

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

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

1997 Final Data (Surrogate Corrected) - CIC - PAH

Field ID	Cook Inlet Crude				Cook Inlet Crude			
Lab ID	BM94				BM94			
SDG	SDGS002				SDGS001			
File	DY0551.D				DZ6150.D			
Sample Type	CIC				CIC			
Matrix	OIL				OIL			
Sample Size	5.08 mg				5.08 mg			
Weight Basis	OIL				OIL			
Associated Blank	NA				NA			
Field Date	NA				NA			
Extract Date	NA				NA			
Analysis Date	9/23/1998				9/19/1998			
Min Reporting Limit	4.9				4.9			
Units	mg/Kg	T	%D	Q	mg/Kg	T	%D	Q
<b>PAH</b>								
Naphthalene	570	607	-6.1		620	607	2.1	
C1-Naphthalenes	1400	1500	-6.7		1500	1500	0	
C2-Naphthalenes	2100	2270	-7.5		2200	2270	-3.1	
C3-Naphthalenes	1700	1930	-12		1800	1930	-6.7	
C4-Naphthalenes	880	987	-11		940	987	-4.8	
Acenaphthylene	1.9 J	1.8	5.6		2.6 J	1.8	44	&
Acenaphthene	54	52	3.8		58	52	12	
Biphenyl	95	98	-3.1		100	98	2	
Fluorene	140	133	5.3		140	133	5.3	
C1-Fluorenes	320	280	14		310	280	11	
C2-Fluorenes	370	363	1.9		360	363	-0.8	
C3-Fluorenes	330	370	-11		360	370	-2.7	
Anthracene	14	11	27		13	11	18	
Phenanthrene	340	303	12		340	303	12	
C1-Phenanthrenes/anthracenes	770	690	12		770	690	12	
C2-Phenanthrenes/anthracenes	780	743	5		820	743	10	
C3-Phenanthrenes/anthracenes	490	483	1.4		520	483	7.7	
C4-Phenanthrenes/anthracenes	260	263	-1.1		300	263	14	
Dibenzothiophene	21	19	10		22	19	16	
C1-Dibenzothiophenes	60	61	-1.6		64	6161	-99	
C2-Dibenzothiophenes	96	89	7.9		100	89	12	
C3-Dibenzothiophenes	71	70	1.4		79	70	13	
Fluoranthene	7.2	7.3	-1.4		8	7.3	9.6	
Pyrene	21	19	10		21	19	10	
C1-Fluoranthenes/pyrenes	130	120	8.3		140	120	17	
C2-Fluoranthenes/pyrenes	170	173	-1.7		180	173	4	
C3-Fluoranthenes/pyrenes	170	190	-10		200	190	5.3	
Benzo[a]anthracene	22	20	10		24	20	20	
Chrysene	47	43	9.3		48	43	12	
C1-Chrysenes	110	107	2.8		120	107	12	
C2-Chrysenes	140	137	2.2		160	137	17	
C3-Chrysenes	100	100	0		120	100	20	
C4-Chrysenes	72	86	-16		100	86	16	
Benzo[b]fluoranthene	7.4	7.3	1.4		7	7.3	-4.1	
Benzo[k]fluoranthene	ND				ND			
Benzo[e]pyrene	13	12	8.3		13	12	8.3	
Benzo[a]pyrene	3.6 J	3	20		2.5 J	3	-17	
Perylene	4.4 J	5.3	-17		4.3 J	5.3	-19	
Indeno[1,2,3,-c,d]pyrene	ND				ND			
Dibenzo[a,h]anthracene	3.2 J	3.2	0		3.3 J	3.2	3.1	
Benzo[g,h,i]perylene	3.7 J	4.4	-16		4.5 J	4.4	2.3	
Total PAH	12000				13000			
d8-Naphthalene	101				108			
d10-Acenaphthene	104				106			
d10-Phenanthrene	92				96			
d12-Benzo[a]pyrene	98				108			

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

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

1997 Final Data (Surrogate Corrected) - CIC - PAH

Field ID	Cook Inlet Crude				Cook Inlet Crude			
Lab ID	BM94				BM94			
SDG	SDGS001				SDGS003			
File	DY0576.D				DZ6359.D			
Sample Type	CIC				CIC			
Matrix	OIL				OIL			
Sample Size	5 mg				5.08 mg			
Weight Basis	OIL				OIL			
Associated Blank	NA				NA			
Field Date	NA				NA			
Extract Date	NA				NA			
Analysis Date	9/30/1998				10/3/1998			
Min Reporting Limit	5				4.9			
Units	mg/Kg	T	%D	Q	mg/Kg	T	%D	Q
<b>PAH</b>								
Naphthalene	640	607	5.4		530	607	-13	
C1-Naphthalenes	1600	1500	6.7		1400	1500	-6.7	
C2-Naphthalenes	2400	2270	5.7		2000	2270	-12	
C3-Naphthalenes	2000	1930	3.6		1500	1930	-22	
C4-Naphthalenes	1100	987	11		880	987	-11	
Acenaphthylene	ND	1.8	-100		4.2 J	1.8	130	&
Acenaphthene	60	52	15		58	52	12	
Biphenyl	97	98	-1		96	98	-2	
Fluorene	150	133	13		150	133	13	
C1-Fluorenes	340	280	21		340	280	21	
C2-Fluorenes	400	363	10		410	363	13	
C3-Fluorenes	370	370	0		410	370	11	
Anthracene	34	11	210		24	11	120	
Phenanthrene	340	303	12		360	303	19	
C1-Phenanthrenes/anthracenes	800	690	16		800	690	16	
C2-Phenanthrenes/anthracenes	820	743	10		910	743	22	
C3-Phenanthrenes/anthracenes	560	483	16		580	483	20	
C4-Phenanthrenes/anthracenes	260	263	-1.1		410	263	56	
Dibenzothiophene	25	19	32		23	19	21	
C1-Dibenzothiophenes	62	6161	-99		64	6161	-99	
C2-Dibenzothiophenes	110	89	24		100	89	12	
C3-Dibenzothiophenes	83	70	18		76	70	8.6	
Fluoranthene	9.3	7.3	27		10	7.3	37	&
Pyrene	20	19	5.3		22	19	16	
C1-Fluoranthenes/pyrenes	150	120	25		150	120	25	
C2-Fluoranthenes/pyrenes	200	173	16		210	173	21	
C3-Fluoranthenes/pyrenes	200	190	5.3		260	190	37	
Benzo[a]anthracene	25	20	25		26	20	30	
Chrysene	46	43	7		46	43	7	
C1-Chrysenes	120	107	12		120	107	12	
C2-Chrysenes	140	137	2.2		170	137	24	
C3-Chrysenes	120	100	20		110	100	10	
C4-Chrysenes	64	86	-26		100	86	16	
Benzo[b]fluoranthene	8.9	7.3	22		7.5	7.3	2.7	
Benzo[k]fluoranthene	2.2 J				3.4 J			
Benzo[e]pyrene	14	12	17		14	12	17	
Benzo[a]pyrene	4.2 J	3	40		4.3 J	3	43	
Perylene	5.8	5.3	9.4		4.9	5.3	-7.5	
Indeno[1,2,3,-c,d]pyrene	ND				ND			
Dibenzo[a,h]anthracene	3.5 J	3.2	9.4		3.2 J	3.2	0	
Benzo[g,h,i]perylene	4.8 J	4.4	9.1		5.1	4.4	16	
Total PAH	13000				12000			
d8-Naphthalene	102				97			
d10-Acenaphthene	103				93			
d10-Phenanthrene	98				90			
d12-Benzo[a]pyrene	101				100			

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

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

1997 Final Data (Surrogate Corrected) - CIC - PAH

Field ID	Cook Inlet Crude
Lab ID	BM94
SDG	SDGS004
File	DY0626.D
Sample Type	CIC
Matrix	OIL
Sample Size	5.08 mg
Weight Basis	OIL
Associated Blank	NA
Field Date	NA
Extract Date	NA
Analysis Date	10/5/1998
Min Reporting Limit	4.9
Units	mg/Kg
	T %D Q

PAH			
Naphthalene	590	607	-2.8
C1-Naphthalenes	1600	1500	6.7
C2-Naphthalenes	2500	2270	10
C3-Naphthalenes	2100	1930	8.8
C4-Naphthalenes	1100	987	11
Acenaphthylene	ND	1.8	
Acenaphthene	59	52	
Biphenyl	98	98	0
Fluorene	150	133	13
C1-Fluorenes	340	280	21
C2-Fluorenes	420	363	16
C3-Fluorenes	400	370	8.1
Anthracene	21	11	
Phenanthrene	340	303	12
C1-Phenanthrenes/anthracenes	810	690	17
C2-Phenanthrenes/anthracenes	850	743	14
C3-Phenanthrenes/anthracenes	570	483	18
C4-Phenanthrenes/anthracenes	300	263	14
Dibenzothiophene	22	19	16
C1-Dibenzothiophenes	59	61	-3.3
C2-Dibenzothiophenes	100	89	12
C3-Dibenzothiophenes	74	70	5.7
Fluoranthene	7.4	7.3	
Pyrene	21	19	10
C1-Fluoranthenes/pyrenes	160	120	33
C2-Fluoranthenes/pyrenes	200	173	16
C3-Fluoranthenes/pyrenes	200	190	5.3
Benzo[a]anthracene	24	20	
Chrysene	45	43	4.6
C1-Chrysenes	100	107	-6.5
C2-Chrysenes	130	137	-5.1
C3-Chrysenes	100	100	0
C4-Chrysenes	60	86	-30
Benzo[b]fluoranthene	7.1	7.3	-2.7
Benzo[k]fluoranthene	3.2 J		
Benzo[e]pyrene	14	12	17
Benzo[a]pyrene	4.1 J	3	
Perylene	5.5	5.3	
Indeno[1,2,3,-c,d]pyrene	ND		
Dibenzo[a,h]anthracene	3.6 J	3.2	
Benzo[g,h,i]perylene	5.4	4.4	

Total PAH 14000

d8-Naphthalene	101
d10-Acenaphthene	95
d10-Phenanthrene	89
d12-Benzo[a]pyrene	102

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

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

1997 Final Data (Surrogate Corrected) - CIC - PAH

Field ID	Cook Inlet Crude				Cook Inlet Crude			
Lab ID	BM94				BM94			
SDG	SDGS005				SDGS006			
File	DY6097.D				DY0698.D			
Sample Type	CIC				CIC			
Matrix	OIL				OIL			
Sample Size	5.08 mg				5.08 mg			
Weight Basis	OIL				OIL			
Associated Blank	NA				NA			
Field Date	NA				NA			
Extract Date	NA				NA			
Analysis Date	10/10/1998				10/18/1998			
Min Reporting Limit	4.9				4.9			
Units	mg/Kg	T	%D	Q	mg/Kg	T	%D	Q
<b>PAH</b>								
Naphthalene	550	607	-9.4		610	607	0.49	
C1-Naphthalenes	1500	1500	0		1700	1500	13	
C2-Naphthalenes	2300	2270	1.3		2600	2270	14	
C3-Naphthalenes	1900	1930	-1.6		1900	1930	-1.6	
C4-Naphthalenes	970	987	-1.7		1100	987	11	
Acenaphthylene	ND	1.8			6.7	1.8		
Acenaphthene	59	52			60	52		
Biphenyl	96	98	-2		100	98	2	
Fluorene	160	133	20		150	133	13	
C1-Fluorenes	340	280	21		360	280	28	
C2-Fluorenes	410	363	13		360	363	-0.8	
C3-Fluorenes	390	370	5.4		340	370	-8.1	
Anthracene	23	11			22	11		
Phenanthrene	360	303	19		350	303	16	
C1-Phenanthrenes/anthracenes	840	690	22		710	690	2.9	
C2-Phenanthrenes/anthracenes	770	743	3.6		820	743	10	
C3-Phenanthrenes/anthracenes	500	483	3.5		560	483	16	
C4-Phenanthrenes/anthracenes	350	263	33		220	263	-16	
Dibenzothiophene	25	19	32		22	19	16	
C1-Dibenzothiophenes	53	61	-13		65	61	6.6	
C2-Dibenzothiophenes	96	89	7.9		98	89	10	
C3-Dibenzothiophenes	65	70	-7.1		82	70	17	
Fluoranthene	9.3	7.3			8.6	7.3		
Pyrene	20	19	5.3		22	19	16	
C1-Fluoranthenes/pyrenes	150	120	25		160	120	33	
C2-Fluoranthenes/pyrenes	200	173	16		200	173	16	
C3-Fluoranthenes/pyrenes	170	190	-10		210	190	10	
Benzo[a]anthracene	25	20			24	20	20	
Chrysene	49	43	14		56	43	30	
C1-Chrysenes	100	107	-6.5		120	107	12	
C2-Chrysenes	130	137	-5.1		110	137	-20	
C3-Chrysenes	100	100	0		98	100	-2	
C4-Chrysenes	72	86	-16		84	86	-2.3	
Benzo[b]fluoranthene	7.9	7.3	8.2		7	7.3	-4.1	
Benzo[k]fluoranthene	ND				ND			
Benzo[e]pyrene	14	12	17		13	12	8.3	
Benzo[a]pyrene	4.4 J	3	47		3.2 J	3	6.7	
Perylene	4.8 J	5.3	-9.4		4.3 J	5.3	-19	
Indeno[1,2,3,-c,d]pyrene	1.1 J				0.76 J			
Dibenzo[a,h]anthracene	3.4 J	3.2	6.2		3.6 J	3.2		
Benzo[g,h,i]perylene	4.8 J	4.4	9.1		5.2	4.4		
Total PAH	13000				13000			
d8-Naphthalene	97				104			
d10-Acenaphthene	93				95			
d10-Phenanthrene	85				90			
d12-Benzo[a]pyrene	95				108			

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

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

1997 Final Data (Surrogate Corrected) - CIC - PAH

Field ID	Cook Inlet Crude				Cook Inlet Crude			
Lab ID	BM94				BM94			
SDG	SDGS006				SDGW001			
File	DY0853.D				DY0853.D			
Sample Type	CIC				CIC			
Matrix	OIL				OIL			
Sample Size	5.08 mg				5.08 mg			
Weight Basis	OIL				OIL			
Associated Blank	NA				NA			
Field Date	NA				NA			
Extract Date	NA				NA			
Analysis Date	10/26/1998				10/26/1998			
Min Reporting Limit	4.9				4.9			
Units	mg/Kg	T	%D	Q	mg/Kg	T	%D	Q
<b>PAH</b>								
Naphthalene	600	607	-1.2		600	607	-1.2	
C1-Naphthalenes	1600	1500	6.7		1600	1500	6.7	
C2-Naphthalenes	2500	2270	10		2500	2270	10	
C3-Naphthalenes	1800	1930	-6.7		1800	1930	-6.7	
C4-Naphthalenes	1100	987	11		1100	987	11	
Acenaphthylene	ND	1.8			ND	1.8		
Acenaphthene	60	52			60	52		
Biphenyl	100	98	2		100	98	2	
Fluorene	160	133	20		160	133	20	
C1-Fluorenes	360	280	28		360	280	28	
C2-Fluorenes	390	363	7.4		390	363	7.4	
C3-Fluorenes	360	370	-2.7		360	370	-2.7	
Anthracene	21	11			21	11		
Phenanthrene	350	303	16		350	303	16	
C1-Phenanthrenes/anthracenes	730	690	5.8		730	690	5.8	
C2-Phenanthrenes/anthracenes	820	743	10		820	743	10	
C3-Phenanthrenes/anthracenes	520	483	7.7		520	483	7.7	
C4-Phenanthrenes/anthracenes	260	263	-1.1		260	263	-1.1	
Dibenzothiophene	21	19	10		21	19	10	
C1-Dibenzothiophenes	58	61	-4.9		58	61	-4.9	
C2-Dibenzothiophenes	90	89	1.1		90	89	1.1	
C3-Dibenzothiophenes	72	70	2.8		72	70	2.8	
Fluoranthene	8.7	7.3			8.7	7.3		
Pyrene	21	19	10		21	19	10	
C1-Fluoranthenes/pyrenes	160	120	33		160	120	33	
C2-Fluoranthenes/pyrenes	180	170	5.9		180	173	4	
C3-Fluoranthenes/pyrenes	210	190	10		210	190	10	
Benzo[a]anthracene	25	20			25	20	25	
Chrysene	48	43	12		48	43	12	
C1-Chrysenes	120	107	12		120	107	12	
C2-Chrysenes	110	137	-20		110	137	-20	
C3-Chrysenes	90	100	-10		90	100	-10	
C4-Chrysenes	70	86	-19		70	86	-19	
Benzo[b]fluoranthene	7.5	7.3	2.7		7.5	7.3	2.7	
Benzo[k]fluoranthene	ND				ND			
Benzo[e]pyrene	13	12	8.3		13	12	8.3	
Benzo[a]pyrene	4.6 J	3	53		4.6 J	3	53	
Perylene	5.7	5.3	7.5		5.7	5.3	7.5	
Indeno[1,2,3,-c,d]pyrene	1.6 J				1.6 J			
Dibenzo[a,h]anthracene	3.2 J	3.2	0		3.2 J	3.2	0	
Benzo[g,h,i]perylene	4.5 J	4.4	2.3		4.5 J	4.4	2.3	
Total PAH	13000				13000			
d8-Naphthalene	96				96			
d10-Acenaphthene	91				91			
d10-Phenanthrene	91				91			
d12-Benzo[a]pyrene	99				99			

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

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

1997 Final Data (Surrogate Corrected) - CIC - PAH

Field ID	Cook Inlet Crude				Cook Inlet Crude			
Lab ID	BM94				BM94			
SDG	SDGO001				SDGT001			
File	DX1410.D				DZ7059.D			
Sample Type	CIC				CIC			
Matrix	OIL				OIL			
Sample Size	5.08 mg				5.08 mg			
Weight Basis	OIL				DRY			
Associated Blank	NA				NA			
Field Date	NA				NA			
Extract Date	NA				NA			
Analysis Date	4/23/1999				11/18/1998			
Min Reporting Limit	4.9				4.9			
Units	mg/Kg	T	%D	Q	mg/Kg	T	%D	Q
<b>PAH</b>								
Naphthalene	590	607	-2.8		590	607	-2.8	
C1-Naphthalenes	1600	1500	6.7		1400	1500	-6.7	
C2-Naphthalenes	2500	2270	10		2000	2270	-12	
C3-Naphthalenes	2000	1930	3.6		1500	1930	-22	
C4-Naphthalenes	1000	987	1.3		790	987	-20	
Acenaphthylene	1.3 J	1.8	-28		4.4 J	1.8	140	
Acenaphthene	55	52	5.8		56	52	7.7	
Biphenyl	100	98	2		93	98	-5.1	
Fluorene	140	133	5.3		140	133	5.3	
C1-Fluorenes	300	280	7.1		310	280	11	
C2-Fluorenes	400	363	10		390	363	7.4	
C3-Fluorenes	390	370	5.4		360	370	-2.7	
Anthracene	12	11	9.1		22	11	100	
Phenanthrene	350	303	16		340	303	12	
C1-Phenanthrenes/anthracenes	810	690	17		740	690	7.2	
C2-Phenanthrenes/anthracenes	910	743	22		780	743	5	
C3-Phenanthrenes/anthracenes	550	483	14		500	483	3.5	
C4-Phenanthrenes/anthracenes	260	263	-1.1		380	263	44	&
Dibenzothiophene	24	19	26		24	19	26	
C1-Dibenzothiophenes	62	61	1.6		75	61	23	
C2-Dibenzothiophenes	100	89	12		93	89	4.5	
C3-Dibenzothiophenes	80	70	14		73	70	4.3	
Fluoranthene	6.5	7.3	-11		8.3	7.3		
Pyrene	16	19	-16		20	19	5.3	
C1-Fluoranthenes/pyrenes	130	120	8.3		140	120	17	
C2-Fluoranthenes/pyrenes	190	173	9.8		200	173	16	
C3-Fluoranthenes/pyrenes	180	190	-5.3		200	190	5.3	
Benzo[a]anthracene	21	20	5		22	20	10	
Chrysene	47	43	9.3		45	43	4.6	
C1-Chrysenes	110	107	2.8		110	107	2.8	
C2-Chrysenes	120	137	-12		150	137	9.5	
C3-Chrysenes	91	100	-9		100	100	0	
C4-Chrysenes	75	86	-13		94	86	9.3	
Benzo[b]fluoranthene	8.2	7.3	12		7.4	7.3	1.4	
Benzo[k]fluoranthene	ND				ND			
Benzo[e]pyrene	15	12	25		14	12	17	
Benzo[a]pyrene	3.6 J	3	20		4.7 J	3	57	
Perylene	4.5 J	5.3	-15		6.3	5.3	19	
Indeno[1,2,3,-c,d]pyrene	ND				0.98 J			
Dibenzo[a,h]anthracene	3.5 J	3.2	9.4		3.6 J	3.2	12	
Benzo[g,h,i]perylene	5.3	4.4	20		5.2	4.4	18	
Total PAH	13000				12000			
d8-Naphthalene	110				93			
d10-Acenaphthene	106				94			
d10-Phenanthrene	99				92			
d12-Benzo[a]pyrene	95				103			

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

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

1997 Final Data (Surrogate Corrected) - CIC - PAH

Field ID	Cook Inlet Crude				Cook Inlet Crude			
Lab ID	BM94				BM94			
SDG	NA				NA			
File	DX2138.D				DX1780.D			
Sample Type	CIC				CIC			
Matrix	OIL				OIL			
Sample Size	5.08 mg				5.08 mg			
Weight Basis	OIL				OIL			
Associated Blank	NA				NA			
Field Date	NA				NA			
Extract Date	NA				NA			
Analysis Date	6/4/1999				5/13/1999			
Min Reporting Limit	4.9				4.9			
Units	mg/Kg	T	%D	Q	mg/Kg	T	%D	Q
<b>PAH</b>								
Naphthalene	620	607	2.1		590	607	-2.8	
C1-Naphthalenes	1600	1500	6.7		1600	1500	6.7	
C2-Naphthalenes	2600	2270	14		2700	2270	19	
C3-Naphthalenes	2000	1930	3.6		1800	1930	-6.7	
C4-Naphthalenes	1100	987	11		990	987	0.3	
Acenaphthylene	1.6 J	1.8	-11		1.8 J	1.8	0	
Acenaphthene	59	52	13		60	52	15	
Biphenyl	110	98	12		100	98	2	
Fluorene	140	133	5.3		140	133	5.3	
C1-Fluorenes	270	280	-3.6		280	280	0	
C2-Fluorenes	410	363	13		400	363	10	
C3-Fluorenes	380	370	2.7		380	370	2.7	
Anthracene	12	11	9.1		11	11	0	
Phenanthrene	350	303	16		360	303	19	
C1-Phenanthrenes/anthracenes	770	690	12		750	690	8.7	
C2-Phenanthrenes/anthracenes	950	743	28		920	743	24	
C3-Phenanthrenes/anthracenes	560	483	16		560	483	16	
C4-Phenanthrenes/anthracenes	270	263	2.7		340	263	29	
Dibenzothiophene	21	19	10		20	19	5.3	
C1-Dibenzothiophenes	73	61	20		72	61	18	
C2-Dibenzothiophenes	100	89	12		94	89	5.6	
C3-Dibenzothiophenes	79	70	13		75	70	7.1	
Fluoranthene	6.1	7.3			6.6	7.3		
Pyrene	17	19	-10		17	19	-10	
C1-Fluoranthenes/pyrenes	130	120	8.3		130	120	8.3	
C2-Fluoranthenes/pyrenes	200	173	16		210	173	21	
C3-Fluoranthenes/pyrenes	190	190	0		200	190	5.3	
Benzo[a]anthracene	23	20	15		22	20	10	
Chrysene	42	43	-2.3		47	43	9.3	
C1-Chrysenes	94	107	-12		92	107	-14	
C2-Chrysenes	120	137	-12		130	137	-5.1	
C3-Chrysenes	95	100	-5		80	100	-20	
C4-Chrysenes	58	86	-32		62	86	-28	
Benzo[b]fluoranthene	8	7.3	9.6		9	7.3	23	
Benzo[k]fluoranthene	0.58 J				ND			
Benzo[e]pyrene	14	12	17		14	12	17	
Benzo[a]pyrene	3.8 J	3	27		2.7 J	3	-10	
Perylene	4.1 J	5.3	-23		3.8 J	5.3	-28	
Indeno[1,2,3,-c,d]pyrene	1 J				ND			
Dibenzo[a,h]anthracene	3.5 J	3.2	9.4		3.1 J	3.2	-3.1	
Benzo[g,h,i]perylene	4.7 J	4.4	6.8		3.9 J	4.4	-11	
Total PAH	13000				13000			
d8-Naphthalene	106				116			
d10-Acenaphthene	109				111			
d10-Phenanthrene	101				103			
d12-Benzo[a]pyrene	104				105			

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

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

1997 Final Data (Surrogate Corrected) - CIC - PAH

Field ID	Cook Inlet Crude
Lab ID	BM94
SDG	NA
File	DX1826.D
Sample Type	CIC
Matrix	OIL
Sample Size	5.08 mg
Weight Basis	OIL
Associated Blank	NA
Field Date	NA
Extract Date	NA
Analysis Date	5/15/1999
Min Reporting Limit	4.9
Units	mg/Kg
	T %D Q

PAH			
Naphthalene	630	607	3.8
C1-Naphthalenes	1700	1500	13
C2-Naphthalenes	2900	2270	28
C3-Naphthalenes	2100	1930	8.8
C4-Naphthalenes	1100	987	11
Acenaphthylene	2.1 J	1.8	17
Acenaphthene	60	52	15
Biphenyl	100	98	2
Fluorene	150	133	13
C1-Fluorenes	280	280	0
C2-Fluorenes	410	363	13
C3-Fluorenes	390	370	5.4
Anthracene	9.3	11	-15
Phenanthrene	360	303	19
C1-Phenanthrenes/anthracenes	760	690	10
C2-Phenanthrenes/anthracenes	890	743	20
C3-Phenanthrenes/anthracenes	560	483	16
C4-Phenanthrenes/anthracenes	340	263	29
Dibenzothiophene	21	19	10
C1-Dibenzothiophenes	74	61	21
C2-Dibenzothiophenes	81	89	-9
C3-Dibenzothiophenes	85	70	21
Fluoranthene	5.8	7.3	
Pyrene	14	19	-26
C1-Fluoranthenes/pyrenes	130	120	8.3
C2-Fluoranthenes/pyrenes	210	173	21
C3-Fluoranthenes/pyrenes	180	190	-5.3
Benzo[a]anthracene	21	20	5
Chrysene	46	43	7
C1-Chrysenes	98	107	-8.4
C2-Chrysenes	140	137	2.2
C3-Chrysenes	90	100	-10
C4-Chrysenes	78	86	-9.3
Benzo[b]fluoranthene	9.1	7.3	25
Benzo[k]fluoranthene	ND		
Benzo[e]pyrene	13	12	8.3
Benzo[a]pyrene	3.6 J	3	20
Perylene	4.8 J	5.3	-9.4
Indeno[1,2,3,-c,d]pyrene	ND		
Dibenzo[a,h]anthracene	3.3 J	3.2	3.1
Benzo[g,h,i]perylene	4.4 J	4.4	0

Total PAH 14000

d8-Naphthalene	113
d10-Acenaphthene	107
d10-Phenanthrene	103
d12-Benzo[a]pyrene	83