
Min Reporting Limit	0.00033	0.00032	0.00033	0.00032
Units	ug/g	ug/g	ug/g	ug/g

**PAH**

Naphthalene	0.0042 B	0.0039 B	0.0042 B	0.0034 B
C1-Naphthalenes	0.0057	0.006	0.006	0.0051
C2-Naphthalenes	0.0084	0.0086	0.0093	0.0075
C3-Naphthalenes	0.0054	0.0059	0.0062	0.0049
C4-Naphthalenes	0.0034	0.0036	0.0044	0.0038
Acenaphthylene	0.000081 JB	0.00009 JB	0.000096 JB	0.000082 JB
Acenaphthene	0.00039 JB	0.00037 JB	0.00034 JB	0.00038 JB
Biphenyl	0.0018	0.0018	0.0019	0.0016
Fluorene	0.0012 B	0.0011 B	0.0012 B	0.0011 B
C1-Fluorenes	0.0013	0.0014	0.0016	0.0014
C2-Fluorenes	0.0026	0.002	0.0031	0.0025
C3-Fluorenes	0.003	0.0032	0.004	0.003
Anthracene	0.00023 JB	0.00023 JB	0.00024 JB	0.00023 JB
Phenanthrene	0.0059	0.0058	0.0062	0.0057
C1-Phenanthrenes/anthracenes	0.0075	0.0073	0.0083	0.007
C2-Phenanthrenes/anthracenes	0.0081	0.0083	0.0096	0.0079
C3-Phenanthrenes/anthracenes	0.0048	0.0049	0.0057	0.0043
C4-Phenanthrenes/anthracenes	0.0024	0.0027	0.003	0.0023
Dibenzothiophene	0.00076	0.00076	0.00079	0.0007
C1-Dibenzothiophenes	0.0013	0.0015	0.0015	0.0014
C2-Dibenzothiophenes	0.0008	0.00081	0.00082	0.00069
C3-Dibenzothiophenes	0.00064	0.00061	0.00061	0.00053
Fluoranthene	0.001 B	0.00095 B	0.001 B	0.001 B
Pyrene	0.0014	0.0014	0.0015	0.0014
C1-Fluoranthenes/pyrenes	0.0031	0.003	0.0036	0.0032
C2-Fluoranthenes/pyrenes	0.0042	0.0042	0.0046	0.0041
C3-Fluoranthenes/pyrenes	0.0036	0.0035	0.0041	0.0032
Benzo[a]anthracene	0.0004	0.0004	0.00044	0.0004
Chrysene	0.0013	0.0013	0.0016	0.0014
C1-Chrysenes	0.0022	0.0021	0.0026	0.0019
C2-Chrysenes	0.0026	0.0025	0.0028	0.0025
C3-Chrysenes	0.0023	0.0022	0.0027	0.002
C4-Chrysenes	0.0026	0.0024	0.0032	0.0025
Benzo[b]fluoranthene	0.00078	0.00075	0.00085	0.00074
Benzo[k]fluoranthene	0.00011 J	0.000094 J	0.00011 J	0.000086 J
Benzo[e]pyrene	0.00091	0.00089	0.001	0.00089
Benzo[a]pyrene	0.00028 J	0.00029 J	0.00031 J	0.00027 J
Perylene	0.014	0.015	0.016	0.016
Indeno[1,2,3,-c,d]pyrene	0.00016 J	0.00019 J	0.00016 J	0.00015 J
Dibenzo[a,h]anthracene	0.00017 J	0.00016 J	0.00017 J	0.00015 J
Benzo[g,h,i]perylene	0.0008	0.00077	0.00089	0.0008

Total PAH	0.11	0.11	0.13	0.11
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d8-Naphthalene	66	71	65	65
d10-Acenaphthene	74	78	73	73
d10-Phenanthrene	83	85	82	81
d12-Benzo[a]pyrene	76	79	75	74

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

**Minerals Management Service - Shelikof Strait and Outermost Cook Inlet**

1997 Final Data (Surrogate Corrected) - Sediment Core - PAH

Field ID	97-0-F6-03-25-PHC-SC	97-1-F1-03-00-PHC-SC	97-1-F1-03-02-PHC-SC	97-1-F1-03-04-PHC-SC
Lab ID	97C1337	97C1391	97C1393	97C1392
SDG	SDGS005	SDGS004	SDGS004	SDGS004
File	W1252.D	DX4761.D	DX4764.D	DX4763.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	37.8 g	29.6 g	30 g	32.3 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-97PB	BK-S-94PB	BK-S-94PB	BK-S-94PB
Field Date	7/15/1997	7/14/1997	7/14/1997	7/14/1997
Extract Date	7/31/1997	7/31/1997	7/31/1997	7/31/1997
Analysis Date	8/29/1997	8/22/1997	8/22/1997	8/22/1997
Min Reporting Limit	0.00033	0.00042	0.00042	0.00039
Units	ug/g	ug/g	ug/g	ug/g
<b>PAH</b>				
Naphthalene	0.0041 B	0.0079 B	0.0073 B	0.0076 B
C1-Naphthalenes	0.0062	0.019	0.019	0.02
C2-Naphthalenes	0.0093	0.041	0.044	0.046
C3-Naphthalenes	0.0059	0.038	0.039	0.042
C4-Naphthalenes	0.0043	0.026	0.029	0.027
Acenaphthylene	0.000072 JB	0.00019 JB	0.00008 JB	0.00017 JB
Acenaphthene	0.00039 JB	0.00082 B	0.00079 B	0.00082 B
Biphenyl	0.0019	0.0054	0.0053	0.0054
Fluorene	0.0011 B	0.0048	0.0049	0.0052
C1-Fluorenes	0.0014	0.0093	0.0099	0.01
C2-Fluorenes	0.0029	0.014	0.016	0.015
C3-Fluorenes	0.0035	0.016	0.017	0.017
Anthracene	0.00026 JB	0.00073	0.00074	0.00072
Phenanthrene	0.0063	0.018	0.016	0.016
C1-Phenanthrenes/anthracenes	0.0079	0.031	0.03	0.029
C2-Phenanthrenes/anthracenes	0.009	0.032	0.03	0.03
C3-Phenanthrenes/anthracenes	0.0054	0.019	0.017	0.017
C4-Phenanthrenes/anthracenes	0.0032	0.011	0.0093	0.0071
Dibenzothiophene	0.00083	0.0024	0.0021	0.0022
C1-Dibenzothiophenes	0.0011	0.0043	0.0039	0.0047
C2-Dibenzothiophenes	0.00081	0.0048	0.0044	0.0042
C3-Dibenzothiophenes	0.0006	0.0029	0.0027 L	0.0023 L
Fluoranthene	0.001 B	0.0032	0.0031	0.003
Pyrene	0.0015	0.0038	0.0035	0.0036
C1-Fluoranthenes/pyrenes	0.0033	0.013	0.011	0.01
C2-Fluoranthenes/pyrenes	0.0045	0.015	0.015	0.013
C3-Fluoranthenes/pyrenes	0.0037	0.013	0.014	0.011
Benzo[a]anthracene	0.00042	0.0016	0.0015	0.0014
Chrysene	0.0015	0.0051	0.0052	0.0045
C1-Chrysenes	0.0023	0.0069	0.0073	0.0059
C2-Chrysenes	0.0028	0.012	0.011	0.0084
C3-Chrysenes	0.0027	0.0085	0.0076	0.0062
C4-Chrysenes	0.0029	0.014	0.011	0.0093
Benzo[b]fluoranthene	0.00087	0.0029	0.003	0.0023
Benzo[k]fluoranthene	0.000077 J	0.00026 J	0.00021 J	0.00021 J
Benzo[e]pyrene	0.00097	0.003	0.0034	0.003
Benzo[a]pyrene	0.00026 J	0.00084	0.00095	0.00078
Perylene	0.018	0.0088	0.0096	0.0092
Indeno[1,2,3,-c,d]pyrene	0.00018 J	0.00082	0.00097	0.0008
Dibenzo[a,h]anthracene	0.00018 J	0.00057 J	0.00068	0.00052 J
Benzo[g,h,i]perylene	0.00079	0.0025	0.0025	0.0019
Total PAH	0.12	0.42	0.42	0.4
d8-Naphthalene	63	62	67	70
d10-Acenaphthene	69	68	75	78
d10-Phenanthrene	78	68	88	92
d12-Benzo[a]pyrene	72	56	68	64



**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

**Minerals Management Service - Shelikof Strait and Outermost Cook Inlet**

1997 Final Data (Surrogate Corrected) - Sediment Core - PAH

Field ID	97-1-F1-03-06-PHC-SC	97-1-F1-03-08-PHC-SC	97-1-F1-03-12-PHC-SC	97-1-F1-03-15-PHC-SC
Lab ID	97C1394	97C1395	97C1398REX	97C1396
SDG	SDGS004	SDGS004	SDGS004	SDGS004
File	DX4765.D	DX4766.D	DX4769.D	DX4767.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	32.9 g	32 g	28.1 g	31.5 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-94PB	BK-S-94PB	BK-S-94PB	BK-S-94PB
Field Date	7/14/1997	7/14/1997	7/14/1997	7/14/1997
Extract Date	7/31/1997	7/31/1997	7/31/1997	7/31/1997
Analysis Date	8/22/1997	8/22/1997	8/22/1997	8/22/1997
Min Reporting Limit	0.00038	0.00039	0.00044	0.0004
Units	ug/g	ug/g	ug/g	ug/g
<b>PAH</b>				
Naphthalene	0.0068 B	0.0078 B	0.0055 B	0.0074 B
C1-Naphthalenes	0.018	0.021	0.019	0.022
C2-Naphthalenes	0.042	0.053	0.048	0.051
C3-Naphthalenes	0.037	0.05	0.046	0.048
C4-Naphthalenes	0.02	0.034	0.036	0.035
Acenaphthylene	0.00013 JB	0.000086 JB	0.000037 JB	0.000058 JB
Acenaphthene	0.00078 B	0.00091 B	0.00088 B	0.00096 B
Biphenyl	0.0049	0.0058	0.0054	0.0058
Fluorene	0.0046	0.0061	0.0058	0.0059
C1-Fluorenes	0.0087	0.012	0.011	0.012
C2-Fluorenes	0.014	0.02	0.019	0.019
C3-Fluorenes	0.014	0.02	0.018	0.02
Anthracene	0.00068	0.00075	0.00083	0.00062
Phenanthrene	0.017	0.019	0.019	0.018
C1-Phenanthrenes/anthracenes	0.03	0.036	0.037	0.034
C2-Phenanthrenes/anthracenes	0.028	0.036	0.039	0.037
C3-Phenanthrenes/anthracenes	0.016	0.021	0.021	0.02
C4-Phenanthrenes/anthracenes	0.0086	0.012	0.012	0.01
Dibenzothiophene	0.0022	0.0025	0.0026	0.0023
C1-Dibenzothiophenes	0.004	0.0049	0.0048	0.0048
C2-Dibenzothiophenes	0.0042	0.0053	0.0055	0.0051
C3-Dibenzothiophenes	0.0023 L	0.0028 L	0.0029 L	0.0036
Fluoranthene	0.003	0.0028	0.0025	0.0027
Pyrene	0.0036	0.004	0.0042	0.0042
C1-Fluoranthenes/pyrenes	0.011	0.013	0.015	0.012
C2-Fluoranthenes/pyrenes	0.012	0.016	0.019	0.016
C3-Fluoranthenes/pyrenes	0.011	0.016	0.018	0.015
Benzo[a]anthracene	0.0012	0.0016	0.0013	0.0012
Chrysene	0.0047	0.0049	0.005	0.0048
C1-Chrysenes	0.0058	0.0087	0.0088	0.0081
C2-Chrysenes	0.0077	0.011	0.012	0.01
C3-Chrysenes	0.0062	0.0082	0.0097	0.0081
C4-Chrysenes	0.007	0.0083	0.0078	0.0077
Benzo[b]fluoranthene	0.0023	0.0033	0.0033	0.0031
Benzo[k]fluoranthene	0.00022 J	0.00027 J	0.00019 J	0.00027 J
Benzo[e]pyrene	0.0025	0.004	0.0033	0.0034
Benzo[a]pyrene	0.00068	0.0011	0.00095	0.00092
Perylene	0.0093	0.018	0.011	0.015
Indeno[1,2,3,-c,d]pyrene	0.00067	0.0012	0.00069	0.00089
Dibenzo[a,h]anthracene	0.00039 J	0.00087	0.00069	0.00059 J
Benzo[g,h,i]perylene	0.0017	0.0032	0.0024	0.0026
Total PAH	0.37	0.5	0.48	0.48
d8-Naphthalene	79	60	103	62
d10-Acenaphthene	83	70	108	69
d10-Phenanthrene	81	85	113	81
d12-Benzo[a]pyrene	69	62	105	64

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

**Minerals Management Service - Shelikof Strait and Outermost Cook Inlet**

1997 Final Data (Surrogate Corrected) - Sediment Core - PAH

Field ID	97-1-F1-03-19-PHC-SC	97-1-F1-03-21-PHC-SC	97-1-F1-03-26-PHC-SC	97-1-F2-03-00-PHC-SC
Lab ID	97C1397	97C1399	97C1400	97C1279
SDG	SDGS004	SDGS004	SDGS004	SDGS003
File	DX4768.D	DX4770.D	DX4771.D	DZ0061.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	31.9 g	33 g	32.8 g	21.2 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-94PB	BK-S-94PB	BK-S-94PB	BK-S-91PB
Field Date	7/14/1997	7/14/1997	7/14/1997	7/14/1997
Extract Date	7/31/1997	7/31/1997	7/31/1997	7/24/1997
Analysis Date	8/22/1997	8/22/1997	8/22/1997	8/9/1997
Min Reporting Limit	0.00039	0.00038	0.00038	0.00059
Units	ug/g	ug/g	ug/g	ug/g

**PAH**

Naphthalene	0.0085 B	0.0094 B	0.0089 B	0.0095
C1-Naphthalenes	0.027	0.03	0.029	0.03
C2-Naphthalenes	0.066	0.072	0.068	0.063
C3-Naphthalenes	0.063	0.068	0.064	0.063
C4-Naphthalenes	0.045	0.048	0.044	0.035
Acenaphthylene	0.000082 JB	0.000056 JB	0.00008 JB	0.00011 J
Acenaphthene	0.0011 B	0.0012 B	0.0011 B	0.0013
Biphenyl	0.0074	0.008	0.0075	0.0092
Fluorene	0.0077	0.0082	0.0075	0.0083
C1-Fluorenes	0.015	0.015	0.016	0.015
C2-Fluorenes	0.019 L	0.03	0.024	0.022
C3-Fluorenes	0.02	0.025	0.024	0.024
Anthracene	0.0011	0.0013	0.0011	0.001
Phenanthrene	0.027	0.03	0.027	0.028
C1-Phenanthrenes/anthracenes	0.046 L	0.056	0.052	0.05
C2-Phenanthrenes/anthracenes	0.04	0.056	0.052	0.037
C3-Phenanthrenes/anthracenes	0.029	0.034	0.031	0.021
C4-Phenanthrenes/anthracenes	0.015	0.014	0.019	0.017
Dibenzothiophene	0.0037	0.0039	0.0035	0.0036
C1-Dibenzothiophenes	0.0067	0.0074	0.0076	0.0054
C2-Dibenzothiophenes	0.0063	0.0074	0.0072	0.0056
C3-Dibenzothiophenes	0.0038 L	0.0041 L	0.0045	0.004
Fluoranthene	0.0029	0.0034	0.0033	0.005
Pyrene	0.0059	0.0064	0.006	0.0063
C1-Fluoranthenes/pyrenes	0.018	0.023	0.02	0.018
C2-Fluoranthenes/pyrenes	0.023	0.027	0.024	0.018
C3-Fluoranthenes/pyrenes	0.02	0.023	0.023	0.017
Benzo[a]anthracene	0.0025	0.0021	0.002	0.0022
Chrysene	0.0078	0.0076	0.0067	0.0073
C1-Chrysenes	0.012	0.013	0.012	0.01
C2-Chrysenes	0.015	0.017	0.015	0.013
C3-Chrysenes	0.011	0.012	0.011	0.0073
C4-Chrysenes	0.0089	0.011	0.011	0.0058
Benzo[b]fluoranthene	0.0041	0.0044	0.0041	0.0041
Benzo[k]fluoranthene	0.0002 J	0.00043 J	0.00033 J	0.00043 J
Benzo[e]pyrene	0.0042	0.0048	0.0045	0.0035
Benzo[a]pyrene	0.0011	0.0012	0.0011	0.0011
Perylene	0.019	0.024	0.023	0.0062
Indeno[1,2,3,-c,d]pyrene	0.00082	0.00092	0.00086	0.0008
Dibenzo[a,h]anthracene	0.00076	0.00086	0.00072	0.00072
Benzo[g,h,i]perylene	0.0028	0.0032	0.0031	0.0028

Total PAH	0.62	0.71	0.67	0.58
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d8-Naphthalene	67	67	71	94
d10-Acenaphthene	73	71	75	91
d10-Phenanthrene	73	70	75	100
d12-Benzo[a]pyrene	67	63	65	99

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

**Minerals Management Service - Shelikof Strait and Outermost Cook Inlet**

1997 Final Data (Surrogate Corrected) - Sediment Core - PAH

Field ID	97-1-F2-03-02-PHC-SC	97-1-F2-03-04-PHC-SC	97-1-F2-03-06-PHC-SC	97-1-F2-03-08-PHC-SC
Lab ID	97C1272	97C1277	97C1274	97C1276
SDG	SDGS003	SDGS003	SDGS003	SDGS003
File	DZ0054.D	DZ0059.D	DZ0056.D	DZ0058.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	25.8 g	27.4 g	26.9 g	28 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-91PB	BK-S-91PB	BK-S-91PB	BK-S-91PB
Field Date	7/14/1997	7/14/1997	7/14/1997	7/14/1997
Extract Date	7/24/1997	7/24/1997	7/24/1997	7/24/1997
Analysis Date	8/8/1997	8/9/1997	8/9/1997	8/9/1997
Min Reporting Limit	0.00048	0.00046	0.00046	0.00045
Units	ug/g	ug/g	ug/g	ug/g
<b>PAH</b>				
Naphthalene	0.0083	0.0077	0.0073	0.0074
C1-Naphthalenes	0.027	0.027	0.026	0.026
C2-Naphthalenes	0.058	0.06	0.057	0.061
C3-Naphthalenes	0.058	0.06	0.058	0.063
C4-Naphthalenes	0.033	0.035	0.031	0.036
Acenaphthylene	0.00014 J	0.00016 J	0.00015 J	0.00014 J
Acenaphthene	0.0012	0.0012	0.0011	0.0012
Biphenyl	0.0079	0.0079	0.0075	0.0078
Fluorene	0.0078	0.0082	0.0075	0.0078
C1-Fluorenes	0.015	0.016	0.014	0.015
C2-Fluorenes	0.02	0.022	0.02	0.021
C3-Fluorenes	0.023	0.024	0.022	0.023
Anthracene	0.0011	0.001	0.00093	0.00099
Phenanthrene	0.026	0.028	0.026	0.029
C1-Phenanthrenes/anthracenes	0.044	0.048	0.044	0.048
C2-Phenanthrenes/anthracenes	0.034	0.039	0.035	0.04
C3-Phenanthrenes/anthracenes	0.021	0.023	0.021	0.025
C4-Phenanthrenes/anthracenes	0.015	0.017	0.016	0.018
Dibenzothiophene	0.0033	0.0035	0.0032	0.0036
C1-Dibenzothiophenes	0.0048	0.0057	0.0053	0.0058
C2-Dibenzothiophenes	0.0052	0.0061	0.0053	0.006
C3-Dibenzothiophenes	0.0038	0.0039	0.0034	0.0045
Fluoranthene	0.0048	0.0052	0.0044	0.005
Pyrene	0.0057	0.0064	0.0055	0.0064
C1-Fluoranthenes/pyrenes	0.016	0.018	0.017	0.019
C2-Fluoranthenes/pyrenes	0.017	0.02	0.018	0.021
C3-Fluoranthenes/pyrenes	0.016	0.02	0.018	0.02
Benzo[a]anthracene	0.002	0.0022	0.0019	0.0023
Chrysene	0.0063	0.0071	0.0065	0.0077
C1-Chrysenes	0.009	0.011	0.0092	0.012
C2-Chrysenes	0.01	0.012	0.012	0.014
C3-Chrysenes	0.0063	0.0081	0.0081	0.0097
C4-Chrysenes	0.0041	0.005	0.0044	0.0056
Benzo[b]fluoranthene	0.0035	0.0043	0.0038	0.0045
Benzo[k]fluoranthene	0.00043 J	0.00044	0.00042 J	0.00052
Benzo[e]pyrene	0.0033	0.0042	0.0036	0.0047
Benzo[a]pyrene	0.001	0.0013	0.00096	0.0012
Perylene	0.0066	0.0094	0.0083	0.011
Indeno[1,2,3,-c,d]pyrene	0.00071	0.00095	0.0008	0.0011
Dibenzo[a,h]anthracene	0.00055	0.00079	0.00066	0.00094
Benzo[g,h,i]perylene	0.0027	0.0034	0.0028	0.0037
Total PAH	0.53	0.58	0.54	0.6
d8-Naphthalene	93	96	107	101
d10-Acenaphthene	92	96	102	98
d10-Phenanthrene	105	105	108	101
d12-Benzo[a]pyrene	107	95	104	94

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

**Minerals Management Service - Shelikof Strait and Outermost Cook Inlet**

1997 Final Data (Surrogate Corrected) - Sediment Core - PAH

Field ID	97-1-F2-03-12-PHC-SC	97-1-F2-03-14-PHC-SC	97-1-F2-03-16-PHC-SC	97-1-F2-03-18-PHC-SC
Lab ID	97C1278	97C1269	97C1268	97C1271
SDG	SDGS003	SDGS003	SDGS003	SDGS003
File	DZ0060.D	DZ0049.D	DZ0048.D	DZ0051.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	30.1 g	28.2 g	29.7 g	30 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-91PB	BK-S-91PB	BK-S-91PB	BK-S-91PB
Field Date	7/14/1997	7/14/1997	7/14/1997	7/14/1997
Extract Date	7/24/1997	7/24/1997	7/24/1997	7/24/1997
Analysis Date	8/9/1997	8/8/1997	8/8/1997	8/8/1997
Min Reporting Limit	0.00042	0.00044	0.00042	0.00042
Units	ug/g	ug/g	ug/g	ug/g
<b>PAH</b>				
Naphthalene	0.0068	0.0067	0.005	0.0073
C1-Naphthalenes	0.025	0.023	0.018	0.027
C2-Naphthalenes	0.058	0.052	0.04	0.06
C3-Naphthalenes	0.061	0.055	0.044	0.062
C4-Naphthalenes	0.034	0.034	0.025	0.035
Acenaphthylene	0.0001 J	0.00012 J	ND	ND
Acenaphthene	0.0011	0.001	0.00078	0.0011
Biphenyl	0.0073	0.0067	0.0052	0.0076
Fluorene	0.0076	0.007	0.0055	0.0077
C1-Fluorenes	0.015	0.013	0.011	0.015
C2-Fluorenes	0.022	0.02	0.016	0.022
C3-Fluorenes	0.024	0.02	0.016	0.023
Anthracene	0.001	0.00087	0.00073	0.00089
Phenanthrene	0.026	0.023	0.019	0.026
C1-Phenanthrenes/anthracenes	0.047	0.042	0.034	0.046
C2-Phenanthrenes/anthracenes	0.039	0.035	0.03	0.039
C3-Phenanthrenes/anthracenes	0.024	0.021	0.018	0.024
C4-Phenanthrenes/anthracenes	0.018	0.016	0.014	0.018
Dibenzothiophene	0.0033	0.0029	0.0024	0.0032
C1-Dibenzothiophenes	0.0055	0.005	0.0042	0.0054
C2-Dibenzothiophenes	0.006	0.0051	0.0045	0.0056
C3-Dibenzothiophenes	0.0041	0.0035	0.0032	0.0038
Fluoranthene	0.0042	0.0037	0.0031	0.0038
Pyrene	0.0061	0.0055	0.0047	0.0057
C1-Fluoranthenes/pyrenes	0.018	0.016	0.014	0.019
C2-Fluoranthenes/pyrenes	0.021	0.018	0.016	0.02
C3-Fluoranthenes/pyrenes	0.019	0.017	0.016	0.019
Benzo[a]anthracene	0.0022	0.0017	0.0016	0.0017
Chrysene	0.0075	0.0064	0.0054	0.0064
C1-Chrysenes	0.012	0.0097	0.0089	0.0098
C2-Chrysenes	0.014	0.012	0.01	0.012
C3-Chrysenes	0.0091	0.0076	0.0065	0.0082
C4-Chrysenes	0.0058	0.0046	0.0042	0.005
Benzo[b]fluoranthene	0.0045	0.0037	0.0034	0.0036
Benzo[k]fluoranthene	0.00044	0.00036 J	0.00031 J	0.00031 J
Benzo[e]pyrene	0.0041	0.0035	0.0032	0.0036
Benzo[a]pyrene	0.0011	0.00097	0.00088	0.00092
Perylene	0.01	0.0097	0.0093	0.011
Indeno[1,2,3,-c,d]pyrene	0.00092	0.00083	0.00073	0.00074
Dibenzo[a,h]anthracene	0.00085	0.00068	0.00064	0.00069
Benzo[g,h,i]perylene	0.0034	0.003	0.0029	0.003
Total PAH	0.58	0.52	0.43	0.57
d8-Naphthalene	91	87	95	93
d10-Acenaphthene	92	91	97	92
d10-Phenanthrene	99	103	110	101
d12-Benzo[a]pyrene	104	103	107	103

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

**Minerals Management Service - Shelikof Strait and Outermost Cook Inlet**

1997 Final Data (Surrogate Corrected) - Sediment Core - PAH

Field ID	97-1-F2-03-20-PHC-SC	97-1-F2-03-22-PHC-SC	97-1-F2-03-27-PHC-SC	97-2-F1-03-00-PHC-SC
Lab ID	97C1273	97C1270	97C1275	97C1401
SDG	SDGS003	SDGS003	SDGS003	SDGS002
File	DZ0055.D	DZ0050.D	DZ0057.D	DZ0136.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	24.9 g	29 g	27 g	9.24 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-91PB	BK-S-91PB	BK-S-91PB	BK-S-89PB
Field Date	7/14/1997	7/14/1997	7/14/1997	7/13/1997
Extract Date	7/24/1997	7/24/1997	7/24/1997	7/24/1997
Analysis Date	8/8/1997	8/8/1997	8/9/1997	8/14/1997
Min Reporting Limit	0.0005	0.00043	0.00046	0.0014
Units	ug/g	ug/g	ug/g	ug/g
<b>PAH</b>				
Naphthalene	0.0087	0.0084	0.0081	0.0088
C1-Naphthalenes	0.033	0.032	0.03	0.02
C2-Naphthalenes	0.074	0.071	0.065	0.038
C3-Naphthalenes	0.077	0.076	0.067	0.033
C4-Naphthalenes	0.046	0.043	0.038	0.025
Acenaphthylene	ND	ND	ND	0.0003 J
Acenaphthene	0.0014	0.0014	0.0013	0.0011 J
Biphenyl	0.0094	0.0092	0.0085	0.0052
Fluorene	0.0094	0.0092	0.0084	0.0054
C1-Fluorenes	0.019	0.018	0.017	0.0096
C2-Fluorenes	0.028	0.026	0.022	0.014
C3-Fluorenes	0.031	0.028	0.026	0.017
Anthracene	0.001	0.0011	0.00084	0.00072 J
Phenanthrene	0.033	0.032	0.028	0.02
C1-Phenanthrenes/anthracenes	0.059	0.057	0.048	0.032
C2-Phenanthrenes/anthracenes	0.05	0.047	0.039	0.032
C3-Phenanthrenes/anthracenes	0.033	0.03	0.024	0.019
C4-Phenanthrenes/anthracenes	0.023	0.023	0.018	0.016
Dibenzothiophene	0.004	0.004	0.0035	0.0026
C1-Dibenzothiophenes	0.0072	0.0066	0.0056	0.0039
C2-Dibenzothiophenes	0.0084	0.0068	0.0056	0.005
C3-Dibenzothiophenes	0.0065	0.0047	0.0039	0.0038
Fluoranthene	0.0044	0.004	0.0037	0.0046
Pyrene	0.0077	0.0073	0.0061	0.005
C1-Fluoranthenes/pyrenes	0.023	0.024	0.018	0.013
C2-Fluoranthenes/pyrenes	0.025	0.024	0.018	0.016
C3-Fluoranthenes/pyrenes	0.023	0.024	0.017	0.015
Benzo[a]anthracene	0.0021	0.0022	0.0016	0.0018 J
Chrysene	0.0087	0.0084	0.0065	0.0057
C1-Chrysenes	0.014	0.013	0.0095	0.008
C2-Chrysenes	0.016	0.015	0.011	0.0097
C3-Chrysenes	0.01	0.01	0.0072	0.0069
C4-Chrysenes	0.0062	0.006	0.0048	0.015
Benzo[b]fluoranthene	0.0047	0.0048	0.0033	0.0036
Benzo[k]fluoranthene	0.00038 J	0.00046	0.00024 J	0.00062 J
Benzo[e]pyrene	0.0052	0.0045	0.0036	0.0035
Benzo[a]pyrene	0.0013	0.0012	0.0009	0.001 J
Perylene	0.015	0.015	0.012	0.015
Indeno[1,2,3,-c,d]pyrene	0.001	0.00087	0.00066	0.00095 J
Dibenzo[a,h]anthracene	0.001	0.00086	0.00063	0.00063 J
Benzo[g,h,i]perylene	0.0046	0.0039	0.0027	0.0036
Total PAH	0.73	0.7	0.59	0.44
d8-Naphthalene	102	98	96	66
d10-Acenaphthene	101	98	94	69
d10-Phenanthrene	107	106	105	74
d12-Benzo[a]pyrene	92	109	103	78

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

**Minerals Management Service - Shelikof Strait and Outermost Cook Inlet**

1997 Final Data (Surrogate Corrected) - Sediment Core - PAH

Field ID	97-2-F1-03-02-PHC-SC	97-2-F1-03-04-PHC-SC	97-2-F1-03-06-PHC-SC	97-2-F1-03-08-PHC-SC
Lab ID	97C1305	97C1415	97C1402	97C1309
SDG	SDGS002	SDGS002	SDGS002	SDGS002
File	DZ0132.D	DZ0138.D	DZ0137.D	DZ0135.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	15.3 g	15.5 g	15.4 g	16.8 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-89PB	BK-S-89PB	BK-S-89PB	BK-S-89PB
Field Date	7/13/1997	7/13/1997	7/13/1997	7/13/1997
Extract Date	7/24/1997	7/24/1997	7/24/1997	7/24/1997
Analysis Date	8/14/1997	8/14/1997	8/14/1997	8/14/1997
Min Reporting Limit	0.00082	0.00081	0.00081	0.00074
Units	ug/g	ug/g	ug/g	ug/g

**PAH**

Naphthalene	0.0074	0.0075	0.0075	0.0073
C1-Naphthalenes	0.017	0.019	0.019	0.019
C2-Naphthalenes	0.034	0.037	0.039	0.037
C3-Naphthalenes	0.04	0.041	0.042	0.041
C4-Naphthalenes	0.024	0.025	0.024	0.024
Acenaphthylene	0.00024 J	0.0002 J	0.00025 J	0.00019 J
Acenaphthene	0.00081 J	0.00097 J	0.00099 J	0.00099
Biphenyl	0.0048	0.0051	0.0051	0.0052
Fluorene	0.0046	0.0051	0.0053	0.0051
C1-Fluorenes	0.0083	0.0092	0.0096	0.0096
C2-Fluorenes	0.012	0.014	0.014	0.015
C3-Fluorenes	0.016	0.018	0.019	0.017
Anthracene	0.00078 J	0.00086 J	0.00081 J	0.00081 J
Phenanthrene	0.017	0.019	0.019	0.02
C1-Phenanthrenes/anthracenes	0.027	0.031	0.032	0.031
C2-Phenanthrenes/anthracenes	0.026	0.031	0.031	0.031
C3-Phenanthrenes/anthracenes	0.016	0.018	0.018	0.019
C4-Phenanthrenes/anthracenes	0.013	0.014	0.017	0.016
Dibenzothiophene	0.0021	0.0024	0.0023	0.0024
C1-Dibenzothiophenes	0.0035	0.0039	0.0038	0.0041
C2-Dibenzothiophenes	0.0043	0.005	0.0049	0.0049
C3-Dibenzothiophenes	0.0031	0.0035	0.0036	0.0038
Fluoranthene	0.004	0.0045	0.0047	0.0046
Pyrene	0.0044	0.005	0.0051	0.0051
C1-Fluoranthenes/pyrenes	0.01	0.012	0.013	0.012
C2-Fluoranthenes/pyrenes	0.012	0.015	0.015	0.015
C3-Fluoranthenes/pyrenes	0.011	0.012	0.014	0.014
Benzo[a]anthracene	0.0012	0.0014	0.0015	0.0018
Chrysene	0.004	0.005	0.0051	0.005
C1-Chrysenes	0.0058	0.0074	0.0078	0.008
C2-Chrysenes	0.0074	0.0095	0.01	0.009
C3-Chrysenes	0.0057	0.0084	0.0065	0.0068
C4-Chrysenes	0.0052	0.016	0.013	0.014
Benzo[b]fluoranthene	0.0025	0.0036	0.0035	0.0035
Benzo[k]fluoranthene	0.00049 J	0.00047 J	0.00053 J	0.00049 J
Benzo[e]pyrene	0.0025	0.003	0.0031	0.0033
Benzo[a]pyrene	0.00074 J	0.00095 J	0.00097 J	0.001
Perylene	0.0098	0.013	0.015	0.016
Indeno[1,2,3,-c,d]pyrene	0.0006 J	0.00082 J	0.00086 J	0.00082 J
Dibenzo[a,h]anthracene	0.00041 J	0.00057 J	0.00057 J	0.00054 J
Benzo[g,h,i]perylene	0.0029	0.0035	0.0038	0.0035

Total PAH	0.37	0.43	0.44	0.44
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d8-Naphthalene	66	68	69	71
d10-Acenaphthene	70	73	72	75
d10-Phenanthrene	77	80	78	80
d12-Benzo[a]pyrene	80	82	80	82

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

**Minerals Management Service - Shelikof Strait and Outermost Cook Inlet**

1997 Final Data (Surrogate Corrected) - Sediment Core - PAH

Field ID	97-2-F1-03-12-PHC-SC	97-2-F1-03-18-PHC-SC	97-2-F1-03-22-PHC-SC	97-2-F1-03-27-PHC-SC
Lab ID	97C1307	97C1308	97C1306	97C1416
SDG	SDGS002	SDGS002	SDGS002	SDGS002
File	DZ0133.D	DZ0134.D	DZ9949.D	DZ0141.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	16.4 g	15.8 g	17.7 g	17.7 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-89PB	BK-S-89PB	BK-S-89PB	BK-S-89PB
Field Date	7/13/1997	7/13/1997	7/13/1997	7/13/1997
Extract Date	7/24/1997	7/24/1997	7/24/1997	7/24/1997
Analysis Date	8/14/1997	8/14/1997	8/14/1997	8/14/1997
Min Reporting Limit	0.00076	0.00049	0.00071	0.00071
Units	ug/g	ug/g	ug/g	ug/g
<b>PAH</b>				
Naphthalene	0.0071	0.0048	0.0079	0.0073
C1-Naphthalenes	0.018	0.012	0.022	0.02
C2-Naphthalenes	0.038	0.024	0.043	0.04
C3-Naphthalenes	0.039	0.027	0.055	0.044
C4-Naphthalenes	0.024	0.016	0.032	0.026
Acenaphthylene	0.00018 J	0.00014 J	0.00022 J	0.00023 J
Acenaphthene	0.001	0.0006 J	0.001	0.00097
Biphenyl	0.0051	0.0033	0.0064	0.0055
Fluorene	0.0049	0.0034	0.0061	0.0055
C1-Fluorenes	0.0091	0.0063	0.0098	0.01
C2-Fluorenes	0.014	0.0096	0.014	0.015
C3-Fluorenes	0.017	0.012	0.017	0.019
Anthracene	0.00088 J	0.00056 J	0.001	0.001
Phenanthrene	0.02	0.012	0.021	0.02
C1-Phenanthrenes/anthracenes	0.032	0.022	0.033	0.033
C2-Phenanthrenes/anthracenes	0.031	0.02	0.03	0.033
C3-Phenanthrenes/anthracenes	0.019	0.012	0.018	0.021
C4-Phenanthrenes/anthracenes	0.016	0.01	0.014	0.015
Dibenzothiophene	0.0024	0.0015	0.0025	0.0026
C1-Dibenzothiophenes	0.004	0.0025	0.0039	0.0042
C2-Dibenzothiophenes	0.0048	0.0032	0.0046	0.0052
C3-Dibenzothiophenes	0.0038	0.0025	0.0033	0.0035
Fluoranthene	0.0046	0.003	0.0047	0.0054
Pyrene	0.0051	0.0033	0.005	0.0059
C1-Fluoranthenes/pyrenes	0.014	0.0085	0.012	0.014
C2-Fluoranthenes/pyrenes	0.016	0.0099	0.013	0.017
C3-Fluoranthenes/pyrenes	0.015	0.009	0.012	0.015
Benzo[a]anthracene	0.0018	0.00095	0.0019	0.0017
Chrysene	0.0055	0.0035	0.0068	0.0055
C1-Chrysenes	0.0084	0.0052	0.0092	0.0085
C2-Chrysenes	0.011	0.0065	0.011	0.0096
C3-Chrysenes	0.0076	0.0048	0.0078	0.0069
C4-Chrysenes	0.014	0.0073	0.0057	0.0096
Benzo[b]fluoranthene	0.0042	0.0025	0.0039	0.0037
Benzo[k]fluoranthene	0.00054 J	0.00032 J	0.0006 J	0.00064 J
Benzo[e]pyrene	0.0035	0.0024	0.0037	0.0035
Benzo[a]pyrene	0.0011	0.00072	0.0011	0.0012
Perylene	0.02	0.012	0.021	0.023
Indeno[1,2,3,-c,d]pyrene	0.00086 J	0.00056 J	0.0009 J	0.00078 J
Dibenzo[a,h]anthracene	0.00057 J	0.00042 J	0.00061 J	0.00058 J
Benzo[g,h,i]perylene	0.0038	0.0022	0.0034	0.0029
Total PAH	0.45	0.29	0.47	0.47
d8-Naphthalene	76	64	76	75
d10-Acenaphthene	76	70	69	74
d10-Phenanthrene	80	79	72	81
d12-Benzo[a]pyrene	82	72	70	78

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

**Minerals Management Service - Shelikof Strait and Outermost Cook Inlet**

1997 Final Data (Surrogate Corrected) - Sediment Core - PAH

Field ID	97-2-F1-03-31-PHC-SC	97-2-F2-03-00-PHC-SC	97-2-F2-03-02-PHC-SC	97-2-F2-03-04-PHC-SC
Lab ID	97C1304	97C1227	97C1229	97C1231
SDG	SDGS002	SDGS001	SDGS001	SDGS001
File	DZ9947.D	DZ9906.D	DZ9909.D	DZ9911.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	29.5 g	18.2 g	19.9 g	20.8 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-89PB	BK-S-86PB	BK-S-86PB	BK-S-86PB
Field Date	7/13/1997	7/9/1997	7/9/1997	7/9/1997
Extract Date	7/24/1997	7/23/1997	7/23/1997	7/23/1997
Analysis Date	8/1/1997	7/30/1997	7/30/1997	7/30/1997
Min Reporting Limit	0.00042	0.00069	0.00063	0.0006
Units	ug/g	ug/g	ug/g	ug/g

PAH				
Naphthalene	0.007	0.0097	0.0098	0.0098
C1-Naphthalenes	0.02	0.028	0.028	0.028
C2-Naphthalenes	0.038	0.055	0.057	0.059
C3-Naphthalenes	0.046	0.066	0.067	0.067
C4-Naphthalenes	0.028	0.038	0.043	0.039
Acenaphthylene	0.00015 J	0.0002 J	0.0002 J	0.00016 J
Acenaphthene	0.00095	0.0013	0.0015	0.0014
Biphenyl	0.0053	0.008	0.0092	0.01
Fluorene	0.0053	0.0079	0.0083	0.0083
C1-Fluorenes	0.0088	0.015	0.016	0.016
C2-Fluorenes	0.012	0.022	0.022	0.022
C3-Fluorenes	0.014	0.026	0.027	0.027
Anthracene	0.00091	0.0013	0.0013	0.0013
Phenanthrene	0.017	0.029	0.03	0.029
C1-Phenanthrenes/anthracenes	0.028	0.052	0.05	0.05
C2-Phenanthrenes/anthracenes	0.026	0.047	0.045	0.043
C3-Phenanthrenes/anthracenes	0.016	0.03	0.028	0.027
C4-Phenanthrenes/anthracenes	0.012	0.024	0.022	0.021
Dibenzothiophene	0.0021	0.0036	0.0038	0.0038
C1-Dibenzothiophenes	0.0031	0.0097	0.009	0.0082
C2-Dibenzothiophenes	0.0037	0.0067	0.007	0.0066
C3-Dibenzothiophenes	0.0024	0.0049	0.0051	0.005
Fluoranthene	0.0041	0.0058	0.0057	0.0057
Pyrene	0.0044	0.0068	0.0068	0.0061
C1-Fluoranthenes/pyrenes	0.0094	0.021	0.018	0.017
C2-Fluoranthenes/pyrenes	0.01	0.024	0.021	0.021
C3-Fluoranthenes/pyrenes	0.0087	0.022	0.02	0.018
Benzo[a]anthracene	0.0013	0.0029	0.0025	0.0022
Chrysene	0.0044	0.0089	0.0082	0.0085
C1-Chrysenes	0.0061	0.015	0.013	0.012
C2-Chrysenes	0.0066	0.016	0.013	0.013
C3-Chrysenes	0.0043	0.011	0.011	0.011
C4-Chrysenes	0.0041	0.02	0.018	0.015
Benzo[b]fluoranthene	0.0026	0.0055	0.0049	0.0045
Benzo[k]fluoranthene	0.00034 J	0.00066 J	0.00045 J	0.00045 J
Benzo[e]pyrene	0.0026	0.0047	0.0043	0.0042
Benzo[a]pyrene	0.00076	0.0015	0.0014	0.0013
Perylene	0.015	0.011	0.011	0.011
Indeno[1,2,3,-c,d]pyrene	0.00061 J	0.0011	0.00096	0.00088
Dibenzo[a,h]anthracene	0.00029 J	0.00091	0.00083	0.00081
Benzo[g,h,i]perylene	0.0014	0.0045	0.0043	0.0042

Total PAH	0.38	0.67	0.66	0.64
d8-Naphthalene	73	86	88	83
d10-Acenaphthene	68	87	89	85
d10-Phenanthrene	70	89	94	92
d12-Benzo[a]pyrene	66	91	91	90



**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

**Minerals Management Service - Shelikof Strait and Outermost Cook Inlet**

1997 Final Data (Surrogate Corrected) - Sediment Core - PAH

Field ID	97-2-F2-03-06-PHC-SC	97-2-F2-03-08-PHC-SC	97-2-F2-03-12-PHC-SC	97-2-F2-03-18-PHC-SC
Lab ID	97C1225	97C1224	97C1226	97C1230
SDG	SDGS001	SDGS001	SDGS001	SDGS001
File	DZ9904.D	DZ9903.D	DZ9905.D	DZ9910.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	21.3 g	22.3 g	23.2 g	24.2 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-86PB	BK-S-86PB	BK-S-86PB	BK-S-86PB
Field Date	7/9/1997	7/9/1997	7/9/1997	7/9/1997
Extract Date	7/23/1997	7/23/1997	7/23/1997	7/23/1997
Analysis Date	7/30/1997	7/30/1997	7/30/1997	7/30/1997
Min Reporting Limit	0.00059	0.00056	0.00054	0.00052
Units	ug/g	ug/g	ug/g	ug/g
<b>PAH</b>				
Naphthalene	0.01	0.01	0.01	0.0088
C1-Naphthalenes	0.031	0.03	0.029	0.026
C2-Naphthalenes	0.063	0.067	0.061	0.053
C3-Naphthalenes	0.075	0.075	0.071	0.061
C4-Naphthalenes	0.046	0.046	0.041	0.037
Acenaphthylene	0.00017 J	0.00024 J	0.0002 J	0.00018 J
Acenaphthene	0.0015	0.0015	0.0014	0.0013
Biphenyl	0.011	0.0099	0.01	0.0085
Fluorene	0.0096	0.0099	0.0091	0.0079
C1-Fluorenes	0.017	0.018	0.017	0.015
C2-Fluorenes	0.026	0.026	0.024	0.021
C3-Fluorenes	0.031	0.031	0.03	0.024
Anthracene	0.0015	0.0015	0.0013	0.0012
Phenanthrene	0.034	0.035	0.033	0.027
C1-Phenanthrenes/anthracenes	0.057	0.059	0.054	0.045
C2-Phenanthrenes/anthracenes	0.047	0.05	0.047	0.039
C3-Phenanthrenes/anthracenes	0.032	0.033	0.03	0.024
C4-Phenanthrenes/anthracenes	0.023	0.024	0.024	0.02
Dibenzothiophene	0.0045	0.0045	0.0043	0.0035
C1-Dibenzothiophenes	0.0094	0.009	0.0085	0.0075
C2-Dibenzothiophenes	0.0077	0.008	0.0071	0.0058
C3-Dibenzothiophenes	0.0054	0.0057	0.0052	0.0041
Fluoranthene	0.0062	0.0064	0.0062	0.0054
Pyrene	0.0073	0.0077	0.007	0.0062
C1-Fluoranthenes/pyrenes	0.022	0.021	0.021	0.016
C2-Fluoranthenes/pyrenes	0.023	0.024	0.022	0.017
C3-Fluoranthenes/pyrenes	0.023	0.024	0.022	0.016
Benzo[a]anthracene	0.0028	0.0028	0.0024	0.0021
Chrysene	0.0098	0.011	0.0091	0.0075
C1-Chrysenes	0.015	0.016	0.013	0.01
C2-Chrysenes	0.016	0.017	0.014	0.012
C3-Chrysenes	0.011	0.012	0.011	0.0096
C4-Chrysenes	0.021	0.0075	0.016	0.0096
Benzo[b]fluoranthene	0.0059	0.0059	0.0048	0.0041
Benzo[k]fluoranthene	0.00072	0.00064	0.00056 J	0.0005
Benzo[e]pyrene	0.0054	0.0051	0.0044	0.0037
Benzo[a]pyrene	0.0017	0.0017	0.0013	0.0011
Perylene	0.013	0.014	0.012	0.011
Indeno[1,2,3,-c,d]pyrene	0.0011	0.0012	0.00093	0.00085
Dibenzo[a,h]anthracene	0.0011	0.00095	0.00082	0.00068
Benzo[g,h,i]perylene	0.0058	0.0054	0.0048	0.0033
Total PAH	0.73	0.74	0.69	0.58
d8-Naphthalene	76	87	84	95
d10-Acenaphthene	81	93	87	101
d10-Phenanthrene	87	98	92	104
d12-Benzo[a]pyrene	82	101	90	105

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

**Minerals Management Service - Shelikof Strait and Outermost Cook Inlet**

1997 Final Data (Surrogate Corrected) - Sediment Core - PAH

Field ID	97-2-F2-03-22-PHC-SC	97-2-F2-03-27-PHC-SC	97-2-F2-03-31-PHC-SC	97-3-F1-03-00-PHC-SC
Lab ID	97C1221	97C1228	97C1223	97C1367
SDG	SDGS001	SDGS001	SDGS001	SDGS005
File	DZ9923.D	DZ9908.D	DZ9897.D	W1253.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	24.8 g	25.4 g	25.8 g	8.9 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-86PB	BK-S-86PB	BK-S-86PB	BK-S-97PB
Field Date	7/9/1997	7/9/1997	7/9/1997	7/11/1997
Extract Date	7/23/1997	7/23/1997	7/23/1997	7/31/1997
Analysis Date	7/31/1997	7/30/1997	7/29/1997	8/29/1997
Min Reporting Limit	0.0005	0.00049	0.00048	0.0014
Units	ug/g	ug/g	ug/g	ug/g
<b>PAH</b>				
Naphthalene	0.0093	0.0089	0.0094	0.015
C1-Naphthalenes	0.027	0.027	0.028	0.025
C2-Naphthalenes	0.059	0.058	0.061	0.042
C3-Naphthalenes	0.066	0.069	0.074	0.032
C4-Naphthalenes	0.039	0.042	0.044	0.019
Acenaphthylene	0.00019 J	0.0002 J	0.00016 J	0.00074 JB
Acenaphthene	0.0015	0.0013	0.0014	0.0016 J
Biphenyl	0.01	0.009	0.0096	0.0089
Fluorene	0.009	0.009	0.0098	0.0094
C1-Fluorenes	0.016	0.016	0.017	0.012
C2-Fluorenes	0.023	0.024	0.026	0.02
C3-Fluorenes	0.024	0.027	0.029	0.019
Anthracene	0.0013	0.0013	0.0014	0.0014 J
Phenanthrene	0.029	0.031	0.034	0.031
C1-Phenanthrenes/anthracenes	0.048	0.053	0.058	0.04
C2-Phenanthrenes/anthracenes	0.042	0.046	0.049	0.042
C3-Phenanthrenes/anthracenes	0.026	0.031	0.031	0.021
C4-Phenanthrenes/anthracenes	0.02	0.023	0.025	0.019
Dibenzothiophene	0.0037	0.004	0.0042	0.004
C1-Dibenzothiophenes	0.0056	0.0085	0.0089	0.0062
C2-Dibenzothiophenes	0.0059	0.0067	0.0072	0.0052
C3-Dibenzothiophenes	0.0043	0.0048	0.0049	0.004
Fluoranthene	0.0056	0.0059	0.0066	0.0064
Pyrene	0.0065	0.0069	0.008	0.0068
C1-Fluoranthenes/pyrenes	0.018	0.02	0.022	0.017
C2-Fluoranthenes/pyrenes	0.019	0.022	0.025	0.019
C3-Fluoranthenes/pyrenes	0.018	0.021	0.025	0.017
Benzo[a]anthracene	0.0022	0.0026	0.0029	0.0021
Chrysene	0.0081	0.0089	0.0093	0.0068
C1-Chrysenes	0.011	0.014	0.015	0.0087
C2-Chrysenes	0.013	0.015	0.017	0.012
C3-Chrysenes	0.0093	0.01	0.012	0.01
C4-Chrysenes	0.0088	0.011	0.0069	0.013
Benzo[b]fluoranthene	0.0046	0.0054	0.0059	0.0035
Benzo[k]fluoranthene	0.00059	0.00063	0.00083	0.00036 J
Benzo[e]pyrene	0.0042	0.0049	0.0056	0.004
Benzo[a]pyrene	0.0013	0.0016	0.0018	0.0013 J
Perylene	0.014	0.016	0.017	0.016
Indeno[1,2,3,-c,d]pyrene	0.00093	0.0011	0.0014	0.00083 J
Dibenzo[a,h]anthracene	0.00075	0.001	0.001	0.0006 J
Benzo[g,h,i]perylene	0.0033	0.0045	0.0053	0.0038
Total PAH	0.62	0.67	0.72	0.53
d8-Naphthalene	97	90	89	62
d10-Acenaphthene	100	91	92	73
d10-Phenanthrene	107	98	102	84
d12-Benzo[a]pyrene	99	96	95	77

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

**Minerals Management Service - Shelikof Strait and Outermost Cook Inlet**

1997 Final Data (Surrogate Corrected) - Sediment Core - PAH

Field ID	97-3-F1-03-02-PHC-SC	97-3-F1-03-04-PHC-SC	97-3-F1-03-06-PHC-SC	97-3-F1-03-08-PHC-SC
Lab ID	97C1369	97C1370	97C1371	97C1368
SDG	SDGS005	SDGS005	SDGS005	SDGS005
File	W1255.D	W1256.D	W1257.D	W1254.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	16 g	13.6 g	18.4 g	18.9 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-97PB	BK-S-97PB	BK-S-97PB	BK-S-97PB
Field Date	7/11/1997	7/11/1997	7/11/1997	7/11/1997
Extract Date	7/31/1997	7/31/1997	7/31/1997	7/31/1997
Analysis Date	8/29/1997	8/29/1997	8/29/1997	8/29/1997
Min Reporting Limit	0.00078	0.00092	0.00068	0.00066
Units	ug/g	ug/g	ug/g	ug/g
<b>PAH</b>				
Naphthalene	0.013	0.013	0.0072 B	0.011
C1-Naphthalenes	0.022	0.024	0.011	0.021
C2-Naphthalenes	0.04	0.043	0.018	0.039
C3-Naphthalenes	0.028	0.033	0.014	0.028
C4-Naphthalenes	0.018	0.024	0.013	0.016
Acenaphthylene	0.00038 JB	0.00047 JB	0.00026 JB	0.00039 JB
Acenaphthene	0.0015	0.0016	0.00088 JB	0.0014
Biphenyl	0.0076	0.008	0.0038	0.0071
Fluorene	0.0079	0.0087	0.0042	0.0079
C1-Fluorenes	0.011	0.014	0.0058	0.012
C2-Fluorenes	0.017	0.02	0.0097	0.017
C3-Fluorenes	0.015	0.018	0.0088	0.016
Anthracene	0.0012	0.0015	0.00069 J	0.0014
Phenanthrene	0.025	0.029	0.014	0.025
C1-Phenanthrenes/anthracenes	0.034	0.042	0.019	0.037
C2-Phenanthrenes/anthracenes	0.032	0.041	0.02	0.036
C3-Phenanthrenes/anthracenes	0.02	0.024	0.011	0.02
C4-Phenanthrenes/anthracenes	0.016	0.02	0.0088	0.015
Dibenzothiophene	0.0035	0.0039	0.0018	0.0034
C1-Dibenzothiophenes	0.0052	0.0072	0.004	0.0056
C2-Dibenzothiophenes	0.0044	0.0064	0.0031	0.0046
C3-Dibenzothiophenes	0.0036	0.0042	0.0026	0.0036
Fluoranthene	0.0053	0.0065	0.0031	0.0061
Pyrene	0.0054	0.0068	0.0032	0.006
C1-Fluoranthenes/pyrenes	0.014	0.019	0.0086	0.015
C2-Fluoranthenes/pyrenes	0.016	0.022	0.011	0.018
C3-Fluoranthenes/pyrenes	0.015	0.02	0.0092	0.016
Benzo[a]anthracene	0.0017	0.0024	0.0012	0.0019
Chrysene	0.006	0.0075	0.0034	0.006
C1-Chrysenes	0.0083	0.012	0.0055	0.009
C2-Chrysenes	0.011	0.015	0.0069	0.013
C3-Chrysenes	0.0096	0.015	0.0055	0.011
C4-Chrysenes	0.023	0.022	0.018	0.014
Benzo[b]fluoranthene	0.0033	0.0045	0.0019	0.0036
Benzo[k]fluoranthene	0.00047 J	0.00045 J	0.00027 J	0.00039 J
Benzo[e]pyrene	0.0034	0.0048	0.0022	0.0036
Benzo[a]pyrene	0.0012	0.0015	0.00069 J	0.0012
Perylene	0.014	0.023	0.011	0.02
Indeno[1,2,3,-c,d]pyrene	0.00078 J	0.0011 J	0.00045 J	0.00082
Dibenzo[a,h]anthracene	0.00057 J	0.0008 J	0.00036 J	0.0006 J
Benzo[g,h,i]perylene	0.0037	0.0047	0.0021	0.0035
Total PAH	0.47	0.58	0.28	0.48
d8-Naphthalene	63	62	57	63
d10-Acenaphthene	72	70	65	76
d10-Phenanthrene	81	80	74	87
d12-Benzo[a]pyrene	73	75	67	82

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

**Minerals Management Service - Shelikof Strait and Outermost Cook Inlet**

1997 Final Data (Surrogate Corrected) - Sediment Core - PAH

Field ID	97-3-F1-03-12-PHC-SC	97-3-F1-03-18-PHC-SC	97-3-F1-03-22-PHC-SC	97-3-F1-03-27-PHC-SC
Lab ID	97C1372	97C1373	97C1375	97C1374
SDG	SDGS005	SDGS005	SDGS005	SDGS005
File	W1258.D	W1259.D	W1294.D	DX5078.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	14.6 g	20.6 g	21.4 g	17.6 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-97PB	BK-S-97PB	BK-S-97PB	BK-S-97PB
Field Date	7/11/1997	7/11/1997	7/11/1997	7/11/1997
Extract Date	7/31/1997	7/31/1997	7/31/1997	7/31/1997
Analysis Date	8/29/1997	8/29/1997	9/3/1997	9/19/1997
Min Reporting Limit	0.00086	0.00061	0.00058	0.00071
Units	ug/g	ug/g	ug/g	ug/g
<b>PAH</b>				
Naphthalene	0.012	0.011	0.011	0.011
C1-Naphthalenes	0.024	0.018	0.02	0.024
C2-Naphthalenes	0.039	0.035	0.038	0.048
C3-Naphthalenes	0.031	0.026	0.027	0.036
C4-Naphthalenes	0.018	0.018	0.018	0.022
Acenaphthylene	0.00052 JB	0.00046 JB	0.00039 JB	0.0003 JB
Acenaphthene	0.0017	0.0013	0.0014	0.0012 J
Biphenyl	0.0079	0.0063	0.007	0.0072
Fluorene	0.0087	0.007	0.0074	0.0072
C1-Fluorenes	0.012	0.011	0.011	0.012
C2-Fluorenes	0.02	0.016	0.015	0.018
C3-Fluorenes	0.017	0.016	0.015	0.02
Anthracene	0.0015	0.0011	0.0012	0.0011 J
Phenanthrene	0.029	0.023	0.024	0.024
C1-Phenanthrenes/anthracenes	0.04	0.034	0.034	0.036
C2-Phenanthrenes/anthracenes	0.042	0.033	0.03	0.04
C3-Phenanthrenes/anthracenes	0.022	0.018	0.019	0.025
C4-Phenanthrenes/anthracenes	0.019	0.014	0.014	0.022
Dibenzothiophene	0.0038	0.003	0.003	0.0031
C1-Dibenzothiophenes	0.0066	0.005	0.0054	0.0055
C2-Dibenzothiophenes	0.0054	0.0048	0.0039	0.0053
C3-Dibenzothiophenes	0.004	0.0034	0.0027	0.0036
Fluoranthene	0.0066	0.0054	0.0053	0.0051
Pyrene	0.0068	0.0056	0.0057	0.0056
C1-Fluoranthenes/pyrenes	0.018	0.014	0.013	0.015
C2-Fluoranthenes/pyrenes	0.024	0.017	0.015	0.02
C3-Fluoranthenes/pyrenes	0.02	0.015	0.015	0.018
Benzo[a]anthracene	0.0024	0.0018	0.0016	0.0018
Chrysene	0.0072	0.0057	0.0055	0.0058
C1-Chrysenes	0.011	0.0091	0.0085	0.0082
C2-Chrysenes	0.016	0.013	0.011	0.011
C3-Chrysenes	0.012	0.0099	0.0074	0.0084
C4-Chrysenes	0.02	0.017	0.015	0.0073
Benzo[b]fluoranthene	0.0045	0.0034	0.0031	0.0033
Benzo[k]fluoranthene	0.00041 J	0.00053 J	0.00042 J	0.00029 J
Benzo[e]pyrene	0.0048	0.0036	0.0033	0.0033
Benzo[a]pyrene	0.0015	0.0012	0.0011	0.00085 J
Perylene	0.026	0.02	0.019	0.016
Indeno[1,2,3,-c,d]pyrene	0.001 J	0.0008	0.00088	0.00085 J
Dibenzo[a,h]anthracene	0.00077 J	0.00058 J	0.00055 J	0.00062 J
Benzo[g,h,i]perylene	0.0042	0.0033	0.0028	0.0033
Total PAH	0.55	0.45	0.44	0.51
d8-Naphthalene	63	59	56	46
d10-Acenaphthene	71	74	66	50
d10-Phenanthrene	80	87	74	55
d12-Benzo[a]pyrene	73	81	69	55

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

**Minerals Management Service - Shelikof Strait and Outermost Cook Inlet**

1997 Final Data (Surrogate Corrected) - Sediment Core - PAH

Field ID	97-3-F1-03-33-PHC-SC	97-3-F2-03-00-PHC-SC	97-3-F2-03-02-PHC-SC	97-3-F2-03-04-PHC-SC
Lab ID	97C1376	97C1412	97C1409	97C1403
SDG	SDGS005	SDGS004	SDGS004	SDGS004
File	W1295.D	DX4805.D	DX4802.D	DX4772.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	19.4 g	12.2 g	12.8 g	21.7 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-97PB	BK-S-94PB	BK-S-94PB	BK-S-94PB
Field Date	7/11/1997	7/11/1997	7/11/1997	7/11/1997
Extract Date	7/31/1997	7/31/1997	7/31/1997	7/31/1997
Analysis Date	9/3/1997	8/26/1997	8/26/1997	8/22/1997
Min Reporting Limit	0.00064	0.001	0.00098	0.00058
Units	ug/g	ug/g	ug/g	ug/g
<b>PAH</b>				
Naphthalene	0.012	0.015	0.018	0.012 B
C1-Naphthalenes	0.019	0.031	0.033	0.022
C2-Naphthalenes	0.039	0.062	0.066	0.045
C3-Naphthalenes	0.03	0.054	0.057	0.038
C4-Naphthalenes	0.018	0.044	0.041	0.026
Acenaphthylene	0.00039 JB	0.00026 JB	0.00024 JB	0.00012 JB
Acenaphthene	0.0014	0.0014 B	0.0017	0.0011 B
Biphenyl	0.0072	0.0091	0.01	0.0064
Fluorene	0.0075	0.0078	0.0085	0.0053
C1-Fluorenes	0.012	0.013	0.014	0.01
C2-Fluorenes	0.016	0.021	0.021	0.012 L
C3-Fluorenes	0.016	0.021	0.022	0.016
Anthracene	0.0011	0.0011 J	0.0013	0.0009
Phenanthrene	0.024	0.028	0.028	0.019
C1-Phenanthrenes/anthracenes	0.036	0.044	0.044	0.029 L
C2-Phenanthrenes/anthracenes	0.033	0.042	0.043	0.03
C3-Phenanthrenes/anthracenes	0.02	0.024	0.024	0.018
C4-Phenanthrenes/anthracenes	0.017	0.02	0.018	0.0089
Dibenzothiophene	0.003	0.0036	0.0037	0.0026
C1-Dibenzothiophenes	0.0047	0.0079	0.0085	0.0045
C2-Dibenzothiophenes	0.0043	0.0062	0.0067	0.0051
C3-Dibenzothiophenes	0.0034	0.0042	0.0039 L	0.003 L
Fluoranthene	0.0049	0.0065	0.0064	0.0037
Pyrene	0.0058	0.0066	0.0067	0.0044
C1-Fluoranthenes/pyrenes	0.016	0.019	0.017	0.012
C2-Fluoranthenes/pyrenes	0.017	0.022	0.021	0.014
C3-Fluoranthenes/pyrenes	0.016	0.019	0.017	0.012
Benzo[a]anthracene	0.002	0.0021	0.0019	0.0014
Chrysene	0.0066	0.007	0.0073	0.0051
C1-Chrysenes	0.01	0.0091	0.0087	0.0066
C2-Chrysenes	0.013	0.012	0.012	0.0088
C3-Chrysenes	0.01	0.01	0.0086	0.0068
C4-Chrysenes	0.013	0.015	0.012	0.0079
Benzo[b]fluoranthene	0.0037	0.0044	0.0042	0.0029
Benzo[k]fluoranthene	0.00042 J	0.00046 J	0.00056 J	0.00033 J
Benzo[e]pyrene	0.0039	0.0048	0.0051	0.0029
Benzo[a]pyrene	0.0013	0.0015	0.0014	0.00085 J
Perylene	0.02	0.018	0.02	0.012
Indeno[1,2,3,-c,d]pyrene	0.001	0.0014 J	0.0012 J	0.00071 J
Dibenzo[a,h]anthracene	0.00067 J	0.00079 J	0.0008 J	0.00048 J
Benzo[g,h,i]perylene	0.0036	0.0041	0.0044	0.002
Total PAH	0.47	0.62	0.63	0.42
d8-Naphthalene	59	72	78	67
d10-Acenaphthene	67	77	87	73
d10-Phenanthrene	76	80	92	73
d12-Benzo[a]pyrene	70	68	70	66

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

**Minerals Management Service - Shelikof Strait and Outermost Cook Inlet**

1997 Final Data (Surrogate Corrected) - Sediment Core - PAH

Field ID	97-3-F2-03-06-PHC-SC	97-3-F2-03-08-PHC-SC	97-3-F2-03-12-PHC-SC	97-3-F2-03-18-PHC-SC
Lab ID	97C1410	97C1411	97C1408	97C1405
SDG	SDGS004	SDGS004	SDGS004	SDGS004
File	DX4803.D	DX4804.D	DX4801.D	DX4773.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	23.9 g	24.1 g	25.6 g	24.2 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BK-S-94PB	BK-S-94PB	BK-S-94PB	BK-S-94PB
Field Date	7/11/1997	7/11/1997	7/11/1997	7/11/1997
Extract Date	7/31/1997	7/31/1997	7/31/1997	7/31/1997
Analysis Date	8/26/1997	8/26/1997	8/25/1997	8/23/1997
Min Reporting Limit	0.00052	0.00052	0.00049	0.00052
Units	ug/g	ug/g	ug/g	ug/g
<b>PAH</b>				
Naphthalene	0.013 B	0.018	0.013 B	0.014 B
C1-Naphthalenes	0.03	0.031	0.028	0.029
C2-Naphthalenes	0.059	0.064	0.055	0.064
C3-Naphthalenes	0.051	0.054	0.049	0.056
C4-Naphthalenes	0.035	0.038	0.032	0.039
Acenaphthylene	0.00015 JB	0.00015 JB	0.0002 JB	0.00023 JB
Acenaphthene	0.0014 B	0.0018	0.0016	0.0015 B
Biphenyl	0.0081	0.0086	0.0075	0.0083
Fluorene	0.007	0.0081	0.0075	0.008
C1-Fluorenes	0.012	0.014	0.011	0.013
C2-Fluorenes	0.016 L	0.018 L	0.016	0.021
C3-Fluorenes	0.018	0.022	0.018	0.021
Anthracene	0.0011	0.0011	0.0011	0.0013
Phenanthrene	0.024	0.027	0.023	0.026
C1-Phenanthrenes/anthracenes	0.036 L	0.04 L	0.034	0.043
C2-Phenanthrenes/anthracenes	0.033	0.036	0.034	0.041
C3-Phenanthrenes/anthracenes	0.019	0.02	0.02	0.024
C4-Phenanthrenes/anthracenes	0.016	0.015	0.016	0.016
Dibenzothiophene	0.0033	0.0036	0.0029	0.0037
C1-Dibenzothiophenes	0.0056	0.0058	0.005	0.0058
C2-Dibenzothiophenes	0.0053	0.0059	0.0054	0.0058
C3-Dibenzothiophenes	0.0037 L	0.0036 L	0.003 L	0.0034 L
Fluoranthene	0.0052	0.0059	0.0055	0.0057
Pyrene	0.0059	0.0064	0.0057	0.0063
C1-Fluoranthenes/pyrenes	0.015	0.015	0.013	0.016
C2-Fluoranthenes/pyrenes	0.016	0.017	0.015	0.018
C3-Fluoranthenes/pyrenes	0.013	0.015	0.013	0.014
Benzo[a]anthracene	0.002	0.002	0.0017	0.0021
Chrysene	0.0061	0.0064	0.0054	0.0066
C1-Chrysenes	0.0077	0.0083	0.0066	0.008
C2-Chrysenes	0.0097	0.01	0.0089	0.01
C3-Chrysenes	0.0071	0.0079	0.0068	0.0078
C4-Chrysenes	0.0079	0.0073	0.0076	0.0086
Benzo[b]fluoranthene	0.0035	0.0037	0.0029	0.0037
Benzo[k]fluoranthene	0.00032 J	0.00023 J	0.0004 J	0.00045 J
Benzo[e]pyrene	0.0035	0.0037	0.003	0.0037
Benzo[a]pyrene	0.0011	0.0011	0.00089	0.0011
Perylene	0.018	0.019	0.016	0.022
Indeno[1,2,3,-c,d]pyrene	0.0008	0.00073	0.00066	0.00077 J
Dibenzo[a,h]anthracene	0.00048 J	0.00063 J	0.00044 J	0.00045 J
Benzo[g,h,i]perylene	0.0027	0.0027	0.0023	0.0021
Total PAH	0.52	0.57	0.5	0.58
d8-Naphthalene	70	68	70	71
d10-Acenaphthene	74	74	76	75
d10-Phenanthrene	75	78	82	76
d12-Benzo[a]pyrene	71	73	79	65

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

**Minerals Management Service - Shelikof Strait and Outermost Cook Inlet**

1997 Final Data (Surrogate Corrected) - Sediment Core - PAH

Field ID	97-3-F2-03-22-PHC-SC	97-3-F2-03-27-PHC-SC	97-3-F2-03-31-PHC-SC
Lab ID	97C1406	97C1413	97C1407
SDG	SDGS004	SDGS004	SDGS004
File	DX4774.D	DX4806.D	DX4800.D
Sample Type	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core
Sample Size	24.3 g	24.9 g	15.1 g
Weight Basis	DRY	DRY	DRY
Associated Blank	BK-S-94PB	BK-S-94PB	BK-S-94PB
Field Date	7/11/1997	7/11/1997	7/11/1997
Extract Date	7/31/1997	7/31/1997	7/31/1997
Analysis Date	8/23/1997	8/26/1997	8/25/1997
Min Reporting Limit	0.00051	0.0005	0.00083
Units	ug/g	ug/g	ug/g

PAH			
Naphthalene	0.013 B	0.01 B	0.015 B
C1-Naphthalenes	0.028	0.025	0.028
C2-Naphthalenes	0.06	0.054	0.058
C3-Naphthalenes	0.054	0.049	0.054
C4-Naphthalenes	0.036	0.036	0.033
Acenaphthylene	0.00024 JB	0.00023 JB	0.00029 JB
Acenaphthene	0.0014 B	0.0011 B	0.0017
Biphenyl	0.0081	0.0071	0.0082
Fluorene	0.0078	0.0071	0.0085
C1-Fluorenes	0.013	0.012	0.014
C2-Fluorenes	0.016 L	0.018	0.019 L
C3-Fluorenes	0.02	0.017	0.019
Anthracene	0.0014	0.001	0.00091 J
Phenanthrene	0.028	0.023	0.028
C1-Phenanthrenes/anthracenes	0.04 L	0.034	0.043 L
C2-Phenanthrenes/anthracenes	0.041	0.032	0.038
C3-Phenanthrenes/anthracenes	0.025	0.018	0.023
C4-Phenanthrenes/anthracenes	0.013	0.012	0.018
Dibenzothiophene	0.0038	0.003	0.0034
C1-Dibenzothiophenes	0.006	0.0044	0.0062
C2-Dibenzothiophenes	0.006	0.0047	0.0056
C3-Dibenzothiophenes	0.0032 L	0.0026 L	0.0037 L
Fluoranthene	0.0059	0.0051	0.0056
Pyrene	0.0068	0.0058	0.0071
C1-Fluoranthenes/pyrenes	0.016	0.014	0.016
C2-Fluoranthenes/pyrenes	0.019	0.015	0.02
C3-Fluoranthenes/pyrenes	0.018	0.012	0.019
Benzo[a]anthracene	0.0029	0.0017	0.0029
Chrysene	0.0072	0.0053	0.0075
C1-Chrysenes	0.01	0.0068	0.011
C2-Chrysenes	0.013	0.0089	0.014
C3-Chrysenes	0.0097	0.0065	0.011
C4-Chrysenes	0.0087	0.0068	0.0086
Benzo[b]fluoranthene	0.0047	0.0031	0.0052
Benzo[k]fluoranthene	0.00059 J	0.00037 J	0.00052 J
Benzo[e]pyrene	0.0043	0.0032	0.0051
Benzo[a]pyrene	0.0013	0.001	0.0015
Perylene	0.027	0.02	0.032
Indeno[1,2,3,-c,d]pyrene	0.00095	0.00069 J	0.0013
Dibenzo[a,h]anthracene	0.00058 J	0.00045 J	0.00083 J
Benzo[g,h,i]perylene	0.0028	0.0022	0.0046
Total PAH	0.58	0.49	0.6
d8-Naphthalene	67	69	63
d10-Acenaphthene	70	77	72
d10-Phenanthrene	68	81	79
d12-Benzo[a]pyrene	60	71	72