

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

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

1997 Final Data (Surrogate Corrected) - CIC - SHC

Field ID	Cook Inlet Crude				Cook Inlet Crude			
Lab ID	BI85				BI85			
SDG	SDGEB001				SDGS006			
File	08259717.D				12299715.D			
Sample Type	CIC				CIC			
Matrix	Oil				Oil			
Sample Size	5.06 mg				5.06 mg			
Weight Basis	OIL				DRY			
Associated Blank	NA				OIL			
Field Date	NA				NA			
Extract Date	NA				NA			
Analysis Date	8/26/1997				12/30/1997			
Min Reporting Limit	200				200			
Units	ug/g	T	%D	Q	ug/g	T	%D	Q
<b>SHC</b>								
nC9	6600	6.5	1.5		6500	6.5	1.5	
nC10	6300	6.4	-1.6		6100	6.4	-3.1	
nC11	6500	7.4	-12		7000	7.4	-2.7	
nC12	6900	6.9	0		7000	6.9	2.9	
nC13	6700	7.5	-11		7000	7.5	-4	
1380	1600	1.8	-11		1800	1.8	0	
nC14	6500	8.1	-20		7800	8.1	-1.2	
1470	2900	2.9	0		2900	2.9	3.4	
nC15	6700	7.3	-8.2		7000	7.3	-1.4	
nC16	6300	6.2	1.6		6100	6.2	0	
1650	2800	3	-6.7		2900	3	0	
nC17	5700	5.8	-1.7		5900	5.8	3.4	
pristane	4600	5	-8		4800	5	-2	
nC18	4900	5.2	-5.8		4900	5.2	-3.8	
phytane	1900	1.8	5.6		1800	1.8	0	
nC19	4400	4.9	-10		4200	4.9	-12	
nC20	4000	4.6	-13		4400	4.6	-2.2	
nC21	3400	3.8	-11		3500	3.8	-5.3	
nC22	3300	3.4	-3		3300	3.4	0	
nC23	3000	3.2	-6.3		3100	3.2	0	
nC24	2800	2.8	0		2700	2.8	0	
nC25	2600	2.7	-3.7		2500	2.7	-3.7	
nC26	2200	2.2	0		2100	2.2	0	
nC27	1800	1.9	-5.3		1800	1.9	-5.3	
nC28	1500	1.6	-6.3		1600	1.6	0	
nC29	1500	1.4	7.1		1400	1.4	0	
nC30	1200	1.2	0		1100	1.2	-8.3	
nC31	1100	1.1	0		980	1.1	-9.1	
nC32	820	0.88	-6.8		830	0.88	-3.4	
nC33	560	0.57	-1.8		560	0.57	0	
nC34	530	0.5	6		510	0.5	4	
nC35	460	0.49	-6.1		470	0.49	-2	
nC36	240	0.28	-14		280	0.28	3.6	
nC37	200	0.21	-4.8		210	0.21	4.8	
nC38	180 J	0.19	-5.3		190 J	0.19	0	
nC39	120 J	0.13	-7.7		120 J	0.13	-7.7	
nC40	120 J	0.13	-7.7		120 J	0.13	-7.7	
Total Resolved	310000	320	-3.1		290000	320	-6.2	
TPHC	740000	790	-6.3		750000	790	-3.8	
OTP	98				104			
5AA	101				104			
D50T	100				102			

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

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

1997 Final Data (Surrogate Corrected) - CIC - SHC

Field ID	Cook Inlet Crude				Cook Inlet Crude			
Lab ID	BI85				BI85			
SDG	SDGS007				SDGS008			
File	09039704.D				08309706.D			
Sample Type	CIC				CIC			
Matrix	Oil				Oil			
Sample Size	5.06 mg				5.06 mg			
Weight Basis	OIL				OIL			
Associated Blank	NA				NA			
Field Date	NA				NA			
Extract Date	8/4/1997				NA			
Analysis Date	8/31/1997				8/30/1997			
Min Reporting Limit	200				200			
Units	ug/g	T	%D	Q	ug/g	T	%D	Q
<b>SHC</b>								
nC9	6700	6.5	6.2		6000	6.5	0	
nC10	6100	6.4	-1.6		5900	6.4	0	
nC11	6200	7.4	-14		6800	7.4	-1.4	
nC12	6800	6.9	1.4		6300	6.9	-1.4	
nC13	6600	7.5	-9.3		6800	7.5	-1.3	
1380	1900	1.8	11		1700	1.8	0	
nC14	6500	8.1	-17		7300	8.1	-2.5	
1470	3000	2.9	6.9		2600	2.9	-3.4	
nC15	6500	7.3	-8.2		6700	7.3	-1.4	
nC16	6200	6.2	3.2		5600	6.2	-1.6	
1650	2700	3	-6.7		2700	3	-3.3	
nC17	5500	5.8	-1.7		5400	5.8	0	
pristane	4600	5	-6		4600	5	0	
nC18	4800	5.2	-3.8		4800	5.2	0	
phytane	1900	1.8	11		1700	1.8	0	
nC19	4600	4.9	-4.1		4500	4.9	0	
nC20	4000	4.6	-11		4300	4.6	2.2	
nC21	3500	3.8	-5.3		3500	3.8	0	
nC22	3200	3.4	-3		3100	3.4	0	
nC23	3000	3.2	-3.1		3000	3.2	0	
nC24	2600	2.8	-3.6		2600	2.8	0	
nC25	2500	2.7	-3.7		2500	2.7	0	
nC26	2100	2.2	0		2000	2.2	0	
nC27	1700	1.9	-5.3		1700	1.9	-5.3	
nC28	1400	1.6	-6.3		1500	1.6	0	
nC29	1400	1.4	7.1		1300	1.4	0	
nC30	1200	1.2	0		1100	1.2	0	
nC31	1100	1.1	0		1000	1.1	0	
nC32	820	0.88	-3.4		820	0.88	1.1	
nC33	650	0.57	18		540	0.57	1.8	
nC34	550	0.5	14		480	0.5	4	
nC35	490	0.49	4.1		440	0.49	-2	
nC36	290	0.28	7.1		280	0.28	7.1	
nC37	190	0.21	-4.8		190	0.21	0	
nC38	180 J	0.19	0		170 J	0.19	0	
nC39	130 J	0.13	0		130 J	0.13	7.7	
nC40	140 J	0.13	7.7		130 J	0.13	7.7	
Total Resolved	290000	320	-6.2		290000	320	-3.1	
TPHC	710000	790	-7.6		750000	790	2.5	
OTP	105				119			
5AA	106				114			
D50T	103				108			

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

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

1997 Final Data (Surrogate Corrected) - CIC - SHC

Field ID		Cook Inlet Crude		
Lab ID		BI85		
SDG		SDGS009		
File		09109734.D		
Sample Type		CIC		
Matrix		Oil		
Sample Size		5.06 mg		
Weight Basis		OIL		
Associated Blank		NA		
Field Date		NA		
Extract Date		NA		
Analysis Date		9/12/1997		
Min Reporting Limit		200		
Units		ug/g	T %D Q	
SHC				
nC9	6800	6.5	15	
nC10	6300	6.4	9.4	
nC11	6700	7.4	0	
nC12	6300	6.9	1.4	
nC13	6800	7.5	1.3	
1380	1800	1.8	11	
nC14	8000	8.1	9.9	
1470	2600	2.9	0	
nC15	6700	7.3	1.4	
nC16	5700	6.2	1.6	
1650	3100	3	13	
nC17	5600	5.8	6.9	
pristane	4900	5	8	
nC18	5000	5.2	7.7	
phytane	1900	1.8	17	
nC19	5000	4.9	12	
nC20	4300	4.6	4.3	
nC21	3500	3.8	2.6	
nC22	3100	3.4	2.9	
nC23	3000	3.2	3.1	
nC24	2500	2.8	0	
nC25	2400	2.7	0	
nC26	2100	2.2	4.5	
nC27	1800	1.9	5.3	
nC28	1400	1.6	0	
nC29	1300	1.4	0	
nC30	1200	1.2	8.3	
nC31	1100	1.1	9.1	
nC32	770	0.88	-2.3	
nC33	500	0.57	-1.8	
nC34	490	0.5	10	
nC35	410	0.49	-6.1	
nC36	240	0.28	-3.6	
nC37	210	0.21	9.5	
nC38	220	0.19	26	
nC39	140 J	0.13	15	
nC40	130 J	0.13	7.7	
Total Resolved	280000	320	-3.1	
TPHC	720000	790	1.3	
OTP	122			
5AA	116			
D50T	111			

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

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

1997 Final Data (Surrogate Corrected) - CIC - SHC

Field ID	Cook Inlet Crude				Cook Inlet Crude			
Lab ID	BI85				BI85			
SDG	SDGS010				SDGW001			
File	09169704.D				09249716.D			
Sample Type	CIC				CIC			
Matrix	Oil				Oil			
Sample Size	5.06 mg				5.06 mg			
Weight Basis	OIL				OIL			
Associated Blank	NA				NA			
Field Date	NA				NA			
Extract Date	8/11/1997				NA			
Analysis Date	9/16/1997				9/25/1997			
Min Reporting Limit	200				200			
Units	ug/g	T	%D	Q	ug/g	T	%D	Q
<b>SHC</b>								
nC9	6600	6.5	11		7000	6.5	14	
nC10	6300	6.4	7.8		6300	6.4	3.1	
nC11	6600	7.4	-2.7		6500	7.4	-8.1	
nC12	6200	6.9	-1.4		6700	6.9	1.4	
nC13	6900	7.5	0		6800	7.5	-5.3	
1380	1800	1.8	11		1800	1.8	5.6	
nC14	8000	8.1	7.4		6800	8.1	-12	
1470	2700	2.9	0		2900	2.9	3.4	
nC15	6800	7.3	1.4		6800	7.3	-2.7	
nC16	5900	6.2	3.2		5900	6.2	0	
1650	3200	3	17		2600	3	-10	
nC17	5500	5.8	3.4		5400	5.8	-1.7	
pristane	4800	5	4		4400	5	-8	
nC18	5000	5.2	5.8		4800	5.2	-1.9	
phytane	1800	1.8	11		1800	1.8	5.6	
nC19	5000	4.9	10		4300	4.9	-8.2	
nC20	4300	4.6	2.2		4000	4.6	-8.7	
nC21	3700	3.8	5.3		3300	3.8	-7.9	
nC22	3100	3.4	0		3000	3.4	-5.9	
nC23	2900	3.2	0		2900	3.2	-6.3	
nC24	2600	2.8	0		2700	2.8	0	
nC25	2500	2.7	0		2500	2.7	-3.7	
nC26	2200	2.2	9.1		2100	2.2	0	
nC27	1800	1.9	5.3		1700	1.9	-5.3	
nC28	1500	1.6	0		1500	1.6	0	
nC29	1400	1.4	7.1		1400	1.4	7.1	
nC30	1100	1.2	0		1100	1.2	0	
nC31	1000	1.1	0		1000	1.1	0	
nC32	840	0.88	4.5		840	0.88	0	
nC33	520	0.57	0		700	0.57	30	
nC34	520	0.5	14		660	0.5	38	&
nC35	470	0.49	4.1		600	0.49	28	
nC36	250	0.28	-3.6		270	0.28	0	
nC37	230	0.21	19		220	0.21	9.5	
nC38	190	0.19	10		210	0.19	16	
nC39	140 J	0.13	15		130 J	0.13	7.7	
nC40	130 J	0.13	7.7		130 J	0.13	7.7	
Total Resolved	300000	320	3.1		300000	320	0	
TPHC	720000	790	0		780000	790	3.8	
OTP	120				102			
5AA	114				111			
D50T	109				105			

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

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

1997 Final Data (Surrogate Corrected) - CIC - SHC

Field ID		Cook Inlet Crude			
Lab ID		BI84			
SDG		SDGS001			
File		07299706.D			
Sample Type		CIC			
Matrix		Oil			
Sample Size		5.04 mg			
Weight Basis		OIL			
Associated Blank		NA			
Field Date		NA			
Extract Date		NA			
Analysis Date		7/29/1997			
Min Reporting Limit		200			
Units		ug/g	T	%D	Q
SHC					
nC9		6200	6.5	38	&
nC10		5700	6.4	30	
nC11		6600	7.4	30	
nC12		6200	6.9	32	
nC13		6800	7.5	32	
1380		1700	1.8	39	&
nC14		7500	8.1	36	&
1470		2600	2.9	31	
nC15		6600	7.3	32	
nC16		5500	6.2	31	
1650		2700	3	33	
nC17		5200	5.8	31	
pristane		4500	5	30	
nC18		4700	5.2	31	
phytane		1700	1.8	39	&
nC19		4300	4.9	28	
nC20		4100	4.6	30	
nC21		3400	3.8	29	
nC22		2900	3.4	26	
nC23		2800	3.2	28	
nC24		2400	2.8	25	
nC25		2200	2.7	18	
nC26		1900	2.2	27	
nC27		1600	1.9	26	
nC28		1400	1.6	25	
nC29		1300	1.4	36	&
nC30		1100	1.2	33	
nC31		960	1.1	27	
nC32		750	0.88	25	
nC33		520	0.57	33	
nC34		400	0.5	16	
nC35		420	0.49	24	
nC36		240	0.28	25	
nC37		200	0.21	38	&
nC38		180	0.19	42	&
nC39		140	0.13	54	&
nC40		140	0.13	54	&
Total Resolved		310000	320	41	&
TPHC		680000	790	26	
OTP		154	&		
5AA		144	&		
D50T		146	&		

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

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

1997 Final Data (Surrogate Corrected) - CIC - SHC

Field ID	Cook Inlet Crude				Cook Inlet Crude			
Lab ID	BI85				BI85			
SDG	SDGS003				SDGS004			
File	08049730.D				08169706.D			
Sample Type	CIC				CIC			
Matrix	Oil				Oil			
Sample Size	5.06 mg				5.06 mg			
Weight Basis	OIL				OIL			
Associated Blank	NA				NA			
Field Date	NA				NA			
Extract Date	NA				NA			
Analysis Date	8/7/1997				8/16/1997			
Min Reporting Limit	200				200			
Units	ug/g	T	%D	Q	ug/g	T	%D	Q
<b>SHC</b>								
nC9	6200	6.5	1.5		6000	6.5	1.5	
nC10	5800	6.4	-3.1		6000	6.4	1.6	
nC11	6700	7.4	-2.7		6900	7.4	1.4	
nC12	6400	6.9	0		6400	6.9	1.4	
nC13	7100	7.5	1.3		7100	7.5	2.7	
1380	1800	1.8	5.6		1600	1.8	0	
nC14	7500	8.1	-1.2		7400	8.1	0	
1470	2600	2.9	-3.4		2700	2.9	0	
nC15	6700	7.3	-1.4		6800	7.3	1.4	
nC16	5800	6.2	0		5700	6.2	0	
1650	2800	3	0		2800	3	3.3	
nC17	5400	5.8	0		5300	5.8	0	
pristane	4700	5	0		4600	5	0	
nC18	4800	5.2	0		4800	5.2	0	
phytane	1700	1.8	0		1600	1.8	0	
nC19	4600	4.9	0		4500	4.9	0	
nC20	4300	4.6	0		4100	4.6	-2.2	
nC21	3500	3.8	-2.6		3500	3.8	0	
nC22	3100	3.4	-3		3100	3.4	0	
nC23	3000	3.2	0		2900	3.2	0	
nC24	2600	2.8	0		2700	2.8	3.6	
nC25	2400	2.7	-3.7		2500	2.7	0	
nC26	2000	2.2	0		2000	2.2	0	
nC27	1700	1.9	-5.3		1700	1.9	0	
nC28	1500	1.6	0		1500	1.6	0	
nC29	1400	1.4	7.1		1300	1.4	0	
nC30	1000	1.2	-8.3		1100	1.2	0	
nC31	1000	1.1	0		1000	1.1	0	
nC32	810	0.88	-1.1		780	0.88	-3.4	
nC33	530	0.57	0		500	0.57	-3.5	
nC34	480	0.5	2		450	0.5	-2	
nC35	470	0.49	2		470	0.49	4.1	
nC36	260	0.28	0		250	0.28	-3.6	
nC37	200	0.21	4.8		190	0.21	0	
nC38	180 J	0.19	0		170 J	0.19	0	
nC39	130 J	0.13	7.7		120 J	0.13	0	
nC40	130 J	0.13	7.7		120 J	0.13	0	
Total Resolved	300000	320	0		310000	320		
TPHC	740000	790	0		720000	790		
OTP	116				121			
5AA	109				115			
D50T	107				109			

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

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

1997 Final Data (Surrogate Corrected) - CIC - SHC

Field ID		Cook Inlet Crude			
Lab ID		BI85			
SDG		SDGS005			
File		08199735.D			
Sample Type		CIC			
Matrix		Oil			
Sample Size		5.06 mg			
Weight Basis		OIL			
Associated Blank		NA			
Field Date		NA			
Extract Date		NA			
Analysis Date		8/22/1997			
Min Reporting Limit		200			
Units		ug/g	T	%D	Q
SHC					
nC9		6000	6.5	0	
nC10		5900	6.4	0	
nC11		6800	7.4	-1.4	
nC12		6400	6.9	0	
nC13		6900	7.5	0	
1380		1700	1.8	0	
nC14		7600	8.1	1.2	
1470		2700	2.9	0	
nC15		6800	7.3	0	
nC16		5800	6.2	1.6	
1650		2900	3	3.3	
nC17		5400	5.8	0	
pristane		4500	5	-2	
nC18		4900	5.2	1.9	
phytane		1700	1.8	0	
nC19		4400	4.9	-2	
nC20		4300	4.6	2.2	
nC21		3500	3.8	0	
nC22		3100	3.4	0	
nC23		3000	3.2	0	
nC24		2600	2.8	0	
nC25		2400	2.7	-3.7	
nC26		2100	2.2	4.5	
nC27		1800	1.9	0	
nC28		1400	1.6	-6.3	
nC29		1400	1.4	7.1	
nC30		1000	1.2	-8.3	
nC31		1000	1.1	0	
nC32		820	0.88	1.1	
nC33		540	0.57	1.8	
nC34		460	0.5	0	
nC35		440	0.49	-2	
nC36		260	0.28	0	
nC37		190	0.21	0	
nC38		170 J	0.19	0	
nC39		120 J	0.13	0	
nC40		120 J	0.13	0	
Total Resolved		300000	320	0	
TPHC		720000	790	-1.3	
OTP		119			
5AA		113			
D50T		108			