PTI

ENVIRONMENTAL SERVICES

Puget Sound Dredged Disposal Analysis

BASELINE SURVEY OF PHASE II DISPOSAL SITES

APPENDIX E
Bellingham Bay Station Logs

For

Washington Department of Ecology
Olympia, Washington

June 1989

Ecology pub. no. 89-09-004e

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 E

BELLINGHAM BAY STATION LOGS

I - Infauna

STATION LOG

Station: BBTØ9-I Date: 14 April 89 Survey: BODA II Bellingham

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	844	944	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type
1	BX	1212	29.5	29	7042	5592	4313	28654.4	42407.4	14	Grey/Brown	NONE	Mud
2	BX	1226	29.5	29	7036	5590	4309	28654.4	42407.4	14	"	"	"
~~3~~	~~BX~~	~~1239~~	~~29.5~~	~~29~~	~~7049~~	~~5594~~	~~4319~~	~~28654.3~~	~~42407.4~~				
3	BX	1244	30	29	7052	5588	4316	28654.3	42407.3	13	"	"	"
4	BX	1255	29.5	29	7037	5590	4310	28654.3	42407.4	15	"	"	"
5	BX	1304	30	29	7047	5582	4309	28654.3	42407.3	13	"	"	"

0 wts

CORE NOT TAKEN THIS TRIP

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

I-Inferior

STATION LOG

Station: BBT08-I Date: 14 April 1989 Survey: PSDDA II - Bellingham

Outs

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	844	944	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type
1	BX	1312	30	30	6864	5352	4053	28653.7	42408.2	15	Grey	None	MUD
2	BX	1321	30	29	6859	5352	4051	28653.7	42408.2	14	"	"	"
3	BX	1330	30	30	6851	5340	4038	28653.7	42408.2	15	"	"	"
4	BX	1339	30	29	6850	5345	4041	28653.6	42408.2	13	"	"	"
5	BX	1348	30	30	6857	5358	4054	28653.6	42408.1	13	"	"	"

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

I-Infauna

STATION LOG

Station: BBTØ7-I Date: 14 April 1989 Survey: PSDDA II - Bellingham

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	844	944	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type
1	BX	1406	30	30	6695	5145	3817	28653.1	42408.8	15	Grey	None	Mud
2	BX	1415	30	30	6686	5145	3813	28653.1	42408.9	15	"	"	"
3	BX	1423	30	30	6695	5146	3816	28653.0	42408.8	15	"	"	"
4	BX	1432	30	30	6703	5142	3820	28653.1	42408.8	17	"	"	"
5	BX	1439	30	30	6696	5143	3816	28653.0	42408.8	15	"	"	"

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

STATION LOG

Station: BBBØ3-I Date: 17-APRIL-89 Survey: PSDDA II-BELLINGHAM.

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	844	944	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type
1	SX	09:08	26	26	8937	3353	4792	28631.8	42407.1	13	GREY	NONE	CLAYEY SILT
2	SX	09:30	26	26	8929	3352	4785	28631.9	42407.2	11	GREY	NONE	"
3	SX	09:40	26	26	8946	3362	4802	28631.7	42407.1	13	GREY	minor H_2S	" → TRACE SIL
4	SX	09:50	26	26	8941	3359	4797	28631.9	42407.1	17	GREY	NONE	"
5	SX	10:02	26	26	8944	3365	4806	28631	42407.	14	GREY	TRACE	"

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

STATION LOG

Station: BBB 02-I Date: 17-April-89 Survey: PSDDA II - Bellingham.

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	944	944	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type	
1	SX	10:30	35.5	37	5138	3026	1047	28645.9	42417.4	19	GREY	NONE	C	CLAYEY SILT
2	SX	10:40	36	35	5139	3028	1039	28646.0	42417.3	19	GREY	NONE	"	
3	SX	10:50	36	36	5145	3018	1044	28646.0	42417.4	17	GREY	"	"	
4	SX	11:02	36	36	5157	3014	1048	28645.9	42417.4	16	GREY	NONE	"	
5	SX	11:12	36.5	36	5146	3010	1045	28645.9	42417.3	13	GREY	NONE	"	

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

STATION LOG

Station: BBT 12 Date: 17-APRIL-1989 Survey: PSDDA II - BELLINGHAM

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	844	944	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type	
1	SX	11:28	34	34	5184	3095 ~~1165~~	1165	28646.5	42417.0	10	GREY WITAN	NONE	←	CLAYEY SILT
2	SX	11:41	35	35	5196	3096	1166	28646.3	42417.0	6			→	REJECT
2A	SX	11:51	34	34	5192	3113	1167	28646.4	42416.9	10	GREY	NONE		CLAYEY (TOFU-LIKE)
3	SX	12:01	35	35	5194	3114	1177	28646.5	42416.9	32	BLACK	WORMS H2S	SILT	
4	SX	12:25	34	34	5202	3103	1174	28646.4	42416.9	12	GREY	NONE	CLAYEY w/ silt	
5	SX	12:36	34	34	5187	3113	1168	28646.5	42416.9	14	"	"	"	

ADDED WT.

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

STATION LOG

Station: BBT 11 Date: 17-APRIL-1989 Survey: PSDDA II BELLINGHAM.

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	844	944	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type
1	SX	13:23	32.5	32	5310	3253	1419	28647.1	42416.1	18	GREY	NONE	CLAYEY SILT
2	SX	13:35	32	32	5291	3255	1403	28647.1	42416.1	19	GREY	NONE	SILTY CLAY
3	SX	13:45	33	32	5299	3268	1423	28647.2	42416.1	19	GREY	NONE	CLAY W/SILT
4	SX	14:00	32.5	32	5293	3268	1415	28647.2	42416.1	20	GREY	NONE	CLAYEY SILT
5	SX	14:16	32.5	32	5292	3269	1412	28647.0	42416.1	19	GREY	NONE	CLAYEY SILT

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

STATION LOG

Station: BBT 10 Date: 17-APRIL-1987 Survey: PSDDA II BELLINGHAM.

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	844	944	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type
1	SX	14:34	32	31	5417	3411	1657	28647.5	42415.3	23	GREY	NONE	SILTY CLAY
					TALING	WTS	OFF	OF	SWTAR				
2	SX	14:48	32	32	—	3434	1659	28647.8	42415.4	14	GREY	NONE	SILTY CLAY
3	SX	15:03	32	32	5410	3428	1660	28647.7	42415.3	14	GREY	NONE	CLAYEY SILT
4	SX	15:19	31	32	5416	3435	1673	28647.7	42415.3	15	GREY	NONE	CLAYEY SILT
5	SX	15:26	31	32	5423	3431	1678	28647.6	42415.3	13	GREY	NONE	CLAYEY SILT

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

STATION LOG

Station: BBT 04 Date: 17-APRIL-1989 Survey: PSDDA II BELLINGHAM

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	844	944	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type
1	SX	15:52	30	29	5148	4931	2654	28656.0	42413.7	17	GREY	NONE	SILTY CLAY
2	SX	16:05	30	29	5143	4919	2640	28656.0	42413.7	16	GREY	NONE	SILTY CLAY
3	SX	16:14	30	29	5144	4923	2641	28656.0	42413.7	17	GREY BLUE	H_2S	CLAYEY SILT
4	SX	16:24	30	29	5146	4921	2645	28656.1	42413.7	17	GREY	NONE	SILTY CLAY
5	SX	16:34	30	29	5146	4922	2650	28656.1	42413.8	16	GREY	NONE	SILTY CLAY

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

STATION LOG

Station: 3BT05-I Date: APRIL 18 1989 Survey: PSDDA II BELLINGHAM

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	844	944	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type
1	SX	0840	28	28	4946	5131	2701	28657.5	42414.2				
					↑ NO GOOD	PIN WAS	NOT	TAKEN	OUT				
1A	SX	0848	28	28	4947	5142	2716	28657.6	42414.2	14	GREY	NONE	CLAYEY SILT
2	SX	0858	28	28	4952	5131	2704	28657.3	42414.1	15	GREY	NONE	SILTY CLAY
3	SX	0908	28	28	4950	5131	2704	28657.4	42414.1	15	GREY	NONE	SILTY CLAY
4	SX	0924	28	27	4947	5133	2701	28657.4	42414.1	15	GREY	NONE	CLAYEY SILT
5	SX	0932	28	27	4953	5130	2704	28657.4	42414.2	14	GREY	NONE	CLAYEY SILT

EELPOUT IN THIS →

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

STATION LOG

Station: BBT06 Date: 28-APRIL-1987 Survey: PSDDA II BELLINGHAM

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	844	944	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type
1	SX	09:27	29.5	26	4758	5358	2798	28658.9	42414.5	14	GREY	NONE	CLAYEY SILT
2	SX	09:52	27	26	4748	5355	2792	28657.1	42414.6	16	GREY	NONE	~~CLAYEY SILT~~ SILTY CLAY
3	SX	10:32	27	26	4755	5362	2798	28669.1	42414.6	13.5	GREY	NONE	SILTY CLAY
4	SX	10:42	27	26	4749	5366	2800	28659.1	42414.6	13	GREY	NONE	SILTY CLAY
5	SX	10:53	27	26	4742	5363	2794	28659.0	42414.6	14	GREY	NONE	SILTY CLAY

10:10 BOARDED BY C.G.

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

STATION LOG

Station: BBB01 Date: 18-APRIL-1989 Survey: PSDDA II BELLINGHAM

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	844	944	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type
1	SX	11:16	25	20	3203	—	1227	28654.6	42422.0	9			
					REJECT	INSUFF		PENETRATION					
1A	SX	11:25	20.5	20	3191	—	1232	28654.7	42422.0	18	BLACK GRY	FAINT H_2S	SILT
2	SX	11:36	20.5	20	3205	—	1222	28664.6	42422.0	17	GREY BLACK	NONE	SILT
3	SX	11:44	20	20	3212	—	1211	28654.7	42422.0	16	GREY	NONE	CLAYEY SILT
4	SX	11:54	20	20	~~[illegible]~~ 3195	—	~~[illegible]~~ 1235	28654.8	42422.0	23	GREY	NONE	SILT
~~5~~	~~SX~~	~~12:07~~	~~20~~	~~20~~									
5	SX	12:09	20	20	3200	—	1229	28654.7	42422.0	20	GREY	NONE	SILT

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

STATION LOG

Station: BBT 1.0 BIACC **Date:** 18-APRIL-1989 **Survey:** PSDPA ST BCC

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	844	944	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type
1	VV	13:35	31	31	5415	3427	1662	28647.7	42415.3	?	GREY	NONE	SILT
2	VV	13:46	31	31	5408	3440	1664	28647.8	42415.3	?	GRE	NONE	SILT
3	VV	13:56	31	31	5410	3442	1666	28647.7	42415.3	?	GREY	NONE	SILT
4	VV	14:02	31	31	5417	3427	1661	28647.7	42415.4	?	GREY	NONE	SILT
5	VV	14:11	31	31	5421	3422	1661	28647.7	42415.3	?	GREY	NONE	SILT
6	VV	14:20	31	31	—	3446	1668	28647.8	42415.3	?	GREY	NONE	SILT
7	VV	14:29	31	31	—	3434	1660	28647.6	42415.3	?	GREY	NONE	SILT
8	VV	14:36	31	31	—	3420	1662	28647.7	42415.3	?	GREY	SLIGHT H_2S	SILT
9	VV	14:46	31	31	5401	3438	1659	28647.8	42415.4	?	GREY	NONE	SILT
10	VV	14:55	31	31	5413	3422	1661	28647.8	42415.3	2	GREY	SLIGHT H_2S	SILT
11	VV	15:42	31	31	5405	3438	1665	28647.8	42415.3	2	GREY	NONE	SILT
12	VV	15:07	31	31			16	28647.8	42415.3	?	DID	NOT	TRIP
12A	VV		31	31	5402	3430	1656	28647.8	42415.3	?	GREY	?	?

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

STATION LOG

Station: BBT02-BIOACC **Date:** 18-APRIL-1989 **Survey:** PSDDA II Bellingham

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 62Y	84Y	94U	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type
1	VV	15:37	31.5	31	7096	3512	3276	28642.9	42410.2	?	GREY	NONE	SILT
2	VV	15:43	31	31	7110	3522	3292	28642.9	42410.2	?	GREY	NONE	SILT
3	VV	15:47	31.5	31	7097	3518	3276	28642.9	42410.2	?	GRE	NONE	SILT
4	VV	15:52	31.5	31	7109	3523	3289	28643.0	42410.3	?	GREY	NONE	SILT
5	VV	15:55	32	31	7103	3513	3279	28642.9	42410.2	?	GREY	NONE	SILT
6	VV	16:00	32	31	7113	3515	3290	28642.9	42410.2	?	GREY	NONE	SILT
7	VV	16:05	32	31	7103	3516	3280	28642.9	42410.2	?	GREY	NONE	SILT
8	VV	16:09	32	31	7106	3517	3283	28642.9	42410.2	?	GREY	NONE	SILT
9	VV	16:15	32	31	7107	3511	3277	28643.0	42410.3	?	GREY	NONE	SILT
10	VV	16:21	32	31	7103	3519	3282	28642.9	42410.2	?	GREY	NONE	SILT
11	VV	16:30	32	31	7112	3510	3285	28642.9	42410.2	?	GREY	NONE	SILT
12	VV	16:37	32	31	7130	3532	3311	28642.9	42410.1	?	GREY	"	"
						480	grams	collected	for	ENTIRE	~~SAMPL~~	BBT02	

VAN VEEN WAS NEAR OR FULL ON ALL STA'S

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

STATION LOG

Station: BBT 01 **Date:** 18-APRIL-1989 **Survey:** PSDDA-II BELLINGHAM.

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	844	944	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type
1	VV	16:52	32	31	6872	3628	3130	28644.4	42410.6	?	GREY	NONE	SILT
2	VV	16:59	32	31	6871	3623	3127	28644.4	42410.6	?	GREY	NONE	SILT
3	VV	17:05	32	32	6875	3629	3133	28644.4	42410.6	?	GREY	NONE	SILT
4	VV	17:10	32	32	6871	3613	3122	28644.2	42410.6	?	GREY	SLIGHT H_2S	SILT
5	VV	17:17	32	31	6875	3651	3156	28644.4	42410.5	?	GREY	NONE	SILT
6	VV	17:24	32	31	6877	3626	3133	28644.3	42410.4	?	GREY	NONE	SILT
7	VV	17:28	32	31	6882	3618	3135	28644.3	42410.6	?	GREY	NONE	SILT
8	VV	17:32	32	31	6879	3623	3135	28644.4	42410.9	?	GREY	NONE	SILT
9	VV	17:37	32	32	6876	3641	3138	28644.4	42410.5	?	GREY	NONE	SILT
10	VV	17:43	32	31	6874	3617	3126	28644.2	42410.5	?	GREY	NONE	SILT
11	VV	17:49	32.5	32	6866	3636	3128	28644.5	42410.6	?	GREY	NONE	SILT
12	VV	17:54	32	32	6866	3633	3126	28644.4	42410.6	?			

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

1,130 G OF ORGANISMS
COMPSOMYAX.

VAN VEEN APPARENTLY FULL

STATION LOG

Station: BBB03 BIOACCUM **Date:** 19-APRIL-1987 **Survey:** PSDDA BB II

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	824	~~844~~ 660	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type
1	VV	08:49	26	26	8942	3350	—	42407.8	28631.2	—	GREY	NONE	SILT
2	VV	08:55	25.5	26	8943	3360	—	42407.8	28631.1	—	GREY	NONE	SILT
3	VV	09:05	26	25	8949	3358	4801	42407.8	28631.1	—	GREY	NONE	CLAYEY SILT
4	VV	09:12	26	26	8946	3359	4799	42407.7	28631.1	—	GREY	NONE	SILT
5	VV	09:17	26	26	8947	3371	4803	42407.8	28631.1	—	GREY	NONE	SILT
6	VV	09:22	26	25	8941	3356	4794	42407.7	28631.1	—	GREY	NONE	SILT
7	VV	09:27	26	25	8938	3351	8938	42407.7	28631.1	—	GREY	NONE	SILT
8	VV	09:32	26	25	~~89~~ 8929	—	4791	42407.8	28631.1	—	GREY	NONE	SILT
9	VV	09:39	26	25	8948	3364	4804	42407.7	28631.1	—	GREY	NONE	SILT
10	VV	09:47	26	25	8947	3359	4803	42407.8	28631.1	—	GREY	NONE	SILT
11	VV	09:53	26	25	8942	3359	4799	42407.8	28631.1	—	GREY	NONE	SILT
12	VV	09:59	26	25	8945	3370	4805	42407.8	28631.1	—	GREY	NONE	SILT
					1 80g	ORGANISM FOR ENTIRE STATION							
						STATION COMPLETED							

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

STATION LOG

Station: BBT 03 - BROACC **Date:** 19-APRIL-1985 **Survey:** PSDDA II - BELLINGHAM

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	844	664	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type
1	VV	10:20	31	29	7329	3419	—	28641.6	42409.8	—	GREY	NONE	SILT
2	VV	10:27	31	29	7347	3426	3458	28641.5	42409.8	—	GREY	NONE	SILT
3	VV	10:33	31	29	7345	3436	3462	28641.6	42409.7	—	GREY	NONE	SILT
4	VV	10:38	31	29	7350	3423	3460	28641.5	42409.8	—	GREY	NONE	SILT
5	VV	10:43	31	29	7343	3427	3457	28641.6	42409.8	—	GREY	NONE	SILT
6	VV	10:48	30.5	29	7356	3420	3461	28641.5	42409.8	—	GREY	NONE	SILT
7	VV	10:56	30	29	7347	3426	3461	28641.5	42409.8	—	GREY	NONE	SILT
8	VV	11:02	30	29	7353	3427	3465	28641.5	42409.7	—	GREY	NONE	SILT
9	VV	11:10	30.5	29	7342	3423	3455	28641.5	42409.8	—	GREY	NONE	SILT
10	VV	11:15	31	29	7359	3425	3471	28641.5	42409.7	—	GREY	NONE	SILT
11	VV	11:22	30	29	7351	3433	3464	28641.6	42409.8	—	GREY	H_2S	SILT
12	VV	11:29	30	29	7347	3432	3462	28641.6	42409.8	—	GREY	NONE	SILT

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

960 grams of Compsomyax (TOTAL)

STATION LOG

Station: BBB02 - BIACC Date: 19-APRIL 1985 Survey: PSDDA II - BELLINGHAM.

	Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	844	144	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type
	1	VV	12:14	35.5	35	5147	3021	1053	28646.0	42417.3	—	DK GREY	NONE	SILT
DC	2	VV	12:19	35.5	35	5132	3029	1039	28646.0	42417.4	—	DK. GREY	NONE	SILT
SW20	3	VV	12:24	36	35	5138	3023	1043	28646.1	42417.4	—	DK GREY	NONE	SILT
EW	4	VV	12:29	36	35	5135	3025	1038	28646.1	42417.4	—	DK GREY	SLIGHT H_2S	SILT
E25	5	VV	12:35	36	35	5127	3027	1034	28646.1	42417.4	—	DK GREY	NONE	SILT
SW25	6	VV	12:39	36	36	5141	3023	1047	28646.1	42417.4	—	DK GREY	SLIGHT H_2S	SILT
	7	VV	12:44	36	35	5140	3016	1048	28645.9	42417.4	—	DK GREY	NONE	SILT
	8	VV	12:49	36	35	5134	3022	1038	28646.0	42417.4	—	DK. GREY	NONE	SILT
	9	VV	12:53	36	35	5130	3036	1039	28646.0	42417.5	—	DK GREY	SLIGHT H_2S	SILT
	10	VV	12:59	36	35	5114	3038	1020	28646.1	42417.4	—	DK. GREY	NONE	SILT
	11	VV	13:05	36	35	5114	3034	1016	28646.1	42417.4	—	GREY	NONE	SILT
	~~12~~	~~VV~~	~~13:06~~	3										
	12	VV	13:11	36	35	5133	3013	1030	28646.0	42417.4	—	GREY	NONE	SILT

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

NO COMPSOMYAX FOUND HERE

STATION LOG

Station: BB12 BIOACCUMULATION **Date:** 19-APR-1989 **Survey:** PSDDA II BELLINGHAM

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	844	684	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type
1	VV	13:23	34	33	—	—	—	28646.5	42417.1	DID NOT	TRIP		
1A	VV	13:27	34	33	5183	3127	1173	28646.5	42416.9	—	GREY	NONE	SILTY CLAY
2	VV	13:34	34	33	5185	3102	1165	28646.5	42416.9	—	GREY	SLIGHT H_2S	SILTY CLAY
3	VV	13:38	34	33	5193	3110	1180	28646.4	42416.9	—	BLACK	H_2S	SILTY CLAY
4	VV	13:44	34	33	5182	3115	1164	28646.4	42416.9	—	GREY	SLIGHT H_2S	SILTY CLAY
5	VV	13:49	34	33	5181	3102	1159	28646.4	42417.0	—	GREY	H_2S	SILTY CLAY
6	VV	13:55	34	33	5199	3102	1174	28646.4	42416.9	—	GREY	NONE	SILTY CLAY
7	VV	14:00	34	33	5195	3110	1184	28646.4	42416.9	—	GREY	H_2S	SILT
8	VV	14:05	35	34	5182	3099	1163	28646.4	42417.0		GREY	H_2S	GRAVEL/SILT
9	VV	14:09	35	34	5183	3094	1160	28646.4	42417.0		DK GREY	H_2S	SILT
10	VV	14:16	34	35	5189	3110	—	28646.6	42417.0	—	TO	SMALL	REJECT
10A	VV	14:21	34	34	5189	3105	1170	28646.5	42417.0	—	GREY	NONE	CLAY
11	VV	14:28	34.5	33	5196	3095	1171	28646.4	42416.9	—	DK GREY	NONE	SILT
12	VV	14:32	35	34	5188	3098	1163	28646.4	42417.0	—	DK GREY	NONE	SILT

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

STATION LOG

Station: BBT11 - BIOACCUM. **Date:** 19-APRIL-1985 **Survey:** PSDDA II BELLINGHAM

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	644	684	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type
1	VV	14:54	33	32	5298	3262	1418	28647.1	42416.1	—	DK. GREY	NONE	SILT
2	VV	15:01	33	32	5292	3254	1406	28647.1	42416.1	—	GREY	NONE	CLAYEY SILT

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

STATION LOG

Station: BBBØ1 - BIOACCUMULATION Date: _____ Survey: _____

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	844	664	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type
1	VV	15:21	21.5	21	3205	—	1230	28654.7	42422.0	—	GREY	SLIGHT H_2S	CLAYEY SILT
2	VV	15:27	22	21	3194	—	1234	28654.6	42422.0	—	GREY	NONE	SILT
3	VV	15:33	21.5	21	3205	—	1218	28654.6	42422.0	—	GREY	NONE	SILT
4	VV	15:38	21	21	3209	—	1223	28654.5	42421.9	—	GREY	NONE	CLAYEY SILT
5	VV	15:42	21.5	21	3196	—	1227	28654.6	42422.0	—	GREY	NONE	CLAYEY SILT
6	VV	15:46	21	21	3200	—	1223	28654.6	42422.1	—	GREY	NONE	CLAYEY SILT
7	VV	15:50	21	21.5	3197	—	1238	28654.6	42421.9	—	DK. GREY	NONE	CLAYEY SILT
8	VV	15:55	21.5	21	3213	—	1219	28654.5	42422.0	—	GREY	NONE	CLAYEY SILT
9	VV	15:59	21.5	21	3201	—	1222	28654.5	42422.0	—	DK. GREY	NONE	SILT
10	VV	16:02	21	21	3196	—	1230	28654.7	42422.0	—	GREY	NONE	CLAYEY SILT
11	VV	16:09	21	21	3195	—	1228	28654.6	42422.0	—	GREY	NONE	CLAYEY SILT
12	VV	16:14	21	21		—		28654.7	42422.0	—	GREY	NONE	CLAYEY SILT
							80 g of Compsomyax Collected						

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

STATION LOG

Station: ~~EST~~ BBB01 **Date:** 19-APR-1988 **Survey:** DSDDA II BB

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	844	664	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type
1	VV	1640	26	25				28664,7	42409,7	—	BEIGE	none	CLAY
~~2~~	~~VV~~	~~1710~~											

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

NO COMPOSITION OBSERVED
SEDIMENT CLAY

STATION LOG

Station: TEST BEN 01 **Date:** 19-APRIL-1989 **Survey:** PSDDA II BELLINGHAM

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	644	664	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type
1	VV	16:53	31	31				BAD GRAB PUT BOT 1 CLAM 1.					
2	VV	17:02	31	31				28647.8	42402.1	—	GREY	H_2S	SILT ← MACOMA IN THIS ONE.
3	VV	17:16	32	31				28647.6	42401.9	—	GREY	NONE	SILT → 2 COMPSOMYAP HERE. (120 g)

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

STATION LOG

Station: BBT11-BIOAC Date: 4-20-89 Survey: PSDDA BB II

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	844	664	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type
1	VV	08:07	32	31	5280	—	1426	—	—	—	GREY	NONE	SILT
2	VV	08:15	32.5	32	5301	—	1419	28647.0	42416.1	—	GREY	NONE	CLAYEY SILT
3	VV	08:22	32	32	5304	—	1427	28647.1	42416.1	—	DK GREY	NONE	CLAYEY SILT
4	VV	08:31	33	31	5293	—	1414	28647.1	42416.1	—	DK GREY	NONE	CLAYEY SILT
5	VV	08:38	33	31	5293	—	1420	28647.1	42416.0	—	GREY	NONE	SILT
6	VV	08:46	33	31	5290	—	1405	28647.1	42416.0	—	GREY	NONE	CLAYEY SILT
7	VV	08:56	33	31	5306	—	1421	28647.1	42416.2	—	GREY	NONE	SILT
8	VV	09:02	33	31	5317	—	1427	28647.0	42416.0	—	BLACK	H_2S	SILT
9	VV	09:07	32	31	5302	—	1415	28647.1	42416.1	—	GREY	NONE	SILT
10	VV	09:19	33	31	5298	—	1421	28647.1	42416.1	—	GREY	NONE	CLAYEY SILT
11	VV	09:26	32	31	5298	—	1413	28647.1	42416.0	—	GREY	NONE	SILTY CLAY
12	VV	09:31	33	31	5275	—	1397	28647.1	42416.2	—	DK GREY	NONE	CLAYEY SILT
						2 COMPOSITES		COLLECTED					
						160 GRAMS		OF CLAMS					

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

STATION LOG

Station: BBB01-BIOACC **Date:** 20-APR-1989 **Survey:** PSDDA II - BELLINGHAM

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	644	—	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type
1	VV	10:29	22	—	3191	1233		28654.7	42422.0		BLACK	NONE	SILTY CLAY
2	VV	10:35	20	20	3203	1225		28654.6	42422.0	—	BLACK	NONE	SILTY CLAY
3	VV	10:41	21	20	3204	1221		28654.6	42422.0	—	BLACK	H_2S	SILTY CLAY
4	VV	10:47	21	20	3200	1222		28654.6	42422.1	—	GREY	NONE	SILTY CLAY
5	VV	10:52	20	20	3192	1233		28654.7	42422.1	—	BLACK	NONE	SILTY CLAY
6	VV	10:56	20	20	3204	1231		28654.6	42422.0	—	GREY	NONE	SILTY CLAY
7	VV	11:00	20	20	3187	1237		28654.7	42422.0	—	GREY	NONE	SILTY CLAY
8	VV	11:04	20	20	3199	1221		28654.6	42422.0	—	GREY	NONE	SILTY CLAY
9	VV	11:09	21	20	3202	1217		28654.6	42422.0	—	GREY	NONE	SILTY CLAY
10	VV	11:13	20	20	3190	1243		28654.7	42422.0	—	BLACK	NONE	SILTY CLAY
11	VV	11:19	20	20	3176	1250		28654.8	42422.0	—	GREY	NONE	SILTY CLAY
12	VV	11:24	21	20	3190	1236		28654.7	42422.0	—	GREY	NONE	SILTY CLAY
13	VV	11:28	21	20	3201	1223		28654.8	42422.1	—	GREY	NONE	SILTY CLAY
14	VV	11:31	21	20	3203	1229		28654.3	42422.2	—	GREY	H_2S	SILTY CLAY
15	VV	11:35	21	20				28654.6	42422.0	—	GREY	NONE	SILTY CLAY

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

STATION LOG

Station: BBB01-BDACE (cont) **Date:** 20-APRIL-1989 **Survey:** PSDDA II - BELLINGHAM

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	664	—	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type
16	VV	11:43	21	20	3213	1214	—	28651.7	42422.2	—	GREY	NONE	CLAY & SILT
17	VV	11:42	21	20	3198	1228	—	—	—	—	GREY	NONE	CLAYEY SILT

160 Grams of Compsomyax Collected

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

STATION LOG

Station: BBT64-BIOACC **Date:** 20-APR-1989 **Survey:** PSDDA II BELLINGHAM

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	664	—	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type
1	VV	15:02	30	29	5149	2649		28656.0	42413.7	–	GREY	NONE	CLAY-SILT
2	VV	15:04	30	29	5153	2650		28656.0	42413.7	—	GREY	NON	CLAYEY SILT
3	VV	15:07	30	29	5141	2648		28656.0	42413.8	—	GREY	NONE	CLAYEY SILT
4	VV	15:10	30	29	5155	2658		28656.0	42413.7	—	GREY	NONE	CLAYEY SILT
5	VV	15:13	30	29	5164	2666		28656.0	42413.7	—	DK GREY	NONE	CLAYEY SILT
6	VV	15:20	30	29	5135	2633		28656.0	42413.8	—	BLACK	NONE	CLAYEY SILT
7	VV	15:23	29	29	5145	2653		28656.1	42413.7	—	BLACK	NONE	CLAYEY SILT
8	VV	15:26	29	29	5158	2662		28656.0	42413.7	—	BLACK	NONE	CLAYEY SILT
9	VV	15:32	29	29	5129	2639		28656.1	42413.8	—	BLACK	NONE	SILT
10	VV	15:35	29	29	5128	2643		28656.2	42413.8	—	GREY	NONE	SILT
11	VV	15:38	29	29	5137	2647		28656.2	42413.8	–	GREY	NONE	CLAYEY SILT
12	VV	15:40	29	29	5147	2659		28656.1	42413.6	–	GREY	NONE	SILT
							1430 g of Composite						

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

STATION LOG

Station: BBT65-BIOACC **Date:** 20-APRIL-1989 **Survey:** PSDDA II BELLINGH

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	664	—	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type
1	VV	16:20	28	28	4956	2715	—	28657.5	42414.1	—	GREY	NONE	SILTY CLAY
2	VV	16:05	28.5	28	4957	2718	—	28657.7	42414.1	—	GREY	NONE	SILTY CLAY
3	VV	16:09	28	28	4959	2720	—	28657.5	42414.1	—	GREY	NONE	SILTY CLAY
4	VV	16:14	30	28	4946	2715	—	28657.6	42414.2	—	GREY	NONE	SILTY CLAY
5	VV	16:19	29	28	4962	2711	—	28657.5	42414.2	—	GREY	NONE	SILTY CLAY
6	VV	16:23	29	28	4956	2706	—	28657.5	42414.2		GREY	NONE	SILTY CLAY
7	VV	16:27	29	28	4949	2714	—	28657.6	42414.2	—	GREY	NONE	SILTY CLAY
8	VV	16:31	29	28	4946	2699	—	28657.5	42414.2	—	GREY	NONE	SILTY CLAY
9	VV	16:36	29	28	4945	2693	—	28657.5	42414.1	—	GREY	NONE	SILTY CLAY
10	VV	16:38	29	28	4963	2731	—	28657.6	42414.1	—	GREY	NONE	CLAY & SILT
11	VV	16:42	29	28	4939	2694	—	28657.4	42414.2	—	GREY	NONE	SILTY CLAY
12	VV	18:46	29	28	4948	2708	—	28657.5	42414.2	—	GREY	NONE	SILTY CLAY
					750g of COMPSOMYAY COLLECTED								

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

STATION LOG

Station: BBT06-BIOACC **Date:** 20-APRIL-1989 **Survey:** PSDDA II BIOACCUMULATION

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	664	—	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type
1	VV	17:02	28	28	4752	2816		28659.1	42414.6	—	GREY	NONE	SILTY CLAY
2	VV	17:07	28	28	4743	2798		28659.2	42414.7	—	GREY	NONE	SILTY CLAY
~~3 VV 17:11~~													
3	VV	17:12	28	28	4748	2809		28659.1	42414.5	—	GREY	NONE	SILTY CLAY
4	VV	17:19	28	29	4754	2800		28659.2	42414.6	—	GREY	NONE	SILTY CLAY
5	VV	17:26	29	28	4740	2801		28659.2	42414.6	—	GREY	NONE	SILTY CLAY
6	VV	17:31	29	28	4737	2793		28659.1	42414.7	—	GREY	NONE	SILTY CLAY
7	VV	17:36	28	27	4728	2796		28659.2	42414.4	—	GREY	NONE	SILTY CLAY
8	VV	17:39	28	28	4741	2797		28659.1	42414.7	—	GREY	NONE	SILTY CLAY
9	VV	17:43	28	28	4735	2796		28659.3	42414.7	—	GREY	NONE	SILTY CLAY
10	VV	17:47	28	28	4756	2811		28659.2	42414.6	—	GREY	NONE	SILTY CLAY
11	VV	17:51	28	28	4736	2796		28659.1	42414.7	—	GREY	NONE	SILTY CLAY
12	VV	17:54	28	28	4728	2798		28659.2	42414.6	—	GREY	NONE	SILTY CLAY
							330	GRAMS	OF				

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

COMPSOMYAX

STATION LOG

Station: BBB04-BIOACCUM. **Date:** 21-APRIL-1989 **Survey:** PSDDA II BELLINGHAM.

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	664	—	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type
1	VV	07:51	30	29	8684	5488	—	28647.7	42402.8	—	GREY	NONE	SILT
2	VV	07:57	30	29	8684	5477	—	28647.7	42402.9	—	GREY	NONE	SILTY CLAY
3	VV	08:02	29	29	8685	5480	—	28647.5	42402.8	—	GREY	NONE	CLAYEY SILT
4	VV	08:06	29	29	8696	5482	—	28647.7	42402.9	—	GREY	NONE	CLAYEY SILT
5	VV	08:08	29	29	8678	5489	—	28647.6	42402.8	—	GREY	NONE	CLAYEY SILT
6	VV	08:12	29.5	29	8679	5479	—	28647.6	42402.9	—	GREY	NONE	CLAYEY SILT
7	VV	08:16	29	29	8672	5471	—	28647.8	42403.0	—	GREY	NONE	CLAYEY SILT
8	VV	08:18	29	29	8693	5488	—	28647.5	42402.9	—	GREY	NONE	CLAYEY SILT
9	VV	08:22	29	29	8693	5483	—	28647.7	41402.9	—	GREY	NONE	CLAYEY SILT
10	VV	08:26	29	29	8672	5469	—	28647.7	41403.0	—	GREY	NO	CLAYEY SILT
11	VV	08:28	29	29	DID NOT TRIP -			28647.4	41402.9	—	REJECT		
11A	VV	08:33	30	29	8680	5481	—	28647.7	41402.9	—	GREY	NONE	CLAYEY SILT
12	VV	08:35	29	29	8697	5492	—	28647.5	41402.9	—	GREY	NONE	CLAYEY SILT
13	VV	08:41	29	29	8708	5503	—	28647.6	41402.8	—	GREY	NONE	SILTY CLAY
14	VV	8:47	29	29	8685	5486	—	28647.6	41402.9	—	GREY	NONE	CLAYEY SILT

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

STATION LOG

Station: BBB04 - BIOACC (CONT) **Date:** 4-21-1987 **Survey:** BODA E BELLWOMAN

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	664		Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type
15	VV	08:51	29	29	8675	5476	—	28647.7	42402.9	—	GREY	NONE	CLAYEY SILT
16		08:5	22	27	8697	5490	—	28647.5	42402.8	—	GREY	NONE	CLAYEY SILT

200 grams TOTAL

COMPOSITE COLLECTED

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

STATION LOG

Station: BBT 67 - BIOACCUM. **Date:** 21-APRIL-1989 **Survey:** PSDDA II BELLINGHAM.

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	664.	—	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type
1	VV	09:13	30	29	6700	3825	—	28653.0	42408.7	—	GREY	NONE	CLAYEY SILT
2	VV	09:19	29	29	6698 ~~6735~~	3824 ~~3833~~	—	28653.1	42408.8	—	GREY	NONE	CLAYEY SILT
3	VV	09:25	29	29	6691	3806	—	28652.9	42408.9	—	GREY	NONE	CLAYEY SILT
4	VV	09:27	30	29	6699	3820	—	28653.0	42408.8	—	GREY	NONE	CLAYEY SILT
5	VV	09:31	30	29	6680	3803	—	28653.0	42408.9	—	GREY	NONE	CLAYEY SILT
6	VV	09:33	30	29	6699	3814	—	28653.0	42408.8	—	GREY	NONE	CLAYEY SILT
7	VV	09:38	30	29	6692	3820	—	28653.1	42408.8	—	GREY	NONE	CLAYEY SILT
8	VV	09:40	30	29	6705	3825	—	28653.1	42408.8	—	GREY	NONE	CLAYEY SILT
9	VV	09:46	30	29	6686	3819	—	28653.2	42408.8	—	GREY	NONE	CLAYEY SILT
10	VV	09:48	29	29	6695	3829	—	28653.1	42408.8	—	GREY	NONE	CLAYEY SILT
11	VV	09:51	29	29	6689	3823	—	28653.1	42408.8	—	GREY	NONE	CLAYEY SILT
12	VV	09:56	29	29	6677	3825	—	28653.1	42408.8	—	GREY	NONE	CLAYEY SILT
							700 GRAMS OF COMPSOMYAX COLLECTED						

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

STATION LOG

Station: BB1Ø8 **Date:** 21-APRIL-1989 **Survey:** PSDDA II BELLINGHAM

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	664		Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type
1	VV	10:08	29	28	6853	4058	—	28653.7	42408.1	—	GREY	NONE	CLAYEY SILT
2	VV	10:10	28.5	28	6872	4064	—	28653.7	42408.1	—	GREY	NONE	CLAYEY SILT
3	VV	10:17	29	28	6841	4034	—	28653.6	42408.2	—	GREY	NONE	CLAYEY SILT
4	VV	10:19	29	29	6857	4041	—	28653.5	42408.2	—	GREY	NONE	CLAYEY SILT
5	VV	10:25	29	28	NOT	TRIP		28653.8	42408.2	—	—		
5A	VV	10:27	29	28	6856	4049	—	28653.6	42408.1	—	GREY	NONE	CLAYEY SILT
6	VV	10:29	29	29	6870	4052	—	28653.5	42408.1	—	GREY	NONE	CLAYEY SILT
7	VV	10:35	28	28	6848	4052	—	28653.7	42408.1	—	GREY	NONE	CLAYEY SILT
8	VV	10:38	29	28	6870	4063	—	28653.5	42408.1	—	GREY	NONE	CLAYEY SILT
9	VV	10:40	29	28	6856	4044	—	28653.5	42408.2	—	GREY	NONE	CLAYEY SILT
10	VV	10:43	29	28	6843	4029	—	28653.5	42408.2	—	GREY	NONE	CLAYEY SILT
11	VV	10:47	29	28	6846	4042	—	28653.7	42408.1	—	GREY	NONE	CLAYEY SILT
12	VV	10:49	29	28	6858	4059	—	28653.7	42408.1	—	GREY	NONE	CLAYEY SILT
							830	GRAMS	OF				

COMPSOMYAY COLLECTED

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

STATION LOG

Station: BBT 09-BIOACC. **Date:** 21-APRIL-1989 **Survey:** BSDDA II BELLINGHAM.

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	664	—	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type
1	VV	11:29	30	29	7056	4309	—	28654.1	42407.4	—	GREY	NONE	CLAYEY SILT
2	VV	11:32	28	29	7043	4310	—	28654.3	42407.4	—	GREY	NONE	CLAYEY SILT
3	VV	11:36	28	28	7022	4324	—	28654.2	42407.3	—	GREY	NONE	CLAYEY SILT
4	VV	11:39	28	28	7056	4324		28654.3	42407.3	—	GREY	NONE	SILTY CLAY
5	VV	11:41	28	28	7032	4301		28654.3	42407.4	—	GREY	NONE	SILTY CLAY
6	VV	11:45	28	28	7060	4320		28654.1	42407.3	—	GREY	NONE	CLAYEY SILT
7	VV	11:49	28	28	7053	4317		28654.3	42407.3	—	GREY	NONE	CLAYEY SILT
8	VV	11:53	28	28	7057	4325		28654.3	42407.3	—	GREY	NONE	CLAYEY SILT
9	VV	11:55	28	28	7035	4307		28654.4	42407.4	—	GREY	NONE	CLAYEY SILT
10	VV	11:59	28	28	7063	4325		28654.2	42407.4	—	GREY	NONE	CLAYEY SILT
11	VV	12:03	28	27	7038	4303		28654.3	42407.4	—	GREY	NONE	CLAY
12	VV	12:08	28	28	7048	4313		28654.2	42407.4	—	GREY	NONE	SILTY CLAY
						710	GRAMS	OF	COMPOSITE				

COLLECTED

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

STATION LOG

Station: BBB03-BIOACC **Date:** 21-APRIL-1989 **Survey:** PSDDA II BELLINGHAM.

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	664	—	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type
1	VV	12:37	24	24	8950	4803	—	28631.6	42407.2	—	BLACK	H_2S	SILT
2	VV	12:41	24	24	8957	4796	—	28631.5	42407.2	—	GREY	NONE	SILTY CLAY
3	VV	12:46	24	24	8935	4789	—	28631.6	42407.2	—	GREY	NONE	SILTY CLAY
4	VV	12:50	25	24	8955	4808	—	28631.5	42407.1	—	GREY	NONE	CLAYEY SILT
5	VV	12:52	25	24	8928	4783	—	28631.7	42407.2	—	GREY	NONE	CLAYEY SILT
6	VV	12:59	25	24	8949	4800	—	28631.5	42407.1	—	GREY	H_2S	SILT
7	VV	13:04	25	24	8942	4795	—	28631.6	42407.1	—	GREY	NONE	CLAYEY SILT
8	VV	13:09	25	24	8948	4791	—	28631.5	42407.1	—	GREY	NONE	CLAYEY SILT
9	VV	13:12	25	24	8935	4791	—	28631.7	42407.1	—	GREY	NONE	SILTY CLAY
10	VV	13:16	25	24	TRIPPED EARLY			28631.5	42407.2	—	—		
10A	VV	13:20	25	25	8955	4806	—	28631.5	42407.1	—	GREY	NONE	CLAYEY SILT
11	VV	13:23	25	25	8930	4784	—	28631.7	42407.2	—	GREY	NONE	CLAYEY SILT
12	VV	13:27	25	25	8947	4800	—	28631.5	42407.2				
					NO CLAMS COLLECTED								

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

STATION LOG

Station: BBZ-01 **Date:** 21-APRIL-198 **Survey:** PSDDA II BELLINGHAM

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	664		Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type
1	VV	13:50	30	30				28650.2	42412.2	—	GREY	NONE	CLAYEY SILT
2	VV	13:52	30	30				28650.2	42412.2		GREY	NONE	CLAYEY SILT

2 1 LG 1 MED

240 grams of Compsomyax collected.

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

STATION LOG

Station: BBB84-CHEM **Date:** 24-APRIL-1989 **Survey:** PSDDA II BELLINGHAM

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges			Loran-C LOP1	Loran-C LOP2	Penetr. (cm)	Color	Odor	Type	
					—	664	734							
1	VV	09:26	29	29		5487	5807	28647.7	42402.9	✓	GREY	NONE	SILT	
2	VV	09:40	29	29	NO GOOD			28647.7	42403.0	TOO	FULL			
3A	VV	09:52	27	29	TOO FULL			28647.6	42402.9				—	REMOVING WEIGHTS
2B	VV	10:04	29	29	—	5472	5782	28647.5	42402.9	✓	GREY	NONE	SILT	
3	VV	10:14	29	29	—	5484	5789	28647.6	42402.9	✓	GREY	NONE	SILT	
4	VV	10:28	27	29	—	5464	5781	28647.6	42402.9	✓	GREY	NONE	SILT	
5	VV	10:38	29	29	—	5494	5805	28647.6	42402.9	✓	GREY	NONE	SILT	
6	VV	10:47	29	29	—	5474	5793	28647.6	42402.9	✓	GREY	NONE	SILT	
7	VV	10:56	28	29	—	5473	5808	28647.6	42402.9	✓	GREY	NONE	SILT	

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

STATION LOG

Station: BBP 01 - SEDCHEM **Date:** 24-APRIL-1989 **Survey:** PSDDA II - BELLINGHAM

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges —	664	734	Loran-C LOP1	Loran-C LOP2	Penetr. (cm)	Color	Odor	Type	
1	VV	11:18	30	30	—	2978	3728	28645.7	42411.0	✓	GREY	NONE	SILT	
2	VV	11:31	29	30	—	TOO MUCH SED.		28645.8	42411.0	REJECT				
2A	VV	11:36	30	31	—	2976	3745	28645.8	42411.0	✓	GREY	NONE	SILT	(KEEPING ½)
3	VV	11:44	31	31	—	2999	3743	28645.7	42411.0	✓	GREY	NONE	SILT	(½ keeper)
4	VV	11:51	31	32	—	NO GOOD		28645.7	42411.0	✓	WASHED			
5A	VV	11:59	30	30	—	2987	3745	28645.9	42411.1	✓	GREY	NONE	SILT	GOOD
5	VV	12:10	30	30	—	2988	3752	28645.9	4244.1	✓	GREY	NONE	SILT	GOOD
6	VV	12:27	30	36		NO GOOD		28645.8	42411.1	HAD BEEN DRAGGING				
6A	VV	12:36	30	30	—	2986	3723	28645.6	42411.0	✓	GREY	NONE	SILT	
7	VV	12:45	29	30	—	NO GOOD		28645.9	42411.0	NO GOOD	EMPTY.			
7A	VV	12:52	30	30	—	3008	3750	28645.8	42410.9	✓				

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

STATION LOG

Station: BBP04 **Date:** 24-APRIL-1989 **Survey:** PSDDA II BB

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	3:28			NO GOOD				7		GRAB	COPY		
1A	VV	3:33	29	29	6482			28662.3	42409.7	✓	GREY	NONE	SILT	ONLY ½
2	VV	13:46	29	29	6486	3520	4887	28652.3	42407.7	✓	TAN GREY	NONE	SILT	
3	VV	14:02	29	29	6493	3521	4884	28652.3	42409.7	✓	TAN TOP GREY	NONE	SILT	ALL FINE
4	VV	14:17	29	29	6480	3516	4887	28652.3	42409.7	✓	TAN TOP GREY	NONE	SILT	GOOD
5	VV	14:32	29	29	6470	3502	4884	28652.4	42407.8	✓	TAN TOP GREY	NONE	SILT	ACCEPT
	15:00				DONE W/ BBP04									

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

STATION LOG

Station: BBZ.01 - SEDCORE **Date:** 24-APRIL-1987 **Survey:** PSNPA [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	1459	30	30	REJECT	NO	GOOD	28650.3	42412.3	WASHED			
1A	VV	1504	30	30	5946	2683	4205	28650.3	42412.3	V	TAN GREY	NONE	SILT
2	VV	1522	30	29	REJECT			28650.2	42412.2	NO	GOOD		

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

STATION LOG

Station: BBB02 - SEDCHEM **Date:** 25 APRIL 1987 **Survey:** PSDPA II BELLINGHAM

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	06:34	37	37	5147	1050	3021	28645.9	42417.3	✓	BLACK	NONE	SILT	
2	VV	06:45	37	37	5134	1040	3030	28646.0	42417.4	REJECT TO FULL				
2A	VV	06:53	37	37	REJECT TO FULL			28646.1	42417.3					
2B	VV	06:55	37	37	5145	1047	3021	28646.0	42417.3	✓	GREY ~~BLACK~~	NONE	SILT	
3	VV	07:04	37	37	5129	1030	3023	28645.9	42417.3	✓	GREY	NONE	SILT	FULL
4	VV	07:15	37	37	5145	1046	3016	28646.0	42417.3	EMPTY	--			
4A	VV	07:21	37	37				28646.0	42417.3	✓	GREY	NONE	SILT	1/2
5	VV	07:29	37	37	TOO FULL	REJECT		28646.0	42417.3	—				
5A	VV	07:36	37	37	5131	1037	3028	28646.0	42417.4	✓	GREY	NONE	SILT	1/2
6	VV	07:42	37	37	5128	1047	3038	28646.0	42417.3	✓	GREY	NONE	SILT	FULL
7	VV	07:52	37	37	TOO	FULL		28646.0	42417.4	—				
7A	VV	07:57	37	37	5134	1039	3011	28645.9	42417.3	✓	GREY	NONE	SILT	1/2 GRAB
8	VV	09:03	37	37	5138	1043	3030	28646.0	42417.3	✓	GREY	NONE	SILT	1 GRAB
					08:08	COMPLETE STATION			BBB02		SEDCHEM			

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

STATION LOG

Station: BBP02-C SEDCHAM **Date:** 26-APRIL-1989 **Survey:** PSDDA II BELLINGHAM

Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	664	731	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type	
1	VV	08:21	32	32	5555	1946	3610	28618.3	42414.4	✓	GREY	NO	SILT	[illegible] GRAINS
2	VV	08:29	32	32	5539	1944	3638	28648.5	42414.5	✓	GREY	NONE	SILT	[illegible] GRAINS
3	VV	08:40	32	32	5532	1936	3634	28649.5	42414.5	✓	GREY	NONE	SILT	1½ GRAINS
4	VV	08:49	32	32	5539	—	3633	28648.4	42414.4	✓	GREY	NONE	SILT	2 GRAINS
5	VV	08:55	32	32	5543	1950	3640	28648.5	42414.4	✓	GREY	NONE	SILT	½ GRAIN
			09:00		COMPLETED	STATION	BBP02		CHEMISTRY					

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

STATION LOG

Station: BBZ01-CHEM **Date:** 25-APRIL-1984 **Survey:** PSDQA II - BELLINGHAM

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	09:15	32	32	5965	2704	4213	28650.3	42412.1	✓	GREY	NONE	SILT
2	VV	09:32	32	32	5962	2671	4197	28650.2	42412.1	✓	GREY	NONE	SILT/CLAY
3	VV	09:47	32	32	5960	2701	4210	28650.3	42412.1	✓	GREY	NONE	SILT/CLAY
			09:55		THIS	COMPLETES	STATION	BBZ01	CHEM	IS	IN!		

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

STATION LOG

Station: BBPØ3-C **Date:** 25-APRIL-1989 **Survey:** PSODA II - Beckinbaum

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	✓✓	10:14	30	30	5371	2627	4711	28654.5	42413.3	✓	GREY	NONE	SILT	2 of 2
2	✓✓	10:26	30	30	5365	2633	4725	28654.5	42413.3	✓	GREY	NONE	SILT	2 of 2
3	✓✓	10:32	30	30	5363	2631	4726	28654.4	42413.3	✓	GREY	NONE	SILT	2 of 2

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

STATION LOG

Station: BBØ1 - C **Date:** 25-APRIL-1989 **Survey:** PSDDA II BIRCH

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	11:23	20	20	3192	1235	—	28654.7	42421.9	✓	TAN/GREY	NONE	SILT	2 OUT OF 2
2	VV	11:34	21	20	3212	1218	—	28654.6	42421.9	✓	TAN/GREY	NONE	SILT/CLAY	2 OUT OF 2
3	VV	11:47	21	20	3193	1229	—	28654.6	42421.9	✓	TAN/GREY	NONE	SILT/CLAY	2 OUT OF 2
4	VV	11:58	20	19	3192	1235	—	28654.7	42420	✓	TAN/GREY	NONE	SILT/CLAY	2 OUT OF 2
5	VV	12:10	19	19	3176	1236	—	28654.8	42420	✓	TAN/GREY	NONE	SILT/CLAY	2 OUT OF 2
6	VV	12:22	20	19	3200	1232	—	28654.7	42420	✓	TAN/GREY	NONE	SILT/CLAY	2 OUT OF 2
7	VV	12:33	20	19	3211	1219	—	28654.6	42421.9	✓	GREY	NONE	SILT/CLAY	2 OUT OF 2
					12:40	COMPLETED	STATION	BBØ1 -	CHEMISTRY					

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

STATION LOG

Station: BB DNR **Date:** 25 APRIL-1982 **Survey:** PSDDA II BELLINGHAM MAD

	Grab	Gear	Time	Wire out (m)	Depth (m)	Del Norte Stn. Ranges 624	669	—	Loran-C LOP1	LOP2	Penetr. (cm)	Color	Odor	Type	
CENTER	1	VV	13:13	11	11	2150	2871	—	28664.4	42422.7	✓	TAN	NONE	SANDY SILT	GOOD
900 FT RANGE 245° BEARING FROM CENTER	2	VV	13:25	14	14	2399	2880	—	28664.7	42421.9	✓	GREY	NONE	SANDY SILT	
	3	VV	13:36	14	13	2145	2644	—	28662.9	42423.0	✓	GREY	NONE	SILT	
RANGE = 900 FT BEARING = 135° FROM CENTER OF SITE	4	VV	13:49	12	11	1935	3112	—	28665.8	42423.3	✓	GREY	NONE	SANDY SILT	
RANGE 900 FT BEARING - 150° FROM SITE CENTER															
						14:00	COMPLETED		STATION						

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

STATION LOG

Station: BBBØ4 · INFAUNA **Date:** 25-APRIL-198 **Survey:** PSDDA II BELLINGHAM

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	15:44	29	28	8685	5481	5791	28647.6	42402.9	18	GREY	NONE	SILTY CLAY
2	SX	15:52	28	28	8668	5470	5787	28647.6	42402.9	16	GREY	NONE	SILTY CLAY
3	SX	16:17	28	28	8685	5491	5812	28647.7	42402.8	20	GREY	NONE	SILT/CLAY
4	SX	16:29	28	28	8683	5481	5795	28647.5	42402.9	20	GREY	NONE	SILT/CLAY
5	SX	16:38	28	28	8680	5482	5796	28647.6	42402.8	18	GREY	NONE	CLAY
						17:10 DONE WITH							
						STATION BBBØ4			INFAUNA				

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

STATION LOG

Station: CRR01-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	07:45	153	152	–			27895.3	42212.9	✓	TAN	NONE	SANDY SILT	1
2	VV	08:04	153	152				27895.3	42212.9	✓	TAN	NONE	SANDY SILT	2
3	VV	08:19	156	156				27895.3	42212.9	✓	TAN	NONE	SANDY SILT	1½
4	VV	08:35	154	154				27895.4	42212.9	✓	TAN	SULFUR ~~NONE~~ H2S	SANDY SILT	2
5	VV	08:48	154	153				27895.4	42212.9	✓	TAN	NONE	SANDY SILT	1
6	VV	09:19	153	153	—	8291	11560	27895.4	42212.9	✓	TAN	NON	SANDY SILT	1½
7	VV	09:27	154	153	—	8246	11572	27895.3	42212.8	✓	TAN	NONE	SANDY SILT	1½
8	VV	09:36	153	155	–	8304	11579	27895.4	42212.9	✓	TAN	NONE	SANDY SILT	1½
9	VV	09:53	154	153	—			27895.3	42212.9	NO	GOOD		[illegible]	
10	VV	11:04	153	153				27895.3	42213.0	✓	TAN	NONE	SANDY SILT	1½

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