

Arthur D. Little, Inc.

Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - CIC - BIOMARKER

Field ID	Cook Inlet Crude				Cook Inlet Crude			
Lab ID	BM97				BM97			
SDG	SDGS002				SDGS001			
File	DZ6322.D				DZ6184.D			
Sample Type	CIC				CIC			
Matrix	Oil				Oil			
Sample Size	5.04 mg				5.04 mg			
Weight Basis	OIL				OIL			
Associated Blank	NA				NA			
Field Date	NA				NA			
Extract Date	NA				NA			
Analysis Date	10/1/1998				9/21/1998			
Min Reporting Limit	5				5			
Units	mg/Kg	T	%D	Q	mg/Kg	T	%D	Q
BIOMARKER								
T4-C23Diterpane	7.2	6	20		6.8	6	13	
S4-Diacholestane	57	50	14		53	50	6	
S5-Diacholestane	36	36	0		35	36	-2.8	
T9-C29Tricyclitriterpane	ND				ND			
T10-C29Tricyclitriterpane	ND				ND			
T11-Trisnorhopane(TS)	25	19	32		21	19	10	
T12-Trisnorhopane(TM)	19	16	19		18	16	12	
S24-Methylcholestane	29	26	12		26	26	0	
S25-Ethylcholestane	59	46	28		48	46	4.3	
S28-Ethylcholestane	50	47	6.4		47	47	0	
T15-Norhopane	67	63	6.3		62	63	-1.6	
T18-Oleanane	ND				ND			
T19-Hopane	130	120	8.3		120	120	0	
T21-Homohopane	53	48	10		46	48	-4.2	
T22-Homohopane	38	34	12		34	34	0	
Total S/T	570				520			
5B(H)-Cholane	111				0	NA		
D66-Dotriacontane	NA				NA			

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Field ID	Cook Inlet Crude				Cook Inlet Crude			
Lab ID	BM97				BM97			
SDG	SDGS001				SDGS003			
File	DZ6405.D				DZ7129.D			
Sample Type	CIC				CIC			
Matrix	Oil				Oil			
Sample Size	5.04 mg				5.04 mg			
Weight Basis	OIL				OIL			
Associated Blank	NA				NA			
Field Date	NA				NA			
Extract Date	NA				NA			
Analysis Date	10/5/1998				11/22/1998			
Min Reporting Limit	5				5			
Units	mg/Kg	T	%D	Q	mg/Kg	T	%D	Q
BIOMARKER								
T4-C23Diterpane	7	6	17		7.1	6	18	
S4-Diacholestane	59	50	18		54	50	8	
S5-Diacholestane	38	36	5.6		39	36	8.3	
T9-C29Tricyclitriterpane	ND				ND			
T10-C29Tricyclitriterpane	ND				ND			
T11-Trisnorhopane(TS)	19	19	0		20	19	5.3	
T12-Trisnorhopane(TM)	19	16	19		17	16	6.2	
S24-Methylcholestane	30	26	15		30	26	15	
S25-Ethylcholestane	52	46	13		55	46	20	
S28-Ethylcholestane	51	47	8.5		56	47	19	
T15-Norhopane	64	63	1.6		56	63	-11	
T18-Oleanane	ND				ND			
T19-Hopane	130	120	8.3		130	120	8.3	
T21-Homohopane	51	48	6.2		53	48	10	
T22-Homohopane	36	34	5.9		34	34	0	
Total S/T	560				550			
5B(H)-Cholane	111				100			
D66-Dotriacontane	NA				NA			

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Field ID	Cook Inlet Crude			
Lab ID	BM97			
SDG	SDGS003			
File	DZ6528.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	10/14/1998			
Min Reporting Limit	5			
Units	mg/Kg	T	%D	Q
BIOMARKER				
T4-C23Diterpane	7.8	6	30	
S4-Diacholestane	61	50	22	
S5-Diacholestane	42	36	17	
T9-C29Tricyclitriterpane	ND			
T10-C29Tricyclitriterpane	ND			
T11-Trisnorhopane(TS)	22	19	16	
T12-Trisnorhopane(TM)	18	16	12	
S24-Methylcholestane	33	26	27	
S25-Ethylcholestane	52	46	13	
S28-Ethylcholestane	58	47	23	
T15-Norhopane	71	63	13	
T18-Oleanane	ND			
T19-Hopane	140	120	17	
T21-Homohopane	55	48	14	
T22-Homohopane	38	34	12	
Total S/T	600			
5B(H)-Cholane	100			
D66-Dotriacontane	NA			

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Field ID	Cook Inlet Crude				Cook Inlet Crude			
Lab ID	BM97				BM97			
SDG	SDGS004				SDGS005			
File	DY6130.D				DZ6565.D			
Sample Type	CIC				CIC			
Matrix	Oil				Oil			
Sample Size	5.04 mg				5.04 mg			
Weight Basis	OIL				OIL			
Associated Blank	NA				NA			
Field Date	NA				NA			
Extract Date	NA				NA			
Analysis Date	10/13/1998				10/17/1998			
Min Reporting Limit	5				5			
Units	mg/Kg	T	%D	Q	mg/Kg	T	%D	Q
BIOMARKER								
T4-C23Diterpane	6.8	6	13		6.6	6	10	
S4-Diacholestane	54	50	8		59	50	18	
S5-Diacholestane	32	36	-11		42	36	17	
T9-C29Tricyclitriterpane	ND				ND			
T10-C29Tricyclitriterpane	ND				ND			
T11-Trisnorhopane(TS)	18	19	-5.3		20	19	5.3	
T12-Trisnorhopane(TM)	18	16	12		18	16	12	
S24-Methylcholestane	29	26	12		25	26	-3.8	
S25-Ethylcholestane	34	46	-26		54	46	17	
S28-Ethylcholestane	50	47	6.4		52	47	11	
T15-Norhopane	64	63	1.6		71	63	13	
T18-Oleanane	ND				ND			
T19-Hopane	130	120	8.3		140	120	17	
T21-Homohopane	49	48	2.1		40	48	-17	
T22-Homohopane	36	34	5.9		37	34	8.8	
Total S/T	520				560			
5B(H)-Cholane	109				107			
D66-Dotriacontane	NA				NA			

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Field ID	Cook Inlet Crude				Cook Inlet Crude			
Lab ID	BM97				BM97			
SDG	SDGS006				SDGW001			
File	DZ6598.D				DZ6737.D			
Sample Type	CIC				CIC			
Matrix	Oil				Oil			
Sample Size	5.04 mg				5.04 mg			
Weight Basis	OIL				OIL			
Associated Blank	NA				NA			
Field Date	NA				NA			
Extract Date	NA				NA			
Analysis Date	10/20/1998				10/27/1998			
Min Reporting Limit	5				5			
Units	mg/Kg	T	%D	Q	mg/Kg	T	%D	Q
BIOMARKER								
T4-C23Diterpane	6.5	6	8.3		6.2	6	3.3	
S4-Diacholestane	57	50	14		61	50	22	
S5-Diacholestane	42	36	17		44	36	22	
T9-C29Tricyclitriterpane	ND				ND			
T10-C29Tricyclitriterpane	ND				ND			
T11-Trisnorhopane(TS)	21	19	10		18	19	-5.3	
T12-Trisnorhopane(TM)	18	16	12		16	16	0	
S24-Methylcholestane	29	26	12		29	26	12	
S25-Ethylcholestane	46	46	0		53	46	15	
S28-Ethylcholestane	52	47	11		56	47	19	
T15-Norhopane	58	63	-7.9		73	63	16	
T18-Oleanane	ND				ND			
T19-Hopane	130	120	8.3		130	120	8.3	
T21-Homohopane	52	48	8.3		55	48	14	
T22-Homohopane	36	34	5.9		38	34	12	
Total S/T	550				580			
5B(H)-Cholane	112				113			
D66-Dotriacontane	NA				NA			

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Field ID		Cook Inlet Crude			
Lab ID	BM97				
SDG	SDGO001				
File	DZ7129.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	11/22/1998				
Min Reporting Limit	5				
Units	mg/Kg	T	%D	Q	
BIOMARKER					
T4-C23Diterpane	7.1	6	18		
S4-Diacholestane	54	50	8		
S5-Diacholestane	39	36	8.3		
T9-C29Tricyclitriterpane	ND				
T10-C29Tricyclitriterpane	ND				
T11-Trisnorhopane(TS)	20	19	5.3		
T12-Trisnorhopane(TM)	17	16	6.2		
S24-Methylcholestane	30	26	15		
S25-Ethylcholestane	55	46	20		
S28-Ethylcholestane	56	47	19		
T15-Norhopane	56	63	-11		
T18-Oleanane	ND				
T19-Hopane	130	120	8.3		
T21-Homohopane	53	48	10		
T22-Homohopane	34	34	0		
Total S/T	550				
5B(H)-Cholane	100				
D66-Dotriacontane	NA				