

Arthur D. Little, Inc.

Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - Main - BIOMARKER

Field ID	Procedural Blank
Lab ID	BL-S-90PB
SDG	SDGEB001
File	DZ2241.D
Sample Type	PB
Matrix	Water
Sample Size	1 L
Weight Basis	VOLUME
Associated Blank	NA
Field Date	NA
Extract Date	8/19/1997
Analysis Date	9/5/1997
Min Reporting Limit	0.012
Units	ug/L

BIOMARKER	
T4-C23Diterpane	ND
S4-Diacholestane	ND
S5-Diacholestane	ND
T9-C29Tricyclitriterpane	ND
T10-C29Tricyclitriterpane	ND
T11-Trisnorhopane(TS)	ND
T12-Trisnorhopane(TM)	ND
S24-Methylcholestane	ND
S25-Ethylcholestane	ND
S28-Ethylcholestane	ND
T15-Norhopane	ND
T18-Oleanane	ND
T19-Hopane	ND
T21-Homohopane	ND
T22-Homohopane	ND
Total S/T	NA
5B(H)-Cholane	88
D66-Dotriacontane	110

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Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - Main - BIOMARKER

Field ID	Procedural Blank
Lab ID	BL-S-92PB
SDG	SDGEB001
File	DZ2242.D
Sample Type	PB
Matrix	Water
Sample Size	1 L
Weight Basis	VOLUME
Associated Blank	NA
Field Date	NA
Extract Date	8/19/1997
Analysis Date	9/5/1997
Min Reporting Limit	0.012
Units	ug/L

BIOMARKER	
T4-C23Diterpane	ND
S4-Diacholestane	ND
S5-Diacholestane	ND
T9-C29Tricyclitriterpane	ND
T10-C29Tricyclitriterpane	ND
T11-Trisnorhopane(TS)	ND
T12-Trisnorhopane(TM)	ND
S24-Methylcholestane	ND
S25-Ethylcholestane	ND
S28-Ethylcholestane	ND
T15-Norhopane	ND
T18-Oleanane	ND
T19-Hopane	ND
T21-Homohopane	ND
T22-Homohopane	ND
Total S/T	NA
5B(H)-Cholane	90
D66-Dotriacontane	110

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Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - Main - BIOMARKER

Field ID	Procedural Blank
Lab ID	BK-S-86PB
SDG	SDGS001
File	DZ0246.D
Sample Type	PB
Matrix	Sediment
Sample Size	20 g
Weight Basis	DRY
Associated Blank	NA
Field Date	NA
Extract Date	7/23/1997
Analysis Date	8/22/1997
Min Reporting Limit	0.0012
Units	ug/g

BIOMARKER	
T4-C23Diterpane	ND
S4-Diacholestane	ND
S5-Diacholestane	ND
T9-C29Tricyclitriterpane	ND
T10-C29Tricyclitriterpane	ND
T11-Trisnorhopane(TS)	ND
T12-Trisnorhopane(TM)	ND
S24-Methylcholestane	ND
S25-Ethylcholestane	ND
S28-Ethylcholestane	ND
T15-Norhopane	ND
T18-Oleanane	ND
T19-Hopane	ND
T21-Homohopane	ND
T22-Homohopane	ND
Total S/T	NA
5B(H)-Cholane	40 &
D66-Dotriacontane	42 &

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Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - Main - BIOMARKER

Field ID	Procedural Blank
Lab ID	BK-S-86PBREX
SDG	SDGS001
File	DZ0249.D
Sample Type	PB
Matrix	Sediment
Sample Size	20 g
Weight Basis	DRY
Associated Blank	NA
Field Date	NA
Extract Date	7/23/1997
Analysis Date	8/22/1997
Min Reporting Limit	0.0012
Units	ug/g

BIOMARKER		
T4-C23Diterpane		ND
S4-Diacholestane		ND
S5-Diacholestane		ND
T9-C29Tricyclitriterpane		ND
T10-C29Tricyclitriterpane		ND
T11-Trisnorhopane(TS)		ND
T12-Trisnorhopane(TM)		ND
S24-Methylcholestane		ND
S25-Ethylcholestane		ND
S28-Ethylcholestane		ND
T15-Norhopane		ND
T18-Oleanane		ND
T19-Hopane		ND
T21-Homohopane		ND
T22-Homohopane		ND
Total S/T		NA
5B(H)-Cholane		77
D66-Dotriacontane		80

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Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - Main - BIOMARKER

Field ID	Procedural Blank
Lab ID	BL-S-13PB
SDG	SDGS010
File	DZ2447.D
Sample Type	PB
Matrix	Sediment
Sample Size	20 g
Weight Basis	DRY
Associated Blank	NA
Field Date	NA
Extract Date	8/11/1997
Analysis Date	9/19/1997
Min Reporting Limit	0.0012
Units	ug/g

BIOMARKER	
T4-C23Diterpane	ND
S4-Diacholestane	ND
S5-Diacholestane	ND
T9-C29Tricyclitriterpane	ND
T10-C29Tricyclitriterpane	ND
T11-Trisnorhopane(TS)	ND
T12-Trisnorhopane(TM)	ND
S24-Methylcholestane	ND
S25-Ethylcholestane	ND
S28-Ethylcholestane	ND
T15-Norhopane	ND
T18-Oleanane	ND
T19-Hopane	ND
T21-Homohopane	ND
T22-Homohopane	ND
Total S/T	NA
5B(H)-Cholane	77
D66-Dotriacontane	121

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Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - Main - BIOMARKER

Field ID	Procedural Blank
Lab ID	BL-S-75PB
SDG	SDGS010
File	DZ2448.D
Sample Type	PB
Matrix	Sediment
Sample Size	20 g
Weight Basis	DRY
Associated Blank	BL-S-13PB
Field Date	NA
Extract Date	8/11/1997
Analysis Date	9/19/1997
Min Reporting Limit	0.0012
Units	ug/g

BIOMARKER	
T4-C23Diterpane	ND
S4-Diacholestane	ND
S5-Diacholestane	ND
T9-C29Tricyclitriterpane	ND
T10-C29Tricyclitriterpane	ND
T11-Trisnorhopane(TS)	ND
T12-Trisnorhopane(TM)	ND
S24-Methylcholestane	ND
S25-Ethylcholestane	ND
S28-Ethylcholestane	ND
T15-Norhopane	ND
T18-Oleanane	ND
T19-Hopane	ND
T21-Homohopane	ND
T22-Homohopane	ND
Total S/T	NA
5B(H)-Cholane	67
D66-Dotriacontane	82

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Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - Main - BIOMARKER

Field ID	Procedural Blank
Lab ID	BK-S-89PB
SDG	SDGS002
File	DZ2082.D
Sample Type	PB
Matrix	Sediment
Sample Size	20 g
Weight Basis	DRY
Associated Blank	NA
Field Date	NA
Extract Date	7/24/1997
Analysis Date	8/26/1997
Min Reporting Limit	0.0012
Units	ug/g

BIOMARKER		
T4-C23Diterpane		ND
S4-Diacholestane		ND
S5-Diacholestane		ND
T9-C29Tricyclitriterpane		ND
T10-C29Tricyclitriterpane		ND
T11-Trisnorhopane(TS)		ND
T12-Trisnorhopane(TM)		ND
S24-Methylcholestane		ND
S25-Ethylcholestane		ND
S28-Ethylcholestane		ND
T15-Norhopane		ND
T18-Oleanane		ND
T19-Hopane		ND
T21-Homohopane		ND
T22-Homohopane		ND
Total S/T		NA
5B(H)-Cholane	57	
D66-Dotriacontane	89	

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Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - Main - BIOMARKER

Field ID	Procedural Blank
Lab ID	BK-S-91PB
SDG	SDGS003
File	DZ2106.D
Sample Type	PB
Matrix	Sediment
Sample Size	20 g
Weight Basis	DRY
Associated Blank	NA
Field Date	NA
Extract Date	7/24/1997
Analysis Date	8/27/1997
Min Reporting Limit	0.0012
Units	ug/g

BIOMARKER	
T4-C23Diterpane	ND
S4-Diacholestane	ND
S5-Diacholestane	ND
T9-C29Tricyclitriterpane	ND
T10-C29Tricyclitriterpane	ND
T11-Trisnorhopane(TS)	ND
T12-Trisnorhopane(TM)	ND
S24-Methylcholestane	ND
S25-Ethylcholestane	ND
S28-Ethylcholestane	ND
T15-Norhopane	ND
T18-Oleanane	ND
T19-Hopane	ND
T21-Homohopane	ND
T22-Homohopane	ND
Total S/T	NA
5B(H)-Cholane	60
D66-Dotriacontane	61

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Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - Main - BIOMARKER

Field ID	Procedural Blank
Lab ID	BK-S-94PB
SDG	SDGS004
File	DZ2254.D
Sample Type	PB
Matrix	Sediment
Sample Size	20 g
Weight Basis	DRY
Associated Blank	NA
Field Date	NA
Extract Date	7/31/1997
Analysis Date	9/6/1997
Min Reporting Limit	0.0012
Units	ug/g

BIOMARKER		
T4-C23Diterpane		ND
S4-Diacholestane		ND
S5-Diacholestane		ND
T9-C29Tricyclitriterpane		ND
T10-C29Tricyclitriterpane		ND
T11-Trisnorhopane(TS)		ND
T12-Trisnorhopane(TM)		ND
S24-Methylcholestane		ND
S25-Ethylcholestane		ND
S28-Ethylcholestane		ND
T15-Norhopane		ND
T18-Oleanane		ND
T19-Hopane		ND
T21-Homohopane		ND
T22-Homohopane		ND
Total S/T		NA
5B(H)-Cholane	58	
D66-Dotriacontane	56	

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Environmental Monitoring and Analysis

Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - Main - BIOMARKER

Field ID	Procedural Blank
Lab ID	BK-S-97PB
SDG	SDGS005
File	DZ2294.D
Sample Type	PB
Matrix	Sediment
Sample Size	20 g
Weight Basis	DRY
Associated Blank	NA
Field Date	NA
Extract Date	7/31/1997
Analysis Date	9/9/1997
Min Reporting Limit	0.0012
Units	ug/g

BIOMARKER	
T4-C23Diterpane	ND
S4-Diacholestane	ND
S5-Diacholestane	ND
T9-C29Tricyclitriterpane	ND
T10-C29Tricyclitriterpane	ND
T11-Trisnorhopane(TS)	ND
T12-Trisnorhopane(TM)	ND
S24-Methylcholestane	ND
S25-Ethylcholestane	ND
S28-Ethylcholestane	ND
T15-Norhopane	ND
T18-Oleanane	ND
T19-Hopane	ND
T21-Homohopane	ND
T22-Homohopane	ND
Total S/T	NA
5B(H)-Cholane	49
D66-Dotriacontane	52

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Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - Main - BIOMARKER

Field ID	Procedural Blank
Lab ID	BO-S-32PB
SDG	SDGS006
File	DX6519.D
Sample Type	PB
Matrix	Sediment
Sample Size	20 g
Weight Basis	DRY
Associated Blank	NA
Field Date	NA
Extract Date	12/17/1997
Analysis Date	1/9/1998
Min Reporting Limit	0.0012
Units	ug/g

BIOMARKER	
T4-C23Diterpane	ND
S4-Diacholestane	ND
S5-Diacholestane	ND
T9-C29Tricyclitriterpane	ND
T10-C29Tricyclitriterpane	ND
T11-Trisnorhopane(TS)	ND
T12-Trisnorhopane(TM)	ND
S24-Methylcholestane	ND
S25-Ethylcholestane	ND
S28-Ethylcholestane	ND
T15-Norhopane	ND
T18-Oleanane	ND
T19-Hopane	ND
T21-Homohopane	ND
T22-Homohopane	ND
Total S/T	NA
5B(H)-Cholane	79
D66-Dotriacontane	84

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Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - Main - BIOMARKER

Field ID	Procedural Blank
Lab ID	BL-S-04PB
SDG	SDGS007
File	DZ2338.D
Sample Type	PB
Matrix	Sediment
Sample Size	20 g
Weight Basis	DRY
Associated Blank	NA
Field Date	NA
Extract Date	8/5/1997
Analysis Date	9/12/1997
Min Reporting Limit	0.0012
Units	ug/g

BIOMARKER	
T4-C23Diterpane	ND
S4-Diacholestane	ND
S5-Diacholestane	ND
T9-C29Tricyclitriterpane	ND
T10-C29Tricyclitriterpane	ND
T11-Trisnorhopane(TS)	ND
T12-Trisnorhopane(TM)	ND
S24-Methylcholestane	ND
S25-Ethylcholestane	ND
S28-Ethylcholestane	ND
T15-Norhopane	ND
T18-Oleanane	ND
T19-Hopane	ND
T21-Homohopane	ND
T22-Homohopane	ND
Total S/T	NA
5B(H)-Cholane	73
D66-Dotriacontane	105

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Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - Main - BIOMARKER

Field ID	Procedural Blank
Lab ID	BL-S-07PB
SDG	SDGS008
File	DZ2362.D
Sample Type	PB
Matrix	Sediment
Sample Size	15 g
Weight Basis	DRY
Associated Blank	NA
Field Date	NA
Extract Date	8/6/1997
Analysis Date	9/14/1997
Min Reporting Limit	0.0017
Units	ug/g

BIOMARKER	
T4-C23Diterpane	ND
S4-Diacholestane	ND
S5-Diacholestane	ND
T9-C29Tricyclitriterpane	ND
T10-C29Tricyclitriterpane	ND
T11-Trisnorhopane(TS)	ND
T12-Trisnorhopane(TM)	ND
S24-Methylcholestane	ND
S25-Ethylcholestane	ND
S28-Ethylcholestane	ND
T15-Norhopane	ND
T18-Oleanane	ND
T19-Hopane	ND
T21-Homohopane	ND
T22-Homohopane	ND
Total S/T	NA
5B(H)-Cholane	63
D66-Dotriacontane	51

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Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - Main - BIOMARKER

Field ID	Procedural Blank
Lab ID	BL-S-10PB
SDG	SDGS009
File	DZ2396.D
Sample Type	PB
Matrix	Sediment
Sample Size	25 g
Weight Basis	DRY
Associated Blank	NA
Field Date	NA
Extract Date	8/8/1997
Analysis Date	9/16/1997
Min Reporting Limit	0.001
Units	ug/g

BIOMARKER	
T4-C23Diterpane	ND
S4-Diacholestane	ND
S5-Diacholestane	ND
T9-C29Tricyclitriterpane	ND
T10-C29Tricyclitriterpane	ND
T11-Trisnorhopane(TS)	ND
T12-Trisnorhopane(TM)	ND
S24-Methylcholestane	ND
S25-Ethylcholestane	ND
S28-Ethylcholestane	ND
T15-Norhopane	ND
T18-Oleanane	ND
T19-Hopane	ND
T21-Homohopane	ND
T22-Homohopane	ND
Total S/T	NA
5B(H)-Cholane	76
D66-Dotriacontane	106

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Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - Main - BIOMARKER

Field ID	Procedural Blank
Lab ID	BO-S-35PB
SDG	SDGSOD
File	DX6553.D
Sample Type	PB
Matrix	Sediment
Sample Size	20 g
Weight Basis	DRY
Associated Blank	NA
Field Date	NA
Extract Date	12/23/1997
Analysis Date	1/11/1998
Min Reporting Limit	0.0012
Units	ug/g

BIOMARKER	
T4-C23Diterpane	0.00063 J
S4-Diacholestane	0.00024 J
S5-Diacholestane	ND
T9-C29Tricyclitriterpane	ND
T10-C29Tricyclitriterpane	ND
T11-Trisnorhopane(TS)	0.00042 J
T12-Trisnorhopane(TM)	0.00036 J
S24-Methylcholestane	0.00042 J
S25-Ethylcholestane	0.00022 J
S28-Ethylcholestane	0.0052
T15-Norhopane	0.0012 J
T18-Oleanane	0.0002 J
T19-Hopane	0.0015
T21-Homohopane	0.00032 J
T22-Homohopane	0.00022 J
Total S/T	0.011
5B(H)-Cholane	91
D66-Dotriacontane	116

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Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - Main - BIOMARKER

Field ID	Procedural Blank
Lab ID	BP-S-30PB
SDG	SDGSOD
File	DX6552.D
Sample Type	PB
Matrix	Oil
Sample Size	20 mg
Weight Basis	OIL
Associated Blank	NA
Field Date	NA
Extract Date	12/23/1997
Analysis Date	1/11/1998
Min Reporting Limit	1.2
Units	ug/g

BIOMARKER	
T4-C23Diterpane	ND
S4-Diacholestane	ND
S5-Diacholestane	ND
T9-C29Tricyclitriterpane	ND
T10-C29Tricyclitriterpane	ND
T11-Trisnorhopane(TS)	ND
T12-Trisnorhopane(TM)	ND
S24-Methylcholestane	ND
S25-Ethylcholestane	ND
S28-Ethylcholestane	ND
T15-Norhopane	ND
T18-Oleanane	ND
T19-Hopane	ND
T21-Homohopane	ND
T22-Homohopane	ND
Total S/T	NA
5B(H)-Cholane	93
D66-Dotriacontane	125

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Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - Main - BIOMARKER

Field ID	Procedural Blank
Lab ID	BL-S-81PB
SDG	SDGW001
File	DX5189.D
Sample Type	PB
Matrix	Water
Sample Size	1 L
Weight Basis	VOLUME
Associated Blank	NA
Field Date	NA
Extract Date	8/18/1997
Analysis Date	9/24/1997
Min Reporting Limit	0.025
Units	ug/L

BIOMARKER	
T4-C23Diterpane	ND
S4-Diacholestane	ND
S5-Diacholestane	ND
T9-C29Tricyclitriterpane	ND
T10-C29Tricyclitriterpane	ND
T11-Trisnorhopane(TS)	ND
T12-Trisnorhopane(TM)	ND
S24-Methylcholestane	ND
S25-Ethylcholestane	ND
S28-Ethylcholestane	ND
T15-Norhopane	ND
T18-Oleanane	ND
T19-Hopane	ND
T21-Homohopane	ND
T22-Homohopane	ND
Total S/T	NA
5B(H)-Cholane	77
D66-Dotriacontane	121

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Minerals Management Service - Shelikof Strait and Outermost Cook Inlet

1997 Final Data (Surrogate Corrected) - Main - BIOMARKER

Field ID	Procedural Blank
Lab ID	BM-S-29PB
SDG	SDGW002
File	DX5192.D
Sample Type	PB
Matrix	Water
Sample Size	1 L
Weight Basis	VOLUME
Associated Blank	NA
Field Date	NA
Extract Date	9/2/1997
Analysis Date	9/25/1997
Min Reporting Limit	0.025
Units	ug/L

BIOMARKER	
T4-C23Diterpane	ND
S4-Diacholestane	ND
S5-Diacholestane	ND
T9-C29Tricyclitriterpane	ND
T10-C29Tricyclitriterpane	ND
T11-Trisnorhopane(TS)	ND
T12-Trisnorhopane(TM)	ND
S24-Methylcholestane	ND
S25-Ethylcholestane	ND
S28-Ethylcholestane	ND
T15-Norhopane	ND
T18-Oleanane	ND
T19-Hopane	ND
T21-Homohopane	ND
T22-Homohopane	ND
Total S/T	NA
5B(H)-Cholane	81
D66-Dotriacontane	101