

Arthur D. Little, Inc.

Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - BS-BSD - PAH

Field ID	Procedural Blank	Blank Spike			
Lab ID	BK-S-94PB	BK-S-95BS			
SDG	SDGS004	SDGS004			
File	DX4756.D	DX4757.D			
Sample Type	PB	BS			
Matrix	Sediment	Sediment			
Sample Size	20 g	20 g			
Weight Basis	DRY	DRY			
Associated Blank	NA	BK-S-94PB			
Field Date	NA	NA			
Extract Date	7/31/1997	7/31/1997			
Analysis Date	8/22/1997	8/22/1997			
Min Reporting Limit	0.00062	0.0025			
Units	ug/g	ug/g	T	%R	Q
PAH					
Naphthalene	0.0026	0.05	50	116	
C1-Naphthalenes	0.00094	0.00083 JB			
C2-Naphthalenes	ND	0.0019 J			
C3-Naphthalenes	ND	0.0035			
C4-Naphthalenes	ND	ND			
Acenaphthylene	0.000053 J	0.046	50	112	
Acenaphthene	0.00027 J	0.05	50	122	
Biphenyl	0.0002 J	0.00021 JB			
Fluorene	0.00035 J	0.05	50	121	
C1-Fluorenes	ND	ND			
C2-Fluorenes	ND	ND			
C3-Fluorenes	ND	ND			
Anthracene	0.000044 J	0.051	50	120	
Phenanthrene	0.00086	0.053	50	122	
C1-Phenanthrenes/anthracenes	0.00016 J	0.00025 JB			
C2-Phenanthrenes/anthracenes	ND	ND			
C3-Phenanthrenes/anthracenes	ND	ND			
C4-Phenanthrenes/anthracenes	ND	ND			
Dibenzothiophene	ND	ND			
C1-Dibenzothiophenes	ND	ND			
C2-Dibenzothiophenes	ND	ND			
C3-Dibenzothiophenes	ND	ND			
Fluoranthene	0.00015 J	0.054	50	126	
Pyrene	0.000074 J	0.053	50	124	
C1-Fluoranthenes/pyrenes	ND	ND			
C2-Fluoranthenes/pyrenes	ND	ND			
C3-Fluoranthenes/pyrenes	ND	ND			
Benzo[a]anthracene	ND	0.038	50	88	
Chrysene	ND	0.036	50	84	
C1-Chrysenes	ND	ND			
C2-Chrysenes	ND	ND			
C3-Chrysenes	ND	ND			
C4-Chrysenes	ND	ND			
Benzo[b]fluoranthene	ND	0.034	50	80	
Benzo[k]fluoranthene	ND	0.03	50	70	
Benzo[e]pyrene	ND	ND			
Benzo[a]pyrene	ND	0.05	50	72	
Perylene	ND	ND			
Indeno[1,2,3,-c,d]pyrene	ND	0.047	50	68	
Dibenzo[a,h]anthracene	ND	0.044	50	64	
Benzo[g,h,i]perylene	ND	0.044	50	64	
Total PAH	0.0057	0.74			
d8-Naphthalene	85	119			
d10-Acenaphthene	85	121			
d10-Phenanthrene	100	117			
d12-Benzo[a]pyrene	75	72			

Arthur D. Little, Inc.

Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - BS-BSD - PAH

Field ID	Procedural Blank	Blank Spike			
Lab ID	BK-S-97PB	BK-S-98BS			
SDG	SDGS005	SDGS005			
File	W1238.D	W1239.D			
Sample Type	PB	BS			
Matrix	Sediment	Sediment			
Sample Size	20 g	20 g			
Weight Basis	DRY	DRY			
Associated Blank	NA	BK-S-97PB			
Field Date	NA	NA			
Extract Date	7/31/1997	7/31/1997			
Analysis Date	8/28/1997	8/28/1997			
Min Reporting Limit	0.00062	0.00062			
Units	ug/g	ug/g	T	%R	Q
PAH					
Naphthalene	0.0014	0.05	50	70	
C1-Naphthalenes	0.00059 J	ND			
C2-Naphthalenes	0.00038 J	ND			
C3-Naphthalenes	ND	ND			
C4-Naphthalenes	ND	ND			
Acenaphthylene	0.0002 J	0.048	50	74	
Acenaphthene	0.00018 J	0.049	50	76	
Biphenyl	0.00019 J	ND			
Fluorene	0.00035 J	0.052	50	80	
C1-Fluorenes	ND	ND			
C2-Fluorenes	ND	ND			
C3-Fluorenes	ND	ND			
Anthracene	0.00013 J	0.049	50	78	
Phenanthrene	0.0012	0.049	50	76	
C1-Phenanthrenes/anthracenes	0.00022 J	ND			
C2-Phenanthrenes/anthracenes	ND	ND			
C3-Phenanthrenes/anthracenes	ND	ND			
C4-Phenanthrenes/anthracenes	ND	ND			
Dibenzothiophene	ND	ND			
C1-Dibenzothiophenes	ND	ND			
C2-Dibenzothiophenes	ND	ND			
C3-Dibenzothiophenes	ND	ND			
Fluoranthene	0.00026 J	0.051	50	82	
Pyrene	0.00014 J	0.05	50	80	
C1-Fluoranthenes/pyrenes	ND	ND			
C2-Fluoranthenes/pyrenes	ND	ND			
C3-Fluoranthenes/pyrenes	ND	ND			
Benzo[a]anthracene	ND	0.05	50	80	
Chrysene	ND	0.052	50	84	
C1-Chrysenes	ND	ND			
C2-Chrysenes	ND	ND			
C3-Chrysenes	ND	ND			
C4-Chrysenes	ND	ND			
Benzo[b]fluoranthene	ND	0.05	50	80	
Benzo[k]fluoranthene	ND	0.051	50	82	
Benzo[e]pyrene	ND	ND			
Benzo[a]pyrene	ND	0.052	50	68	
Perylene	ND	ND			
Indeno[1,2,3,-c,d]pyrene	ND	0.058	50	76	
Dibenzo[a,h]anthracene	ND	0.06	50	78	
Benzo[g,h,i]perylene	ND	0.055	50	72	
Total PAH	0.0052	0.82			
d8-Naphthalene	63	72			
d10-Acenaphthene	68	77			
d10-Phenanthrene	76	80			
d12-Benzo[a]pyrene	50	65			

Arthur D. Little, Inc.

Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - BS-BSD - PAH

Field ID	Procedural Blank	Blank Spike			
Lab ID	BL-S-90PB	BL-S-91BS			
SDG	SDGEB001	SDGEB001			
File	W1229.D	W1230.D			
Sample Type	PB	BS			
Matrix	Water	Water			
Sample Size	1 L	1 L			
Weight Basis	VOLUME	VOLUME			
Associated Blank	NA	BL-S-90PB			
Field Date	NA	NA			
Extract Date	8/19/1997	8/19/1997			
Analysis Date	8/28/1997	8/28/1997			
Min Reporting Limit	0.012	0.012			
Units	ug/L	ug/L	T	%R	Q
PAH					
Naphthalene	0.02	0.94	1000	64	
C1-Naphthalenes	0.0052 J	0.0081 JB			
C2-Naphthalenes	0.0033 J	0.0073 JB			
C3-Naphthalenes	ND	ND			
C4-Naphthalenes	ND	ND			
Acenaphthylene	0.002 J	0.95	1000	73	
Acenaphthene	0.0048 J	0.95	1000	73	
Biphenyl	0.0019 J	0.0042 JB			
Fluorene	0.0048 J	0.96	1000	74	
C1-Fluorenes	ND	ND			
C2-Fluorenes	ND	ND			
C3-Fluorenes	ND	ND			
Anthracene	0.0019 J	0.93	1000	74	
Phenanthrene	0.014 J	0.96	1000	76	
C1-Phenanthrenes/anthracenes	0.003 J	0.007 JB			
C2-Phenanthrenes/anthracenes	ND	ND			
C3-Phenanthrenes/anthracenes	ND	ND			
C4-Phenanthrenes/anthracenes	ND	ND			
Dibenzothiophene	ND	0.0075 J			
C1-Dibenzothiophenes	ND	ND			
C2-Dibenzothiophenes	ND	ND			
C3-Dibenzothiophenes	ND	ND			
Fluoranthene	0.0039 J	1	1000	80	
Pyrene	0.0026 J	0.99	1000	79	
C1-Fluoranthenes/pyrenes	0.0017 J	0.0089 J			
C2-Fluoranthenes/pyrenes	ND	ND			
C3-Fluoranthenes/pyrenes	ND	ND			
Benzo[a]anthracene	ND	0.96	1000	77	
Chrysene	0.0012 J	0.99	1000	79	
C1-Chrysenes	ND	ND			
C2-Chrysenes	ND	ND			
C3-Chrysenes	ND	ND			
C4-Chrysenes	ND	ND			
Benzo[b]fluoranthene	0.0013 J	0.96	1000	77	
Benzo[k]fluoranthene	0.00065 J	1	1000	80	
Benzo[e]pyrene	0.00089 J	ND			
Benzo[a]pyrene	0.001 J	0.98	1000	79	
Perylene	ND	ND			
Indeno[1,2,3,-c,d]pyrene	0.00079 J	0.98	1000	79	
Dibenzo[a,h]anthracene	ND	0.98	1000	79	
Benzo[g,h,i]perylene	0.00088 J	0.96	1000	78	
Total PAH	0.076	16			
d8-Naphthalene	61	69			
d10-Acenaphthene	69	77			
d10-Phenanthrene	77	80			
d12-Benzo[a]pyrene	73	81			

Arthur D. Little, Inc.

Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - BS-BSD - PAH

Field ID	Procedural Blank	Blank Spike			
Lab ID	BL-S-92PB	BL-S-93BS			
SDG	SDGEB001	SDGEB001			
File	W1231.D	W1232.D			
Sample Type	PB	BS			
Matrix	Water	Water			
Sample Size	1 L	1 L			
Weight Basis	VOLUME	VOLUME			
Associated Blank	NA	BL-S-92PB			
Field Date	NA	NA			
Extract Date	8/19/1997	8/19/1997			
Analysis Date	8/28/1997	8/28/1997			
Min Reporting Limit	0.012	0.012			
Units	ug/L	ug/L	T	%R	Q
PAH					
Naphthalene	0.012 J	0.93	1000	67	
C1-Naphthalenes	0.0039 J	0.0053 JB			
C2-Naphthalenes	ND	ND			
C3-Naphthalenes	ND	ND			
C4-Naphthalenes	ND	ND			
Acenaphthylene	ND	0.96	1000	72	
Acenaphthene	0.0018 J	0.97	1000	73	
Biphenyl	0.0016 J	0.0036 JB			
Fluorene	0.0017 J	0.97	1000	73	
C1-Fluorenes	ND	ND			
C2-Fluorenes	ND	ND			
C3-Fluorenes	ND	ND			
Anthracene	0.00097 J	0.91	1000	70	
Phenanthrene	0.0045 J	0.95	1000	73	
C1-Phenanthrenes/anthracenes	0.0015 J	ND			
C2-Phenanthrenes/anthracenes	ND	ND			
C3-Phenanthrenes/anthracenes	ND	ND			
C4-Phenanthrenes/anthracenes	ND	ND			
Dibenzothiophene	ND	ND			
C1-Dibenzothiophenes	ND	ND			
C2-Dibenzothiophenes	ND	ND			
C3-Dibenzothiophenes	ND	ND			
Fluoranthene	ND	0.99	1000	76	
Pyrene	ND	0.96	1000	74	
C1-Fluoranthenes/pyrenes	ND	ND			
C2-Fluoranthenes/pyrenes	ND	ND			
C3-Fluoranthenes/pyrenes	ND	ND			
Benzo[a]anthracene	0.0012 J	0.95	1000	73	
Chrysene	0.0011 J	0.97	1000	75	
C1-Chrysenes	ND	ND			
C2-Chrysenes	ND	ND			
C3-Chrysenes	ND	ND			
C4-Chrysenes	ND	ND			
Benzo[b]fluoranthene	0.00057 J	0.95	1000	73	
Benzo[k]fluoranthene	0.00043 J	0.96	1000	74	
Benzo[e]pyrene	ND	ND			
Benzo[a]pyrene	ND	0.99	1000	73	
Perylene	ND	ND			
Indeno[1,2,3,-c,d]pyrene	0.00085 J	1	1000	74	
Dibenzo[a,h]anthracene	0.00085 J	1	1000	74	
Benzo[g,h,i]perylene	0.001 J	1	1000	74	
Total PAH	0.034	15			
d8-Naphthalene	71	73			
d10-Acenaphthene	76	75			
d10-Phenanthrene	79	77			
d12-Benzo[a]pyrene	68	74			

Arthur D. Little, Inc.

Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - BS-BSD - PAH

Field ID	Procedural Blank	Blank Spike			
Lab ID	BO-S-32PB	BO-S-33BS			
SDG	SDGS006	SDGS006			
File	DX6415.D	DX6416.D			
Sample Type	BS	BS			
Matrix	Sediment	Sediment			
Sample Size	20 g	20 g			
Weight Basis	DRY	DRY			
Associated Blank	NA	BO-S-32PB			
Field Date	NA	NA			
Extract Date	12/17/1997	12/17/1997			
Analysis Date	12/30/1997	12/31/1997			
Min Reporting Limit	0.00062	0.0025			
Units	ug/g	ug/g	T	%R	Q
PAH					
Naphthalene	0.00083	0.054	50	99	
C1-Naphthalenes	ND	ND			
C2-Naphthalenes	ND	ND			
C3-Naphthalenes	ND	ND			
C4-Naphthalenes	ND	ND			
Acenaphthylene	ND	0.049	50	88	
Acenaphthene	ND	0.05	50	90	
Biphenyl	ND	ND			
Fluorene	ND	0.051	50	92	
C1-Fluorenes	ND	ND			
C2-Fluorenes	ND	ND			
C3-Fluorenes	ND	ND			
Anthracene	ND	0.04	50	70	
Phenanthrene	0.00059 J	0.053	50	91	
C1-Phenanthrenes/anthracenes	ND	ND			
C2-Phenanthrenes/anthracenes	ND	ND			
C3-Phenanthrenes/anthracenes	ND	ND			
C4-Phenanthrenes/anthracenes	ND	ND			
Dibenzothiophene	ND	ND			
C1-Dibenzothiophenes	ND	ND			
C2-Dibenzothiophenes	ND	ND			
C3-Dibenzothiophenes	ND	ND			
Fluoranthene	0.00016 J	0.055	50	96	
Pyrene	0.00011 J	0.054	50	94	
C1-Fluoranthenes/pyrenes	ND	ND			
C2-Fluoranthenes/pyrenes	ND	ND			
C3-Fluoranthenes/pyrenes	ND	ND			
Benzo[a]anthracene	ND	0.053	50	92	
Chrysene	ND	0.056	50	98	
C1-Chrysenes	ND	ND			
C2-Chrysenes	ND	ND			
C3-Chrysenes	ND	ND			
C4-Chrysenes	ND	ND			
Benzo[b]fluoranthene	ND	0.056	50	98	
Benzo[k]fluoranthene	ND	0.059	50	102	
Benzo[e]pyrene	ND	0.00034 J			
Benzo[a]pyrene	ND	0.055	50	92	
Perylene	ND	ND			
Indeno[1,2,3,-c,d]pyrene	ND	0.064	50	108	
Dibenzo[a,h]anthracene	ND	0.068	50	114	
Benzo[g,h,i]perylene	ND	0.061	50	102	
Total PAH	0.0017	0.88			
d8-Naphthalene	78	93			
d10-Acenaphthene	79	90			
d10-Phenanthrene	79	87			
d12-Benzo[a]pyrene	73	84			

Arthur D. Little, Inc.

Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - BS-BSD - PAH

Field ID	Procedural Blank	Blank Spike			
Lab ID	BK-S-86PB	BK-S-87BS			
SDG	SDGS001	SDGS001			
File	DZ9898.D	DZ9900.D			
Sample Type	PB	BS			
Matrix	Sediment	Sediment			
Sample Size	20 g	20 g			
Weight Basis	DRY	DRY			
Associated Blank	NA	BK-S-86PB			
Field Date	NA	NA			
Extract Date	7/23/1997	7/23/1997			
Analysis Date	7/30/1997	7/30/1997			
Min Reporting Limit	0.00062	0.00062			
Units	ug/g	ug/g	T	%R	Q
PAH					
Naphthalene	0.0016	0.042	50	73	
C1-Naphthalenes	0.00077	0.00052 J B			
C2-Naphthalenes	ND	ND			
C3-Naphthalenes	ND	ND			
C4-Naphthalenes	ND	ND			
Acenaphthylene	ND	0.028	50	50	
Acenaphthene	ND	0.043	50	76	
Biphenyl	0.00039 J	0.0036			
Fluorene	0.00032 J	0.044	50	77	
C1-Fluorenes	ND	ND			
C2-Fluorenes	ND	ND			
C3-Fluorenes	ND	ND			
Anthracene	0.00025 J	0.037	50	70	
Phenanthrene	0.0021	0.045	50	80	
C1-Phenanthrenes/anthracenes	0.00055 J	0.0004 J B			
C2-Phenanthrenes/anthracenes	ND	ND			
C3-Phenanthrenes/anthracenes	ND	ND			
C4-Phenanthrenes/anthracenes	ND	ND			
Dibenzothiophene	0.00015 J	0.00034 J B			
C1-Dibenzothiophenes	ND	ND			
C2-Dibenzothiophenes	ND	ND			
C3-Dibenzothiophenes	ND	ND			
Fluoranthene	0.00065 J	0.047	50	87	
Pyrene	0.0016	0.046	50	83	
C1-Fluoranthenes/pyrenes	ND	ND			
C2-Fluoranthenes/pyrenes	ND	ND			
C3-Fluoranthenes/pyrenes	ND	ND			
Benzo[a]anthracene	ND	0.042	50	80	
Chrysene	0.00011 J	0.045	50	84	
C1-Chrysenes	ND	ND			
C2-Chrysenes	ND	ND			
C3-Chrysenes	ND	ND			
C4-Chrysenes	ND	ND			
Benzo[b]fluoranthene	ND	0.044	50	82	
Benzo[k]fluoranthene	ND	0.042	50	80	
Benzo[e]pyrene	ND	ND			
Benzo[a]pyrene	ND	0.041	50	60	
Perylene	ND	ND			
Indeno[1,2,3,-c,d]pyrene	ND	0.053	50	78	
Dibenzo[a,h]anthracene	ND	0.058	50	84	
Benzo[g,h,i]perylene	0.00016 J	0.053	50	78	
Total PAH	0.0086	0.71			
d8-Naphthalene	80	91			
d10-Acenaphthene	82	89			
d10-Phenanthrene	88	94			
d12-Benzo[a]pyrene	74	73			

Arthur D. Little, Inc.

Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - BS-BSD - PAH

Field ID	Procedural Blank	Blank Spike			
Lab ID	BK-S-89PB	BK-S-90BS			
SDG	SDGS002	SDGS002			
File	DZ9934.D	DZ9935.D			
Sample Type	PB	BS			
Matrix	Sediment	Sediment			
Sample Size	20 g	20 g			
Weight Basis	DRY	DRY			
Associated Blank	NA	BK-S-89PB			
Field Date	NA	NA			
Extract Date	7/24/1997	7/24/1997			
Analysis Date	8/1/1997	8/1/1997			
Min Reporting Limit	0.00062	0.00062			
Units	ug/g	ug/g	T	%R	Q
PAH					
Naphthalene	0.00083 J	0.044	50	69	
C1-Naphthalenes	0.0004 J	0.00046 J			
C2-Naphthalenes	ND	ND			
C3-Naphthalenes	ND	ND			
C4-Naphthalenes	ND	ND			
Acenaphthylene	ND	0.04	50	64	
Acenaphthene	ND	0.044	50	70	
Biphenyl	ND	ND			
Fluorene	ND	0.044	50	70	
C1-Fluorenes	ND	ND			
C2-Fluorenes	ND	ND			
C3-Fluorenes	ND	ND			
Anthracene	ND	0.037	50	62	
Phenanthrene	0.00041 J	0.043	50	71	
C1-Phenanthrenes/anthracenes	ND	ND			
C2-Phenanthrenes/anthracenes	ND	ND			
C3-Phenanthrenes/anthracenes	ND	ND			
C4-Phenanthrenes/anthracenes	ND	ND			
Dibenzothiophene	ND	ND			
C1-Dibenzothiophenes	ND	ND			
C2-Dibenzothiophenes	ND	ND			
C3-Dibenzothiophenes	ND	ND			
Fluoranthene	0.00012 J	0.046	50	76	
Pyrene	0.0001 J	0.044	50	74	
C1-Fluoranthenes/pyrenes	ND	ND			
C2-Fluoranthenes/pyrenes	ND	ND			
C3-Fluoranthenes/pyrenes	ND	ND			
Benzo[a]anthracene	ND	0.041	50	68	
Chrysene	ND	0.043	50	72	
C1-Chrysenes	ND	ND			
C2-Chrysenes	ND	ND			
C3-Chrysenes	ND	ND			
C4-Chrysenes	ND	ND			
Benzo[b]fluoranthene	ND	0.043	50	72	
Benzo[k]fluoranthene	ND	0.042	50	70	
Benzo[e]pyrene	ND	ND			
Benzo[a]pyrene	ND	0.042	50	56	
Perylene	ND	ND			
Indeno[1,2,3,-c,d]pyrene	ND	0.052	50	70	
Dibenzo[a,h]anthracene	ND	0.054	50	72	
Benzo[g,h,i]perylene	ND	0.051	50	68	
Total PAH	0.0019	0.71			
d8-Naphthalene	72	79			
d10-Acenaphthene	72	80			
d10-Phenanthrene	76	83			
d12-Benzo[a]pyrene	62	67			

Arthur D. Little, Inc.

Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - BS-BSD - PAH

Field ID	Procedural Blank	Blank Spike			
Lab ID	BK-S-91PB	BK-S-92BS			
SDG	SDGS003	SDGS003			
File	DZ0045.D	DZ0046.D			
Sample Type	PB	BS			
Matrix	Sediment	Sediment			
Sample Size	20 g	20 g			
Weight Basis	DRY	DRY			
Associated Blank	NA	BK-S-91PB			
Field Date	NA	NA			
Extract Date	7/24/1997	7/24/1997			
Analysis Date	8/8/1997	8/8/1997			
Min Reporting Limit	0.00062	0.00062			
Units	ug/g	ug/g	T	%R	Q
PAH					
Naphthalene	0.0013	0.043	50	87	
C1-Naphthalenes	0.00059 J	0.00057 J			
C2-Naphthalenes	ND	ND			
C3-Naphthalenes	ND	ND			
C4-Naphthalenes	ND	ND			
Acenaphthylene	ND	0.032	50	66	
Acenaphthene	ND	0.042	50	86	
Biphenyl	0.00017 J	0.00017 J			
Fluorene	0.00018 J	0.042	50	86	
C1-Fluorenes	ND	ND			
C2-Fluorenes	ND	ND			
C3-Fluorenes	ND	ND			
Anthracene	ND	0.032	50	68	
Phenanthrene	0.00051 J	0.043	50	89	
C1-Phenanthrenes/anthracenes	ND	ND			
C2-Phenanthrenes/anthracenes	ND	ND			
C3-Phenanthrenes/anthracenes	ND	ND			
C4-Phenanthrenes/anthracenes	ND	ND			
Dibenzothiophene	ND	0.00028 J			
C1-Dibenzothiophenes	ND	ND			
C2-Dibenzothiophenes	ND	ND			
C3-Dibenzothiophenes	ND	ND			
Fluoranthene	0.00011 J	0.048	50	100	
Pyrene	0.000093 J	0.046	50	96	
C1-Fluoranthenes/pyrenes	ND	ND			
C2-Fluoranthenes/pyrenes	ND	ND			
C3-Fluoranthenes/pyrenes	ND	ND			
Benzo[a]anthracene	ND	0.042	50	88	
Chrysene	ND	0.044	50	92	
C1-Chrysenes	ND	ND			
C2-Chrysenes	ND	ND			
C3-Chrysenes	ND	ND			
C4-Chrysenes	ND	ND			
Benzo[b]fluoranthene	ND	0.047	50	98	
Benzo[k]fluoranthene	ND	0.045	50	94	
Benzo[e]pyrene	ND	ND			
Benzo[a]pyrene	ND	0.043	50	64	
Perylene	ND	ND			
Indeno[1,2,3,-c,d]pyrene	ND	0.065	50	98	
Dibenzo[a,h]anthracene	ND	0.065	50	98	
Benzo[g,h,i]perylene	ND	0.06	50	90	
Total PAH	0.0029	0.74			
d8-Naphthalene	101	105			
d10-Acenaphthene	94	102			
d10-Phenanthrene	102	105			
d12-Benzo[a]pyrene	79	75			

Arthur D. Little, Inc.

Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - BS-BSD - PAH

Field ID	Procedural Blank	Blank Spike			
Lab ID	BL-S-04PB	BL-S-05BS			
SDG	SDGS007	SDGS007			
File	DZ2141.D	DZ2142.D			
Sample Type	PB	BS			
Matrix	Sediment	Sediment			
Sample Size	20 g	20 g			
Weight Basis	DRY	DRY			
Associated Blank	NA	BL-S-04PB			
Field Date	NA	NA			
Extract Date	8/5/1997	8/5/1997			
Analysis Date	8/29/1997	8/29/1997			
Min Reporting Limit	0.00062	0.00062			
Units	ug/g	ug/g	T	%R	Q
PAH					
Naphthalene	0.0015	0.047	50	70	
C1-Naphthalenes	0.0025	0.0033 B			
C2-Naphthalenes	0.0027	0.0033 B			
C3-Naphthalenes	ND	ND			
C4-Naphthalenes	ND	ND			
Acenaphthylene	0.0002 J	0.047	50	72	
Acenaphthene	0.00015 J	0.047	50	72	
Biphenyl	0.00018 J	0.00021 JB			
Fluorene	ND	0.05	50	76	
C1-Fluorenes	ND	ND			
C2-Fluorenes	ND	ND			
C3-Fluorenes	ND	ND			
Anthracene	0.000099 J	0.049	50	78	
Phenanthrene	0.001	0.049	50	76	
C1-Phenanthrenes/anthracenes	0.00049 J	0.00059 JB			
C2-Phenanthrenes/anthracenes	ND	ND			
C3-Phenanthrenes/anthracenes	ND	ND			
C4-Phenanthrenes/anthracenes	ND	ND			
Dibenzothiophene	ND	ND			
C1-Dibenzothiophenes	ND	ND			
C2-Dibenzothiophenes	ND	ND			
C3-Dibenzothiophenes	ND	ND			
Fluoranthene	0.00026 J	0.054	50	86	
Pyrene	0.00017 J	0.052	50	84	
C1-Fluoranthenes/pyrenes	ND	ND			
C2-Fluoranthenes/pyrenes	ND	ND			
C3-Fluoranthenes/pyrenes	ND	ND			
Benzo[a]anthracene	ND	0.052	50	84	
Chrysene	ND	0.05	50	80	
C1-Chrysenes	ND	ND			
C2-Chrysenes	ND	ND			
C3-Chrysenes	ND	ND			
C4-Chrysenes	ND	ND			
Benzo[b]fluoranthene	ND	0.055	50	88	
Benzo[k]fluoranthene	ND	0.052	50	84	
Benzo[e]pyrene	ND	ND			
Benzo[a]pyrene	ND	0.051	50	80	
Perylene	ND	ND			
Indeno[1,2,3,-c,d]pyrene	ND	0.061	50	96	
Dibenzo[a,h]anthracene	ND	0.062	50	98	
Benzo[g,h,i]perylene	ND	0.051	50	80	
Total PAH	0.0092	0.84			
d8-Naphthalene	72	76			
d10-Acenaphthene	73	76			
d10-Phenanthrene	78	80			
d12-Benzo[a]pyrene	82	79			

Arthur D. Little, Inc.

Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - BS-BSD - PAH

Field ID	Procedural Blank	Blank Spike			
Lab ID	BL-S-07PB	BL-S-08BS			
SDG	SDGS008	SDGS008			
File	DZ2176.D	DZ2177.D			
Sample Type	PB	BS			
Matrix	Sediment	Sediment			
Sample Size	15 g	15 g			
Weight Basis	DRY	DRY			
Associated Blank	NA	BL-S-07PB			
Field Date	NA	NA			
Extract Date	8/6/1997	8/6/1997			
Analysis Date	8/31/1997	8/31/1997			
Min Reporting Limit	0.00083	0.00083			
Units	ug/g	ug/g	T	%R	Q
PAH					
Naphthalene	0.0016	0.065	67	68	
C1-Naphthalenes	0.00055 J	0.00061 JB			
C2-Naphthalenes	ND	ND			
C3-Naphthalenes	ND	ND			
C4-Naphthalenes	ND	ND			
Acenaphthylene	ND	0.062	67	69	
Acenaphthene	0.00019 J	0.065	67	71	
Biphenyl	0.00045 J	0.00049 JB			
Fluorene	ND	0.065	67	72	
C1-Fluorenes	ND	ND			
C2-Fluorenes	ND	ND			
C3-Fluorenes	ND	ND			
Anthracene	ND	0.063	67	73	
Phenanthrene	0.00058 J	0.065	67	75	
C1-Phenanthrenes/anthracenes	ND	ND			
C2-Phenanthrenes/anthracenes	ND	ND			
C3-Phenanthrenes/anthracenes	ND	ND			
C4-Phenanthrenes/anthracenes	ND	ND			
Dibenzothiophene	ND	ND			
C1-Dibenzothiophenes	ND	ND			
C2-Dibenzothiophenes	ND	ND			
C3-Dibenzothiophenes	ND	ND			
Fluoranthene	ND	0.073	67	85	
Pyrene	ND	0.07	67	82	
C1-Fluoranthenes/pyrenes	ND	ND			
C2-Fluoranthenes/pyrenes	ND	ND			
C3-Fluoranthenes/pyrenes	ND	ND			
Benzo[a]anthracene	ND	0.067	67	78	
Chrysene	ND	0.067	67	78	
C1-Chrysenes	ND	ND			
C2-Chrysenes	ND	ND			
C3-Chrysenes	ND	ND			
C4-Chrysenes	ND	ND			
Benzo[b]fluoranthene	ND	0.067	67	78	
Benzo[k]fluoranthene	ND	0.064	67	75	
Benzo[e]pyrene	ND	ND			
Benzo[a]pyrene	ND	0.067	67	69	
Perylene	ND	ND			
Indeno[1,2,3,-c,d]pyrene	ND	0.071	67	73	
Dibenzo[a,h]anthracene	ND	0.074	67	76	
Benzo[g,h,i]perylene	ND	0.071	67	73	
Total PAH	0.0034	1.1			
d8-Naphthalene	81	72			
d10-Acenaphthene	80	74			
d10-Phenanthrene	83	78			
d12-Benzo[a]pyrene	73	69			

Arthur D. Little, Inc.

Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - BS-BSD - PAH

Field ID	Procedural Blank	Blank Spike			
Lab ID	BO-S-35PB	BO-S-36BS			
SDG	SDGSOD	SDGSOD			
File	DY7196.D	DY7197.D			
Sample Type	PB	BS			
Matrix	NA	NA			
Sample Size	20 g	20 g			
Weight Basis	DRY	DRY			
Associated Blank	NA	BO-S-35PB			
Field Date	NA	NA			
Extract Date	12/23/1997	12/23/1997			
Analysis Date	1/3/1998	1/3/1998			
Min Reporting Limit	0.00062	0.0025			
Units	ug/g	ug/g	T	%R	Q
PAH					
Naphthalene	0.00048 J	0.057	50	95	
C1-Naphthalenes	0.00031 J	ND			
C2-Naphthalenes	ND	ND			
C3-Naphthalenes	ND	ND			
C4-Naphthalenes	ND	ND			
Acenaphthylene	ND	0.059	50	102	
Acenaphthene	ND	0.058	50	100	
Biphenyl	ND	ND			
Fluorene	ND	0.06	50	104	
C1-Fluorenes	ND	ND			
C2-Fluorenes	ND	ND			
C3-Fluorenes	ND	ND			
Anthracene	ND	0.033	50	56	
Phenanthrene	0.0003 J	0.06	50	102	
C1-Phenanthrenes/anthracenes	ND	ND			
C2-Phenanthrenes/anthracenes	ND	ND			
C3-Phenanthrenes/anthracenes	ND	ND			
C4-Phenanthrenes/anthracenes	ND	ND			
Dibenzothiophene	ND	ND			
C1-Dibenzothiophenes	ND	ND			
C2-Dibenzothiophenes	ND	ND			
C3-Dibenzothiophenes	ND	ND			
Fluoranthene	ND	0.064	50	108	
Pyrene	ND	0.061	50	104	
C1-Fluoranthenes/pyrenes	ND	ND			
C2-Fluoranthenes/pyrenes	ND	ND			
C3-Fluoranthenes/pyrenes	ND	ND			
Benzo[a]anthracene	ND	0.06	50	102	
Chrysene	ND	0.066	50	112	
C1-Chrysenes	ND	ND			
C2-Chrysenes	ND	ND			
C3-Chrysenes	ND	ND			
C4-Chrysenes	ND	ND			
Benzo[b]fluoranthene	ND	0.062	50	106	
Benzo[k]fluoranthene	ND	0.064	50	108	
Benzo[e]pyrene	ND	ND			
Benzo[a]pyrene	ND	0.059	50	88	
Perylene	ND	ND			
Indeno[1,2,3,-c,d]pyrene	NA	NA			
Dibenzo[a,h]anthracene	NA	NA			
Benzo[g,h,i]perylene	NA	NA			
Total PAH	0.0011	0.76			
d8-Naphthalene	70	84			
d10-Acenaphthene	74	86			
d10-Phenanthrene	79	85			
d12-Benzo[a]pyrene	66	74			

Arthur D. Little, Inc.

Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - BS-BSD - PAH

Field ID	Procedural Blank	Blank Spike			
Lab ID	BP-S-30PB	BP-S-31BS			
SDG	SDGSOD	SDGSOD			
File	DY7195.D	DY7198.D			
Sample Type	PB	BS			
Matrix	NA	NA			
Sample Size	20 mg	20 mg			
Weight Basis	DRY	DRY			
Associated Blank	NA	BP-S-30PB			
Field Date	NA	NA			
Extract Date	12/23/1997	12/23/1997			
Analysis Date	1/3/1998	1/3/1998			
Min Reporting Limit	0.62	2.5			
Units	ug/g	ug/g	T	%R	Q
PAH					
Naphthalene	ND	56	50	104	
C1-Naphthalenes	ND	ND			
C2-Naphthalenes	ND	ND			
C3-Naphthalenes	ND	ND			
C4-Naphthalenes	ND	ND			
Acenaphthylene	ND	63	50	114	
Acenaphthene	ND	58	50	106	
Biphenyl	ND	ND			
Fluorene	ND	60	50	110	
C1-Fluorenes	ND	ND			
C2-Fluorenes	0.26 J	ND			
C3-Fluorenes	ND	ND			
Anthracene	ND	37	50	64	
Phenanthrene	ND	62	50	108	
C1-Phenanthrenes/anthracenes	ND	ND			
C2-Phenanthrenes/anthracenes	ND	ND			
C3-Phenanthrenes/anthracenes	ND	ND			
C4-Phenanthrenes/anthracenes	ND	ND			
Dibenzothiophene	ND	ND			
C1-Dibenzothiophenes	0.23 J	ND			
C2-Dibenzothiophenes	0.18 J	ND			
C3-Dibenzothiophenes	ND	ND			
Fluoranthene	ND	63	50	110	
Pyrene	ND	62	50	108	
C1-Fluoranthenes/pyrenes	ND	ND			
C2-Fluoranthenes/pyrenes	ND	ND			
C3-Fluoranthenes/pyrenes	ND	ND			
Benzo[a]anthracene	ND	62	50	108	
Chrysene	ND	64	50	112	
C1-Chrysenes	ND	ND			
C2-Chrysenes	0.18 J	ND			
C3-Chrysenes	0.077 J	ND			
C4-Chrysenes	ND	ND			
Benzo[b]fluoranthene	ND	62	50	108	
Benzo[k]fluoranthene	ND	63	50	110	
Benzo[e]pyrene	ND	ND			
Benzo[a]pyrene	ND	62	50	104	
Perylene	ND	ND			
Indeno[1,2,3,-c,d]pyrene	NA	NA			
Dibenzo[a,h]anthracene	NA	NA			
Benzo[g,h,i]perylene	NA	NA			
Total PAH	0.93	770			
d8-Naphthalene	95	92			
d10-Acenaphthene	92	91			
d10-Phenanthrene	93	87			
d12-Benzo[a]pyrene	95	84			

Arthur D. Little, Inc.

Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - BS-BSD - PAH

Field ID	Procedural Blank	Blank Spike				
Lab ID	BL-S-64PBREF	BL-S-65BSREF				
SDG	SDGT001	SDGT001				
File	DZ3359.D	DZ3361.D				
Sample Type	PB	BS				
Matrix	Tissue	Tissue				
Sample Size	5 g	5 g				
Weight Basis	DRY	DRY				
Associated Blank	NA	BL-S-64PBREF				
Field Date	NA	NA				
Extract Date	8/8/1997	8/8/1997				
Analysis Date	11/25/1997	11/25/1997				
Min Reporting Limit	0.01	0.01				
Units	ug/g	ug/g	T	%R	Q	
PAH						
Naphthalene	0.024	0.19	200	34	&	
C1-Naphthalenes	0.0087 J	0.0096 JB				
C2-Naphthalenes	ND	ND				
C3-Naphthalenes	ND	ND				
C4-Naphthalenes	ND	ND				
Acenaphthylene	ND	0.17	200	41	&	
Acenaphthene	ND	0.19	200	45		
Biphenyl	ND	0.0058 J				
Fluorene	ND	0.19	200	46		
C1-Fluorenes	ND	ND				
C2-Fluorenes	ND	ND				
C3-Fluorenes	ND	ND				
Anthracene	ND	0.16	200	39	&	
Phenanthrene	0.016 J	0.2	200	45		
C1-Phenanthrenes/anthracenes	ND	ND				
C2-Phenanthrenes/anthracenes	ND	ND				
C3-Phenanthrenes/anthracenes	ND	ND				
C4-Phenanthrenes/anthracenes	ND	ND				
Dibenzothiophene	ND	ND				
C1-Dibenzothiophenes	ND	ND				
C2-Dibenzothiophenes	ND	ND				
C3-Dibenzothiophenes	ND	ND				
Fluoranthene	ND	0.21	200	50		
Pyrene	ND	0.21	200	50		
C1-Fluoranthenes/pyrenes	ND	ND				
C2-Fluoranthenes/pyrenes	ND	ND				
C3-Fluoranthenes/pyrenes	ND	ND				
Benzo[a]anthracene	ND	0.21	200	50		
Chrysene	ND	0.23	200	55		
C1-Chrysenes	ND	ND				
C2-Chrysenes	ND	ND				
C3-Chrysenes	ND	ND				
C4-Chrysenes	ND	ND				
Benzo[b]fluoranthene	ND	0.23	200	55		
Benzo[k]fluoranthene	ND	0.23	200	55		
Benzo[e]pyrene	ND	ND				
Benzo[a]pyrene	ND	0.19	200	48		
Perylene	ND	ND				
Indeno[1,2,3,-c,d]pyrene	ND	0.17	200	44	&	
Dibenzo[a,h]anthracene	ND	0.18	200	45		
Benzo[g,h,i]perylene	0.013 J	0.16	200	39	&	
Total PAH	0.062	3.1				
d8-Naphthalene	59	43				
d10-Acenaphthene	55	48				
d10-Phenanthrene	56	48				
d12-Benzo[a]pyrene	50	51				

Arthur D. Little, Inc.

Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - BS-BSD - PAH

Field ID	Procedural Blank	Blank Spike			
Lab ID	BL-S-81PB	BL-S-82BS			
SDG	SDGW001	SDGW001			
File	DZ2509.D	DZ2511.D			
Sample Type	PB	BS			
Matrix	Water	Water			
Sample Size	1 L	1 L			
Weight Basis	VOLUME	VOLUME			
Associated Blank	NA	BL-S-81PB			
Field Date	NA	NA			
Extract Date	8/18/1997	8/18/1997			
Analysis Date	9/25/1997	9/25/1997			
Min Reporting Limit	0.012	0.012			
Units	ug/L	ug/L	T	%R	Q
PAH					
Naphthalene	0.025	1	1000	72	
C1-Naphthalenes	0.0078 J	0.0079 J			
C2-Naphthalenes	ND	ND			
C3-Naphthalenes	ND	ND			
C4-Naphthalenes	ND	ND			
Acenaphthylene	ND	1	1000	79	
Acenaphthene	0.0053 J	1	1000	77	
Biphenyl	ND	0.0032 J			
Fluorene	0.0058 J	1	1000	78	
C1-Fluorenes	ND	ND			
C2-Fluorenes	ND	ND			
C3-Fluorenes	ND	ND			
Anthracene	0.0018 J	0.98	1000	78	
Phenanthrene	0.014 J	1	1000	80	
C1-Phenanthrenes/anthracenes	ND	ND			
C2-Phenanthrenes/anthracenes	ND	ND			
C3-Phenanthrenes/anthracenes	ND	ND			
C4-Phenanthrenes/anthracenes	ND	ND			
Dibenzothiophene	ND	ND			
C1-Dibenzothiophenes	ND	ND			
C2-Dibenzothiophenes	ND	ND			
C3-Dibenzothiophenes	ND	ND			
Fluoranthene	0.0032 J	1.1	1000	89	
Pyrene	0.0016 J	1.1	1000	86	
C1-Fluoranthenes/pyrenes	ND	ND			
C2-Fluoranthenes/pyrenes	ND	ND			
C3-Fluoranthenes/pyrenes	ND	ND			
Benzo[a]anthracene	ND	1.1	1000	85	
Chrysene	ND	1	1000	80	
C1-Chrysenes	ND	ND			
C2-Chrysenes	ND	ND			
C3-Chrysenes	ND	ND			
C4-Chrysenes	ND	ND			
Benzo[b]fluoranthene	ND	1.1	1000	87	
Benzo[k]fluoranthene	ND	1	1000	80	
Benzo[e]pyrene	ND	ND			
Benzo[a]pyrene	ND	1	1000	79	
Perylene	ND	ND			
Indeno[1,2,3,-c,d]pyrene	NA	NA			
Dibenzo[a,h]anthracene	NA	NA			
Benzo[g,h,i]perylene	NA	NA			
Total PAH	0.065	13			
d8-Naphthalene	71	72			
d10-Acenaphthene	74	77			
d10-Phenanthrene	77	80			
d12-Benzo[a]pyrene	81	77			

Arthur D. Little, Inc.

Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - BS-BSD - PAH

Field ID	Procedural Blank	Blank Spike			
Lab ID	BM-S-29PB	BM-S-30BS			
SDG	SDGW002	SDGW002			
File	DZ2510.D	DZ2512.D			
Sample Type	PB	BS			
Matrix	Water	Water			
Sample Size	1 L	1 L			
Weight Basis	VOLUME	VOLUME			
Associated Blank	NA	BM-S-29PB			
Field Date	NA	NA			
Extract Date	9/2/1997	9/2/1997			
Analysis Date	9/25/1997	9/25/1997			
Min Reporting Limit	0.012	0.012			
Units	ug/L	ug/L	T	%R	Q
PAH					
Naphthalene	0.023	0.88	1000	65	
C1-Naphthalenes	0.0085 J	0.0069 J			
C2-Naphthalenes	ND	ND			
C3-Naphthalenes	ND	ND			
C4-Naphthalenes	ND	ND			
Acenaphthylene	ND	0.88	1000	76	
Acenaphthene	0.0027 J	0.91	1000	78	
Biphenyl	0.0015 J	0.0021 J			
Fluorene	ND	0.91	1000	78	
C1-Fluorenes	ND	ND			
C2-Fluorenes	ND	ND			
C3-Fluorenes	ND	ND			
Anthracene	ND	0.8	1000	73	
Phenanthrene	0.0078 J	0.89	1000	80	
C1-Phenanthrenes/anthracenes	ND	ND			
C2-Phenanthrenes/anthracenes	ND	ND			
C3-Phenanthrenes/anthracenes	ND	ND			
C4-Phenanthrenes/anthracenes	ND	ND			
Dibenzothiophene	ND	ND			
C1-Dibenzothiophenes	ND	ND			
C2-Dibenzothiophenes	ND	ND			
C3-Dibenzothiophenes	ND	ND			
Fluoranthene	0.0015 J	0.97	1000	88	
Pyrene	0.0013 J	0.93	1000	85	
C1-Fluoranthenes/pyrenes	ND	ND			
C2-Fluoranthenes/pyrenes	ND	ND			
C3-Fluoranthenes/pyrenes	ND	ND			
Benzo[a]anthracene	ND	0.95	1000	86	
Chrysene	ND	0.9	1000	82	
C1-Chrysenes	ND	ND			
C2-Chrysenes	ND	ND			
C3-Chrysenes	ND	ND			
C4-Chrysenes	ND	ND			
Benzo[b]fluoranthene	ND	0.95	1000	86	
Benzo[k]fluoranthene	ND	0.89	1000	81	
Benzo[e]pyrene	ND	ND			
Benzo[a]pyrene	ND	0.9	1000	79	
Perylene	ND	ND			
Indeno[1,2,3,-c,d]pyrene	NA	NA			
Dibenzo[a,h]anthracene	NA	NA			
Benzo[g,h,i]perylene	NA	NA			
Total PAH	0.046	12			
d8-Naphthalene	78	76			
d10-Acenaphthene	78	86			
d10-Phenanthrene	87	91			
d12-Benzo[a]pyrene	89	88			