

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

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

1997 Final Data (Not Surrogate Corrected) - Sediment Core - METALS

Field ID	97-0-F1-03-00-MET-SC	97-0-F1-03-02-MET-SC	97-0-F1-03-04-MET-SC	97-0-F1-03-04-MET-SC
Lab ID	97-0-F1-03-00-MET-SC	97-0-F1-03-02-MET-SC	97-0-F1-03-04-MET-SC	97-0-F1-03-04-MET-SC
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	SAMP	SAMP	SAMP	QC
Matrix	Sediment	Sediment	Sediment	Sediment
Sample Size	0.458 g	0.4573 g	0.4616 g	NA NA
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/16/1997	7/16/1997	7/16/1997	7/16/1997
Extract Date	1/30/1998	1/30/1998	1/30/1998	NA
Analysis Date	1/30/1998	1/30/1998	1/30/1998	NA
Min Reporting Limit	NA	NA	NA	NA
Units	---	---	---	---

METALS				
Ag - Silver (ug/g)	0.12	0.13	0.13	NA
Al - Aluminum (%)	7.89	8.09	8.3	NA
As - Arsenic (ug/g)	20.4	15.7	13.4	NA
Ba - Barium (ug/g)	816	855	855	NA
Be - Beryllium (ug/g)	1.19	1.26	1.2	NA
Ca - Calcium (%)	2.41	1.26	1.92	NA
Cd - Cadmium (ug/g)	0.09	0.1	0.11	NA
Cr - Chromium (ug/g)	89.2	97	96.1	NA
Cu - Copper (ug/g)	49	54.2	53.7	NA
Fe - Iron (%)	4.76	5.14	4.89	NA
Hg - Mercury (ug/g)	0.111	0.109	0.125	NA
K - potassium (%)	1.53	1.89	1.88	NA
Mg - Magnesium (%)	1.33	1.73	1.86	NA
Mn - Manganese (ug/g)	894	861	836	NA
Ni - Nickel (ug/g)	46.1	48.5	51.3	NA
Pb - Lead (ug/g)	13	13.9	13.6	NA
Sb - Antimony (ug/g)	1.5	1.64	1.65	NA
Se - Selenium (ug/g)	0.27	0.36	0.29	NA
Sn - Tin (ug/g)	1.73	1.8	1.84	NA
Tl - Thallium (ug/g)	0.42	0.39	0.44	NA
V - Vanadium (ug/g)	170	177	175	NA
Zn - Zinc (ug/g)	120	131	126	NA

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

1997 Final Data (Not Surrogate Corrected) - Sediment Core - METALS

Field ID	97-0-F1-03-06-MET-SC	97-0-F1-03-08-MET-SC	97-0-F1-03-12-MET-SC	97-0-F1-03-18-MET-SC
Lab ID	97-0-F1-03-06-MET-SC	97-0-F1-03-08-MET-SC	97-0-F1-03-12-MET-SC	97-0-F1-03-18-MET-SC #1
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment	Sediment	Sediment	Sediment
Sample Size	0.4614 g	0.4604 g	0.4612 g	0.4946 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/16/1997	7/16/1997	7/16/1997	7/16/1997
Extract Date	1/30/1998	1/30/1998	1/30/1998	1/30/1998
Analysis Date	1/30/1998	1/30/1998	1/30/1998	1/30/1998
Min Reporting Limit	NA	NA	NA	NA
Units	---	---	---	---

METALS				
Ag - Silver (ug/g)	0.13	0.13	0.13	0.13
Al - Aluminum (%)	8.39	8.5	8.02	7.9
As - Arsenic (ug/g)	13.1	12.1	12.6	11
Ba - Barium (ug/g)	860	851	828	812
Be - Beryllium (ug/g)	1.22	1.27	1.23	1.19
Ca - Calcium (%)	1.19	1.42	1.45	1.37
Cd - Cadmium (ug/g)	0.09	0.11	0.1	0.11
Cr - Chromium (ug/g)	96.2	94.5	90.5	86.2
Cu - Copper (ug/g)	51.2	51.3	49.9	50.1
Fe - Iron (%)	4.9	4.87	4.69	4.53
Hg - Mercury (ug/g)	0.098	0.11	0.089	0.131
K - potassium (%)	1.66	1.74	1.86	1.87
Mg - Magnesium (%)	1.49	1.69	1.71	1.85
Mn - Manganese (ug/g)	819	821	837	812
Ni - Nickel (ug/g)	49.6	47.3	46.5	46.5
Pb - Lead (ug/g)	13.7	13.4	13.2	13
Sb - Antimony (ug/g)	1.53	1.49	1.5	1.46
Se - Selenium (ug/g)	0.39	0.4	0.29	0.27
Sn - Tin (ug/g)	1.81	1.8	1.73	1.72
Tl - Thallium (ug/g)	0.44	0.44	0.41	0.41
V - Vanadium (ug/g)	169	183	182	164
Zn - Zinc (ug/g)	122	123	119	121

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

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

1997 Final Data (Not Surrogate Corrected) - Sediment Core - METALS

Field ID	97-0-F1-03-18-MET-SC	97-0-F1-03-22-MET-SC	97-0-F1-03-27-MET-SC	97-0-F1-03-33-MET-SC
Lab ID	97-0-F1-03-18-MET-SC #2	97-0-F1-03-22-MET-SC	97-0-F1-03-27-MET-SC	97-0-F1-03-33-MET-SC
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	QC	SAMP	SAMP	SAMP
Matrix	Sediment	Sediment	Sediment	Sediment
Sample Size	0.4946 g	0.4565 g	0.4729 g	0.473 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/16/1997	7/16/1997	7/16/1997	7/16/1997
Extract Date	1/30/1998	1/30/1998	1/30/1998	1/30/1998
Analysis Date	1/30/1998	1/30/1998	1/30/1998	1/30/1998
Min Reporting Limit	NA	NA	NA	NA
Units	---	---	---	---

METALS				
Ag - Silver (ug/g)	NA	0.12	0.14	0.12
Al - Aluminum (%)	NA	8.1	7.82	7.91
As - Arsenic (ug/g)	NA	12.7	12.4	12.8
Ba - Barium (ug/g)	NA	849	826	814
Be - Beryllium (ug/g)	NA	1.2	1.22	1.19
Ca - Calcium (%)	NA	1.37	1.32	1.4
Cd - Cadmium (ug/g)	NA	0.11	0.11	0.1
Cr - Chromium (ug/g)	NA	91.4	93.8	93.8
Cu - Copper (ug/g)	NA	51.7	51.1	48.7
Fe - Iron (%)	NA	4.74	4.82	4.86
Hg - Mercury (ug/g)	0.123	0.113	0.116	0.165
K - potassium (%)	NA	1.8	1.81	1.81
Mg - Magnesium (%)	NA	1.68	1.66	1.75
Mn - Manganese (ug/g)	NA	828	833	816
Ni - Nickel (ug/g)	NA	48.5	46.9	46.2
Pb - Lead (ug/g)	NA	13.7	13.4	12.8
Sb - Antimony (ug/g)	NA	1.52	1.49	1.43
Se - Selenium (ug/g)	NA	0.32	0.4	0.46
Sn - Tin (ug/g)	NA	1.81	1.79	1.73
Tl - Thallium (ug/g)	NA	0.45	0.44	0.43
V - Vanadium (ug/g)	NA	170	171	171
Zn - Zinc (ug/g)	NA	120	123	119

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

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

1997 Final Data (Not Surrogate Corrected) - Sediment Core - METALS

Field ID	97-0-F5-03-00-MET-SC	97-0-F5-03-02-MET-SC	97-0-F5-03-04-MET-SC	97-0-F5-03-06-MET-SC
Lab ID	97-0-F5-03-00-MET-SC	97-0-F5-03-02-MET-SC	97-0-F5-03-04-MET-SC	97-0-F5-03-06-MET-SC
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	0.464 g	0.482 g	0.4631 g	0.4638 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/15/1997	7/15/1997	7/15/1997	7/15/1997
Extract Date	1/18/1998	1/18/1998	1/18/1998	1/18/1998
Analysis Date	1/18/1998	1/18/1998	1/18/1998	1/18/1998
Min Reporting Limit	NA	NA	NA	NA
Units	---	---	---	---

METALS				
Ag - Silver (ug/g)	0.1	0.09	0.1	0.09
Al - Aluminum (%)	7.38	7.31	6.74	7.27
As - Arsenic (ug/g)	9.2	7.7	7.2	6.5
Ba - Barium (ug/g)	877	896	910	874
Be - Beryllium (ug/g)	1.37	1.4	1.32	1.33
Ca - Calcium (%)	2.53	2.22	2.09	2.89
Cd - Cadmium (ug/g)	0.1	0.11	0.12	0.11
Cr - Chromium (ug/g)	53.9	70.9	68.4	68.3
Cu - Copper (ug/g)	31.2	34.8	35	34.9
Fe - Iron (%)	3.85	3.88	3.92	3.85
Hg - Mercury (ug/g)	0.071	0.054	0.065	0.052
K - potassium (%)	1.79	1.66	1.55	1.61
Mg - Magnesium (%)	1.56	1.4	1.34	1.36
Mn - Manganese (ug/g)	781	682	725	695
Ni - Nickel (ug/g)	32.8	34	34.6	33.1
Pb - Lead (ug/g)	11.9	12.5	12.8	12.3
Sb - Antimony (ug/g)	0.93	1.01	1	0.96
Se - Selenium (ug/g)	0.25	0.27	0.37	0.25
Sn - Tin (ug/g)	1.69	1.79	1.78	1.7
Tl - Thallium (ug/g)	0.43	0.45	0.47	0.44
V - Vanadium (ug/g)	125	127	125	125
Zn - Zinc (ug/g)	102	105	102	98.6

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

1997 Final Data (Not Surrogate Corrected) - Sediment Core - METALS

Field ID	97-0-F5-03-08-MET-SC	97-0-F5-03-10-MET-SC	97-0-F5-03-10-MET-SC	97-0-F5-03-12-MET-SC
Lab ID	97-0-F5-03-08-MET-SC	97-0-F5-03-10-MET-SC #1	97-0-F5-03-10-MET-SC #2	97-0-F5-03-12-MET-SC #1
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	SAMP	SAMP	QC	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	0.462 g	0.4972 g	0.4972 g	0.4548 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/15/1997	7/15/1997	7/15/1997	7/15/1997
Extract Date	1/18/1998	1/18/1998	1/18/1998	1/18/1998
Analysis Date	1/18/1998	1/18/1998	1/18/1998	1/18/1998
Min Reporting Limit	NA	NA	NA	NA
Units	---	---	---	---

METALS				
Ag - Silver (ug/g)	0.11	0.09	NA	0.09
Al - Aluminum (%)	6.87	7.5	NA	6.87
As - Arsenic (ug/g)	7.5	7.1	NA	7.3
Ba - Barium (ug/g)	901	939	NA	921
Be - Beryllium (ug/g)	1.37	1.52	NA	1.39
Ca - Calcium (%)	2.06	2.26	NA	2.22
Cd - Cadmium (ug/g)	0.12	0.13	NA	0.12
Cr - Chromium (ug/g)	70.3	70.4	NA	66
Cu - Copper (ug/g)	37.6	39.6	NA	39.4
Fe - Iron (%)	3.99	4.05	NA	3.93
Hg - Mercury (ug/g)	0.049	0.074	0.079	0.043
K - potassium (%)	1.74	1.84	NA	1.76
Mg - Magnesium (%)	1.48	1.57	NA	1.47
Mn - Manganese (ug/g)	697	716	NA	694
Ni - Nickel (ug/g)	35.6	38	NA	36.4
Pb - Lead (ug/g)	12.9	13.5	NA	13.2
Sb - Antimony (ug/g)	1.05	1.14	NA	1.1
Se - Selenium (ug/g)	0.34	0.24	NA	0.32
Sn - Tin (ug/g)	1.8	1.91	NA	1.85
Tl - Thallium (ug/g)	0.47	0.49	NA	0.49
V - Vanadium (ug/g)	132	123	NA	134
Zn - Zinc (ug/g)	106	119	NA	115

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Environmental Monitoring and Analysis

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

1997 Final Data (Not Surrogate Corrected) - Sediment Core - METALS

Field ID	97-0-F5-03-12-MET-SC	97-0-F5-03-14-MET-SC	97-0-F5-03-16-MET-SC	97-0-F5-03-16-MET-SC
Lab ID	97-0-F5-03-12-MET-SC #2	97-0-F5-03-14-MET-SC	97-0-F5-03-16-MET-SC #1	97-0-F5-03-16-MET-SC #2
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	QC	SAMP	SAMP	QC
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	0.4548 g	0.4976 g	0.4557 g	0.4585 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/15/1997	7/15/1997	7/15/1997	7/15/1997
Extract Date	1/18/1998	1/18/1998	1/18/1998	1/18/1998
Analysis Date	1/18/1998	1/18/1998	1/18/1998	1/18/1998
Min Reporting Limit	NA	NA	NA	NA
Units	---	---	---	---

METALS				
Ag - Silver (ug/g)	NA	0.1	0.1	0.1
Al - Aluminum (%)	NA	7.49	7.07	7.14
As - Arsenic (ug/g)	NA	7.5	8	7.2
Ba - Barium (ug/g)	NA	921	911	895
Be - Beryllium (ug/g)	NA	1.39	1.33	1.33
Ca - Calcium (%)	NA	2.15	2.12	2.24
Cd - Cadmium (ug/g)	NA	0.12	0.12	0.12
Cr - Chromium (ug/g)	NA	65.3	64	67.3
Cu - Copper (ug/g)	NA	38.4	38.1	36.6
Fe - Iron (%)	NA	3.99	3.92	3.83
Hg - Mercury (ug/g)	0.044	0.05	0.043	NA
K - potassium (%)	NA	1.84	1.82	1.87
Mg - Magnesium (%)	NA	1.48	1.48	1.53
Mn - Manganese (ug/g)	NA	742	707	673
Ni - Nickel (ug/g)	NA	35.8	34.2	33.4
Pb - Lead (ug/g)	NA	13.2	12.7	12.6
Sb - Antimony (ug/g)	NA	1.12	1.11	1.09
Se - Selenium (ug/g)	NA	0.29	0.34	0.31
Sn - Tin (ug/g)	NA	1.96	1.92	1.82
Tl - Thallium (ug/g)	NA	0.48	0.47	0.44
V - Vanadium (ug/g)	NA	129	127	119
Zn - Zinc (ug/g)	NA	109	108	103

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1997 Final Data (Not Surrogate Corrected) - Sediment Core - METALS

Field ID	97-0-F6-03-00-MET-SC	97-0-F6-03-02-MET-SC	97-0-F6-03-04-MET-SC	97-0-F6-03-06-MET-SC
Lab ID	97-0-F6-03-00-MET-SC	97-0-F6-03-02-MET-SC	97-0-F6-03-04-MET-SC	97-0-F6-03-06-MET-SC
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	0.4877 g	0.4523 g	0.4668 g	0.4537 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/15/1997	7/15/1997	7/15/1997	7/15/1997
Extract Date	1/30/1998	1/30/1998	1/30/1998	1/30/1998
Analysis Date	1/30/1998	1/30/1998	1/30/1998	1/30/1998
Min Reporting Limit	NA	NA	NA	NA
Units	---	---	---	---

METALS				
Ag - Silver (ug/g)	0.05	0.09	0.06	0.06
Al - Aluminum (%)	7.84	7.9	7.74	7.87
As - Arsenic (ug/g)	12.2	9.8	7.4	7.8
Ba - Barium (ug/g)	818	818	883	814
Be - Beryllium (ug/g)	1.16	1.16	1.58	1.19
Ca - Calcium (%)	2.4	2.68	1.68	2.65
Cd - Cadmium (ug/g)	0.09	0.1	0.07	0.13
Cr - Chromium (ug/g)	60.2	63	34.5	64.7
Cu - Copper (ug/g)	33	35.5	23.3	35.4
Fe - Iron (%)	4	4.14	3.1	4.04
Hg - Mercury (ug/g)	0.046	0.051	0.052	0.059
K - potassium (%)	1.76	1.75	1.98	1.89
Mg - Magnesium (%)	1.49	1.65	1.01	1.62
Mn - Manganese (ug/g)	905	818	589	763
Ni - Nickel (ug/g)	29.6	30.2	19.7	30
Pb - Lead (ug/g)	11.5	11.5	12.2	11.9
Sb - Antimony (ug/g)	0.91	0.93	0.66	0.98
Se - Selenium (ug/g)	0.14	0.15	0.16	0.19
Sn - Tin (ug/g)	1.55	1.58	2.1	1.69
Tl - Thallium (ug/g)	0.4	0.41	0.5	0.43
V - Vanadium (ug/g)	134	137	86.1	137
Zn - Zinc (ug/g)	109	106	92.4	98.8

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1997 Final Data (Not Surrogate Corrected) - Sediment Core - METALS

Field ID	97-0-F6-03-08-MET-SC	97-0-F6-03-12-MET-SC	97-0-F6-03-15-MET-SC	97-0-F6-03-18-MET-SC
Lab ID	97-0-F6-03-08-MET-SC	97-0-F6-03-12-MET-SC	97-0-F6-03-15-MET-SC	97-0-F6-03-18-MET-SC
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	0.4534 g	0.4672 g	0.4596 g	0.455 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/15/1997	7/15/1997	7/15/1997	7/15/1997
Extract Date	1/30/1998	1/30/1998	1/30/1998	1/30/1998
Analysis Date	1/30/1998	1/30/1998	1/30/1998	1/30/1998
Min Reporting Limit	NA	NA	NA	NA
Units	---	---	---	---

**METALS**

Ag - Silver (ug/g)	0.06	0.06	0.07	0.07
Al - Aluminum (%)	7.79	7.91	7.5	7.67
As - Arsenic (ug/g)	9.4	8.5	9	8.8
Ba - Barium (ug/g)	831	798	868	864
Be - Beryllium (ug/g)	1.22	1.24	1.29	1.29
Ca - Calcium (%)	2.1	2.86	2.67	2.3
Cd - Cadmium (ug/g)	0.13	0.13	0.13	0.12
Cr - Chromium (ug/g)	64.8	64.7	75.4	74.2
Cu - Copper (ug/g)	40.6	35.7	37.5	37.9
Fe - Iron (%)	4.09	3.8	4.03	4.11
Hg - Mercury (ug/g)	0.06	0.056	0.077	0.1
K - potassium (%)	1.74	1.83	1.86	1.96
Mg - Magnesium (%)	1.54	1.54	1.62	1.63
Mn - Manganese (ug/g)	738	717	746	753
Ni - Nickel (ug/g)	33.4	32.1	35.9	34.4
Pb - Lead (ug/g)	12.3	11.7	12.5	12.5
Sb - Antimony (ug/g)	1.05	0.98	1.11	1.07
Se - Selenium (ug/g)	0.22	0.1	0.08	0.1
Sn - Tin (ug/g)	1.69	1.65	1.75	1.76
Tl - Thallium (ug/g)	0.42	0.41	0.45	0.45
V - Vanadium (ug/g)	137	133	135	130
Zn - Zinc (ug/g)	106	99.5	108	106



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1997 Final Data (Not Surrogate Corrected) - Sediment Core - METALS

Field ID	97-0-F6-03-22-MET-SC	97-0-F6-03-22-MET-SC	97-0-F6-03-25-MET-SC	97-1-F1-03-00-MET-SC
Lab ID	97-0-F6-03-22-MET-SC #1	97-0-F6-03-22-MET-SC #2	97-0-F6-03-25-MET-SC	97-1-F1-03-00-MET-SC
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	SAMP	QC	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	0.4688 g	0.4688 g	0.462 g	0.4749 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/15/1997	7/15/1997	7/15/1997	7/14/1997
Extract Date	1/30/1998	1/30/1998	1/30/1998	1/14/1998
Analysis Date	1/30/1998	1/30/1998	1/30/1998	1/14/1998
Min Reporting Limit	NA	NA	NA	NA
Units	---	---	---	---

METALS				
Ag - Silver (ug/g)	0.06	NA	0.07	0.08
Al - Aluminum (%)	7.78	NA	7.64	7.6
As - Arsenic (ug/g)	8.3	NA	9.1	6.5
Ba - Barium (ug/g)	769	NA	859	778
Be - Beryllium (ug/g)	1.22	NA	1.27	1.11
Ca - Calcium (%)	2.42	NA	2.08	2.12
Cd - Cadmium (ug/g)	0.12	NA	0.12	0.1
Cr - Chromium (ug/g)	61.4	NA	75	63.7
Cu - Copper (ug/g)	39.6	NA	38.6	27.9
Fe - Iron (%)	4.28	NA	4.05	3.78
Hg - Mercury (ug/g)	0.047	0.053	0.057	0.042
K - potassium (%)	1.77	NA	1.78	1.52
Mg - Magnesium (%)	1.69	NA	1.5	1.37
Mn - Manganese (ug/g)	721	NA	742	758
Ni - Nickel (ug/g)	31.4	NA	35.8	28.2
Pb - Lead (ug/g)	11.5	NA	12.5	11.8
Sb - Antimony (ug/g)	0.99	NA	1.11	0.79
Se - Selenium (ug/g)	0.12	NA	0.15	0.34
Sn - Tin (ug/g)	1.62	NA	1.79	1.47
Tl - Thallium (ug/g)	0.43	NA	0.46	0.42
V - Vanadium (ug/g)	141	NA	141	128
Zn - Zinc (ug/g)	107	NA	104	96.2

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

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

1997 Final Data (Not Surrogate Corrected) - Sediment Core - METALS

Field ID	97-1-F1-03-02-MET-SC	97-1-F1-03-04-MET-SC	97-1-F1-03-06-MET-SC	97-1-F1-03-08-MET-SC
Lab ID	97-1-F1-03-02-MET-SC	97-1-F1-03-04-MET-SC	97-1-F1-03-06-MET-SC	97-1-F1-03-08-MET-SC
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	0.4848 g	0.4685 g	0.4941 g	0.4638 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/14/1997	7/14/1997	7/14/1997	7/14/1997
Extract Date	1/14/1998	1/14/1998	1/14/1998	1/14/1998
Analysis Date	1/14/1998	1/14/1998	1/14/1998	1/14/1998
Min Reporting Limit	NA	NA	NA	NA
Units	---	---	---	---

METALS				
Ag - Silver (ug/g)	0.07	0.08	0.08	0.09
Al - Aluminum (%)	7.55	7.71	7.52	7.56
As - Arsenic (ug/g)	5.1	6	5.3	6.3
Ba - Barium (ug/g)	797	770	774	798
Be - Beryllium (ug/g)	1.14	1.11	1.1	1.12
Ca - Calcium (%)	2.24	2.14	2.34	2.32
Cd - Cadmium (ug/g)	0.11	0.14	0.12	0.12
Cr - Chromium (ug/g)	62.4	60.8	59.4	65.2
Cu - Copper (ug/g)	27.3	28.3	26.8	30.6
Fe - Iron (%)	3.81	3.72	3.69	3.99
Hg - Mercury (ug/g)	0.039	0.041	0.04	0.036
K - potassium (%)	1.49	1.54	1.46	1.56
Mg - Magnesium (%)	1.34	1.39	1.31	1.41
Mn - Manganese (ug/g)	708	680	679	705
Ni - Nickel (ug/g)	29.2	27	26.8	29.6
Pb - Lead (ug/g)	11.8	11.6	11.3	11.8
Sb - Antimony (ug/g)	0.79	0.8	0.77	0.82
Se - Selenium (ug/g)	0.4	0.45	0.49	0.42
Sn - Tin (ug/g)	1.5	1.47	1.46	1.58
Tl - Thallium (ug/g)	0.41	0.42	0.41	0.44
V - Vanadium (ug/g)	138	130	135	138
Zn - Zinc (ug/g)	94.2	93.9	89	98.5

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

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

1997 Final Data (Not Surrogate Corrected) - Sediment Core - METALS

Field ID	97-1-F1-03-12-MET-SC	97-1-F1-03-15-MET-SC	97-1-F1-03-19-MET-SC	97-1-F1-03-19-MET-SC
Lab ID	97-1-F1-03-12-MET-SC	97-1-F1-03-15-MET-SC	97-1-F1-03-19-MET-SC #1	97-1-F1-03-19-MET-SC #2
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	SAMP	SAMP	SAMP	QC
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	0.454 g	0.4544 g	0.4927 g	NA NA
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/14/1997	7/14/1997	7/14/1997	7/14/1997
Extract Date	1/14/1998	1/14/1998	1/14/1998	NA
Analysis Date	1/14/1998	1/14/1998	1/14/1998	NA
Min Reporting Limit	NA	NA	NA	NA
Units	---	---	---	---

METALS				
Ag - Silver (ug/g)	0.08	0.09	0.08	NA
Al - Aluminum (%)	7.72	8.06	8.06	NA
As - Arsenic (ug/g)	7.5	7	6.3	NA
Ba - Barium (ug/g)	836	837	855	NA
Be - Beryllium (ug/g)	1.21	1.19	1.22	NA
Ca - Calcium (%)	2.07	2.28	2.14	NA
Cd - Cadmium (ug/g)	0.12	0.12	0.12	NA
Cr - Chromium (ug/g)	66.6	74.1	71.9	NA
Cu - Copper (ug/g)	37.3	36.3	38.1	NA
Fe - Iron (%)	4.24	4.18	4.23	NA
Hg - Mercury (ug/g)	0.049	0.046	0.081	NA
K - potassium (%)	1.46	1.85	1.76	NA
Mg - Magnesium (%)	1.43	1.69	1.68	NA
Mn - Manganese (ug/g)	684	756	714	NA
Ni - Nickel (ug/g)	36.7	34.6	35.4	NA
Pb - Lead (ug/g)	12.8	12.8	13	NA
Sb - Antimony (ug/g)	0.97	0.93	0.98	NA
Se - Selenium (ug/g)	0.49	0.53	0.39	NA
Sn - Tin (ug/g)	1.66	1.66	1.68	NA
Tl - Thallium (ug/g)	0.47	0.46	0.47	NA
V - Vanadium (ug/g)	147	141	142	NA
Zn - Zinc (ug/g)	112	104	110	NA

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

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

1997 Final Data (Not Surrogate Corrected) - Sediment Core - METALS

Field ID	97-1-F1-03-21-MET-SC	97-1-F1-03-26-MET-SC	97-1-F1-03-26-MET-SC	97-1-F2-03-00-MET-SC
Lab ID	97-1-F1-03-21-MET-SC	97-1-F1-03-26-MET-SC #1	97-1-F1-03-26-MET-SC #2	97-1-F2-03-00-MET-SC
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	SAMP	SAMP	QC	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	0.4714 g	0.4636 g	NA NA	0.4681 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/14/1997	7/14/1997	7/14/1997	7/14/1997
Extract Date	1/14/1998	1/14/1998	NA	1/18/1998
Analysis Date	1/14/1998	1/14/1998	NA	1/18/1998
Min Reporting Limit	NA	NA	NA	NA
Units	---	---	---	---

METALS				
Ag - Silver (ug/g)	0.09	0.08	NA	0.08
Al - Aluminum (%)	7.99	7.68	NA	6.93
As - Arsenic (ug/g)	7	7.3	NA	7
Ba - Barium (ug/g)	840	838	NA	795
Be - Beryllium (ug/g)	1.28	1.18	NA	1.13
Ca - Calcium (%)	2.15	1.94	NA	2.22
Cd - Cadmium (ug/g)	0.12	0.15	NA	0.14
Cr - Chromium (ug/g)	84.2	78.2	NA	65.9
Cu - Copper (ug/g)	38.9	37.5	NA	30.9
Fe - Iron (%)	4.31	4.27	NA	4.06
Hg - Mercury (ug/g)	0.054	0.051	NA	0.052
K - potassium (%)	1.66	1.5	NA	1.77
Mg - Magnesium (%)	1.6	1.49	NA	1.51
Mn - Manganese (ug/g)	729	742	NA	885
Ni - Nickel (ug/g)	37	36	NA	35.8
Pb - Lead (ug/g)	12.9	12.9	NA	12.9
Sb - Antimony (ug/g)	0.99	1.04	NA	0.85
Se - Selenium (ug/g)	0.44	0.41	NA	0.51
Sn - Tin (ug/g)	1.69	1.7	NA	1.88
Tl - Thallium (ug/g)	0.48	0.48	NA	0.41
V - Vanadium (ug/g)	142	144	NA	131
Zn - Zinc (ug/g)	111	110	NA	105

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

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

1997 Final Data (Not Surrogate Corrected) - Sediment Core - METALS

Field ID	97-1-F2-03-02-MET-SC	97-1-F2-03-04-MET-SC	97-1-F2-03-06-MET-SC	97-1-F2-03-08-MET-SC
Lab ID	97-1-F2-03-02-MET-SC	97-1-F2-03-04-MET-SC	97-1-F2-03-06-MET-SC	97-1-F2-03-08-MET-SC
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	0.4794 g	0.4537 g	0.4589 g	0.4675 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/14/1997	7/14/1997	7/14/1997	7/14/1997
Extract Date	1/18/1998	1/18/1998	1/18/1998	1/18/1998
Analysis Date	1/18/1998	1/18/1998	1/18/1998	1/18/1998
Min Reporting Limit	NA	NA	NA	NA
Units	---	---	---	---

METALS				
Ag - Silver (ug/g)	0.08	0.08	0.07	0.08
Al - Aluminum (%)	6.66	6.93	6.63	6.62
As - Arsenic (ug/g)	7.2	8.7	8.2	9.4
Ba - Barium (ug/g)	795	797	795	826
Be - Beryllium (ug/g)	1.2	1.13	1.16	1.18
Ca - Calcium (%)	2.41	2.27	2.26	2.27
Cd - Cadmium (ug/g)	0.17	0.19	0.17	0.16
Cr - Chromium (ug/g)	62.6	55.1	54.5	55.3
Cu - Copper (ug/g)	30.2	28	27.7	28.4
Fe - Iron (%)	3.9	3.68	3.77	3.76
Hg - Mercury (ug/g)	0.036	0.036	0.036	0.037
K - potassium (%)	2.09	2.14	2.06	2.14
Mg - Magnesium (%)	1.63	1.5	1.48	1.51
Mn - Manganese (ug/g)	693	717	709	725
Ni - Nickel (ug/g)	33.1	29.3	29.4	30.5
Pb - Lead (ug/g)	12.8	12.3	12.2	12.6
Sb - Antimony (ug/g)	0.89	0.9	0.86	0.87
Se - Selenium (ug/g)	0.58	0.55	0.49	0.56
Sn - Tin (ug/g)	1.7	1.64	1.68	1.73
Tl - Thallium (ug/g)	0.42	0.42	0.41	0.43
V - Vanadium (ug/g)	121	106	112	117
Zn - Zinc (ug/g)	98.9	93.5	96.1	94.3

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

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

1997 Final Data (Not Surrogate Corrected) - Sediment Core - METALS

Field ID	97-1-F2-03-12-MET-SC	97-1-F2-03-14-MET-SC	97-1-F2-03-14-MET-SC	97-1-F2-03-16-MET-SC
Lab ID	97-1-F2-03-12-MET-SC	97-1-F2-03-14-MET-SC #1	97-1-F2-03-14-MET-SC #2	97-1-F2-03-16-MET-SC
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	SAMP	SAMP	QC	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	0.4705 g	0.4821 g	NA NA	0.4588 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/14/1997	7/14/1997	7/14/1997	7/14/1997
Extract Date	1/18/1998	1/18/1998	NA	1/18/1998
Analysis Date	1/18/1998	1/18/1998	NA	1/18/1998
Min Reporting Limit	NA	NA	NA	NA
Units	---	---	---	---

METALS				
Ag - Silver (ug/g)	0.08	0.08	NA	0.07
Al - Aluminum (%)	6.47	6.84	NA	6.74
As - Arsenic (ug/g)	8.2	8.3	NA	9.1
Ba - Barium (ug/g)	800	827	NA	813
Be - Beryllium (ug/g)	1.18	1.19	NA	1.17
Ca - Calcium (%)	2.28	2.15	NA	2.15
Cd - Cadmium (ug/g)	0.14	0.16	NA	0.15
Cr - Chromium (ug/g)	58.5	58.1	NA	58.1
Cu - Copper (ug/g)	29.5	30.2	NA	30.3
Fe - Iron (%)	3.73	3.76	NA	3.77
Hg - Mercury (ug/g)	0.034	0.033	NA	0.034
K - potassium (%)	2.07	1.93	NA	2
Mg - Magnesium (%)	1.49	1.35	NA	1.44
Mn - Manganese (ug/g)	706	738	NA	739
Ni - Nickel (ug/g)	30.5	30.3	NA	30.6
Pb - Lead (ug/g)	12.3	12.5	NA	12.4
Sb - Antimony (ug/g)	0.84	0.89	NA	0.88
Se - Selenium (ug/g)	0.55	0.54	NA	0.52
Sn - Tin (ug/g)	1.69	1.73	NA	1.65
Tl - Thallium (ug/g)	0.41	0.42	NA	0.42
V - Vanadium (ug/g)	109	112	NA	112
Zn - Zinc (ug/g)	97.2	96	NA	96.1

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

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

1997 Final Data (Not Surrogate Corrected) - Sediment Core - METALS

Field ID	97-1-F2-03-18-MET-SC	97-1-F2-03-20-MET-SC	97-1-F2-03-22-MET-SC	97-1-F2-03-27-MET-SC
Lab ID	97-1-F2-03-18-MET-SC	97-1-F2-03-20-MET-SC	97-1-F2-03-22-MET-SC	97-1-F2-03-27-MET-SC
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	0.4534 g	0.4572 g	0.4645 g	0.4544 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/14/1997	7/14/1997	7/14/1997	7/14/1997
Extract Date	1/18/1998	1/18/1998	1/18/1998	1/18/1998
Analysis Date	1/18/1998	1/18/1998	1/18/1998	1/18/1998
Min Reporting Limit	NA	NA	NA	NA
Units	---	---	---	---

METALS				
Ag - Silver (ug/g)	0.07	0.07	0.06	0.09
Al - Aluminum (%)	5.94	7.31	7.09	7.09
As - Arsenic (ug/g)	9.7	8	8.9	9
Ba - Barium (ug/g)	805	808	812	798
Be - Beryllium (ug/g)	1.22	1.23	1.2	1.21
Ca - Calcium (%)	2.31	2.42	2.45	2.49
Cd - Cadmium (ug/g)	0.15	0.16	0.19	0.17
Cr - Chromium (ug/g)	66.2	72.9	78.9	84.3
Cu - Copper (ug/g)	33.2	44.3	37.4	38.2
Fe - Iron (%)	4.06	4.47	4.46	4.69
Hg - Mercury (ug/g)	0.031	0.039	0.046	0.042
K - potassium (%)	2.02	1.75	1.91	1.83
Mg - Magnesium (%)	1.61	1.61	1.84	1.8
Mn - Manganese (ug/g)	778	801	848	857
Ni - Nickel (ug/g)	35.6	41	43.4	44.3
Pb - Lead (ug/g)	12.5	13.2	12.9	12.8
Sb - Antimony (ug/g)	0.9	0.92	0.99	0.96
Se - Selenium (ug/g)	0.52	0.58	0.65	0.63
Sn - Tin (ug/g)	1.65	1.96	1.76	1.68
Tl - Thallium (ug/g)	0.43	0.44	0.45	0.44
V - Vanadium (ug/g)	113	134	139	149
Zn - Zinc (ug/g)	108	118	124	123

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

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

1997 Final Data (Not Surrogate Corrected) - Sediment Core - METALS

Field ID	97-2-F1-03-00-MET-SC	97-2-F1-03-00-MET-SC	97-2-F1-03-02-MET-SC	97-2-F1-03-02-MET-SC
Lab ID	97-2-F1-03-00-MET-SC #1	97-2-F1-03-00-MET-SC #2	97-2-F1-03-02-MET-SC	97-2-F1-03-02-MET-SC #1
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	SAMP	QC	SAMP	QC
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	0.4538 g	0.4538 g	0.4609 g	NA NA
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/13/1997	7/13/1997	7/13/1997	7/13/1997
Extract Date	1/5/1998	1/5/1998	1/5/1998	NA
Analysis Date	1/5/1998	1/5/1998	1/5/1998	NA
Min Reporting Limit	NA	NA	NA	NA
Units	---	---	---	---

METALS				
Ag - Silver (ug/g)	0.07	0.07	0.07	NA
Al - Aluminum (%)	7.68	7.54	7.91	NA
As - Arsenic (ug/g)	8.9	9.6	9.7	NA
Ba - Barium (ug/g)	874	860	894	NA
Be - Beryllium (ug/g)	1.19	1.4	1.34	NA
Ca - Calcium (%)	1.93	1.93	NA	NA
Cd - Cadmium (ug/g)	0.11	0.14	0.13	NA
Cr - Chromium (ug/g)	73.7	75.8	74.7	NA
Cu - Copper (ug/g)	39.1	39.2	39.8	NA
Fe - Iron (%)	4.31	4.35	4.32	NA
Hg - Mercury (ug/g)	0.056	NA	0.056	NA
K - potassium (%)	1.59	1.6	NA	NA
Mg - Magnesium (%)	1.7	1.76	NA	NA
Mn - Manganese (ug/g)	821	790	777	NA
Ni - Nickel (ug/g)	35.8	35.6	36.6	NA
Pb - Lead (ug/g)	13.7	13.6	14.1	NA
Sb - Antimony (ug/g)	1	1.02	1.04	NA
Se - Selenium (ug/g)	0.26	0.27	0.26	NA
Sn - Tin (ug/g)	1.7	1.7	1.79	NA
Tl - Thallium (ug/g)	0.48	0.48	0.49	NA
V - Vanadium (ug/g)	142	143	140	NA
Zn - Zinc (ug/g)	117	121	116	NA



**Arthur D. Little, Inc.**

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

1997 Final Data (Not Surrogate Corrected) - Sediment Core - METALS

Field ID	97-2-F1-03-02-MET-SC	97-2-F1-03-04-MET-SC	97-2-F1-03-04-MET-SC	97-2-F1-03-06-MET-SC
Lab ID	97-2-F1-03-02-MET-SC #2	97-2-F1-03-04-MET-SC #1	97-2-F1-03-04-MET-SC #2	97-2-F1-03-06-MET-SC #1
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	QC	SAMP	QC	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	0.4609 g	0.4545 g	NA NA	0.4524 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/13/1997	7/13/1997	7/13/1997	7/13/1997
Extract Date	1/5/1998	1/5/1998	NA	1/5/1998
Analysis Date	1/5/1998	1/5/1998	NA	1/5/1998
Min Reporting Limit	NA	NA	NA	NA
Units	---	---	---	---

METALS				
Ag - Silver (ug/g)	NA	0.09	NA	0.07
Al - Aluminum (%)	NA	7.53	NA	7.4
As - Arsenic (ug/g)	NA	9.1	NA	9.5
Ba - Barium (ug/g)	NA	880	NA	895
Be - Beryllium (ug/g)	NA	1.33	NA	1.34
Ca - Calcium (%)	2.13	NA	1.93	NA
Cd - Cadmium (ug/g)	NA	0.12	NA	0.14
Cr - Chromium (ug/g)	NA	73.8	NA	78
Cu - Copper (ug/g)	NA	39.8	NA	40.6
Fe - Iron (%)	NA	4.31	NA	4.4
Hg - Mercury (ug/g)	0.055	0.061	NA	0.058
K - potassium (%)	1.87	NA	1.53	NA
Mg - Magnesium (%)	1.9	NA	1.68	NA
Mn - Manganese (ug/g)	NA	754	NA	844
Ni - Nickel (ug/g)	NA	36.4	NA	37.2
Pb - Lead (ug/g)	NA	14	NA	14.2
Sb - Antimony (ug/g)	NA	1.04	NA	1.05
Se - Selenium (ug/g)	NA	0.38	NA	0.38
Sn - Tin (ug/g)	NA	1.75	NA	1.77
Tl - Thallium (ug/g)	NA	0.48	NA	0.48
V - Vanadium (ug/g)	NA	136	NA	137
Zn - Zinc (ug/g)	NA	117	NA	121

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

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

1997 Final Data (Not Surrogate Corrected) - Sediment Core - METALS

Field ID	97-2-F1-03-06-MET-SC	97-2-F1-03-08-MET-SC	97-2-F1-03-08-MET-SC	97-2-F1-03-12-MET-SC
Lab ID	97-2-F1-03-06-MET-SC #2	97-2-F1-03-08-MET-SC #1	97-2-F1-03-08-MET-SC #2	97-2-F1-03-12-MET-SC #1
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	QC	SAMP	QC	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	NA NA	0.4531 g	NA NA	0.4536 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/13/1997	7/13/1997	7/13/1997	7/13/1997
Extract Date	NA	1/5/1998	NA	1/5/1998
Analysis Date	NA	1/5/1998	NA	1/5/1998
Min Reporting Limit	NA	NA	NA	NA
Units	---	---	---	---

METALS				
Ag - Silver (ug/g)	NA	0.07	NA	0.06
Al - Aluminum (%)	NA	7.22	NA	7.38
As - Arsenic (ug/g)	NA	9.7	NA	9
Ba - Barium (ug/g)	NA	868	NA	862
Be - Beryllium (ug/g)	NA	1.23	NA	1.23
Ca - Calcium (%)	1.96	NA	1.98	NA
Cd - Cadmium (ug/g)	NA	0.12	NA	0.13
Cr - Chromium (ug/g)	NA	79.8	NA	73.9
Cu - Copper (ug/g)	NA	39.3	NA	39.2
Fe - Iron (%)	NA	4.4	NA	4.36
Hg - Mercury (ug/g)	NA	0.054	NA	0.062
K - potassium (%)	1.66	NA	1.65	NA
Mg - Magnesium (%)	1.78	NA	1.74	NA
Mn - Manganese (ug/g)	NA	843	NA	825
Ni - Nickel (ug/g)	NA	35.6	NA	35.7
Pb - Lead (ug/g)	NA	13.8	NA	13.7
Sb - Antimony (ug/g)	NA	1.02	NA	1.02
Se - Selenium (ug/g)	NA	0.28	NA	0.24
Sn - Tin (ug/g)	NA	1.74	NA	1.7
Tl - Thallium (ug/g)	NA	0.48	NA	0.48
V - Vanadium (ug/g)	NA	143	NA	143
Zn - Zinc (ug/g)	NA	118	NA	118

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

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

1997 Final Data (Not Surrogate Corrected) - Sediment Core - METALS

Field ID	97-2-F1-03-12-MET-SC	97-2-F1-03-18-MET-SC	97-2-F1-03-22-MET-SC	97-2-F1-03-27-MET-SC
Lab ID	97-2-F1-03-12-MET-SC #2	97-2-F1-03-18-MET-SC	97-2-F1-03-22-MET-SC	97-2-F1-03-27-MET-SC
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	QC	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	NA NA	0.4567 g	0.4553 g	0.4988 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/13/1997	7/13/1997	7/13/1997	7/13/1997
Extract Date	NA	1/5/1998	1/5/1998	1/5/1998
Analysis Date	NA	1/5/1998	1/5/1998	1/5/1998
Min Reporting Limit	NA	NA	NA	NA
Units	---	---	---	---

METALS				
Ag - Silver (ug/g)	NA	0.07	0.06	0.07
Al - Aluminum (%)	NA	7.09	7.27	7.16
As - Arsenic (ug/g)	NA	9.3	8.5	7.8
Ba - Barium (ug/g)	NA	866	862	878
Be - Beryllium (ug/g)	NA	1.17	1.15	1.18
Ca - Calcium (%)	1.96	1.94	1.95	1.97
Cd - Cadmium (ug/g)	NA	0.13	0.14	0.14
Cr - Chromium (ug/g)	NA	77.3	71.7	76
Cu - Copper (ug/g)	NA	37.7	39.1	37.9
Fe - Iron (%)	NA	4.33	4.3	4.42
Hg - Mercury (ug/g)	NA	0.055	0.049	0.058
K - potassium (%)	1.53	1.52	1.65	1.67
Mg - Magnesium (%)	1.64	1.65	1.76	1.76
Mn - Manganese (ug/g)	NA	785	787	766
Ni - Nickel (ug/g)	NA	35.8	35.3	36.3
Pb - Lead (ug/g)	NA	13.7	13.5	14
Sb - Antimony (ug/g)	NA	1.03	1	1.03
Se - Selenium (ug/g)	NA	0.24	0.21	0.28
Sn - Tin (ug/g)	NA	1.72	1.74	1.75
Tl - Thallium (ug/g)	NA	0.47	0.47	0.48
V - Vanadium (ug/g)	NA	136	136	141
Zn - Zinc (ug/g)	NA	120	117	120

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

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

1997 Final Data (Not Surrogate Corrected) - Sediment Core - METALS

Field ID	97-2-F1-03-31-MET-SC	97-2-F2-03-00-MET-SC	97-2-F2-03-02-MET-SC	97-2-F2-03-04-MET-SC
Lab ID	97-2-F1-03-31-MET-SC	97-2-F2-03-00-MET-SC	97-2-F2-03-02-MET-SC	97-2-F2-03-04-MET-SC
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	0.4543 g	0.4533 g	0.4543 g	0.4579 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/13/1997	7/9/1997	7/9/1997	7/9/1997
Extract Date	1/5/1998	1/5/1998	1/5/1998	1/5/1998
Analysis Date	1/5/1998	1/5/1998	1/5/1998	1/5/1998
Min Reporting Limit	NA	NA	NA	NA
Units	---	---	---	---

METALS				
Ag - Silver (ug/g)	0.07	0.05	0.06	0.07
Al - Aluminum (%)	7.53	7.47	7.2	7.15
As - Arsenic (ug/g)	8	9.8	8.5	7.8
Ba - Barium (ug/g)	862	835	820	846
Be - Beryllium (ug/g)	1.16	1.12	1.08	1.13
Ca - Calcium (%)	1.97	1.66	1.34	1.73
Cd - Cadmium (ug/g)	0.13	0.14	0.16	0.22
Cr - Chromium (ug/g)	77.7	79.8	79.6	80.9
Cu - Copper (ug/g)	38.5	38	37.9	38.9
Fe - Iron (%)	4.24	4.46	4.35	4.42
Hg - Mercury (ug/g)	0.057	0.066	0.066	0.065
K - potassium (%)	1.65	1.59	1.35	1.88
Mg - Magnesium (%)	1.78	1.82	1.54	2
Mn - Manganese (ug/g)	771	1140	996	903
Ni - Nickel (ug/g)	35.2	36.7	35.8	36.9
Pb - Lead (ug/g)	13.8	14.3	14	14.4
Sb - Antimony (ug/g)	1	0.98	0.97	0.99
Se - Selenium (ug/g)	0.28	0.21	0.35	0.41
Sn - Tin (ug/g)	1.73	1.7	1.74	1.73
Tl - Thallium (ug/g)	0.48	0.46	0.46	0.46
V - Vanadium (ug/g)	155	143	142	147
Zn - Zinc (ug/g)	117	125	124	127

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

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

1997 Final Data (Not Surrogate Corrected) - Sediment Core - METALS

Field ID	97-2-F2-03-06-MET-SC	97-2-F2-03-08-MET-SC	97-2-F2-03-08-MET-SC	97-2-F2-03-12-MET-SC
Lab ID	97-2-F2-03-06-MET-SC	97-2-F2-03-08-MET-SC #1	97-2-F2-03-08-MET-SC #2	97-2-F2-03-12-MET-SC
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	SAMP	SAMP	QC	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	0.4511 g	0.4615 g	0.4615 g	0.4524 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/9/1997	7/9/1997	7/9/1997	7/9/1997
Extract Date	1/5/1998	1/5/1998	1/5/1998	1/5/1998
Analysis Date	1/5/1998	1/5/1998	1/5/1998	1/5/1998
Min Reporting Limit	NA	NA	NA	NA
Units	---	---	---	---

METALS				
Ag - Silver (ug/g)	0.07	0.07	NA	0.07
Al - Aluminum (%)	7.17	7.33	NA	7.56
As - Arsenic (ug/g)	9	7.7	NA	7.7
Ba - Barium (ug/g)	845	829	NA	836
Be - Beryllium (ug/g)	1.11	1.1	NA	1.1
Ca - Calcium (%)	1.8	1.69	NA	1.68
Cd - Cadmium (ug/g)	0.17	0.19	NA	0.19
Cr - Chromium (ug/g)	80.2	76.5	NA	74.1
Cu - Copper (ug/g)	39.4	38.5	NA	38.1
Fe - Iron (%)	4.52	4.32	NA	4.37
Hg - Mercury (ug/g)	0.066	0.062	0.064	0.065
K - potassium (%)	1.78	1.68	NA	1.78
Mg - Magnesium (%)	2.01	1.86	NA	1.92
Mn - Manganese (ug/g)	951	912	NA	879
Ni - Nickel (ug/g)	36.7	36.4	NA	36.3
Pb - Lead (ug/g)	14.5	14.3	NA	14.4
Sb - Antimony (ug/g)	0.99	0.99	NA	1.01
Se - Selenium (ug/g)	0.24	0.27	NA	0.31
Sn - Tin (ug/g)	1.73	1.69	NA	1.71
Tl - Thallium (ug/g)	0.47	0.46	NA	0.46
V - Vanadium (ug/g)	156	140	NA	149
Zn - Zinc (ug/g)	125	122	NA	125

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

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

1997 Final Data (Not Surrogate Corrected) - Sediment Core - METALS

Field ID	97-2-F2-03-18-MET-SC	97-2-F2-03-22-MET-SC	97-2-F2-03-27-MET-SC	97-2-F2-03-31-MET-SC
Lab ID	97-2-F2-03-18-MET-SC	97-2-F2-03-22-MET-SC	97-2-F2-03-27-MET-SC	97-2-F2-03-31-MET-SC
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	0.4766 g	0.4604 g	0.46 g	0.4552 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/9/1997	7/9/1997	7/9/1997	7/9/1997
Extract Date	1/5/1998	1/5/1998	1/5/1998	1/5/1998
Analysis Date	1/5/1998	1/5/1998	1/5/1998	1/5/1998
Min Reporting Limit	NA	NA	NA	NA
Units	---	---	---	---

METALS				
Ag - Silver (ug/g)	0.06	0.05	0.05	0.06
Al - Aluminum (%)	7.04	7.05	7.61	7.45
As - Arsenic (ug/g)	7.6	7.8	7.5	6.6
Ba - Barium (ug/g)	820	855	873	855
Be - Beryllium (ug/g)	1.04	1	1.1	1.06
Ca - Calcium (%)	1.66	1.62	1.64	1.7
Cd - Cadmium (ug/g)	0.27	0.19	0.15	0.18
Cr - Chromium (ug/g)	75.9	78.6	76.7	73.7
Cu - Copper (ug/g)	37.3	38.6	37.5	37.9
Fe - Iron (%)	4.62	4.29	4.26	4.55
Hg - Mercury (ug/g)	0.06	0.061	0.057	0.057
K - potassium (%)	1.49	1.66	1.72	1.86
Mg - Magnesium (%)	1.57	1.75	1.7	1.77
Mn - Manganese (ug/g)	767	777	761	769
Ni - Nickel (ug/g)	35.3	35.3	34.5	32.7
Pb - Lead (ug/g)	14	14.2	14.1	13.6
Sb - Antimony (ug/g)	0.99	1.04	1.06	1.03
Se - Selenium (ug/g)	0.49	0.43	0.43	0.26
Sn - Tin (ug/g)	1.7	1.76	1.75	1.77
Tl - Thallium (ug/g)	0.45	0.47	0.48	0.46
V - Vanadium (ug/g)	142	141	135	130
Zn - Zinc (ug/g)	122	119	119	114

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

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

1997 Final Data (Not Surrogate Corrected) - Sediment Core - METALS

Field ID	97-3-F1-03-00-MET-SC	97-3-F1-03-02-MET-SC	97-3-F1-03-04-MET-SC	97-3-F1-03-06-MET-SC
Lab ID	97-3-F1-03-00-MET-SC	97-3-F1-03-02-MET-SC	97-3-F1-03-04-MET-SC	97-3-F1-03-06-MET-SC
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	0.4171 g	0.457 g	0.4261 g	0.4615 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/11/1997	7/11/1997	7/11/1997	7/11/1997
Extract Date	11/20/1997	1/5/1998	11/20/1997	1/5/1998
Analysis Date	11/20/1997	1/5/1998	11/20/1997	1/5/1998
Min Reporting Limit	NA	NA	NA	NA
Units	---	---	---	---

METALS				
Ag - Silver (ug/g)	0.08	0.06	0.1	0.06
Al - Aluminum (%)	7.44	6.73	6.31	7.32
As - Arsenic (ug/g)	13.8	9.4	9.1	8.3
Ba - Barium (ug/g)	892	911	909	909
Be - Beryllium (ug/g)	1.39	1.28	1.36	1.24
Ca - Calcium (%)	1.75	1.77	1.87	1.82
Cd - Cadmium (ug/g)	0.13	0.13	0.17	0.16
Cr - Chromium (ug/g)	71.7	65.7	74.4	76.5
Cu - Copper (ug/g)	36.8	38.3	38.7	39.8
Fe - Iron (%)	4.47	4.43	4.38	4.35
Hg - Mercury (ug/g)	0.044	0.064	0.057	0.055
K - potassium (%)	1.71	1.83	1.82	1.69
Mg - Magnesium (%)	1.85	1.84	1.86	1.67
Mn - Manganese (ug/g)	1390	851	934	910
Ni - Nickel (ug/g)	36.7	38.4	38.1	39.1
Pb - Lead (ug/g)	13.6	14.4	14.1	14.6
Sb - Antimony (ug/g)	1.17	1.14	1.22	1.14
Se - Selenium (ug/g)	0.22	0.36	0.23	0.36
Sn - Tin (ug/g)	2.29	1.8	2.2	1.81
Tl - Thallium (ug/g)	0.46	0.5	0.49	0.51
V - Vanadium (ug/g)	143	130	147	146
Zn - Zinc (ug/g)	124	120	125	122

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

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

1997 Final Data (Not Surrogate Corrected) - Sediment Core - METALS

Field ID	97-3-F1-03-08-MET-SC	97-3-F1-03-12-MET-SC	97-3-F1-03-18-MET-SC	97-3-F1-03-22-MET-SC
Lab ID	97-3-F1-03-08-MET-SC	97-3-F1-03-12-MET-SC	97-3-F1-03-18-MET-SC	97-3-F1-03-22-MET-SC
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	0.4538 g	0.4193 g	0.4208 g	0.4615 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/11/1997	7/11/1997	7/11/1997	7/11/1997
Extract Date	1/5/1998	11/20/1997	11/20/1997	1/5/1998
Analysis Date	1/5/1998	11/20/1997	11/20/1997	1/5/1998
Min Reporting Limit	NA	NA	NA	NA
Units	---	---	---	---

METALS				
Ag - Silver (ug/g)	0.07	0.08	0.08	0.07
Al - Aluminum (%)	7.11	6.86	6.84	7.74
As - Arsenic (ug/g)	8.7	8.8	8.1	7.5
Ba - Barium (ug/g)	886	890	921	904
Be - Beryllium (ug/g)	1.25	1.39	1.43	1.26
Ca - Calcium (%)	1.89	1.9	1.82	1.65
Cd - Cadmium (ug/g)	0.15	0.16	0.18	0.22
Cr - Chromium (ug/g)	77.8	73.5	77.4	78.4
Cu - Copper (ug/g)	39.2	37.9	39.2	39.8
Fe - Iron (%)	4.42	4.4	4.43	4.38
Hg - Mercury (ug/g)	0.067	0.07	0.058	0.059
K - potassium (%)	1.72	1.77	1.62	1.64
Mg - Magnesium (%)	1.72	1.79	1.67	1.61
Mn - Manganese (ug/g)	840	870	808	792
Ni - Nickel (ug/g)	38	37	38.7	38.4
Pb - Lead (ug/g)	14.3	13.7	14.2	14.1
Sb - Antimony (ug/g)	1.12	1.18	1.24	1.22
Se - Selenium (ug/g)	0.4	0.2	0.32	0.26
Sn - Tin (ug/g)	1.76	1.8	1.87	1.84
Tl - Thallium (ug/g)	0.49	0.48	0.5	0.51
V - Vanadium (ug/g)	149	149	149	146
Zn - Zinc (ug/g)	124	123	123	122



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

1997 Final Data (Not Surrogate Corrected) - Sediment Core - METALS

Field ID	97-3-F1-03-27-MET-SC	97-3-F1-03-27-MET-SC	97-3-F1-03-33-MET-SC	97-3-F2-03-00-MET-SC
Lab ID	97-3-F1-03-27-MET-SC #1	97-3-F1-03-27-MET-SC #2	97-3-F1-03-33-MET-SC	97-3-F2-03-00-MET-SC
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	SAMP	QC	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	0.4095 g	0.4075 g	0.4532 g	0.4327 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/11/1997	7/11/1997	7/11/1997	7/11/1997
Extract Date	11/20/1997	11/20/1997	1/5/1998	11/20/1997
Analysis Date	11/20/1997	11/20/1997	1/5/1998	11/20/1997
Min Reporting Limit	NA	NA	NA	NA
Units	---	---	---	---

METALS				
Ag - Silver (ug/g)	0.09	0.1	0.07	0.08
Al - Aluminum (%)	7.4	7.15	7.37	7.44
As - Arsenic (ug/g)	9.5	9.1	9.5	9.3
Ba - Barium (ug/g)	953	928	899	893
Be - Beryllium (ug/g)	1.47	1.45	1.28	1.4
Ca - Calcium (%)	1.78	1.79	1.7	1.77
Cd - Cadmium (ug/g)	0.19	0.19	0.18	0.14
Cr - Chromium (ug/g)	79.5	77.8	72	75.3
Cu - Copper (ug/g)	40.2	39	39.3	38.1
Fe - Iron (%)	4.37	4.39	4.18	4.57
Hg - Mercury (ug/g)	0.055	NA	0.045	0.058
K - potassium (%)	1.82	1.83	1.91	1.79
Mg - Magnesium (%)	1.7	1.75	1.77	1.89
Mn - Manganese (ug/g)	810	814	738	786
Ni - Nickel (ug/g)	37.8	37.1	35.3	36.5
Pb - Lead (ug/g)	13.8	13.9	13.8	13.7
Sb - Antimony (ug/g)	1.36	1.28	1.17	1.15
Se - Selenium (ug/g)	0.21	0.24	0.26	0.18
Sn - Tin (ug/g)	1.95	1.86	1.8	1.83
Tl - Thallium (ug/g)	0.47	0.51	0.5	0.44
V - Vanadium (ug/g)	131	146	131	138
Zn - Zinc (ug/g)	126	127	118	123

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

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

1997 Final Data (Not Surrogate Corrected) - Sediment Core - METALS

Field ID	97-3-F2-03-02-MET-SC	97-3-F2-03-04-MET-SC	97-3-F2-03-06-MET-SC	97-3-F2-03-08-MET-SC
Lab ID	97-3-F2-03-02-MET-SC	97-3-F2-03-04-MET-SC	97-3-F2-03-06-MET-SC	97-3-F2-03-08-MET-SC
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	0.4042 g	0.4234 g	0.4065 g	0.4143 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/11/1997	7/11/1997	7/11/1997	7/11/1997
Extract Date	11/20/1997	11/20/1997	11/20/1997	11/20/1997
Analysis Date	11/20/1997	11/20/1997	11/20/1997	11/20/1997
Min Reporting Limit	NA	NA	NA	NA
Units	---	---	---	---

METALS				
Ag - Silver (ug/g)	0.08	0.08	0.08	0.08
Al - Aluminum (%)	6.37	6.62	7.54	7.4
As - Arsenic (ug/g)	7.9	8.4	8.7	7
Ba - Barium (ug/g)	887	931	965	919
Be - Beryllium (ug/g)	1.34	1.41	1.47	1.39
Ca - Calcium (%)	1.71	1.88	2.03	1.88
Cd - Cadmium (ug/g)	0.15	0.18	0.18	0.15
Cr - Chromium (ug/g)	56.5	70.7	73.6	76.5
Cu - Copper (ug/g)	38	38.9	40.5	38.4
Fe - Iron (%)	4.36	4.36	4.54	4.37
Hg - Mercury (ug/g)	0.041	0.059	0.06	0.055
K - potassium (%)	1.61	1.83	1.91	1.8
Mg - Magnesium (%)	1.73	1.87	1.88	1.88
Mn - Manganese (ug/g)	780	784	776	701
Ni - Nickel (ug/g)	36.1	37.6	39.3	37.7
Pb - Lead (ug/g)	13.6	14.2	14.7	14.1
Sb - Antimony (ug/g)	1.16	1.25	1.27	1.18
Se - Selenium (ug/g)	0.23	0.22	0.24	0.19
Sn - Tin (ug/g)	1.77	1.88	1.97	1.88
Tl - Thallium (ug/g)	0.48	0.49	0.51	0.49
V - Vanadium (ug/g)	147	141	139	144
Zn - Zinc (ug/g)	124	126	127	136

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

1997 Final Data (Not Surrogate Corrected) - Sediment Core - METALS

Field ID	97-3-F2-03-12-MET-SC	97-3-F2-03-18-MET-SC	97-3-F2-03-23-MET-SC	97-3-F2-03-27-MET-SC
Lab ID	97-3-F2-03-12-MET-SC	97-3-F2-03-18-MET-SC	97-3-F2-03-23-MET-SC	97-3-F2-03-27-MET-SC
SDG	NA	NA	NA	NA
File	NA	NA	NA	NA
Sample Type	SAMP	SAMP	SAMP	SAMP
Matrix	Sediment Core	Sediment Core	Sediment Core	Sediment Core
Sample Size	0.4358 g	0.4261 g	0.4179 g	0.4514 g
Weight Basis	DRY	DRY	DRY	DRY
Associated Blank	NA	NA	NA	NA
Field Date	7/11/1997	7/11/1997	7/11/1997	7/11/1997
Extract Date	11/20/1997	11/20/1997	11/20/1997	1/5/1998
Analysis Date	11/20/1997	11/20/1997	11/20/1997	1/5/1998
Min Reporting Limit	NA	NA	NA	NA
Units	---	---	---	---

METALS				
Ag - Silver (ug/g)	0.08	0.07	0.09	0.07
Al - Aluminum (%)	7.38	7.2	7.5	7.32
As - Arsenic (ug/g)	8.5	7.8	6.7	7.7
Ba - Barium (ug/g)	930	947	965	945
Be - Beryllium (ug/g)	1.4	1.39	1.51	1.29
Ca - Calcium (%)	2	1.87	1.81	1.65
Cd - Cadmium (ug/g)	0.19	0.22	0.25	0.19
Cr - Chromium (ug/g)	76.8	66.1	70.2	74.3
Cu - Copper (ug/g)	39.1	40	39.8	40.6
Fe - Iron (%)	4.37	4.33	4.42	4.31
Hg - Mercury (ug/g)	0.056	0.058	0.058	0.05
K - potassium (%)	1.85	1.75	1.72	1.67
Mg - Magnesium (%)	1.82	1.72	1.7	1.66
Mn - Manganese (ug/g)	780	759	762	741
Ni - Nickel (ug/g)	36.7	38.1	37.8	39.7
Pb - Lead (ug/g)	13.5	14	14.2	14.4
Sb - Antimony (ug/g)	1.25	1.37	1.37	1.25
Se - Selenium (ug/g)	0.14	0.21	0.24	0.43
Sn - Tin (ug/g)	1.88	1.93	1.94	1.88
Tl - Thallium (ug/g)	0.48	0.51	0.48	0.53
V - Vanadium (ug/g)	150	140	151	131
Zn - Zinc (ug/g)	122	125	129	125

**Arthur D. Little, Inc.**

Environmental Monitoring and Analysis

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

1997 Final Data (Not Surrogate Corrected) - Sediment Core - METALS

<b>Field ID</b>	<b>97-3-F2-03-31-MET-SC</b>
<b>Lab ID</b>	<b>97-3-F2-03-31-MET-SC</b>
<b>SDG</b>	<b>NA</b>
<b>File</b>	<b>NA</b>
<b>Sample Type</b>	<b>SAMP</b>
<b>Matrix</b>	<b>Sediment Core</b>
<b>Sample Size</b>	<b>0.46 g</b>
<b>Weight Basis</b>	<b>DRY</b>
<b>Associated Blank</b>	<b>NA</b>
<b>Field Date</b>	<b>7/11/1997</b>
<b>Extract Date</b>	<b>1/5/1998</b>
<b>Analysis Date</b>	<b>1/5/1998</b>
<b>Min Reporting Limit</b>	<b>NA</b>
<b>Units</b>	<b>---</b>

<b>METALS</b>	
Ag - Silver (ug/g)	0.06
Al - Aluminum (%)	7.6
As - Arsenic (ug/g)	8.9
Ba - Barium (ug/g)	927
Be - Beryllium (ug/g)	1.26
Ca - Calcium (%)	1.7
Cd - Cadmium (ug/g)	0.16
Cr - Chromium (ug/g)	71.9
Cu - Copper (ug/g)	39.3
Fe - Iron (%)	4.23
Hg - Mercury (ug/g)	0.037
K - potassium (%)	1.82
Mg - Magnesium (%)	1.7
Mn - Manganese (ug/g)	727
Ni - Nickel (ug/g)	36.8
Pb - Lead (ug/g)	14.1
Sb - Antimony (ug/g)	1.21
Se - Selenium (ug/g)	0.42
Sn - Tin (ug/g)	1.85
Tl - Thallium (ug/g)	0.51
V - Vanadium (ug/g)	129
Zn - Zinc (ug/g)	116