Table 3-1
Summary of Sediment Core Chemistry Results
Denny Way Cap 2000 Monitoring Event

Conventionals	N1 (1st 6")	N1 (Rep)	N2 (2nd 6")	N2 (Rep)	O1 (1st 6")	P1 (2nd 6")	P1 (Rep)
Solids (%)	78.5	83.2	81.8	82.8	78.0	79.9	81.1
Organic Carbon (mg/Kg DW)	6,560	n/a	n/a	n/a	2,470	5,160	4,130
Organic Carbon (%)	0.7	n/a	n/a	n/a	0.2	0.5	0.4
Clay (%)	0.8	n/a	n/a	n/a	0.7	1.9	1.8
Silt (%)	3.5	n/a	n/a	n/a	4.4	1.5	1.9
Sand (%)	92.6	n/a	n/a	n/a	94.1	94.9	94.1
Gravel (%)	3.1	n/a	n/a	n/a	0.8	1.7	2.2

	Concentration (mg/Kg DW)								
Metals	**N1 (1st 6")**	**N1 (Rep)**	**N2 (2nd 6")**	**N2 (Rep)**	**O1 (1st 6")**	**P1 (2nd 6")**	**P1 (Rep)**	**SQS**	**CSL**
Arsenic	4.5	n/a	n/a	n/a	7.4	6.0	9.2	**57**	**93**
Cadmium	<MDL (0.19)	n/a	n/a	n/a	<MDL (0.19)	<MDL (0.19)	<MDL (0.18)	**5.1**	**6.7**
Chromium	12.7	n/a	n/a	n/a	20.9	11.5	13.2	**260**	**270**
Copper	11.9	n/a	n/a	n/a	13.7	13.5	13.7	**390**	**390**
Lead	7.6	n/a	n/a	n/a	7.6	6.3	5.2	**450**	**530**
Mercury	0.048	n/a	n/a	n/a	<MDL (0.026)	<MDL (0.025)	<MDL (0.025)	**0.41**	**0.59**
Silver	<MDL (0.25)	n/a	n/a	n/a	<MDL (0.26)	<MDL (0.25)	<MDL (0.25)	**6.1**	**6.1**
Zinc	46.8	n/a	n/a	n/a	53.7	49.2	50.2	**410**	**960**

	Concentration (µg/Kg DW)								
Ionic Organics	**N1 (1st 6")**	**N1 (Rep)**	**N2 (2nd 6")**	**N2 (Rep)**	**O1 (1st 6")**	**P1 (2nd 6")**	**P1 (Rep)**	**SQS**	**CSL**
Benzoic Acid	<MDL (140)	120	132	<MDL (7.2)	<MDL (140)	<MDL (140)	<MDL (140)	**650**	**650**
Benzyl Alcohol	<MDL (34)	<MDL (7.2)	<MDL (7.3)	<MDL (7.2)	<MDL (35)	<MDL (34)	<MDL (33)	**57**	**73**
2,4-Dimethylphenol	<MDL (34)	<MDL (8.4)	<MDL (8.6)	<MDL (8.5)	<MDL (35)	<MDL (34)	<MDL (33)	**29**	**29**
2-Methylphenol	<MDL (34)	<MDL (23)	<MDL (23)	<MDL (23)	<MDL (35)	<MDL (34)	<MDL (33)	**63**	**63**
4-Methylphenol	<MDL (34)	<MDL (19)	<MDL (20)	<MDL (19)	<MDL (35)	<MDL (34)	<MDL (33)	**670**	**670**
Pentachlorophenol	<MDL (34)	<MDL (6.0)	<MDL (6.1)	<MDL (6.0)	<MDL (35)	<MDL (34)	<MDL (33)	**360**	**690**
Phenol	<MDL (140)	<MDL (11)	<MDL (11)	<MDL (11)	<MDL (140)	<MDL (140)	<MDL (140)	**420**	**1,200**

	Concentration (µg/Kg DW)								
Non-Ionic Organics	**N1 (1st 6")**	**N1 (Rep)**	**N2 (2nd 6")**	**N2 (Rep)**	**O1 (1st 6")**	**P1 (2nd 6")**	**P1 (Rep)**	**LAET**	**2LAET**
LPAHs									
Acenaphthene	<MDL (14)	<MDL (8.4)	<MDL (8.6)	<MDL (8.5)	<MDL (14)	<MDL (14)	<MDL (14)	**500**	**730**
Acenaphthylene	<MDL (20)	<MDL (18)	<MDL (18)	<MDL (18)	<MDL (21)	<MDL (20)	<MDL (20)	**1,300**	**1,300**
Anthracene	<MDL (20)	<MDL (4.8)	8.4	9.5	22	30	<MDL (20)	**960**	**4,400**
Fluorene	<MDL (20)	<MDL (16)	<MDL (16)	<MDL (16)	<MDL (21)	<MDL (20)	<MDL (20)	**540**	**1,000**
2-Methylnaphthalene	<MDL (55)	<MDL (17)	<MDL (17)	<MDL (17)	<MDL (55)	<MDL (54)	<MDL (53)	**670**	**1,400**
Naphthalene	<MDL (55)	<MDL (17)	<MDL (17)	<MDL (17)	<MDL (55)	<MDL (54)	<MDL (53)	**2,100**	**2,400**
Phenanthrene	34.6	5.5	10.2	16.7	50.4	79.3	<MDL (20)	**1,500**	**5,400**
Total LPAH	34.6	5.5	19	26	72	110	<MDL (14-53)	**5,200**	**13,000**
HPAHs									
Benzo(a)anthracene	34.9	7.37	12.7	9.79	<MDL (21)	55.7	<MDL (20)	**1,300**	**1,600**
Benzo(a)pyrene	<MDL (34)	<MDL (10), B	<MDL (19), B	<MDL (15), B	<MDL (35)	54	<MDL (33)	**1,600**	**3,000**
Benzofluoranthenes (Total)	<MDL (55)	<MDL (5.3), B	<MDL (14), B	<MDL (7.8), B	<MDL (55)	66	<MDL (53)	**3,200**	**3,600**
Benzo(g,h,i)perylene	<MDL (34)	<MDL (9.6)	<MDL (9.8)	<MDL (9.7)	<MDL (35)	40	<MDL (33)	**670**	**720**
Chrysene	39.7	6.3	12.8	11.7	<MDL (21)	69	<MDL (20)	**1,400**	**2,800**
Dibenzo(a,h)anthracene	<MDL (55)	<MDL (8.4), B	<MDL (8.6), B	<MDL (8.5), B	<MDL (55)	<MDL (54)	<MDL (53)	**230**	**540**
Fluoranthene	78.3	<MDL (9.6)	20.9	22.1	54.9	148	<MDL (20)	**1,700**	**2,500**
Indeno(1,2,3-c,d)pyrene	<MDL (34)	<MDL (11)	12	<MDL (11)	<MDL (35)	40	<MDL (33)	**600**	**690**
Pyrene	81.7	23.9	37.0	33.8	35	113	<MDL (20)	**2,600**	**3,300**
Total HPAH	235	38.0	95.0	77.4	90	590	<MDL (20-53)	**12,000**	**17,000**
Chlorobenzenes									
1,2-Dichlorobenzene	1.3	<MDL (0.31)	<MDL (0.32)	<MDL (0.31)	<MDL (0.88)	<MDL (0.86)	<MDL (0.85)	**35**	**50**
1,4-Dichlorobenzene	6.05	<MDL (0.16)	<MDL (0.16)	<MDL (0.16)	<MDL (0.88)	<MDL (0.86)	<MDL (0.85)	**110**	**120**
Hexachlorobenzene	<MDL (0.88)	<MDL (0.31)	<MDL (0.32)	<MDL (0.31)	<MDL (0.88)	<MDL (0.86)	<MDL (0.85)	**22**	**70**
1,2,4-Trichlorobenzene	<MDL (0.88)	<MDL (0.31)	<MDL (0.32)	<MDL (0.31)	<MDL (0.88)	<MDL (0.86)	<MDL (0.85)	**31**	**51**
Phthalates									
Bis(2-ethylhexyl) Phthalate	<MDL (301), B	<MDL (32), B	<MDL (47), B	<MDL (23), B	<MDL (48), B	<MDL (28), B	<MDL (67), B	**1,300**	**1,900**
Butyl Benzyl Phthalate	29	<MDL (7.2)	<MDL (7.3)	<MDL (7.2)	<MDL (21)	<MDL (20)	<MDL (20)	**63**	**470**
Di-N-butyl Phthalate	45	<MDL (8.7), B	<MDL (6.1), B	<MDL (7.7), B	<MDL (35)	<MDL (34)	<MDL (33)	**1,400**	**5,100**
Di-N-octyl Phthalate	<MDL (20)	<MDL (9.6)	<MDL (9.8)	<MDL (9.7)	<MDL (21)	<MDL (20)	<MDL (20)	**420**	**2,100**
Diethyl Phthalate	<MDL (34)	<MDL (7.2)	<MDL (7.3)	<MDL (7.2)	<MDL (35)	<MDL (34)	<MDL (33)	**48**	**73**
Dimethyl Phthalate	<MDL (14)	<MDL (13)	<MDL (13)	<MDL (13)	<MDL (14)	<MDL (14)	<MDL (14)	**71**	**160**
Miscellaneous Compounds									
Dibenzofuran	<MDL (34)	<MDL (17)	<MDL (17)	<MDL (17)	<MDL (35)	<MDL (34)	<MDL (33)	**540**	**700**
Hexachlorobutadiene	<MDL (34)	<MDL (0.92)	<MDL (0.90)	<MDL (0.91)	<MDL (35)	<MDL (34)	<MDL (33)	**11**	**120**
N-Nitrosodiphenylamine	<MDL (34)	<MDL (24)	<MDL (24)	<MDL (24)	<MDL (35)	<MDL (34)	<MDL (33)	**28**	**40**
PCBs									
Total PCBs	**144**	7.45	14.1	<MDL (1.6-3.0)	<MDL (17)	<MDL (17)	<MDL (16)	**130**	**1,000**

Notes

mg/Kg DW - Milligrams per kilogram on a dry weight basis.
µg/Kg DW - Micrograms per kilogram on a dry weight basis.
MDL - Method detection limit.
<MDL (#) - Analyte not detected (value in parentheses is numeric MDL).
B - Analyte detected in laboratory method blank. MDL is adjusted.
SQS - Sediment Quality Standard.
CSL - Cleanup Screening Level.
LAET - Lowest Apparent Effects Threshhold (equivalent to SQS).
2LAET - Second Lowest Apparent Effects Threshhold (equivalent to CSL).
n/a - Not analyzed.
Value exceeds LAET (SQS).

Table 4-1
Summary of Surface Sediment Chemistry Results
Denny Way Cap 2000 Monitoring Event

Conventionals	J (0-2)	J (0-10)	K (0-2)	K (0-10) A	K (0-10) B	L (0-2)	L (0-2) FR	L (0-10) A	L (0-10) B	M (0-2)	M (0-10)	S (0-2)
Solids (%)	72.0	66.9	57.0	61.0	61.4	73.0	59.8	64.4	75.0	71.6	73.1	72.3
Organic Carbon (mg/Kg DW)	9,830	11,000	19,300	14,100	19,100	5,220	15,200	13,900	4,840	6,970	5,140	5,880
Organic Carbon (%)	1.0	1.1	1.9	1.4	1.9	0.5	1.5	1.4	0.5	0.7	0.5	0.6
Clay (%)	5.8	6.2	9.2	8.1	9.7	5.2	8.8	8.6	4.9	4.0	2.8	1.3
Silt (%)	6.9	4.7	16.7	10.7	18.4	5.3	19.3	12.4	5.7	4.0	2.4	0.4
Sand (%)	86.2	88.0	72.4	79.3	69.6	87.8	68.5	77.2	87.0	90.0	93.0	74.8
Gravel (%)	1.1	1.1	1.7	1.9	2.3	1.7	3.4	1.8	2.4	2.0	1.8	23.5

Concentration (mg/Kg DW)

Metals	J (0-2)	J (0-10)	K (0-2)	K (0-10) A	K (0-10) B	L (0-2)	L (0-2) FR	L (0-10) A	L (0-10) B	M (0-2)	M (0-10)	S (0-2)	SQS	CSL
Arsenic	6.7	7.0	9.1	7.4	7.5	5.3	7.5	6.7	5.6	7.4	6.4	<MDL (3.5)	**57**	**93**
Cadmium	<MDL (0.21)	0.31	0.30	0.38	0.31	0.23	0.35	0.40	0.20	<MDL (0.20)	0.23	0.48	**5.1**	**6.7**
Chromium	14.6	15.4	21.2	19.3	22.1	16.6	21.6	20.0	13.1	13.6	11.0	22.7	**260**	**270**
Copper	20.3	26.6	34.7	32.3	35.8	17.9	33.6	30.6	16.8	16.9	14.1	66.8	**390**	**390**
Lead	16.5	17.8	30.7	24.6	32.7	16.6	27.3	25.0	11.1	13.1	11.2	77.7	**450**	**530**
Mercury	0.11	0.14	0.21	0.20	0.26	0.093	**0.433**	0.17	0.096	0.085	0.056	**0.696**	**0.41**	**0.59**
Silver	0.44	0.49	1.0	0.89	1.3	0.30	0.97	0.95	0.71	<MDL (0.27)	<MDL (0.27)	4.09	**6.1**	**6.1**
Zinc	54.2	66.4	75.4	72.8	83.4	54.7	77.1	69.7	49.7	55.3	51.3	113	**410**	**960**

Concentration (µg/Kg DW)

Ionic Organics	J (0-2)	J (0-10)	K (0-2)	K (0-10) A	K (0-10) B	L (0-2)	L (0-2) FR	L (0-10) A	L (0-10) B	M (0-2)	M (0-10)	S (0-2)	SQS	CSL
Benzoic Acid	180	<MDL (160)	<MDL (190)	<MDL (180)	<MDL (180)	<MDL (150)	<MDL (180)	<MDL (170)	<MDL (150)	<MDL (150)	<MDL (150)	<MDL (150)	**650**	**650**
Benzyl Alcohol	<MDL (38)	<MDL (40)	<MDL (47)	<MDL (44)	<MDL (44)	<MDL (37)	<MDL (45)	<MDL (42)	<MDL (36)	<MDL (38)	<MDL (37)	<MDL (37)	**57**	**73**
2,4-Dimethylphenol	<MDL (38)	<MDL (40)	<MDL (47)	<MDL (44)	<MDL (44)	<MDL (37)	<MDL (45)	<MDL (42)	<MDL (36)	<MDL (38)	<MDL (37)	<MDL (37)	**29**	**29**
2-Methylphenol	<MDL (38)	<MDL (40)	<MDL (47)	<MDL (44)	<MDL (44)	<MDL (37)	<MDL (45)	<MDL (42)	<MDL (36)	<MDL (38)	<MDL (37)	<MDL (37)	**63**	**63**
4-Methylphenol	<MDL (38)	<MDL (40)	<MDL (47)	<MDL (44)	<MDL (44)	<MDL (37)	<MDL (45)	<MDL (42)	<MDL (36)	<MDL (38)	<MDL (37)	<MDL (37)	**670**	**670**
Pentachlorophenol	<MDL (38)	<MDL (40)	<MDL (47)	<MDL (44)	<MDL (44)	<MDL (37)	<MDL (45)	<MDL (42)	<MDL (36)	<MDL (38)	<MDL (37)	<MDL (37)	**360**	**690**
Phenol	<MDL (150)	<MDL (160)	<MDL (190)	<MDL (180)	<MDL (180)	<MDL (150)	<MDL (180)	<MDL (170)	<MDL (150)	<MDL (150)	<MDL (150)	<MDL (150)	**420**	**1,200**

Concentration (mg/Kg OC)

Non-Ionic Organics	J (0-2)	J (0-10)	K (0-2)	K (0-10) A	K (0-10) B	L (0-2)	L (0-2) FR	L (0-10) A	L (0-10) B	M (0-2)	M (0-10)	S (0-2)	SQS	CSL
LPAHs														
Acenaphthene	<MDL (1.5)	<MDL (1.5)	1.2	1.5	1.5	<MDL (2.9)	1.6	1.2	<MDL (3.1)	<MDL (2.2)	<MDL (2.9)	13.3	**16**	**57**
Acenaphthylene	<MDL (2.2)	<MDL (2.2)	<MDL (1.5)	<MDL (1.8)	<MDL (1.4)	<MDL (4.2)	<MDL (1.8)	<MDL (1.8)	<MDL (4.3)	<MDL (3.2)	<MDL (4.3)	<MDL (3.7)	**66**	**66**
Anthracene	5.26	5.63	9.74	10.0	7.07	9.00	10.5	6.02	6.4	4.6	<MDL (4.3)	33.2	**220**	**1,200**
Fluorene	<MDL (2.2)	<MDL (2.2)	2.3	1.8	2.2	<MDL (4.2)	2.6	1.9	<MDL (4.3)	<MDL (3.2)	<MDL (4.3)	15.3	**23**	**79**
2-Methylnaphthalene	<MDL (6.1)	<MDL (5.8)	<MDL (3.9)	<MDL (5.0)	<MDL (3.7)	<MDL (11)	<MDL (4.7)	<MDL (4.8)	<MDL (12)	<MDL (8.6)	<MDL (11)	<MDL (10)	**38**	**64**
Naphthalene	<MDL (6.1)	<MDL (5.8)	<MDL (3.9)	<MDL (5.0)	<MDL (3.7)	<MDL (11)	<MDL (4.7)	<MDL (4.8)	<MDL (12)	<MDL (8.6)	<MDL (11)	<MDL (10)	**99**	**170**
Phenanthrene	13.1	12.8	18.5	21.8	16.9	18.4	19.1	13.3	11	10.5	7.10	**189**	**100**	**480**
Total LPAH	18.4	18.4	32	35	28	27.4	34	22	17	15	7.1	251	**370**	**780**
HPAHs														
Benzo(a)anthracene	16.4	13.3	21.3	21.1	19.4	21.3	23.0	15.8	14.4	12.4	10.6	**123**	**110**	**270**
Benzo(a)pyrene	17.2	16.5	22.8	25.6	24.3	25.9	27.5	21.1	19	14.2	11	**128**	**99**	**210**
Benzofluoranthenes (Total)	37.0	33.6	47.7	54.5	49.5	56.7	53.8	42.9	37	31	18	**255**	**230**	**450**
Benzo(g,h,i)perylene	8.90	8.67	11.8	14.0	11.5	13	13.8	11.4	11	8.5	7.4	**55.8**	**31**	**78**
Chrysene	25.5	23.4	34.1	34.4	31.9	35.6	38.9	27.5	23.8	20.4	15.5	**164**	**110**	**460**
Dibenzo(a,h)anthracene	<MDL (6.1)	<MDL (5.8)	<MDL (3.9)	<MDL (5.0)	<MDL (3.7)	<MDL (11)	<MDL (4.7)	<MDL (4.8)	<MDL (12)	<MDL (8.6)	<MDL (11)	**17**	**12**	**33**
Fluoranthene	28.8	27.3	35.3	39.6	35.3	37.4	40.7	28.1	25.2	26.1	16.1	**361**	**160**	**1,200**
Indeno(1,2,3-c,d)pyrene	9.97	10.0	13.3	14.8	14.7	14.8	14.2	11.9	11	8.2	7.4	**64.3**	**34**	**88**
Pyrene	26.0	23.1	29.1	37.3	36.3	34.1	34.1	25.1	22.3	18.7	15.0	272	**1,000**	**1,400**
Total HPAH	170	156	215	241	223	240	246	184	160	140	100	**1,440**	**960**	**5,300**
Chlorobenzenes														
1,2-Dichlorobenzene	<MDL (0.098)	<MDL (0.091)	<MDL (0.062)	<MDL (0.078)	<MDL (0.058)	<MDL (0.18)	<MDL (0.079)	<MDL (0.079)	<MDL (0.19)	<MDL (0.14)	<MDL (0.18)	<MDL (0.16)	**2.3**	**2.3**
1,4-Dichlorobenzene	<MDL (0.098)	<MDL (0.091)	<MDL (0.062)	<MDL (0.078)	<MDL (0.058)	<MDL (0.18)	<MDL (0.079)	<MDL (0.079)	<MDL (0.19)	<MDL (0.14)	<MDL (0.18)	**4.35**	**3.1**	**9**
Hexachlorobenzene	<MDL (0.098)	<MDL (0.091)	<MDL (0.062)	<MDL (0.078)	<MDL (0.058)	<MDL (0.18)	<MDL (0.079)	<MDL (0.079)	<MDL (0.19)	<MDL (0.14)	<MDL (0.18)	<MDL (0.16)	**0.38**	**2.3**
1,2,4-Trichlorobenzene	<MDL (0.098)	<MDL (0.091)	<MDL (0.062)	<MDL (0.078)	<MDL (0.058)	<MDL (0.18)	<MDL (0.079)	<MDL (0.079)	<MDL (0.19)	<MDL (0.14)	<MDL (0.18)	<MDL (0.16)	**0.81**	**1.8**
Phthalates														
Bis(2-ethylhexyl) Phthalate	<MDL (71), B	<MDL (22), B	<MDL (25), B	**112**	<MDL (33), B	<MDL (26), B	<MDL (26), B	<MDL (45), B	<MDL (160), B	<MDL (27), B	<MDL (30), B	**264**	**47**	**78**
Butyl Benzyl Phthalate	<MDL (2.2)	**6.24**	3.75	3.67	2.95	<MDL (4.2)	2.6	<MDL (1.8)	<MDL (4.3)	<MDL (3.2)	**11.6**	**16.3**	**4.9**	**64**
Di-N-butyl Phthalate	<MDL (3.9)	<MDL (3.6)	<MDL (2.4)	<MDL (3.1)	<MDL (2.3)	<MDL (7.1)	5.5	<MDL (3.0)	24.2	<MDL (5.5)	<MDL (7.2)	<MDL (6.3)	**220**	**1,700**
Di-N-octyl Phthalate	<MDL (2.2)	<MDL (2.2)	<MDL (1.5)	<MDL (1.8)	<MDL (1.4)	<MDL (4.2)	<MDL (1.8)	<MDL (1.8)	<MDL (4.3)	<MDL (3.2)	<MDL (4.3)	**68.4**	**58**	**4,500**
Diethyl Phthalate	<MDL (3.9)	<MDL (3.6)	<MDL (2.4)	<MDL (3.1)	<MDL (2.3)	<MDL (7.1)	<MDL (3.0)	<MDL (3.0)	<MDL (7.4)	<MDL (5.5)	<MDL (7.2)	<MDL (6.3)	**61**	**110**
Dimethyl Phthalate	<MDL (1.5)	<MDL (1.5)	<MDL (0.98)	<MDL (1.3)	<MDL (0.94)	<MDL (2.9)	<MDL (1.2)	<MDL (1.2)	<MDL (3.1)	<MDL (2.2)	<MDL (2.9)	<MDL (2.5)	**53**	**53**
Miscellaneous Compounds														
Dibenzofuran	<MDL (3.9)	<MDL (3.6)	<MDL (2.4)	<MDL (3.1)	<MDL (2.3)	<MDL (7.1)	<MDL (3.0)	<MDL (3.0)	<MDL (7.4)	<MDL (5.5)	<MDL (7.2)	<MDL (6.3)	**15**	**58**
Hexachlorobutadiene	<MDL (3.9)	<MDL (3.6)	<MDL (2.4)	<MDL (3.1)	<MDL (2.3)	<MDL (7.1)	<MDL (3.0)	<MDL (3.0)	<MDL (7.4)	<MDL (5.5)	<MDL (7.2)	<MDL (6.3)	**3.9**	**6.2**
N-Nitrosodiphenylamine	<MDL (3.9)	<MDL (3.6)	<MDL (2.4)	<MDL (3.1)	<MDL (2.3)	<MDL (7.1)	<MDL (3.0)	<MDL (3.0)	<MDL (7.4)	<MDL (5.5)	<MDL (7.2)	<MDL (6.3)	**11**	**11**
PCBs														
Total PCBs	7.2	12	5.25	8.28	6.23	5.2	8.59	5.5	<MDL (3.5)	<MDL (2.6)	<MDL (3.5)	7.55	**12**	**65**

Notes

mg/Kg DW - Milligrams per kilogram on a dry weight basis.
µg/Kg DW - Micrograms per kilogram on a dry weight basis.
mg/Kg OC - Milligrams per kilogram on an organic carbon basis.
MDL - Method detection limit.
<MDL (#) - Analyte not detected (value in parentheses is numeric MDL).
B - Analyte detected in laboratory method blank. MDL is adjusted.
SQS - Sediment Quality Standard.
CSL - Cleanup Screening Level.
Value exceeds SQS.
Value exceeds CSL.

Table 6-1
Benthic Community Analysis
Denny Way Sediment Cap - 2000 Monitoring Event
Surface Sediment Grab Samples

Physical Characteristics

Parameter (wet weight except for carbon)	**Station J**	**Station M**	**Reference**
Percent Solids	66.9	73.1	69.7
Percent Clay	6.2	2.8	6.5
Percent Silt	4.7	2.4	14.0
Percent Sand	88.0	93.0	75.3
Percent Gravel	1.1	1.8	4.2
Total Organic Carbon (mg/Kg dry weight)	7,330	3,760	4,910

Sampling station **J (LTBC20)** is approximately 300 feet west of the outfall terminus, on the sediment cap.

Sampling station **M (LTBD23)** is approximately 375 feet south of the outfall terminus, on the sediment cap.

Reference station **EB23 (LSHZ03-97)** is located near Seacrest Park on the southwest shore of Elliott Bay.

Benthic Community Indices

Parameter	**Station J**	**Station M**	**Reference**
Total Richness (# of species/0.1 m^2)	**104**	**102**	**111**
Annelida Richness	59	54	64
Crustacea Richness	23	18	18
Mollusca Richness	14	20	23
Miscellaneous Taxa Richness	8	10	6
Total Abundance (# of individuals/0.1 m^2)	**758**	**749**	**929**
Annelida Abundance	399	312	331
Crustacea Abundance	119	224	412
Mollusca Abundance	227	198	175
Miscellaneous Abundance	13	15	11
Total Biomass (g/0.1 m^2)	**8.16**	**5.58**	**7.56**
Annelida Biomass	3.16	2.21	2.05
Crustacea Biomass	0.19	0.36	0.51
Mollusca Biomass	4.24	2.92	4.80
Miscellaneous Biomass	0.57	0.09	0.20
Shannon-Wiener Diversity Index	**4.99**	**4.88**	**4.91**
Pielou's Evenness Index	**0.74**	**0.73**	**0.72**
Swartz's Dominance Index	**22**	**20**	**23**

Richness is the average number of species per 0.1 square meter found in all five replicate samples at each station.

Abundance is the average number of individual organisms per 0.1 square meter found in five replicate samples at each station.

Biomass is the average biomass measured over five replicate samples at each station and is expressed in grams per 0.1 square meter.

The Shannon-Wiener Diversity Index is a measure of the relationship between taxa richness and abundance.

Pielou's Evenness Index is expressed as the observed diversity of a sample as a proportion of the maximum possible diversity.

Swartz's Dominance Index is the minimum number of species that makes up 75% of the sample abundance.

Dominant Species

Station J Dominant Species (22 species accounting for 75% of total abundance)	**Taxonomic Group**	**Average # of Individuals**	**% of Total Abundance**
Parvilucina tenuisculpta	Mollusca	153	20.2
Exogone lourei	Annelida	76	10.0
Euphilomedes carcharodonta	Crustacea	43	5.7
Lumbreneris californiensis	Annelida	42	5.5
Mediomastis spp. (indet.)	Annelida	39	5.1
Axinopsida serricata	Mollusca	30	4.0
Prionopsio steenstrupi	Annelida	28	3.7
Lumbreneridae spp. (indet.)	Annelida	21	2.8
Leptochelia dubia	Crustacea	20	2.6
Macoma sp. (juv.)	Mollusca	17	2.2
Scoletoma luti	Annelida	15	2.0
Typosyllis hyperoni	Annelida	13	1.7
Polycirrus californicus	Annelida	11	1.5
Nephtys ferruginea	Annelida	10	1.3
Leitoscoloplos pugettensis	Annelida	9	1.2
Eudorella pacifica	Crustacea	7	0.9
Notomastus variegatus	Annelida	7	0.9
Spiochaetopterus costarum	Annelida	7	0.9
Byblis millsi	Crustacea	6	0.8
Ophelina acuminata	Annelida	6	0.8
Paremetaphoxus quaylei	Crustacea	6	0.8
Glycera nana	Annelida	5	0.7

Station M Dominant Species (20 species accounting for 75% of total abundance)	**Taxonomic Group**	**Average # of Individuals**	**% of Total Abundance**
Leptochelia dubia	Crustacea	116	15.5
Exogone lourei	Annelida	96	12.8
Parvilucina tenuisculpta	Mollusca	94	12.6
Euphilomedes carcharodonta	Crustacea	67	8.9
Nutricola lordi	Mollusca	33	4.4
Prionopsio steenstrupi	Annelida	19	2.5
Lumbreneris californiensis	Annelida	19	2.5
Axinopsida serricata	Mollusca	18	2.4
Mediomastis spp. (indet.)	Annelida	15	2.0
Lumbreneridae spp. (indet.)	Annelida	13	1.7
Typosyllis hyperoni	Annelida	12	1.6
Macoma sp. (juv.)	Mollusca	9	1.2
Polycirrus spp. (indet.)	Annelida	8	1.1
Byblis millsi	Crustacea	7	0.9
Nephtys ferruginea	Annelida	7	0.9
Ophelia acuminata	Annelida	7	0.9
Lucinoma annulatum	Mollusca	6	0.8
Lyonsia californica	Mollusca	6	0.8
Glycera nana	Annelida	5	0.7
Pectinaria granulata	Annelida	5	0.7

Table 6-1
Benthic Community Analysis
Denny Way Sediment Cap - 2000 Monitoring Event
Surface Sediment Grab Samples

Dominant Species (cont.)

Reference Station Dominant Species (23 species accounting for 75% of total abundance)	**Taxonomic Group**	**Average # of Individuals**	**% of Total Abundance**
Euphilomedes producta	Crustacea	217	23.4
Euphilomedes carcharodonta	Crustacea	137	14.7
Prionopsio steenstrupi	Annelida	57	6.1
Asabellides lineata	Annelida	36	3.9
Parvilucina tenuisculpta	Mollusca	33	3.6
Proclea graffi	Annelida	29	3.1
Notomastus variegatus	Annelida	20	2.2
Axinopsida serricata	Mollusca	15	1.6
Solamen columbianum	Mollusca	15	1.6
Alvania compacta	Mollusca	14	1.5
Lyonsia californica	Mollusca	14	1.5
Macoma sp. (juv.)	Mollusca	14	1.5
Rutiderma lomae	Crustacea	14	1.5
Nephtys ferruginea	Annelida	13	1.4
"Clymenura" gracilis	Annelida	9	1.0
Exogone lourei	Annelida	9	1.0
Macoma elimata	Mollusca	9	1.0
Typosyllis hyperoni	Annelida	9	1.0
Cardiomya pectinata	Mollusca	8	0.9
Chaetozone nr. Setosa	Annelida	8	0.9
Scoletoma luti	Annelida	8	0.9
Byblis millsi	Crustacean	7	0.8
Euchone incolor	Annelida	7	0.8