PTI

ENVIRONMENTAL SERVICES

Puget Sound Dredged Disposal Analysis

BASELINE SURVEY OF PHASE II DISPOSAL SITES

APPENDIX F
Anderson/Ketron Islands
Disposal Site Station Logs

For

Washington Department of Ecology
Olympia, Washington

June 1989

Ecology pub. no. 89-09-004f

PTI *Environmental Services*
15375 SE 30th Place
Suite 250
Bellevue, Washington 98007

PUGET SOUND DREDGED DISPOSAL ANALYSIS
BASELINE SURVEY OF PHASE II DISPOSAL SITES

For

Washington Department of Ecology
Olympia, Washington 98504-8711

Ecology Contract C0089128
PTI Contract C878-04

June 1989

APPENDIX F

ANDERSON/KETRON ISLANDS DISPOSAL SITE STATION LOGS

STATION LOG

Station: AKP02-C **Date:** 1-MAY-1989 **Survey:** PSDDA II - A.K

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	664	734	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type	
1	VV	08:50	118	118				27876.0	42203.7	✓	GRN/	NONE	SANDY SILT	2 OUT OF 2
2	VV	09:05	118	118	2694	2049	4154	27876.0	42203.7	✓	GRN/	NONE	SANDY SILT	2 OF 2
3	VV	09:21	118	118	~~2694~~	2037	4151	27875.9	42203.6	✓	GRN/	NONE	SANDY SILT	2 OF 2.
					09:42	COMPLETED	STATION	AKP02-C						

Color: Grey Green Tan Brown Black
Odor: None Natural Petroleum H2S
Type: Clay Silt Sand Gravel

STATION LOG

Station: AKΦ3-C **Date:** 1-MAY-1989 **Survey:** PSDDA II - A.K.

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	664	734	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type	
1	VV	09:47	138	138	1693	2037	5164	27881.3	42203.5	✓	GREY	NONE	SANDY SILT	1 OUT OF 2
2	VV	10:04	130	138	1699	2050	5171	27881.3	42203.6	✓	GREY	NONE	SANDY SILT	2 OUT OF 2
3	VV	10:18	139	139	1695	2049	5171	27881.3	42203.6	✓	GREY	NONE	SANDY SILT	2 OUT OF 2
4	VV	10:32	139	139	1697	2046	5165	27881.3	42203.6	✓	GREY	NONE	SANDY SILT	2 OUT OF 2

Color: Grey Green Tan Brown Black
Odor: None Natural Petroleum H2S
Type: Clay Silt Sand Gravel

STATION LOG

Station: AK201-C **Date:** 28-APRIL-1989 **Survey:** PSDDA II - AK.

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 621	664	739	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type
1	VV	10:59	135	137	1986	1385	4265	27879.1	42202,3	✓	GREY	NONE	SILT/SANDY CLAY
2	VV	11:16	135	135	1975	1386	4273	27879.2	42202,4	✓	GREY	NONE	SANDY CLAY/SILT
3	VV	11:33	136	138	1973	1380	4274	27879.3	42202,3	✓	GREY	NONE	SAND/SILT
4	VV	11:47	135	136	1976	1375	4266	27879.3	42202,3	✓	GREY	NONE	SANDY SILT
					11:55	STATION	AK201-C	COMPLETED.					

Color: Grey Green Tan Brown Black
Odor: None Natural Petroleum H2S
Type: Clay Silt Sand Gravel

STATION LOG

Station: AKT03-I **Date:** 1-MAY-1987 **Survey:** PSDDA II - A.K.

Grab	Gear	Time out	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	664	734	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type
1	SX	1143	129	128	3222	1450	2596	27875.2	42199.9	10	GRAY	NONE	~~SILTY SAND~~ SANDY SILT
2	SX	1202	128	128	3216	1443	2600	27875.2	42199.8	14	GREY	NONE	SAND/SILT
3	SX	1219	128	128	3204	1429	2609	27875.3	42199.8	14	GREY	NONE	SAND/SILT
4	SX	1232	128	128	3214	1443	2605	27875.2	42199.9	16	GRAY	NONE	SANDY SILT
5	SX	1243	127	128	3200	1433	2620	27875.2	42199.9	10	GRAY	NONE	SANDY SILT
					COMPLETES STATION AKT03 I								

Color: Grey Green Tan Brown Black
Odor: None Natural Petroleum H2S
Type: Clay Silt Sand Gravel

STATION LOG

Station: AKB02-C **Date:** 28 APRIL - 1989 **Survey:** PSDMA II AK

	Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	664	734	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type	
6.0	1	VV	12:17	145	144	2567	2689	5199	27878.0	42205.3	✓	TAN/GRY	NONE	~~SAND~~ ~~SILT~~	SILTY SAND 2/2
7.5	2	VV	12:37	144	143	2562	2700	5220	27878.1	42205.3	✓	TAN/GRY	NONE	SILTY SAND	2 out of 2
	3	VV	12:53	145	143	2557	2692	5215	27878.1	42205.3	NO	GOOD	DIM	NOT	TRIP
	3A	VV	12:59	145	143	2562	2695	5214	27878.1	42205.3	NO	GOOD	[illegible]	[illegible]	
	3B	VV	13:05	144	142	2571	2680	5191	27878.9	42205.2	✓	GREY	NONE	SILTY SAND	✓
	4	VV	13:21	145	142	2563	2689	5203	27878.0	42205.2	✓	GREY	NONE	SILTY SAND	
	5	VV	13:36	144	142	2571	2686	5191	27878.9	42205.2	✓	GREY	NONE	SILTY SAND	2 out of 2
	6	VV	13:51	144	144	2556	2697	5213	27878.0	42205.4	✓	GREY	NONE	SILTY SAND	2 out of 2

Color: Grey Green Tan Brown Black
Odor: None Natural Petroleum H2S
Type: Clay Silt Sand Gravel

STATION LOG

Station: AK102-1 **Date:** 1-MAY-1987 **Survey:** BSNPA II - AK.

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	664	734	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type	
1	~~SX~~	13:21	129	128	2972	1279	2884	27876.0	42200 3	17	GREY	NONE	SANDY SILT	W/CLAY
2	VV	13:35	129	129	2992	1273	2859	27875.9	42200 3	15	GREY	NONE	SANDY SILT	W/CLAY
3	VV	13:54	129	129	REJECT			27875.9	42200, 3	—				
3A	VV	14:04	129	128	2966	1286	2863	27875.9	42200 3	16	GREY	NONE	SANDY SILT	
4	SX	14:17	129	128	~~2965~~ 2970	1297	2885	27875.9	42200 3	17	GREY	NONE	SANDY SILT	
5	SX	14:34	130	129	2989	1293	2864	27875.8	42200. 3	14	GREY			
					COMPLETES	STATION		AK102-1						

Color: Grey Green Tan Brown Black
Odor: None Natural Petroleum H2S
Type: Clay Silt Sand Gravel

STATION LOG

Station: AKP01 **Date:** 28-APRIL-1989 **Survey:** PSDDA II AK

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges			Loran-C LOP1	Loran-C LOP2	Penetr. (cm)	Color	Odor	Type	
					634	661	734							
1	VV	14:20 B	130	132	2			27877.2	42201.0	✓	TAN	NONE	SANDY SILT	COMP 2
2	VV	14:37	131	131				27877.2	42201.1	✓	TAN	NONE	SANDY SILT	2/2
3	VV	14:53	130	129				27877.2	42201.1	✓	TAN	NONE	SANDY SILT	2/2
					14:50	AKP01-C		COMPLETED						

Color: Grey Green Tan Brown Black
Odor: None Natural Petroleum H2S
Type: Clay Silt Sand Gravel

STATION LOG

Station: AKP04-C **Date:** 28 APRIL 1989 **Survey:** PSDDA II AK

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	664	734	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type	
1	VV	15:15	143	142				27882.3	42200 9	✓	TAN	NONE	SANDY SILT	2/2
2	VV	15:33	143	142				27882.3	42200 8	✓	TAN	NONE	SANDY SILT	[illegible]
3	VV	15:46	141	141				27882.4	42200 9	✓	TAN	NONE	SANDY SILT	2/2

Color: Grey Green Tan Brown Black
Odor: None Natural Petroleum H2S
Type: Clay Silt Sand Gravel

STATION LOG

Station: AKT01-I **Date:** 1-MAY-1981 **Survey:** PSDDA II - A. L.

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	664	734	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type
1	SX	14:50	132	132	2770	1174	3121	27876.6	42200.6	18	GREY	NONE	SANDY SILT
2	SX	15:07	132	131	2763	1174	3130	27876.5	42200.7	14	GREY	NONE	SANDY SILT
3	SX	15:21	132	131	2773	—	3123	27876.5	42200.6	13	GREY	NONE	SANDY SILT
4	SX	15:32	132	131	2761	1168	—	27876.6	42200.6	18	GREY	NONE	SANDY SILT
5	SX	15:45	132	132	2760	1179	3140	27876.5	42200.6	13	GREY	NONE	SANDY SILT
					COMPLETES STATION AKT01-I								

Color: Grey Green Tan Brown Black
Odor: None Natural Petroleum H2S
Type: Clay Silt Sand Gravel

STATION LOG

Station: AKBØ2-I **Date:** 2-MAY-1989 **Survey:** PSDDA II AK

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	664	734	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type
1	SX	08:38	133	142				21818.0	42205.3	NO	COND		SCM
						GOING	TO	AKTØ4					

Color: Grey Green Tan Brown Black
Odor: None Natural Petroleum H2S
Type: Clay Silt Sand Gravel

STATION LOG

Station: AK1Ø4-I **Date:** 2-MAY-1989 **Survey:** PSDDA II - AK

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 621	664	734	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type
1	SX	08:55	139	138	1670	2273	—	27882.0	42203.9	16	GREY	NONE	SANDY SILT
2	SX	09:10	139	139	DID	NOT	TRIP	27882.1	42203.9				
2A	SX	09:20	140	139	1703	2277	5429	27881.9	42203.9	16	GREY	NONE	SANDY SILT
3	SX	09:33	139	138	1701	2288	5446	27882.0	42203.9	19	GREY	NONE	SANDY SILT
4	SX	09:48	139	138	1710	2278	5429	27881.9	42203.9	GRAB NO GOOD			
4A	SX	10:01	139	138	1696	2286	5440	27881.0	42203.9	19	GREY	NONE	SANDY SILT
5	SX	10:17	139	138				27881.0	42203.9	16	GREY	NONE	SANDY SILT

Color: Grey Green Tan Brown Black
Odor: None Natural Petroleum H2S
Type: Clay Silt Sand Gravel

STATION LOG

Station: AK106-I **Date:** 2-MAY-1989 **Survey:** PSDDA 89-AK

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	664	734	Loran-C LOP1	Loran-C LOP2	Penetr. (cm)	Color	Odor	Type
1	SX	10:30	146	149	BAD GRAB.			27883.3	42209.6				
					GOING TO TRY TO 5								
					VERY COARSE SAND; SEVERE WASHING & RECIRCULATION PROBLEMS								

Color: Grey Green Tan Brown Black
Odor: None Natural Petroleum H2S
Type: Clay Silt Sand Gravel

STATION LOG

Station: AKT05-I **Date:** 2-MAY-1989 **Survey:** BSDDA II AK

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 1924	664	754	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type
1	SX	10:39	142	142	1738	2012	5702	27882.5	42204.2	13	GREY	NONE	SANDY SILT
2	SX	10:57	143	142				27882.5	42204.2	15	GREY	NONE	SANDY SILT
3	SX	11:11	142	141				27882.6	42204.2	16	GREY	NONE	SANDY SILT
4	SX	11:27	142	142				27882.6	42204.2	16	GREY	NONE	SILTY SAND
5	SX	11:42	149	142				27882.6	42204.2	11	GREY	NONE	SILTY SAND

Color: Grey Green Tan Brown Black
Odor: None Natural Petroleum H2S
Type: Clay Silt Sand Gravel

STATION LOG

Station: AKT06 - INFAUNA **Date:** 2 - MAY - 1989 **Survey:** ~~PSDDA~~ 3C - A-K

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	664	734	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type
1	SX	11:28	150	150	STBD	COARSE		27883.2	42204.6	?	WASHED		REJECT
1A	SX	12:37	150	—	—	NO GOOD		—3	6		REJECT - DID NOT CLOSE		
1B	SX	11:46	150	150				27883.2	42204 6	6	REJECT		
1C	SX	13:00	150	150	REJECT			27883.2	42204.6	4	AND	WASHED	
1D	SX	13:14	150	150	DID NOT TRIP			27883.1	42204 6	-			
1E	SX	13:22	150		REJECT			27883.1	42204.6	6 CM		NO GOOD.	
					GIVING UP ON			AKT06 - I		TEMPORARILY			

Added Last Weight

Color: Grey Green Tan Brown Black
Odor: None Natural Petroleum H2S
Type: Clay Silt Sand Gravel

STATION LOG

Station: AKBØ2-I **Date:** 2-MAY-1989 **Survey:** PSDDA II AK

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	664	734	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type
1	SX	13:43	144	144	2537	2696	5217	27878.1	42205.2	14	GREY	NONE	SANDY SILT
2	SX	14:01	144	144	2560	2682	5195	27878.0	42205.2	13	GREY	NONE	SANDY SILT
3	SX	14:14	144	144	2563	2692	5208	27878.1	42205.3	16	GREY	NONE	SANDY SILT
4	SX	14:28	144	144	2563	2688	5201	27878.1	42205.3	20	GREY	NONE	SILTY SAND
5	SX	14:44	144	144				27878 0	42205.2	11	GREY	NONE	SILTY SAND

Color: Grey Green Tan Brown Black
Odor: None Natural Petroleum H2S
Type: Clay Silt Sand Gravel

STATION LOG

Station: AKT 6/6 I [illegible] **Date:** 2-MAY-1989 **Survey:** [illegible] - A.K.

GRABS 1&2 REPRESENT THE SAME CAST W/A [illegible]

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	664	724	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type
1	VV	15:42	152	151	1827	2782	5998	27883.3	42204.5	13	GREY	NONE	SILTY SAND
2	"	"	"	"	"	"	"	"	"	12	GREY	NONE	SILTY SAND
3	VV	16:03	152	151	NO GOOD			27883.3	42204.5		WASHOUT		
3A	VV	16:13	152	151	1828	2781	[illegible]	27883.2	42204.6	14	GREY	NONE	SILTY SAND
4A	"	"	"	"	— "	2781	—	"	"	13	GREY	NONE	SILTY SAND
5	VV	16:30	152	151	WASH	OUT		27883.3	42204.5	REJECT			
5A	VV	16:39	153	151	1823	2773	6005	27883.2	42204.6	15	GREY	NONE	SAND

Color: Grey Green Tan Brown Black
Odor: None Natural Petroleum H2S
Type: Clay Silt Sand Gravel

STATION LOG

Station: AKT03 B **Date:** 3-MAY-1987 **Survey:** PSDDA II - ~~B~~ AK

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	664	734	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type	
1	VV	08:49	130	127	BAD GRAB			27875.3	42199.9	? NOT	GREY FULL	NONE	SILTY SAND CLOSED	BUT [illegible]
2	VV	09:08	129	127	NO GOOD			27875.2	42199.9	EMPTY		GRAB		
2A	VV	09:19	127	127	3216	1439	2598	27875.3	42199.8	✓	GREY	NONE	SILTY SAND	NO CRITTERS
3	VV	09:29	126	127	3214	1442	2603	27875.2	42199.9	✓	GREY	NONE	SILTY SAND	NO CRITTERS
4	VV	09:36	126	127	3211	1438	2605	27875.2	42199.9	✓	GREY	NONE	SILTY SAND	1 MACOMA
5	VV	09:43	126	127	3202	1433	2617	27875.3	42199.9	✓	GREY	NONE	SILTY SAND	1 LO, & 1 MED
6	VV	09:51	127	129	3225	1454	2596	27875.2	42199.9	✓	GREY	NONE	SILTY SAND	NO CRITTERS
7	VV	10:00	126	126	3217	1444	2600	27875.2	42199.8	✓	GREY	NONE	SILTY SAND	NO CRES
8	VV	10:08	127	126	3219	1453	2605	27875.1	42199.9	✓	GREY	NONE	SILTY SAND	NONE
9	VV	10:16	126	126	3196	1423	2619	27875.3	42199.8	✓	GREY	NONE	SAND	NO CLAMS
10	VV	10:22	126	127	3207	1437	2612	27875.2	42199.9	✓	GREY	NONE	SILTY SAND	NO CLAMS
11	VV	10:31	126	126	3202	1435	2618	27875.3	42199.9	✓	GREY	NONE	SILTY SAND	~~NO CLAMS~~
12	VV	10:41	126	126	3215	1445	2603	27875.2	42199.9	✓	GREY	NONE	SAND	NO CLAMS

COMPLETES STATION AKT03 - B @ 10:53

Color: Grey Green Tan Brown Black
Odor: None Natural Petroleum H2S
Type: Clay Silt Sand Gravel

230 g of Compsomyax Collected

STATION LOG

Station: AKT02-B **Date:** 3-MAY-1989 **Survey:** PSDDA II [illegible]

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	664	734	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type	
1	VV	11:02	126	126	2984	1287	2866	27875.9	42200.3	✓	GREY	NONE	SANDY SILT	[illegible] NO CLAMS
2	VV	11:10	126	126	2974	1274	2874	27876.0	42200.3	✓	GREY	NONE	SANDY SILT	NO CLAMS
3	VV	11:17	126	127	2974	1281	2877	27875.9	42200.3	✓	GREY	NONE	SANDY SILT	NO CLAMS
4	VV	11:24	127	127	2984	1287	2867	27875.9	42200.3	✓	GREY	NONE	SANDY SILT	NO CLAMS
5	VV	11:33	127	127	2978	1287	2872	27875.9	42200.2	✓	GREY	NONE	SANDY SILT	[illegible]
6	VV	11:41	126	127	2978	1285	2875	27875.9	42200.3	✓	GREY	NONE	SANDY SILT	NO CLAMS
7	VV	11:49	126	126	2969	1272	2878	27876.0	42200.3	✓	GREY	NONE	SANDY SILT	NO CLAMS
8	VV	11:58	127	126	2981	1279	2864	27875.9	42200.3	✓	GREY	NONE	SILTY SAND	NO CLAMS
9	VV	12:12	127	129	2990	1283	2853	27875.9	42200.2	✓	GREY	NONE	SANDY SILT	NO CLAMS
10	VV	12:22	127	126	2984	1281	2859	27875.8	42200.2	✓	GREY	NONE	SANDY SILT	NO CLAMS
11	VV	12:30	127	127	2980	1281	2868	27875.8	42200.2	✓	GREY	NONE	SANDY SILT	~~NO CLAMS~~
12	VV	12:41	127	127	2992	1292	2857	27875.8	42200.3	✓	GREY	NONE	SANDY SILT	[illegible] NONE
						190g OF COMPSOMYAX (OCCULTED)								
						COMPLETED STATION AKT02 [illegible]								

Color: Grey Green Tan Brown Black
Odor: None Natural Petroleum H2S
Type: Clay Silt Sand Gravel

STATION LOG

Station: AFT01-B **Date:** 3 MAY-1989 **Survey:** PEDDA II AF

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	664	734	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type	
1	VV	13:23	132	132	2786 ~~3103~~	1188	3103	27876.2	42200.6	✓	GREY	NONE	SANDY SILT	[illegible]
2	VV	13:30	135	130	DID NOT	TRIP		27876.5	42200.7	—				
2A	VV	13:41	131	130	2762	1171	—	27876.6	42200.7	✓	GREY	NONE	SANDY SILT	[illegible]
3	VV	13:47	131	130	2765	1172	3127	27876.5	42200.6	✓	GREY	NONE	SILTY SAND	[illegible]
4	VV	13:55	131	130	2759	1175	3136	[illegible].6	42200.7	✓	GREY	NONE	SILTY SAND	[illegible]
5	VV	14:05	131	130	2758	1181	3145	27876.6	42200.7	✓	GREY	NONE	SANDY SILT	NO [illegible]
6	VV	14:14	131	130	2772	1183	3123	27876.5	42200.7	✓	GREY	NONE	SANDY SILT	NO [illegible]
7	VV	14:24	132	133	DID NOT	TRIP		27876.6	42200.7					
7A	VV	14:30	131	131	2756	1167	3137	27876.6	42200.7	✓	GREY	NONE	SANDY SILT	NO [illegible]
8	VV	14:37	132	133	2770	1179	3121	27876.5	42200.7	✓	GREY	NONE	SANDY SILT	[illegible]
9	VV	14:44	132	131	2773	1180	3119	27876.5	42200.7	✓	GREY	NONE	SANDY SILT	[illegible]
10	VV	14:53	132	131	2760	1168	3127	27876.5	42200.7	✓	GREY	NONE	SILTY SAND	[illegible]
11	VV	15:04	132	133	2780	1189	3107	27876.4	42200.7	✓	GREY	NONE	SILTY SAND	[illegible]
12	VV	15:13	132	133	2760	1170	3129	27876.5	42200.7	✓	GREY	NONE	SILTY SAND	[illegible]
						530 grams of [illegible]								

Color: Grey Green Tan Brown Black
Odor: None Natural Petroleum H2S
Type: Clay Silt Sand Gravel

STATION LOG

Station: AKT04-B **Date:** 3-MAY-1987 **Survey:** PSDDA II - AK

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	664	734	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type	
1	VV	15:40	142	141	1696	2271	—	27881.9	42203.9	✓	GREY	NONE	SILTY SAND	NO [illegible]
2	VV	15:49	142	141	1698	2281	5434	27881.9	42203.9	✓	GREY	NONE	SANDY SILT	NO CLAMS
3	VV	15:57	142	142	1696	2282	5434	27881.9	42203.9	✓	GREY	NON	SANDY SILT	[illegible]
4	VV	16:07	142	141	1686	2279	5440	27882.0	42203.8	✓	GREY	NONE	SANDY SILT	NO CLAMS
5	VV	16:14	142	143	1701	2294	5450	27881.9	42203.9	✓	GREY	NONE	SANDY SILT	1 MULPADIA [illegible]
6	VV	16:19	142	141	1694	2286	5442	27881.0	42203.8	✓	GREY	NONE	SANDY SILT	NO CLAMS
7	VV	16:26	142	141	1706	2278	5416	27881.8	42203.9	✓	GREY	NONE	SANDY SILT	NO CLAMS
8	VV	16:40	142	141	1690	2269	5425	27882.0	42203.9	✓	GREY	NONE	SANDY SILT	NO CLAM
9	VV	16:47	143	141	1693	2270	5426	27881.9	42203.9	✓	GREY	NONE	SANDY SILT	NO CLAMS
10	VV	16:54	143	142	1698	2280	5435	27882.0	42203.9	✓	GREY	NONE	SANDY SILT	NO CLAMS
11	VV	16:59	142	142	1705	2291	5440	27881.9	42203.9	✓	GREY	NONE	SANDY SILT	NO CLAMS
11A	VV	17:06	143	142	1679	2265	5429	27882.0	42203.8	✓	GREY	NONE	SANDY SILT	NO CLAMS
12	VV	17:11	143	142	1696	2281	5435	27882.0	42203.8	✓	GREY	NONE	SANDY SILT	NO CLAMS
13	VV	17:19	142	142	1692	2276	5431	27882.9	42203.9	✓	GREY	NONE	SANDY SILT	NO CLAMS

Color: Grey Green Tan Brown Black
Odor: None Natural Petroleum H2S
Type: Clay Silt Sand Gravel

60 grams of Compsomyax

MISF - WEIRD ONE DO NOT COUNT

STATION LOG

Station: ~~AKBG7-B~~ **Date:** 4-MAY-1989 **Survey:** PSDDA ~~NE~~ AK

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	604	734	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type	
1	VV	08:46	141	143	2567	2701	5218	27878.1	42205.3	✓	GR-Y	SULFIDIC	SILT/SAND	
2	VV	08:55	144	142	2571	2704	5219	27878.0	42205.3	✓	GR-BR	NONE	SILT/SAND	
3	VV	09:02	141	141	2561	2694	5213	27878.1	42205.3	✓	GR-BR	NONE	SILT/SAND	
4	VV	09:17	143	141	2548	2687	5218	27878.1	42205.2	✓	GR-BR	NONE	SILTY SAND	
5	VV	09:33	142	144	2569	2707	5215	27878.1	42205.3	✓	GR-BR	NONE	SILTY SAND	
6	VV	09:42	144	141	2561	2701	5224	27878.1	42205.3	✓	GR-BR	NONE	SILTY SAND	
7	VV	09:51	143	141	2561	2685	5201	27878.0	42205.3	✓	GR-BR	NONE	SILTY SAND	
8	VV	10:00	142	142	2552	2681	5213	27878.1	42205.3	✓	GR-BR	NONE	SILTY SAND	
9	VV	10:12	142	142	2561	2687	5208	27878.1	42205.3	✓	GR-BR	NONE	SILTY SAND	
10	VV	10:23	144	144	2562	2655	5208	27878.0	42205.3	✓	GR-BR	NONE	SILTY SAND	
11	VV	10:32	142	141	2575	2693	5196	27878.0	42206.3	✓	GR-BR	NONE	SILTY SAND	
12	VV	10:43	142	141	2556	2691	5215	27878.1	42205.3	✓	GR-BR	NONE	SILTY SAND	

Color: Grey Green Tan Brown Black
Odor: None Natural Petroleum H2S
Type: Clay Silt Sand Gravel

STATION LOG

Station: ARTOS 45 **Date:** 4-MAY-1989 **Survey:** [illegible]

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 6041	6041	7541	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type	
1	VV	11:05	141	141	1742	2523	5709	27882.6	42204.2	✓	GRY	NONE	SILTY SAND	
2	VV	11:12	140	140	1731	2502	5689	27882.6	42204.1	✓	GRAY	NONE	SANDY	
3	VV	11:27	144	142	1742	2508	5688	27882.5	42204.3	✓	GREY	NONE	SANDY	
4	VV	11:38	142	142	1746	2515	5695	27882.5	42204.2	✓	GREY	NONE	SANDY SILT	
5	VV	11:48	141	141	1738	2512	5699	27882.6	42204.2	✓	GREY	NONE		
6	VV	11:56	141	141	1738	2528	5704	27882.5	42204.2	✓	GREY	NONE	SILTY SAND	NO CLAMS
7	VV	12:02	140	140	1733	2517	5704	27882.6	42204.2	✓	GREY	NONE	SANDY SILT	NO CLAMS
8	VV	12:10	143	143	1748	2531	5716	27882.6	42204.2	✓	GREY	NONE	SANDY SILT	NO CLAMS
9	VV	12:17	141	142	1740	2518	5704	27882.6	42204.2	✓	GREY	NONE	SANDY SILT	NO CLAMS
10	VV	12:24	142	141	1734	2530	5722	27882.7	42204.2	✓	GREY	NONE	SANDY SILT	NO CLAMS
11	VV	12:30	141	141	1741	2527	5714	27882.6	42204.2	✓	GREY	NONE	SANDY SILT	2 SMALL
12	VV	12:37	141	141	1735	2519	5710	27882.6	42204.2	✓	GREY	NONE	SANDY SILT	1 SMALL
								390	grams of Composite collected					

Color: Grey Green Tan Brown Black
Odor: None Natural Petroleum H2S
Type: Clay Silt Sand Gravel

12:55 STATION ARTOS-BIOACCUMULATION COMPLETED.

STATION LOG

Station: AKT 66-B **Date:** 4-MAY-1984 **Survey:** [illegible]

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	664	734	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type	
1	VV	13:36	150	149	1837	2781	5993	27883 2	42204 6	✓	BROWN	NONE	SAND	[illegible]
2	VV	13:43	150	149	1847	2799	5997	27883, 2	42204 6	✓	GREY BROWN	NONE	SAND	[illegible]
3	VV	13:51	150	149	1820	2779	5995	27883, 3	42204 6	✓	GREY	NONE	SAND	[illegible]
4	VV	13:59	150	149	1846	2796	6005	27883 2	42204, 6	✓	GREY	NONE	SAND	[illegible]
5	VV	14:06	151	150	1828	2784	6004	27883, 3	42204, 6	✓	GREY	NONE	SAND	[illegible]
6	VV	14:13	151	150	1843	2782	6004	27883, 2	42204 6	✓	GREY	NONE	SAND	[illegible]
7	VV	14:20	151	151	1833	2788	5997	27883, 3	42204, 7	✓	GREY	NONE	SAND	[illegible]
8	VV	14:28	151	151	1836	2776	5982	27883, 2	42204, 6	✓	GREY	NONE	SAND	[illegible]
9	VV	14:36	151	151	1840	2754	5999	27883, 3	42204, 6	✓	GREY	NONE	SAND	NO CLAMS
10	VV	14:45	152	150	1834	2791	6000	27883, 3	42204, 5	✓	GREY	NONE	SAND	NO CLAMS
11	VV	14:55	152	151	1828	2786	6001	27883, 3	42204, 6	✓	GREY	NONE	SAND	[illegible]
12	VV	15:03	151	150	1827	2783	5996	27883, 3	42204, 5	✓	GREY	NONE	SAND	[illegible]

40 grams of Compsomyax

Collected

Color: Grey Green Tan Brown Black
Odor: None Natural Petroleum H2S
Type: Clay Silt Sand Gravel

STATION LOG

Station: ALT04-B-R **Date:** 4-MAY-1989 **Survey:** PSDDA II AK

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 621	664	734	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type	
1	VV	1521	141	141	1684	2277	5432	27882.0	42203.8	✓	GREY	NONE	SANDY SILT	NO CLAMS
2	VV	1528	141	141	1701	2275	5428	27881.9	42203.9	✓	GREY	NONE	SANDY SILT	NO CLAMS
3	VV	1537	142	141	1675	2287	—	27881.9	42203.9	✓	GREY	NONE	CLAYEY SILT	NO CLAMS
4	VV	1549	142	140	1676	2268	5433	27882.0	42203.7	✓	GREY	NONE	CLAYEY SILT	NO CLAMS
5	VV	1552	142	143	1681	2274	5442	27882.0	42203.8	✓	GREY	NONE	CLAYEY SILT	NO CLAMS
6	VV	1559	142	143	1705	2297	5441	27881.9	42203.9	✓	GREY	NONE	CLAYEY SILT	1 MED CLAM
7	VV	1608	142	142	1701	2279	5430	27881.9	42203.9	✓	GREY	NONE	CLAYEY SILT	NO CLAMS
8	VV	1617	142	141	1686	2270	5428	27882.0	42203.9	✓	GREY	NONE	CLAYEY SILT	NO CLAMS
9	VV	1624	143	141	1698	2289	5435	27881.9	42203.8	✓	GREY	NONE	CLAYEY SILT	NO CLAMS
10	VV	1632	142	141	1689	2287	5450	27881.9	42203.9	✓	GREY	NONE	CLAYEY SILT	NO CLAMS
11	VV	1635	142	141	1699	2296	5452	27881.9	42203.9	✓	GREY	NONE	CLAYEY SILT	NO CLAMS
12	VV	1644	143	141	1714	2285	5426	27881.9	42203.9	✓	GREY	NONE	SANDY SILT	NO CLAMS
						THIS CONCLUDED			ALT04-B		RED			
						AND PSDDA II SAMPLING								

Color: Grey Green Tan Brown Black
Odor: None Natural Petroleum H2S
Type: Clay Silt Sand Gravel

70g of Compsomyax Hectod