

Arthur D. Little, Inc.

Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

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

Field ID	98-0-F1-04-00-PHC-SC	98-0-F1-04-05-PHC-SC	98-0-F1-04-10-PHC-SC	98-0-F1-04-15-PHC-SC
Lab ID	98D2155	98D2156	98D2157	98D2158
SDG	SDGS004	SDGS004	SDGS004	SDGS004
File	DY6140.D	DY6142.D	DY6143.D	DY6144.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	25.8 g	28.8 g	28.4 g	29.2 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BV-S-97PB	BV-S-97PB	BV-S-97PB	BV-S-97PB
Field Date	7/3/1998	7/3/1998	7/3/1998	7/3/1998
Extract Date	9/25/1998	9/25/1998	9/25/1998	9/25/1998
Analysis Date	10/13/1998	10/13/1998	10/13/1998	10/13/1998
Min Reporting Limit	1	1	1	1
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.00057 J	0.00093	0.00092	0.0011
S5-Diacholestane	0.00034 J	0.00051 J	0.00063 J	0.00065 J
T9-C29Tricyclitriterpane	ND	0.0006 J	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.00044 J	0.0005 J	0.0005 J	0.0005 J
T12-Trisnorhopane(TM)	0.0031	0.0033	0.0036	0.0033
S24-Methylcholestane	0.0035	0.0041	0.0039	0.0038
S25-Ethylcholestane	0.00053 J	0.00076 J	0.0011	0.0017
S28-Ethylcholestane	0.0095	0.0097	0.0094	0.0094
T15-Norhopane	0.03	0.034	0.028	0.036
T18-Oleanane	0.00062 J	0.0016	0.0016	0.0018
T19-Hopane	0.0054	0.0061	0.0066	0.0071
T21-Homohopane	0.0027	0.0031	0.003	0.0034
T22-Homohopane	0.029	0.031	0.03	0.031
Total S/T	0.086	0.096	0.089	0.1
5B(H)-Cholane	62	58	60	58
D66-Dotriacontane	NA	NA	NA	NA

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Field ID	98-0-F1-04-20-PHC-SC	98-0-F1-04-50-PHC-SC	98-0-F1-04-80-PHC-SC	98-0-F1-04-105-PHC-SC
Lab ID	98D2159	98D2160	98D2161	98D2162
SDG	SDGS004	SDGS004	SDGS004	SDGS004
File	DY6145.D	DY6146.D	DY6147.D	DY6148.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	28.9 g	30.3 g	30.2 g	31.4 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BV-S-97PB	BV-S-97PB	BV-S-97PB	BV-S-97PB
Field Date	7/3/1998	7/3/1998	7/3/1998	7/3/1998
Extract Date	9/25/1998	9/25/1998	9/25/1998	9/25/1998
Analysis Date	10/13/1998	10/13/1998	10/13/1998	10/14/1998
Min Reporting Limit	1	1	1	1
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.001	0.0011	0.00043 J	0.00044 J
S5-Diacholestane	0.00052 J	0.00064 J	0.00025 J	0.00026 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.00067 J	0.00047 J	0.00027 J	0.00023 J
T12-Trisnorhopane(TM)	0.0036	0.0029	0.0028	0.0024
S24-Methylcholestane	0.0032	0.0047	0.003	0.0029
S25-Ethylcholestane	0.0012	0.0015	0.00055 J	0.0006 J
S28-Ethylcholestane	0.0086	0.0091	0.0073	0.0056
T15-Norhopane	0.03	0.031	0.028	0.024
T18-Oleanane	0.00074 J	0.0021	0.0018	0.0016
T19-Hopane	0.0062	0.0062	0.0041	0.0035
T21-Homohopane	0.003	0.0028	0.002	0.0016
T22-Homohopane	0.025	0.028	0.024	0.02
Total S/T	0.084	0.09	0.074	0.063
5B(H)-Cholane	71	64	64	67
D66-Dotriacontane	NA	NA	NA	NA

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Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

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

Field ID	98-0-F1-04-140-PHC-SC	98-0-F1-04-175-PHC-SC	98-0-F1-04-200-PHC-SC	98-0-F1-04-230-PHC-SC
Lab ID	98D2163	98D2164	98D2165	98D2166
SDG	SDGS004	SDGS004	SDGS004	SDGS004
File	DY6149.D	DY6150.D	DY6151.D	DY6152.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	32.7 g	30.7 g	31 g	31 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BV-S-97PB	BV-S-97PB	BV-S-97PB	BV-S-97PB
Field Date	7/3/1998	7/3/1998	7/3/1998	7/3/1998
Extract Date	9/25/1998	9/25/1998	9/25/1998	9/25/1998
Analysis Date	10/14/1998	10/14/1998	10/14/1998	10/14/1998
Min Reporting Limit	1	1	1	1
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	ND	ND	ND	ND
S5-Diacholestane	ND	ND	ND	ND
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.00012 J	0.0002 J	0.0002 J	0.00023 J
T12-Trisnorhopane(TM)	0.0032	0.0027	0.0027	0.0025
S24-Methylcholestane	0.0031	0.0031	0.0031	0.0029
S25-Ethylcholestane	0.00031 J	0.00017 J	0.00029 J	0.00048 J
S28-Ethylcholestane	0.0062	0.0068	0.0064	0.0062
T15-Norhopane	0.03	0.031	0.028	0.028
T18-Oleanane	0.00081	0.0011	0.0011	0.0014
T19-Hopane	0.0032	0.0032	0.0033	0.0032
T21-Homohopane	0.0016	0.0018	0.0017	0.0018
T22-Homohopane	0.025	0.036	0.024	0.024
Total S/T	0.074	0.086	0.071	0.071
5B(H)-Cholane	61	62	63	57
D66-Dotriacontane	NA	NA	NA	NA

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

Field ID	98-0-F8-02-00-PHC-SC	98-0-F8-02-02-PHC-SC	98-0-F8-02-04-PHC-SC	98-0-F8-02-06-PHC-SC
Lab ID	98D2205	98D2206	98D2207	98D2230
SDG	SDGS005	SDGS005	SDGS005	SDGS005
File	DZ6572.D	DZ6573.D	DZ6574.D	DZ6578.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	38.8 g	38.5 g	38.4 g	39 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BW-S-23PB	BW-S-23PB	BW-S-23PB	BW-S-23PB
Field Date	7/3/1998	7/3/1998	7/3/1998	7/3/1998
Extract Date	9/29/1998	9/29/1998	9/29/1998	9/29/1998
Analysis Date	10/17/1998	10/17/1998	10/17/1998	10/17/1998
Min Reporting Limit	0.6	0.7	0.7	0.6
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.00023 J	0.00031 J	0.00042 J	0.00028 J
S5-Diacholestane	0.00017 J	0.00018 J	0.00031 J	0.00018 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.00014 J	0.0001 J	0.00014 J	0.00019 J
T12-Trisnorhopane(TM)	0.00037 J	0.00058 J	0.00064 J	0.00052 J
S24-Methylcholestane	0.00029 J	0.00041 J	0.00059 J	0.00053 J
S25-Ethylcholestane	0.0003 J	0.00045 J	0.00047 J	0.00043 J
S28-Ethylcholestane	0.0011	0.0016	0.002	0.0019
T15-Norhopane	0.0012	0.0016	0.0021	0.0019
T18-Oleanane	0.00014 J	0.00016 J	0.00032 J	0.00018 J
T19-Hopane	0.0011	0.0015	0.002	0.0016
T21-Homohopane	0.00055 J	0.00085	0.00094	0.00083
T22-Homohopane	0.0032	0.006	0.0066	0.0058
Total S/T	0.0088	0.014	0.016	0.014
5B(H)-Cholane	75	66	65	71
D66-Dotriacontane	NA	NA	NA	NA

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Field ID	98-0-F8-02-08-PHC-SC	98-0-F8-02-10-PHC-SC	98-0-F8-02-12-PHC-SC	98-0-F8-02-14-PHC-SC
Lab ID	98D2229	98D2175	98D2177	98D2208
SDG	SDGS005	SDGS003	SDGS005	SDGS005
File	DZ6577.D	DZ6555.D	DZ6570.D	DZ6576.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	38.7 g	40.7 g	40.3 g	40.2 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BW-S-23PB	BV-S-91PB	BW-S-23PB	BW-S-23PB
Field Date	7/3/1998	7/3/1998	7/3/1998	7/3/1998
Extract Date	9/29/1998	9/24/1998	9/29/1998	9/29/1998
Analysis Date	10/17/1998	10/16/1998	10/17/1998	10/17/1998
Min Reporting Limit	0.6	0.6	0.6	0.62
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.00037 J	0.00031 J	0.00022 J	ND
S5-Diacholestane	0.00027 J	0.00025 J	0.00012 J	ND
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	0.00007 J
T11-Trisnorhopane(TS)	0.00019 J	0.00026 J	0.000068 J	0.0005 J
T12-Trisnorhopane(TM)	0.00061 J	0.00062	0.00065	0.00044 J
S24-Methylcholestane	0.00043 J	0.00052 J	0.00043 J	0.00016 J
S25-Ethylcholestane	0.00032 J	0.00043 J	0.00026 J	0.0016
S28-Ethylcholestane	0.0021	0.0018	0.0024	0.003
T15-Norhopane	0.002	0.0021	0.0018	0.00015 J
T18-Oleanane	0.00024 J	0.00022 J	0.000099 J	0.00095
T19-Hopane	0.0018	0.0016	0.0012	0.00048 J
T21-Homohopane	0.00088	0.00094	0.00068	0.0059
T22-Homohopane	0.006	0.007	0.0069	0.023
Total S/T	0.015	0.016	0.015	0.013
5B(H)-Cholane	74	81	66	72
D66-Dotriacontane	NA	NA	NA	NA

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

Field ID	98-0-F8-02-16-PHC-SC	98-0-F8-02-20-PHC-SC	98-2-16-02-00-PHC-SC	98-2-16-02-01-PHC-SC
Lab ID	98D2176	98D2178	98D2140	98D2141
SDG	SDGS005	SDGS005	SDGS003	SDGS003
File	DZ6569.D	DZ6571.D	DZ6543.D	DZ6544.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	40.5 g	39.9 g	11.3 g	13 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BW-S-23PB	BW-S-23PB	BV-S-91PB	BV-S-91PB
Field Date	7/3/1998	7/3/1998	7/1/1998	7/1/1998
Extract Date	9/29/1998	9/29/1998	9/24/1998	9/24/1998
Analysis Date	10/17/1998	10/17/1998	10/15/1998	10/15/1998
Min Reporting Limit	0.6	0.6	2.2	1.9
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	ND	ND	0.00079 J	0.00073 J
S5-Diacholestane	ND	ND	0.00079 J	0.00063 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.00011 J	0.000061 J	0.0008 J	0.00075 J
T12-Trisnorhopane(TM)	0.00053 J	0.00056 J	0.0017 J	0.0015 J
S24-Methylcholestane	0.00039 J	0.00036 J	0.0021 J	0.002
S25-Ethylcholestane	ND	0.00033 J	0.0012 J	0.0012 J
S28-Ethylcholestane	0.0017	0.0021	0.0042	0.0034
T15-Norhopane	0.0016	0.0015	0.0036	0.0035
T18-Oleanane	ND	0.00009 J	0.0012 J	0.0011 J
T19-Hopane	0.00099	0.00093	0.0051	0.0048
T21-Homohopane	0.00061 J	0.00058 J	0.0032	0.0028
T22-Homohopane	0.0056	0.0054	0.0055	0.0053
Total S/T	0.012	0.012	0.03	0.028
5B(H)-Cholane	65	63	76	79
D66-Dotriacontane	NA	NA	NA	NA

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Field ID	98-2-16-02-02-PHC-SC	98-2-16-02-03-PHC-SC	98-2-16-02-04-PHC-SC	98-2-16-02-05-PHC-SC
Lab ID	98D2142	98D2137	98D2138	98D2139
SDG	SDGS003	SDGS003	SDGS003	SDGS003
File	DZ6545.D	DZ6540.D	DZ6541.D	DZ6542.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	13.4 g	13.3 g	16.5 g	18.2 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BV-S-91PB	BV-S-91PB	BV-S-91PB	BV-S-91PB
Field Date	7/1/1998	7/1/1998	7/1/1998	7/1/1998
Extract Date	9/24/1998	9/24/1998	9/24/1998	9/24/1998
Analysis Date	10/15/1998	10/15/1998	10/15/1998	10/15/1998
Min Reporting Limit	1.9	1.9	1.5	1.5
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.00078 J	0.00091 J	0.00084 J	0.00084 J
S5-Diacholestane	0.00058 J	0.00062 J	0.00061 J	0.00057 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.00068 J	0.0011 J	0.0007 J	0.0011 J
T12-Trisnorhopane(TM)	0.0015 J	0.0018 J	0.0015	0.0012 J
S24-Methylcholestane	0.002	0.0018 J	0.0016	0.0023
S25-Ethylcholestane	0.0012 J	0.0013 J	0.00091 J	0.00099 J
S28-Ethylcholestane	0.0034	0.0033	0.0031	0.0037
T15-Norhopane	0.0038	0.0037	0.0038	0.0037
T18-Oleanane	0.00085 J	0.0011 J	0.00074 J	0.001 J
T19-Hopane	0.005	0.0061	0.0047	0.0053
T21-Homohopane	0.0026	0.003	0.0022	0.0024
T22-Homohopane	0.0049	0.0054	0.0051	0.0048
Total S/T	0.027	0.03	0.026	0.028
5B(H)-Cholane	74	79	79	79
D66-Dotriacontane	NA	NA	NA	NA

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Field ID	98-2-16-02-06-PHC-SC	98-2-16-02-07-PHC-SC	98-2-16-02-08-PHC-SC	98-2-16-02-09-PHC-SC
Lab ID	98D2134	98D2135	98D2136	98D2131
SDG	SDGS003	SDGS003	SDGS003	SDGS003
File	DZ6536.D	DZ6537.D	DZ6538.D	DZ6533.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	17.6 g	17.9 g	15.9 g	14 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BV-S-91PB	BV-S-91PB	BV-S-91PB	BV-S-91PB
Field Date	7/1/1998	7/1/1998	7/1/1998	7/1/1998
Extract Date	9/24/1998	9/24/1998	9/24/1998	9/24/1998
Analysis Date	10/15/1998	10/15/1998	10/15/1998	10/15/1998
Min Reporting Limit	1.4	1.4	1.6	1.8
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.00079 J	0.00084 J	0.00086 J	0.00097 J
S5-Diacholestane	0.00072 J	0.00059 J	0.00049 J	0.00078 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.00092 J	0.00051 J	0.00069 J	0.00072 J
T12-Trisnorhopane(TM)	0.0019	0.0013 J	0.0013 J	0.0015 J
S24-Methylcholestane	0.0017	0.0018	0.0016	0.0032
S25-Ethylcholestane	0.0011 J	0.00099 J	0.001 J	0.00092 J
S28-Ethylcholestane	0.004	0.0032	0.0036	0.0043
T15-Norhopane	0.0039	0.0035	0.0027	0.0036
T18-Oleanane	0.00083 J	0.00076 J	0.00083 J	0.00094 J
T19-Hopane	0.0051	0.0049	0.0046	0.0057
T21-Homohopane	0.0027	0.0029	0.0024	0.003
T22-Homohopane	0.0052	0.0047	0.0047	0.006
Total S/T	0.029	0.026	0.025	0.032
5B(H)-Cholane	75	83	59	72
D66-Dotriacontane	NA	NA	NA	NA

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

Field ID	98-2-16-02-10-PHC-SC	98-2-16-02-11-PHC-SC	98-2-16-02-12-PHC-SC	98-2-16-02-13-PHC-SC
Lab ID	98D2132REF	98D2133	98D2169	98D2168
SDG	SDGS003	SDGS003	SDGS003	SDGS003
File	DZ7143.D	DZ6535.D	DZ6548.D	DZ6547.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	14.3 g	20.3 g	19.9 g	22.2 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BV-S-91PB	BV-S-91PB	BV-S-91PB	BV-S-91PB
Field Date	7/1/1998	7/1/1998	7/1/1998	7/1/1998
Extract Date	9/24/1998	9/24/1998	9/24/1998	9/24/1998
Analysis Date	11/23/1998	10/15/1998	10/16/1998	10/15/1998
Min Reporting Limit	3.5	1.2	1.2	1.1
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.00099 J	0.00093 J	0.00078 J	0.00083 J
S5-Diacholestane	0.00085 J	0.00072 J	0.00074 J	0.00058 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.0011 J	0.00072 J	0.00083 J	0.00083 J
T12-Trisnorhopane(TM)	0.0014 J	0.0014	0.0013	0.0014
S24-Methylcholestane	0.0021 J	0.0024	0.0016	0.0017
S25-Ethylcholestane	0.0012 J	0.001 J	0.0012	0.0011
S28-Ethylcholestane	0.0046	0.0039	0.0035	0.0047
T15-Norhopane	0.0055	0.0041	0.0036	0.0042
T18-Oleanane	0.0015 J	0.001 J	0.00077 J	0.00091 J
T19-Hopane	0.0059	0.0052	0.0044	0.0052
T21-Homohopane	0.0031 J	0.0025	0.0022	0.0028
T22-Homohopane	0.0062	0.0051	0.0046	0.0052
Total S/T	0.034	0.029	0.026	0.029
5B(H)-Cholane	91	71	82	81
D66-Dotriacontane	NA	NA	NA	NA

Arthur D. Little, Inc.

Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

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

Field ID	98-2-16-02-14-PHC-SC	98-2-16-02-15-PHC-SC	98-2-16-02-18-PHC-SC	98-2-16-02-23-PHC-SC
Lab ID	98D2167	98D2172REF	98D2171REF	98D2170
SDG	SDGS003	SDGS003	SDGS003	SDGS003
File	DZ6546.D	DZ7141.D	DZ7142.D	DZ6549.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	24.2 g	25.7 g	26.8 g	25.5 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BV-S-91PB	BV-S-91PB	BV-S-91PB	BV-S-91PB
Field Date	7/1/1998	7/1/1998	7/1/1998	7/1/1998
Extract Date	9/24/1998	9/24/1998	9/24/1998	9/24/1998
Analysis Date	10/15/1998	11/23/1998	11/23/1998	10/16/1998
Min Reporting Limit	1	1.9	1.9	1
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.00083 J	0.0012 J	0.0012 J	0.00072 J
S5-Diacholestane	0.00055 J	0.00094 J	0.00079 J	0.0005 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.00072 J	0.0013 J	0.0016 J	0.00072 J
T12-Trisnorhopane(TM)	0.0012	0.0017 J	0.0017 J	0.0014
S24-Methylcholestane	0.0017	0.0025	0.0026	0.0021
S25-Ethylcholestane	0.0012	0.0013 J	0.0017 J	0.00089 J
S28-Ethylcholestane	0.0033	0.0051	0.0058	0.0039
T15-Norhopane	0.0036	0.0052	0.0059	0.0033
T18-Oleanane	0.0011	0.0011 J	0.0017 J	0.00088 J
T19-Hopane	0.0049	0.0067	0.008	0.0047
T21-Homohopane	0.0023	0.0038	0.0042	0.0024
T22-Homohopane	0.005	0.0066	0.0071	0.0049
Total S/T	0.026	0.037	0.042	0.026
5B(H)-Cholane	78	83	76	72
D66-Dotriacontane	NA	NA	NA	NA

Arthur D. Little, Inc.

Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

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

Field ID	98-2-16-02-27-PHC-SC	98-2-16-02-30-PHC-SC	98-4-F4-03-00-PHC-SC	98-4-F4-03-02-PHC-SC
Lab ID	98D2173	98D2174	98D2238	98D2240
SDG	SDGS003	SDGS003	SDGS005	SDGS005
File	DZ6553.D	DZ6554.D	DZ6581.D	DZ6583.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	26.7 g	27.3 g	18.2 g	20.5 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BV-S-91PB	BV-S-91PB	BW-S-23PB	BW-S-23PB
Field Date	7/1/1998	7/1/1998	6/30/1998	6/30/1998
Extract Date	9/24/1998	9/24/1998	9/29/1998	9/29/1998
Analysis Date	10/16/1998	10/16/1998	10/17/1998	10/18/1998
Min Reporting Limit	0.9	0.9	1.4	1.2
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.00081 J	0.00074 J	0.00072 J	0.00072 J
S5-Diacholestane	0.00056 J	0.00053 J	0.0005 J	0.00048 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.00068 J	0.00047 J	0.00046 J	0.00045 J
T12-Trisnorhopane(TM)	0.0013	0.0013	0.0013 J	0.0014
S24-Methylcholestane	0.0019	0.0018	0.0012 J	0.0015
S25-Ethylcholestane	0.00093 J	0.0012	0.00087 J	0.00094 J
S28-Ethylcholestane	0.004	0.004	0.0037	0.0037
T15-Norhopane	0.0034	0.003	0.0032	0.0039
T18-Oleanane	0.001	0.0009 J	0.00068 J	0.00077 J
T19-Hopane	0.0053	0.0046	0.0044	0.0049
T21-Homohopane	0.0026	0.002	0.0023	0.0027
T22-Homohopane	0.0051	0.0046	0.0052	0.0059
Total S/T	0.028	0.025	0.024	0.027
5B(H)-Cholane	73	70	59	70
D66-Dotriacontane	NA	NA	NA	NA

Arthur D. Little, Inc.

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Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

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

Field ID	98-4-F4-03-04-PHC-SC	98-4-F4-03-06-PHC-SC	98-4-F4-03-08-PHC-SC	98-4-F4-03-12-PHC-SC
Lab ID	98D2236	98D2237	98D2239	98D2241
SDG	SDGS005	SDGS005	SDGS005	SDGS005
File	DZ6579.D	DZ6580.D	DZ6582.D	DZ6584.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	19.9 g	20.7 g	21.7 g	22.5 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BW-S-23PB	BW-S-23PB	BW-S-23PB	BW-S-23PB
Field Date	6/30/1998	6/30/1998	6/30/1998	6/30/1998
Extract Date	9/29/1998	9/29/1998	9/29/1998	9/29/1998
Analysis Date	10/17/1998	10/17/1998	10/18/1998	10/18/1998
Min Reporting Limit	1.2	1.2	1.2	1.1
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.00081 J	0.00091 J	0.00082 J	0.00093 J
S5-Diacholestane	0.00048 J	0.0008 J	0.00051 J	0.0005 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.00056 J	0.00064 J	0.00064 J	0.00054 J
T12-Trisnorhopane(TM)	0.0015	0.0016	0.0016	0.0016
S24-Methylcholestane	0.0017	0.0016	0.0015	0.0017
S25-Ethylcholestane	0.00081 J	0.00085 J	0.001 J	0.00082 J
S28-Ethylcholestane	0.0037	0.0048	0.004	0.0037
T15-Norhopane	0.0041	0.0046	0.0045	0.0042
T18-Oleanane	0.00082 J	0.00094 J	0.001 J	0.00078 J
T19-Hopane	0.0054	0.0058	0.0056	0.0055
T21-Homohopane	0.0029	0.0033	0.0031	0.0029
T22-Homohopane	0.0066	0.0071	0.0067	0.0063
Total S/T	0.029	0.033	0.031	0.029
5B(H)-Cholane	75	66	85	62
D66-Dotriacontane	NA	NA	NA	NA

Arthur D. Little, Inc.

Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

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

Field ID	98-4-F4-03-18-PHC-SC	98-4-F4-03-25-PHC-SC	98-4-F4-03-32-PHC-SC	98-4-F4-03-38-PHC-SC
Lab ID	98D2243	98D2245	98D2244	98D2242
SDG	SDGS005	SDGS005	SDGS005	SDGS005
File	DZ6586.D	DZ6589.D	DZ6587.D	DZ6585.D
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	22.4 g	22.4 g	23.8 g	22.8 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	BW-S-23PB	BW-S-23PB	BW-S-23PB	BW-S-23PB
Field Date	6/30/1998	6/30/1998	6/30/1998	6/30/1998
Extract Date	9/29/1998	9/29/1998	9/29/1998	9/29/1998
Analysis Date	10/18/1998	10/18/1998	10/18/1998	10/18/1998
Min Reporting Limit	1.1	1.1	1	1.1
Units	ug/g	ug/g	ug/g	ug/g
BIOMARKER				
T4-C23Diterpane	ND	ND	ND	ND
S4-Diacholestane	0.00081 J	0.00065 J	0.00067 J	0.00059 J
S5-Diacholestane	0.00054 J	0.00052 J	0.00046 J	0.00044 J
T9-C29Tricyclitriterpane	ND	ND	ND	ND
T10-C29Tricyclitriterpane	ND	ND	ND	ND
T11-Trisnorhopane(TS)	0.00065 J	0.00051 J	0.00052 J	0.00042 J
T12-Trisnorhopane(TM)	0.0016	0.0014	0.0015	0.0014
S24-Methylcholestane	0.0015	0.0013	0.002	0.0015
S25-Ethylcholestane	0.0014	0.0012	0.00079 J	0.00094 J
S28-Ethylcholestane	0.0041	0.0044	0.0042	0.0042
T15-Norhopane	0.0049	0.0041	0.0049	0.0033
T18-Oleanane	0.00084 J	0.00074 J	0.00084 J	0.00086 J
T19-Hopane	0.0057	0.005	0.0054	0.0046
T21-Homohopane	0.0029	0.0024	0.0028	0.0026
T22-Homohopane	0.0067	0.0059	0.0065	0.0062
Total S/T	0.032	0.028	0.03	0.027
5B(H)-Cholane	66	68	69	72
D66-Dotriacontane	NA	NA	NA	NA