Site Characterization Technical Memorandum
2002 Phase III Remedial Investigation
Sites 13,15,19, 27 and 22
Northeast Cape, St. Lawrence Island, Alaska

Contract No. DACA85-98-D-0007
Task Order No. 026
Montgomery Watson Job No. 1850574.260120

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ACRONYMS AND ABBREVIATIONS

MOC	Main Operations Complex
BD/DR	building demolition/debris removal
DERP-FUDS	Defense Environmental Restoration Program-Formerly Used Defense Sites
RI	remedial investigation
RA	risk assessment
SC	Suqitughneq River cross section
SB	soil boring

1.0 INTRODUCTION

Pursuant to Contract No. DACA85-98-D-0007, the United States Army Engineer District, Alaska (Alaska District) contracted with Montgomery Watson to perform Phase III Remedial Investigation (RI) activities at Northeast Cape, St. Lawrence Island, Alaska. The RI was conducted according to the guidelines of the Defense Environmental Restoration Program of the United States Department of Defense. This document presents a brief summary of the work performed in 2002 as part of the Phase III RI. This work was postponed from 2001 due to delays in building demolition/debris removal (BD/DR). Detailed information on work performed, data collected, and an evaluation of the findings will be added to the Phase III RI and RA Update Report Draft Final, to be completed at a later date.

2.0 SUMMARY OF WORK PERFORMED

Sites investigated during the Phase III RI in 2002 are listed in Table 2-1 and shown in Figure 2-1.

Table 2-1 Northeast Cape Phase III RI Sites

Site Number	Site Description
Sites 13, 15, 19, and 27	Main Operations Complex
Site 22	Water Wells and Water Supply Building

Sites 13, 15, 19, and 27, the Main Operations Complex (MOC) were designated Site 88 to simplify field operations and data reporting.

The 2002 Phase III RI fieldwork was performed from August 13 to August 22, 2002. Ten soil borings were advanced beyond the groundwater interface and completed as monitoring wells, eight soil boring were advanced to the groundwater interface or refusal at the MOC (Figure 2-2) and two soil borings were advanced to refusal at Site 22 (Figure 2-3). The ten monitoring wells were developed and sampled (see field forms in Attachment 1). Most of the monitoring wells had limited water recharge and were purged dry during development or sample collection.

Discharge was measured in the Suqitughneq River, at four locations (Figure 2-4). Two measurements were taken at locations where discharge was measured in 2001; another measurement was taken downstream at the location of a cross-section sampled in 2001 (SC-3). Streamflow at the fourth location was too slow to calculate discharge. Discharge cross sections and flow calculations are shown in Figure 2-5.

2.1 ENVIRONMENTAL MEDIA SAMPLING

Environmental media sampled during the Phase III RI Addendum consisted of soil and groundwater. Table 2-2 provides a summary of samples collected. Completed field sampling forms are included in Attachment 2.

Table 2-2 Soil and Groundwater Sampling Summary
Northeast Cape Phase III RI
Northeast Cape, St, Lawrence Island, Alaska

Site No.	Site Description	Sample Location	DRO/RRO AK102/103	GRO/BTEX AK101/SW8260B	PAH SW8270C SIM	PCB SW8082	Pb, Zn, Cr SW6020	TOC	Alkalinity, Sulfate EPA 3000	Methane, Ethane, Ethene RSK 175	Geotechnical Parameters*
			Planned Actual	Planned Actual	Planned Actual	Planned Actual	Planned Actual	Planned Actual	Planned Actual	Planned Actual	Planned Actual
13,15, 19,27	Main Operations Complex	Soil from Borings	36 36	36 36	36 36	36 36	36 36	36 36			0 3
		Groundwater from Monitoring Wells	10 10	10 10					10 10	10 10	
22	Water Wells and Water Supply Bldg.	Soil from Borings	4 4	4 4	4 4	4 4	4 4	4 4			0 1
		Total Primary Samples	50 50	50 50	50 50	40 40	40 40	40 40	10 10	10 10	0 4

KEY:
* – Geotechnical parameters include sieve analysis ASTM D – 422, specific gravity ASTM D – 854, moisture content ASTM D – 2216, dry bulk density ASTM D – 2937, hydraulic conductivity ASTM D – 4511, soil porosity – calculated
BTEX – benzene, toluene, ethylbenzene, xylenes
Cr – chromium
DRO – diesel range organics
GRO – gasoline range organics
PAH – polynuclear aromatic hydrocarbons
Pb – lead
PCB – polychlorinated biphenyl
RI – remedial investigation
RRO – residual range organics
SIM – select ion monitoring
TOC – total organic carbon
Zn – zinc

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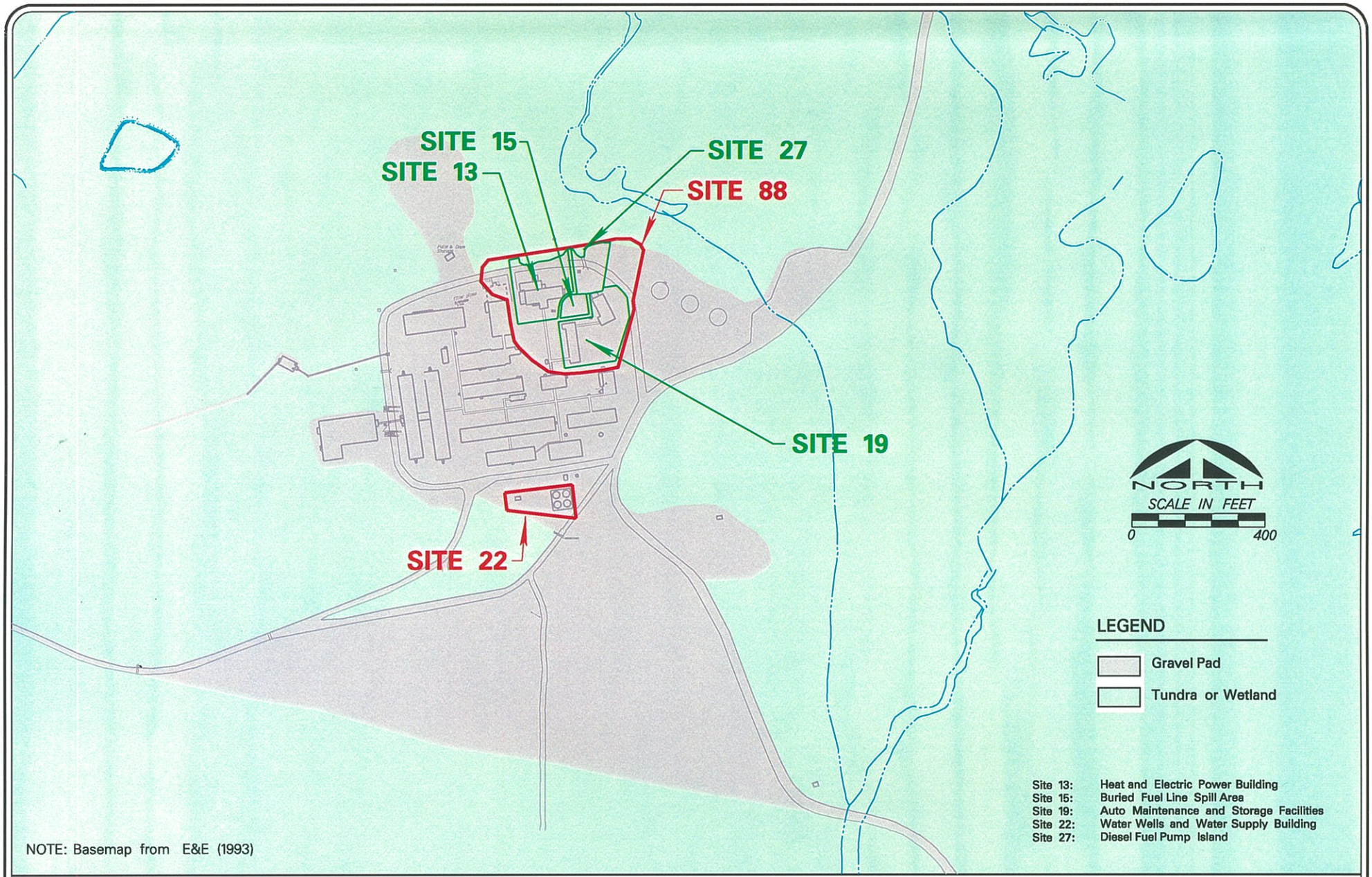

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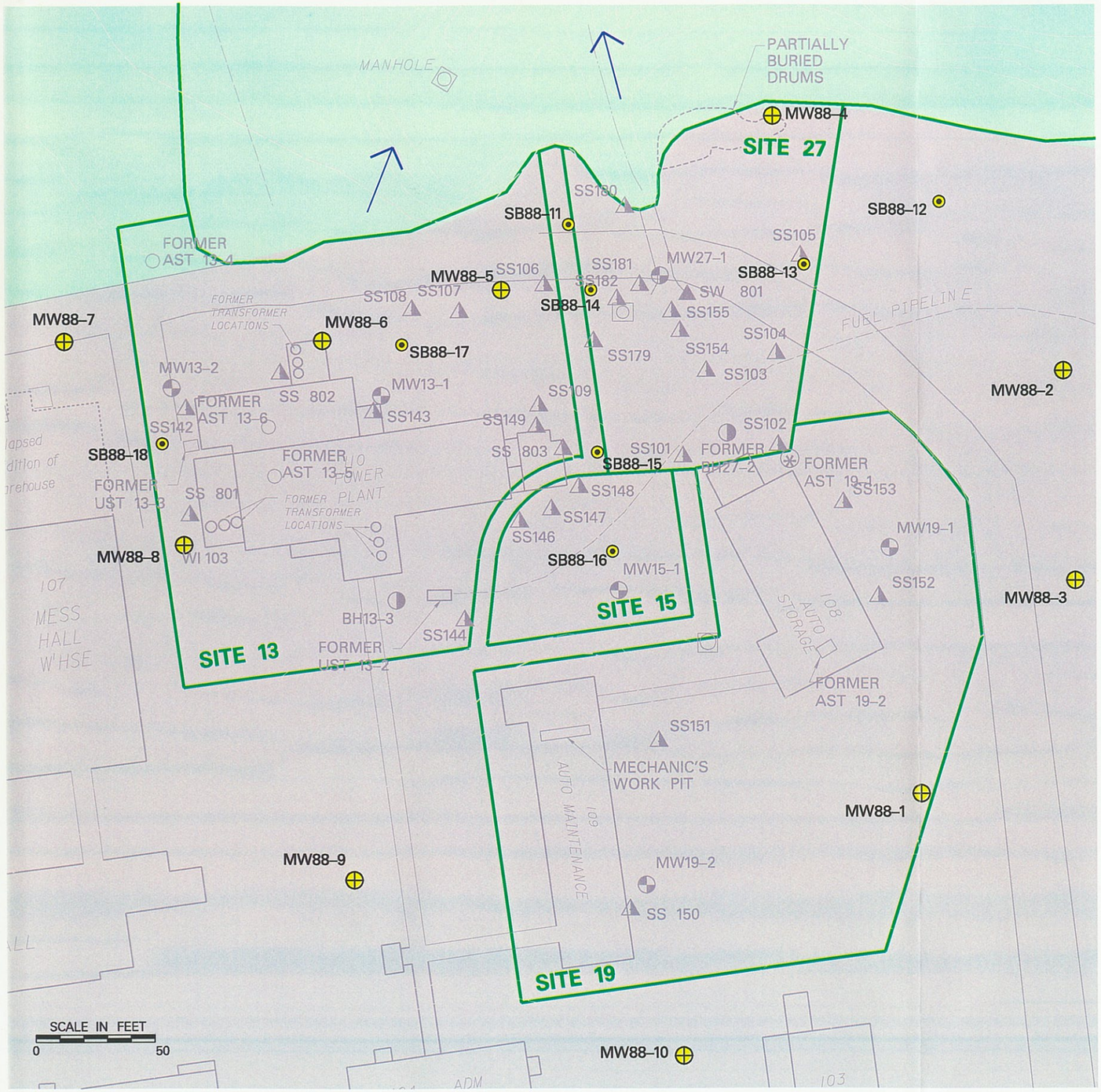
FIGURE 2–1

U. S. ARMY ENGINEER DISTRICT, ALASKA – N. E. CAPE, ALASKA
2002 PHASE III REMEDIAL INVESTIGATION TECHNICAL MEMORANDUM

MAIN OPERATION COMPLEX SITE MAP
SITE 88; (SITES 13,15,19 & 27) AND SITE 22



SOILS RESULTS

Soil Sample Location	Sample (feet bgs)	GRO (mg/Kg)	DRO (mg/Kg)	RRO (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	o–Xylene (mg/Kg)	m & p– Xylene (mg/Kg)	Naphthalene (mg/Kg)	Chromium (mg/Kg)
MW 88–1	15.5–17.5	19	**5000**	39 VJ	ND (0.012)	ND (0.027)	ND (0.027)	ND (0.027)	0.0022 VJ	6.5
MW 88–1	17.5–20	4.9	**1400**	16 VJ	ND (0.011)	ND (0.025)	ND (0.025)	ND (0.025)	0.00038 VJ	4.38
MW 88–2	8–10	ND (3)	ND (12)	6 VJ	ND (0.014)	ND (0.035)	ND (0.035)	ND (0.035)	0.001 VJ	16.1
MW 88–2	10–12	ND (3.6)	ND (11)	7.1 VJ	ND (0.015)	ND (0.037)	ND (0.037)	ND (0.037)	0.00056 VJ	8
MW 88–3	4–6	ND (6)	7.6 VJ	120 VJ	ND (0.023)	ND (0.058)	ND (0.058)	ND (0.058)	0.00081 VJ	22.3
MW 88–3	16–18	51	**3700**	24 VJ	ND (0.021)	ND (0.051)	ND (0.051)	0.31 VJ	1.5	13.1
MW 88–4	9–11	44	**12000**	3700	**0.047**	0.083	0.89	1.6	5.9 VHB	17.3
MW 88–4	11–13	54 VHB	**2600**	16 VJ	ND (0.018)	ND (0.044)	0.01 VJ	0.29	2.3	3.73
MW 88–5	1–3	ND (2.8)	**380**	3400	ND (0.012)	ND (0.025)	ND (0.025)	ND (0.025)	0.0041 VJ	**42.3**
MW 88–5	11–13	ND (4)	21	25 VJ	ND (0.014)	ND (0.034)	ND (0.034)	ND (0.034)	0.0037 VJ	4.5
MW 88–6	7–9	130 VHB	**3100**	23 VJ	ND (0.012)	ND (0.026)	0.044	0.44	4.1	12.8
MW 88–6	11–13	83 VHB	**1200**	30 VJ	ND (0.012)	ND (0.028)	0.013 VJ	0.15	1.1	8.3
MW 88–7	7–9	140 VHB	**12000**	55 VJ	ND (0.012)	ND (0.027)	0.13	1.5	7.9	17
MW 88–7	11–13	130 VHB	**9200**	54 VJ	ND (0.011)	ND (0.026)	0.38	2.2	8.4	11.6
MW 88–8	10–12	68 VHB	**5200**	11 VJ	ND (0.018)	ND (0.044)	ND (0.044)	0.17	3.3	9.63
MW 88–8	14–16	73 VHB	**2300**	7.4 VJ	ND (0.018)	ND (0.045)	ND (0.045)	0.18	2.3	8.34
MW 88–9	8–10	ND (3.5)	7 VJ	8.7 VJ	ND (0.015)	ND (0.036)	ND (0.036)	ND (0.036)	0.00045 VJ	7.04
MW 88–9	20–22	ND (4.8)	7.6 VJ	12 VJ	ND (0.016)	ND (0.038)	ND (0.038)	ND (0.038)	0.0019 VJ	12.5
MW 88–10	22–24	31	**1400**	ND (110)	ND (0.015)	ND (0.038)	ND (0.038)	ND (0.038)	0.48	10
MW 88–10	24–26	19	**750**	ND (110)	ND (0.015)	ND (0.038)	ND (0.038)	ND (0.038)	0.11	4.9
SB 88–11	3–5	70	**13000**	5100	**0.12**	3.2	2.7	5.1	12	16.5
SB 88–11	7–9	99	**51000**	6000	**0.19**	4.5	6.2	12	**81**	23.7
SB 88–12	4–6	ND (5.2)	190	1500	ND (0.022)	ND (0.054)	ND (0.054)	ND (0.054)	0.0045 VJ	12.4
SB 88–12	10–12	ND (3.8)	20	33 VJ	ND (0.017)	ND (0.043)	ND (0.043)	ND (0.043)	0.0011 VJ	9.62
SB 88–13	6–8	11 VJ	**430**	4600	**0.37**	ND (0.18)	0.071 VJ	0.19	0.042	16.5
SB 88–13	14–16	ND (6.1)	77	420	ND (0.022)	ND (0.054)	ND (0.054)	ND (0.054)	0.0018 VJ	14.3
SB 88–14	2–4	220 VHB	**47000**	3000	0.019	0.036 VJ	1.7	0.71	**79**	22.7
SB 88–14	12–14	62	**210**	900	**0.024**	1.4	1.7	1.3	0.41	22.8
SB 88–15	10–12	ND (4.9)	33	150	ND (0.018)	ND (0.044)	0.01 VJ	ND (0.044)	0.016	23
SB 88–15	12–14	ND (4.4)	79	590	ND (0.021)	ND (0.052)	ND (0.052)	ND (0.052)	0.0047 VJ	23.4
SB 88–16	6–8	110 VHB	**16000**	33 VJ	ND (0.015)	0.032 VJ	0.015 VJ	1.8	28	15.6
SB 88–16	10–12	60 VHB	**4200**	12 VJ	ND (0.017)	ND (0.041)	ND (0.041)	0.043	0.9 VLB	6.7
SB 88–17	8–10	130 VHB	**4700**	450	ND (0.013)	0.05 VHB	1.5 VHB	4 VHB	12	18.2
SB 88–17	12–14	140 VHB	**4300**	110 VJ	ND (0.012)	ND (0.023)	0.34 VHB	3 VHB	3.6	8.31
SB 88–18	8–10	100 VHB	**7300**	24 VJ	0.018 VHB	0.018 VJ	0.019 VJ	0.95 VHB	10	14
SB 88–18	10–12	170 VHB	**4000 VJ**	226	0.062 VJ	0.041	1.3 VJ	4.4 VJ	6.9 VJ	16.7 VJ

Ethylbenzene results did not exceed ADEC Method 2

WATER RESULTS

Sample Location	GRO (mg/L)	DRO (mg/L)	RRO (mg/L)	Benzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	o–Xylene (mg/L)	m & p – Xylene (mg/L)
MW 88–1	0.024 VJ	1.2	0.43	0.00058	ND (0.0005)	0.00061 VB	0.00013 VJ	0.00022 VJ
MW 88–2	ND (0.05)	0.71	**1.3**	0.00092	0.00034 VJ	0.00036 VB	0.0001 VJ	0.00035 VJ
MW 88–3	0.42	**34**	0.22	0.00057	0.025	0.00024 VB	0.00008 VJ	0.022
MW 88–4	1.2	**72**	**1.9**	**0.03**	0.12	0.0032	0.007	0.085
MW 88–5	**1.3**	**9.8**	**2.3**	**0.019**	0.035	0.12	0.071	0.14
MW 88–6	1.1	**69**	**2.1**	0.00074	0.052	0.00019 VB	0.0038	0.055
MW 88–7	**1.5**	**6.1 VLB**	0.32	**0.014**	0.072	0.0012 VB	0.024	0.13
MW 88–8	0.52	**20**	0.18 VJ	0.00012 VJ	0.018	0.00011 VB	0.00064	0.016
MW 88–9	0.064	0.71	ND (0.2)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)	ND (0.0005)
MW 88–10	0.12	**55**	**1.3**	0.0027	0.0017	0.0014	0.00015 VJ	0.00079

KEY

DRO – diesel range organics
GRO – gasoline range organics
mg/Kg – milligrams per kilogram
mg/L – milligrams per liter
MW – monitoring well
ND – not detected
RRO – residual range organics
SB – soil boring
VB – analyte present in the blank and the sample
VHB – results positively biased
VJ – results negatively biased
VLB – estimated value
Bold – exceed ADEC Method 2 clean–up level
( ) – method reporting limit

LEGEND

- Monitoring Well/Soil Sample Location (2002)
- Borehole/Soil Sample Location (2002)
- Borehole (BH)
- Monitoring Well (MW)
- Surface Soil Sample (SS)
- Surface Water/Sediment Sample (SW/SD)
- Gravel Pad
- Tundra or Wetland
- Surface Water Drainage

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FIGURE 2–2
U. S. ARMY ENGINEER DISTRICT, ALASKA – N. E. CAPE, ALASKA
2002 PHASE III REMEDIAL INVESTIGATION TECHNICAL MEMORANDUM
SITE 88 (SITES 13, 15, 19, & 27) - MAIN OPERATIONS COMPLEX SAMPLING LOCATIONS & SELECTED RESULTS

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Figure 2-2 (Updated)
SOILS RESULTS

Sample ID	Soil Sample Location	Sample (feet bgs)	GRO (mg/Kg)	DRO (mg/Kg)	RRO (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	o-Xylene (mg/Kg)	m & p- Xylene (mg/Kg)	Naphthalene (mg/Kg)	Chromium (mg/Kg)
02NE88SB001	MW 88-1	15.5-17.5	19	**5000**	39 VJ	ND (0.012)	ND (0.027)	ND (0.027)	ND (0.027)	0.0022 VJ	6.5
02NE88SB002	MW 88-1	17.5-20	4.9	**1400**	16 VJ	ND (0.011)	ND (0.025)	ND (0.025)	ND (0.025)	0.00038 VJ	4.38
02NE88SB003	MW 88-2	8-10	ND (3)	ND (12)	6 VJ	ND (0.014)	ND (0.035)	ND (0.035)	ND (0.035)	0.001 VJ	16.1
02NE88SB004	MW 88-2	10-12	ND (3.6)	ND (11)	7.1 VJ	ND (0.015)	ND (0.037)	ND (0.037)	ND (0.037)	0.00056 VJ	8
02NE88SB005	MW 88-3	4-6	ND (6)	7.6 VJ	120 VJ	ND (0.023)	ND (0.058)	ND (0.058)	ND (0.058)	0.00081 VJ	22.3
02NE88SB006	MW 88-3	16-18	51	**3700**	24 VJ	ND (0.021)	ND (0.051)	ND (0.051)	0.31 VJ	1.5	13.1
02NE88SB007	MW 88-4	9-11	44	**12000**	3700	**0.047**	0.083	0.89	1.6	5.9 VHB	17.3
02NE88SB008	MW 88-4	11-13	54 VHB	**2600**	16 VJ	ND (0.018)	ND (0.044)	0.01 VJ	0.29	2.3	3.73
02NE88SB009	MW 88-5	1-3	ND (2.8)	**380**	3400	ND (0.012)	ND (0.025)	ND (0.025)	ND (0.025)	0.0041 VJ	**42.3**
02NE88SB010	MW 88-5	11-13	ND (4)	21	25 VJ	ND (0.014)	ND (0.034)	ND (0.034)	ND (0.034)	0.0037 VJ	4.5
02NE88SB011	MW 88-6	7-9	130 VHB	**3100**	23 VJ	ND (0.012)	ND (0.026)	0.044	0.44	4.1	12.8
02NE88SB012	MW 88-6	11-13	83 VHB	**1200**	30 VJ	ND (0.012)	ND (0.028)	0.013 VJ	0.15	1.1	8.3
02NE88SB013	MW 88-7	7-9	140 VHB	**12000**	55 VJ	ND (0.012)	ND (0.027)	0.13	1.5	7.9	17
02NE88SB014	MW 88-7	11-13	130 VHB	**9200**	54 VJ	ND (0.011)	ND (0.026)	0.38	2.2	8.4	11.6
02NE88SB015	MW 88-8	10-12	68 VHB	**5200**	11 VJ	ND (0.018)	ND (0.044)	ND (0.044)	0.17	3.3	9.63
02NE88SB016	MW 88-8	14-16	73 VHB	**2300**	7.4 VJ	ND (0.018)	ND (0.045)	ND (0.045)	0.18	2.3	8.34
02NE88SB017	MW 88-9	8-10	ND (3.5)	7 VJ	8.7 VJ	ND (0.015)	ND (0.036)	ND (0.036)	ND (0.036)	0.00045 VJ	7.04
02NE88SB018	MW 88-9	20-22	ND (4.8)	7.6 VJ	12 VJ	ND (0.016)	ND (0.038)	ND (0.038)	ND (0.038)	0.0019 VJ	12.5
02NE88SB019	MW 88-10	22-24	31	**1400**	ND (110)	ND (0.015)	ND (0.038)	ND (0.038)	ND (0.038)	0.48	10
02NE88SB020	MW 88-10	24-26	19	**750**	ND (110)	ND (0.015)	ND (0.038)	ND (0.038)	ND (0.038)	0.11	4.8
02NE88SB021	SB 88-11	3-5	70	**13000**	5100	**0.12**	3.2	2.7	5.1	12	16.5
02NE88SB022	SB 88-11	7-9	99	**51000**	6000	**0.19**	4.5	6.2	12	**81**	23.7
02NE88SB023	SB 88-12	4-6	ND (5.2)	190	1500	ND (0.022)	ND (0.054)	ND (0.054)	ND (0.054)	0.0045 VJ	12.4
02NE88SB024	SB 88-12	10-12	ND (3.8)	20	33 VJ	ND (0.017)	ND (0.043)	ND (0.043)	ND (0.043)	0.0011 VJ	9.62
02NE88SB025	SB 88-13	6-8	11 VJ	**430**	4600	**0.37**	ND (0.18)	0.071 VJ	0.19	0.042	16.5
02NE88SB026	SB 88-13	14-16	ND (6.1)	77	420	ND (0.022)	ND (0.054)	ND (0.054)	ND (0.054)	0.0018 VJ	14.3
02NE88SB027	SB 88-14	2-4	220 VHB	**47000**	3000	0.019	0.036 VJ	1.7	0.71	**79**	22.7
02NE88SB028	SB 88-14	12-14	62	210	900	**0.024**	1.4	1.7	1.3	0.41	22.8
02NE88SB029	SB 88-15	10-12	ND (4.9)	33	150	ND (0.018)	ND (0.044)	0.01 VJ	ND (0.044)	0.016	23
02NE88SB030	SB 88-15	12-14	ND (4.4)	79	590	ND (0.021)	ND (0.052)	ND (0.052)	ND (0.052)	0.0047 VJ	23.4
02NE88SB031	SB 88-16	6-8	110 VHB	**16000**	33 VJ	ND (0.015)	0.032 VJ	0.015 VJ	1.8	28	15.6
02NE88SB032	SB 88-16	10-12	60 VHB	**4200**	12 VJ	ND (0.017)	ND (0.041)	ND (0.041)	0.043	0.9 VLB	6.7
02NE88SB033	SB 88-17	8-10	130 VHB	**4700**	450	ND (0.013)	0.05 VHB	1.5 VHB	4 VHB	12	18.2
02NE88SB034	SB 88-17	12-14	140 VHB	**4300**	110 VJ	ND (0.012)	ND (0.023)	0.34 VHB	3 VHB	3.6	8.31
02NE88SB035	SB 88-18	8-10	100 VHB	**7300**	24 VJ	0.018 VHB	0.018 VJ	0.019 VJ	0.95 VHB	10	14
02NE88SB036	SB 88-18	10-12	170 VHB	**4000 VJ**	226	**0.062 VJ**	0.041	1.3 VJ	4.4 VJ	6.9 VJ	16.7 VJ

Notes:
Values shown in **BOLD** exceed ADEC Method 2, under 40 inch zone, migration to groundwater pathway,
Ethylbenzene results did not exceed ADEC Method 2
PCB results did not exceed ADEC Method 2

Cross Reference Index
Sample ID, Location, and Depth

Sample ID	Soil Sample Location	Sample (feet bgs)
02NE88SB001	MW 88-1	15.5-17.5
02NE88SB002	MW 88-1	17.5-20
02NE88SB003	MW 88-2	8-10
02NE88SB004	MW 88-2	10-12
02NE88SB005	MW 88-3	4-6
02NE88SB006	MW 88-3	16-18
02NE88SB007	MW 88-4	9-11
02NE88SB008	MW 88-4	11-13
02NE88SB009	MW 88-5	1-3
02NE88SB010	MW 88-5	11-13
02NE88SB011	MW 88-6	7-9
02NE88SB012	MW 88-6	11-13
02NE88SB013	MW 88-7	7-9
02NE88SB014	MW 88-7	11-13
02NE88SB015	MW 88-8	10-12
02NE88SB016	MW 88-8	14-16
02NE88SB017	MW 88-9	8-10
02NE88SB018	MW 88-9	20-22
02NE88SB019	MW 88-10	22-24
02NE88SB020	MW 88-10	24-26
02NE88SB021	SB 88-11	3-5
02NE88SB022	SB 88-11	7-9
02NE88SB023	SB 88-12	4-6
02NE88SB024	SB 88-12	10-12
02NE88SB025	SB 88-13	6-8
02NE88SB026	SB 88-13	14-16
02NE88SB027	SB 88-14	2-4
02NE88SB028	SB 88-14	12-14
02NE88SB029	SB 88-15	10-12
02NE88SB030	SB 88-15	12-14
02NE88SB031	SB 88-16	6-8
02NE88SB032	SB 88-16	10-12.
02NE88SB033	SB 88-17	8-10
02NE88SB034	SB 88-17	12-14
02NE88SB035	SB 88-18	8-10
02NE88SB036	SB 88-18	10-12

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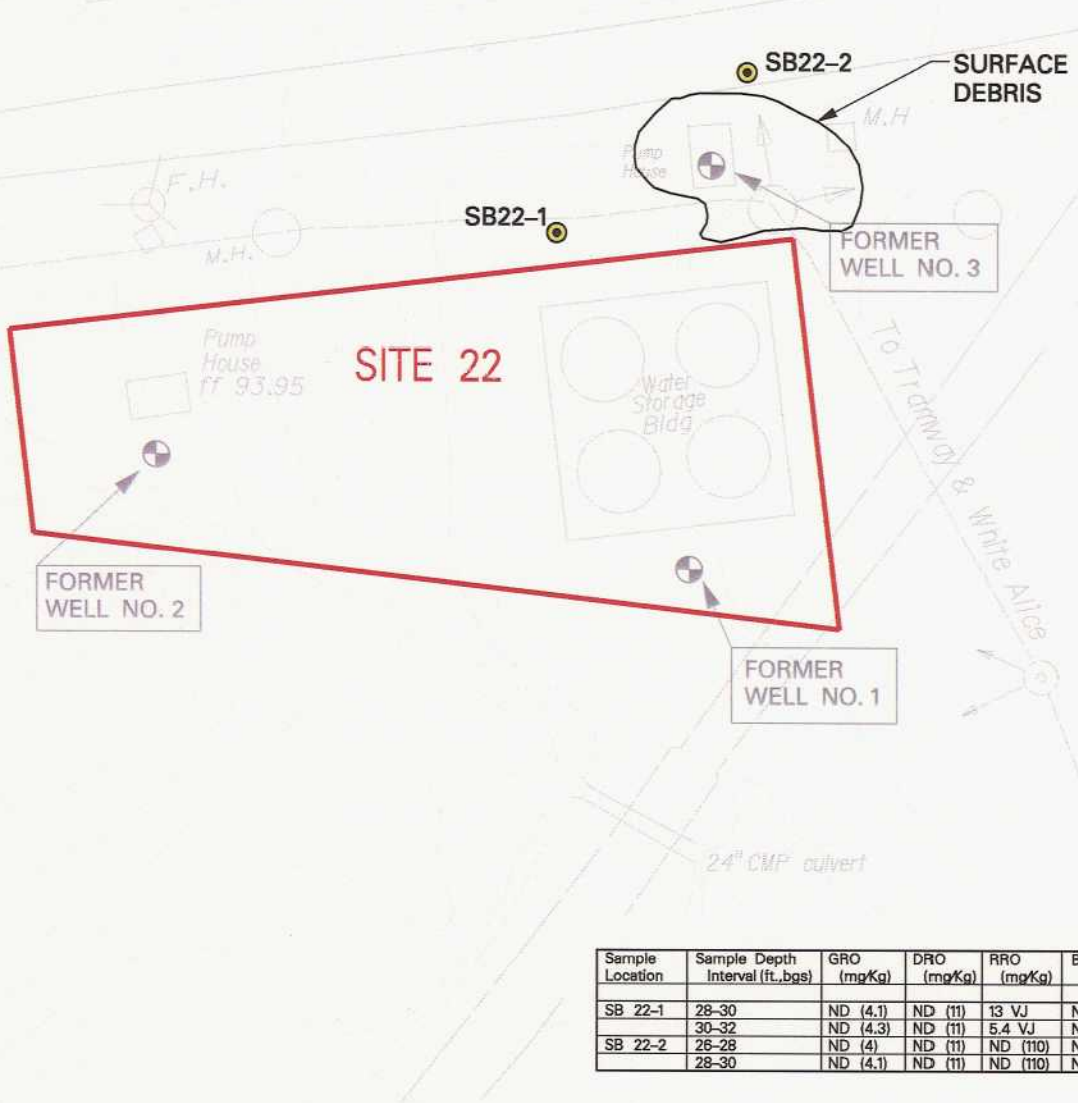

LEGEND

- 2001 Potable Water Well Sample Location
- 2002 Borehole/Soil Sample Location
- DRO Diesel Range Organics
- ( ) Method Reporting Limit
- mg/Kg Milligrams per Kilogram
- ND Not Detected
- RRO Residual Range Organics
- VJ Estimated Value
- BGS Below Ground Surface
- GRO Gasoline Range Organics

Sample Location	Sample Depth Interval (ft.,bgs)	GRO (mg/Kg)	DRO (mg/Kg)	RRO (mg/Kg)	Benzene (mg/Kg)	Ethylbenzene (mg/Kg)	Toluene (mg/Kg)	o-Xylene (mg/Kg)	m & p- Xylene (mg/Kg)	Naphthalene (mg/Kg)	Chromium (mg/Kg)
SB 22-1	28-30	ND (4.1)	ND (11)	13 VJ	ND (0.019)	ND (0.047)	ND (0.047)	ND (0.047)	ND (0.047)	0.00092 VJ	7.26
	30-32	ND (4.3)	ND (11)	5.4 VJ	ND (0.017)	ND (0.042)	ND (0.042)	ND (0.042)	ND (0.042)	ND (0.0053)	7.87
SB 22-2	26-28	ND (4)	ND (11)	ND (110)	ND (0.016)	ND (0.038)	ND (0.038)	ND (0.038)	ND (0.038)	0.00072 VJ	9.09 VJ
	28-30	ND (4.1)	ND (11)	ND (110)	ND (0.015)	ND (0.037)	ND (0.037)	ND (0.037)	ND (0.037)	0.00031 VJ	7.88

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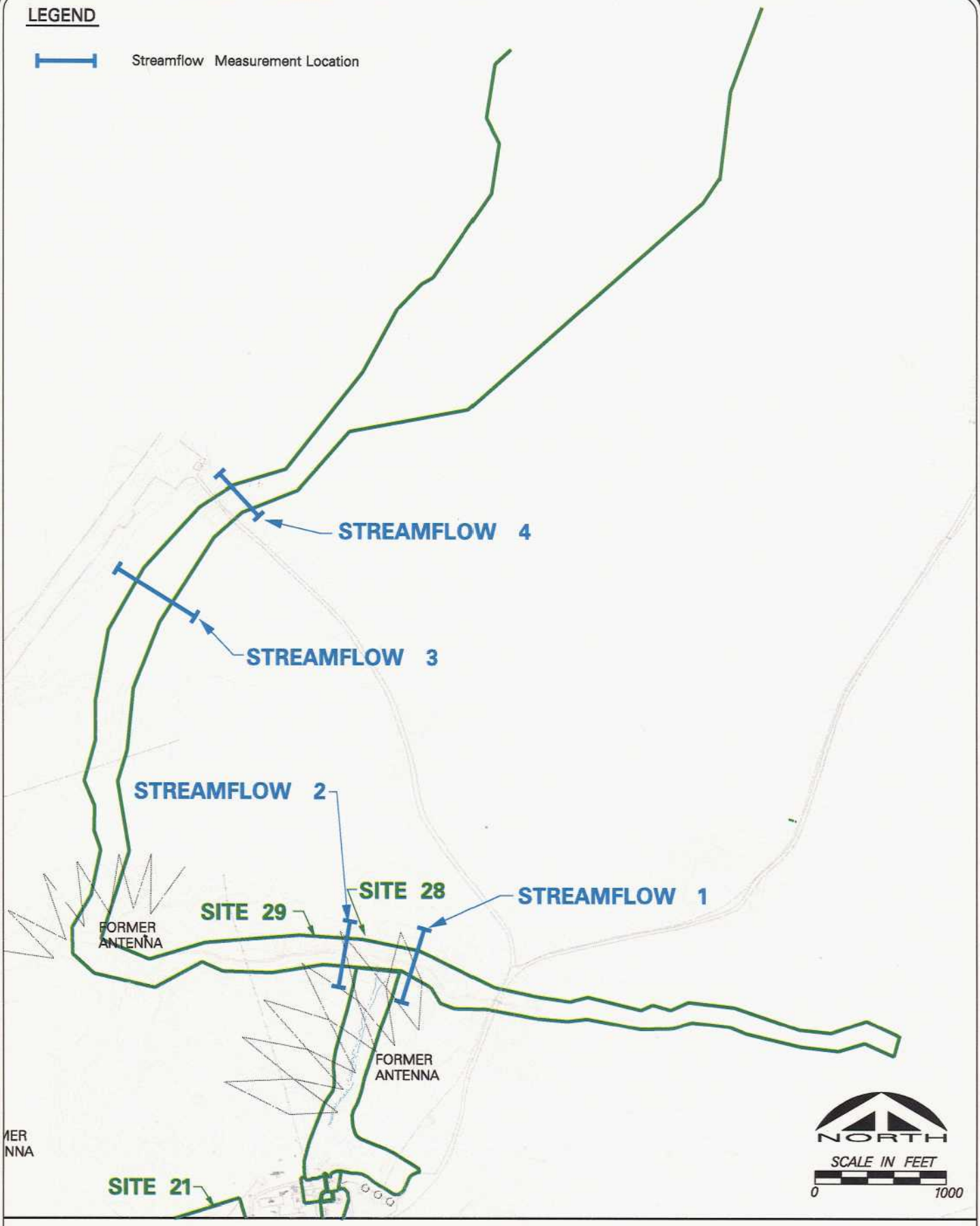
Anchorage, Alaska

FIGURE 2-3

U. S. ARMY ENGINEER DISTRICT, ALASKA – N. E. CAPE, ALASKA
2002 PHASE III REMEDIAL INVESTIGATION TECHNICAL MEMORANDUM

LOCATIONS AND SELECTED RESULTS SITE 22 FORMER WATER WELLS AND WATER SUPPLY BUILDING 2002 SAMPLING



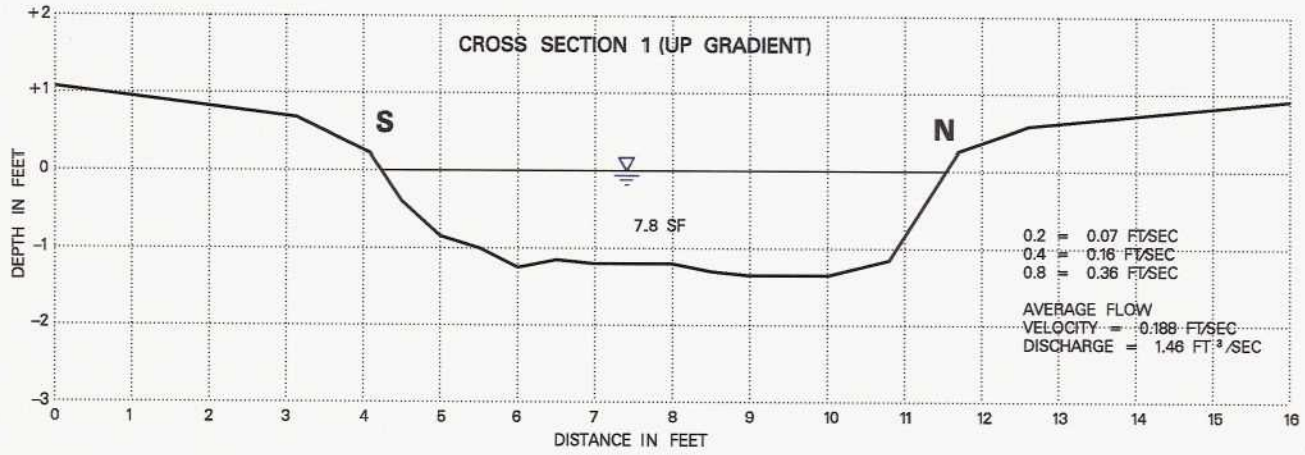
TIME: 18-OCT-2002 11:01 FILE: \\usancls-filesrv\server\CadPro]\usace\necape\02rl_ph3\techmemo\draft\fig2-04.DGN

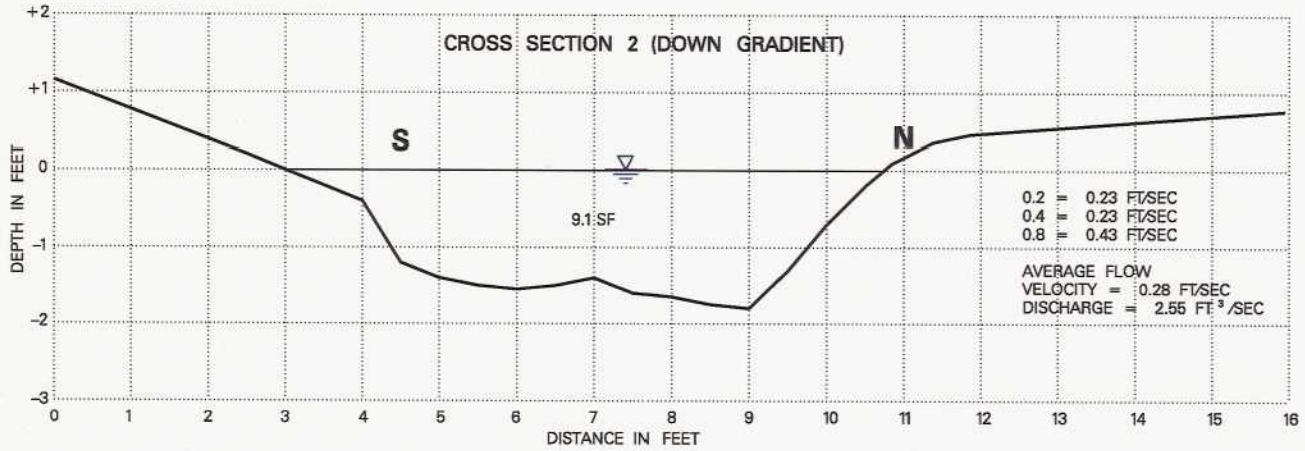
MWH
MONTGOMERY WATSON HARZA
Anchorage, Alaska

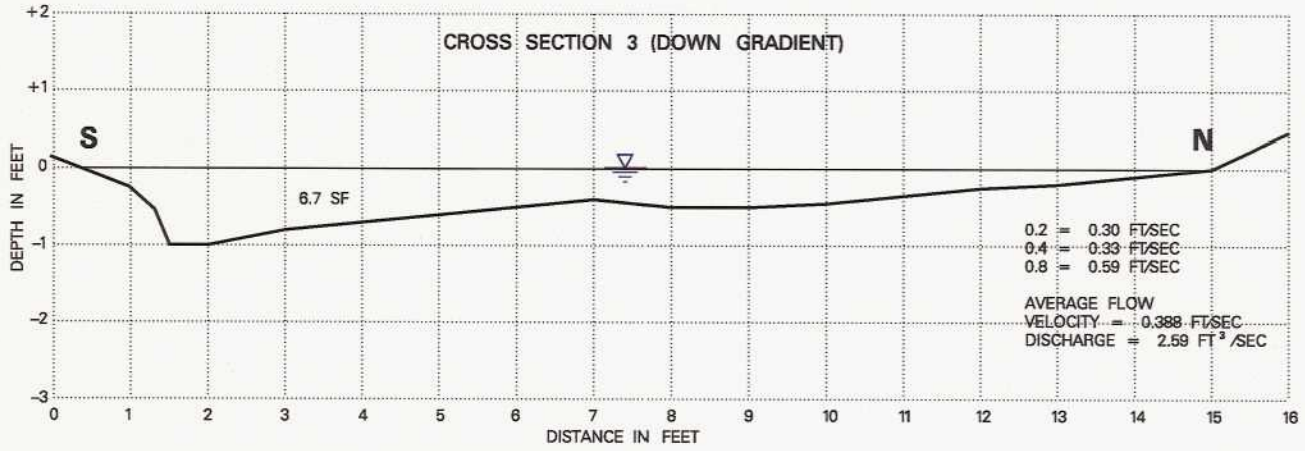
FIGURE 2-4

U. S. ARMY ENGINEER DISTRICT, ALASKA – N. E. CAPE, ALASKA
2002 PHASE III REMEDIAL INVESTIGATION TECHNICAL MEMORANDUM

SITE 29 – SUQITUGHNEQ RIVER
2002 STREAMFLOW MEASUREMENT LOCATION







Marsh–McBirney Discharge Calculation

1. Identify the centerline of the channel.
2. Calculate positions on the centerline by:
   - 0.2 X depth
   - 0.4 X depth
   - 0.8 X depth
3. Measure velocity at the .2, .4, and .8 positions from the bottom using flowmeter.
4. Average the .2 and .8 velocities; average this value with the .8 velocity.
5. Multiply velocity (ft/sec) by area (ft2 /sec) to get discharge (ft3/sec)

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MONTGOMERY WATSON HARZA
Anchorage, Alaska

FIGURE 2–5

U. S. ARMY ENGINEER DISTRICT, ALASKA – N. E. CAPE, ALASKA
2002 PHASE III REMEDIAL INVESTIGATION TECHNICAL MEMORANDUM

CALCULATION OF DRAINAGE BASIN DISCHARGE

Sampling locations and selected analytical results are shown on Figures 2-2 (Site 88) and Figure 2-3 (Site 22), A complete summary of analytical results are included in Attachment 2. Survey data is included in Attachment 3.

The focus of the 2002 Phase III RI environmental media sampling was to collect sufficient soil and groundwater samples at the MOC and Site 22 to achieve the following:

- Determine the volume, including depth and areal extent, of contaminated soil at the MOC
- Evaluate the impact of a utilidor at Site 22 on the surrounding soil.
- Determine the depth to the deep aquifer inferred to be present below the MOC
- Perform a hydrologic characterization study at the MOC.
- Update the Human Health and Ecological Risk Assessments for Site 22 and sites at the MOC where applicable.

2.2 SUQITUGHNEQ RIVER FLOW MEASUREMENT

The flow rate of the Suqitughneq was measured at the same locations as in 2001 to evaluate the difference in discharge rates and at an additional point west of the bridge leading from the airstrip (Figures 2-4 and 2-5). An attempt was made to measure the flow east of the bridge, near the lagoon, but the flow was shallow and slight and failed to register on the flow meter. It was observed that all water levels were at the lowest in recent times in the ponds, streams, and discharge points throughout the facility.

3.0 DEVIATIONS FROM THE WORK PLAN

All fieldwork was performed in accordance with the Work Plan, Phase III Remedial Investigation, Northeast Cape, St. Lawrence Island, Alaska, Final (MW, 2001), except at Site 22. The two soil borings at Site 22 (SB 22-1 and SB 22-2) were planned to continue to the groundwater interface, but were terminated due to refusal at the bedrock surface at 32 and 36 feet below ground surface.

ATTACHMENT 1

Field Note Forms

Northeast Cape Phase III Remedial Investigation
2002 Sample Plan

										Soil							Groundwater						Geotechnical	
										DRO/RRO AK 102/103	GRO AK101	BTEX SW8260B	PAHSIM SW8270C	PCB SW9082	Pb, Zn, Cr SW6020	TOC	DRO/RRO AK102/103	GRO AK101	BTEX SW8260B	Alkalinity EPA 300	Sulfate EPA 300	Methan, Ethane, Ethene, RSK 175	Sieve Analysis ASTM D-422, Specific Gravity ASTM D-854, Moisture Content ASTM D-2216	Dry Bulk Densit ASTM D-2937, Hydraulic Conductivity ASTM D-4511, Soil Porosity - Calculated
Sample ID	Sample Type	Media	Sample Location	Date 2002	Time	Depth	PID	Laboratory	COC #															
02NE88SB001	N	Soil	MW-1	08/14/02	1530	15.5-17.5	204	CAS	1,2	1	1	1	1	1	1	1								
02NE88SB001	MS/MSD	Soil	MW-1	08/14/02	1530	15.5-17.5	-	CAS	1,2	1	1	1	1	1	1	1								
02NE88SB002	N	Soil	MW-1	08/14/02	1600	17.5-20.0	98.7	CAS	1,2	1	1	1	1	1	1	1								
02NE88SB003	N	Soil	MW-2	08/14/02	1645	8.0-10.0	30.9	CAS	1,2	1	1	1	1	1	1	1								
02NE88SB004	N	Soil	MW-2	08/14/02	1700	10.0-12.0	13.8	CAS	1,2	1	1	1	1	1	1	1								
02NE88SB005	N	Soil	MW-3	08/15/02	1155	4.0-6.0	67.7	CAS	1,2	1	1	1	1	1	1	1								
02NE88SB006	N	Soil	MW-3	08/17/02	1110	16.0-18.0	185.8	CAS	1,2	1	1	1	1	1	1	1								
02NE88SB206	FD	Soil	MW-3	08/17/02	1110	16.0-18.0	-	CAS	1,2	1	1	1	1	1	1	1								
02NE88SB306	QA	Soil	MW-3	08/17/02	1110	16.0-18.0	-	STL	14	1	1	1	1	1	1	1								
02NE88SB007	N	Soil	MW-4	08/17/02	1320	9.0-11.0	284	CAS	1,2	1	1	1	1	1	1	1								
02NE88SB008	N	Soil	MW-4	08/17/02	1330	11.0-13.0	440	CAS	1,2	1	1	1	1	1	1	1								
02NE88SB009	N	Soil	MW-5	08/17/02	2000	1.0-3.0		CAS	1,2	1	1	1	1	1	1	1								
02NE88SB010	N	Soil	MW-5	08/17/02	2030	11.0-13.0		CAS	1,2	1	1	1	1	1	1	1								
02NE88SB011	N	Soil	MW-6	08/18/02	1145	7.0-9.0	185	CAS	1,2	1	1	1	1	1	1	1								
02NE88SB012	N	Soil	MW-6	08/18/02	1155	11.0-13.0	111	CAS	1,2	1	1	1	1	1	1	1								
02NE88SB013	N	Soil	MW-7	08/18/02	1335	7.0-9.0	695	CAS	1,2	1	1	1	1	1	1	1								
02NE88SB014	N	Soil	MW-7	08/18/02	1350	11.0-13.0	627	CAS	1,2	1	1	1	1	1	1	1								
02NE88SB015	N	Soil	MW-8	08/18/02	1700	10.0-12.0	1248*	CAS	9, 10	1	1	1	1	1	1	1								
02NE88SB016	N	Soil	MW-8	08/18/02	1720	14.0-16.0	>10,000*	CAS	9, 10	1	1	1	1	1	1	1								
02NE88SB016	MS/MSD	Soil	MW-8	08/18/02	1720	14.0-16.0		CAS	9, 10		1	1												
02NE88SB017	N	Soil	MW-9	08/19/02	1310	8.0-10.0	2876*	CAS	9, 10	1	1	1	1	1	1	1								
02NE88SB017	MS/MSD	Soil	MW-9	08/19/02	1310	8.0-10.0		CAS	9, 10	1			1	1	1									
02NE88SB018	N	Soil	MW-9	08/19/02	1355	20.0-22.0	342*	CAS	9, 10	1	1	1	1	1	1	1								
02NE88SB019	N	Soil	MW-10	08/19/02	1705	22.0-24.0	881*	CAS	9, 10	1	1	1	1	1	1	1								
02NE88SB020	N	Soil	MW-10	08/19/02	1715	24.0-26.0	352*	CAS	9, 10	1	1	1	1	1	1	1								
02NE88SB021	N	Soil	SB-11	08/17/02	1820	3.0-5.0		CAS	1,2	1	1	1	1	1	1	1								
02NE88SB022	N	Soil	SB-11	08/17/02	1840	8.0-10.0		CAS	1,2	1	1	1	1	1	1	1								
02NE88SB023	N	Soil	SB-12	08/20/02	1250	4.0-6.0	89	CAS	9, 10	1	1	1	1	1	1	1								
02NE88SB024	N	Soil	SB-12	08/20/02	1305	10.0-12.0	53	CAS	9, 10	1	1	1	1	1	1	1								
02NE88SB025	N	Soil	SB-13	08/20/02	1415	6.0-8.0	153	CAS	9, 10	1	1	1	1	1	1	1								
02NE88SB026	N	Soil	SB-13	08/20/02	1435	14.0-16.0	11.2	CAS	9, 10	1	1	1	1	1	1	1								
02NE88SB027	N	Soil	SB-14	08/20/02	1505	2.0-4.0	6080	CAS	9, 10	1	1	1	1	1	1	1								
02NE88SB028	N	Soil	SB-14	08/20/02	1530	12.0-14.0	150	CAS	9, 10	1	1	1	1	1	1	1								
02NE88SB029	N	Soil	SB-15	08/20/02	1730	10.0-12.0	277.9	CAS	9, 10	1	1	1	1	1	1	1								
02NE88SB030	N	Soil	SB-15	08/20/02	1735	12.0-14.0	133	CAS	9, 10	1	1	1	1	1	1	1								
02NE88SB031	N	Soil	SB-16	08/20/02	1850	6.0-8.0	1558	CAS	9, 10	1	1	1	1	1	1	1								
02NE88SB032	N	Soil	SB-16	08/20/02	1905	10.0-12.0	2672	CAS	9, 10	1	1	1	1	1	1	1								
02NE88SB033	N	Soil	SB-17	08/21/02	1500	8.0-10.0	>10,000	CAS	12, 13	1	1	1	1	1	1	1								
02NE88SB034	N	Soil	SB-17	08/21/02	1510	12.0-14.0	>10,000	CAS	12, 13	1	1	1	1	1	1	1								
02NE88SB234	FD	Soil	SB-17	08/21/02	1515	-	-	CAS	12, 13	1	1	1	1	1	1	1								
02NE88SB035	N	Soil	SB-18	08/21/02	1555	8.0-10.0	4903	CAS	12, 13	1	1	1	1	1	1	1								
02NE88SB235	QA	Soil	SB-18	08/21/02	1600			STL	14	1	1	1	1	1	1	1								
02NE88SB235	QA MS/MSD	Soil	SB-18	08/21/02	1600			STL	14	1	1	1	1	1	1	1								
02NE88SB036	N	Soil	SB-18	08/21/02	1605	10.0-12.0	4113	CAS	12, 13	1	1	1	1	1	1	1								
02NE88SB236	FD	Soil	SB-18	08/21/02	1607	-	-	CAS	12, 13	1	1	1	1	1	1	1								
02NE88SB037	N	Soil	SB-22-1	08/22/02	1400	28.0-30.0	0	CAS	12, 13	1	1	1	1	1	1	1								
02NE88SB237	FD	Soil	SB-22-1	08/22/02	1405	-	-	CAS	12, 13	1	1	1	1	1	1	1								
02NE88SB038	N	Soil	SB-22-1	08/22/02	1410	30.0-32.0	0	CAS	12, 13	1	1	1	1	1	1	1								
02NE88SB338	QA	Soil	SB-22-1	08/22/02	1415			STL	14	1	1	1	1	1	1	1								
02NE88SB039	N	Soil	SB-22-2	08/22/02	1935	26.0-28.0	0	CAS	12, 13	1	1	1	1	1	1	1								
02NE88SB239	FD	Soil	SB-22-2	08/22/02	1940	-	-	CAS	12, 13	1	1	1	1	1	1	1								
02NE88SB040	N	Soil	SB-22-2	08/22/02	1950	28.0-30.0	0	CAS	12, 13	1	1	1	1	1	1	1								
02NE88SB340	QA	Soil	SB-22-2	08/22/02	1955			STL	14	1	1	1	1	1	1	1								
02NE88SB041	N	Soil	MW-6	08/18/02	1140	4.0-6.0	90.8	R&M	15														1	1
02NE88SB042	N	Soil	MW-9	08/19/02	1315	10.0-12.0		R&M	15														1	1
02NE88SB043	N	Soil	SB-16	08/20/02	1900	8.0-10.0		R&M	15														1	1
02NE88SB044	N	Soil	SB-18	08/21/02	1605	9.0-11.0		R&M	15														1	1
02NE88GW001	N	Groundwater	MW-1	08/17/02	1400	-	-	CAS	3								1	1	1	1	1	1		
02NE88GW002	N	Groundwater	MW-2	08/17/02	1700	-	-	CAS	3								1	1	1	1	1	1		
02NE88GW003	N	Groundwater	MW-3	08/19/02	1230	-	-	CAS	5, 6, 7								1	1	1	1	1	1		
02NE88GW004	N	Groundwater	MW-4	08/19/02	1400	-	-	CAS	5, 6, 7								1	1	1	1	1	1		
02NE88GW204	FD	Groundwater	MW-4	08/19/02	1410	-	-	CAS	5, 6, 7								1	1	1	1	1	1		
02NE88GW304	QA	Groundwater	MW-4	08/19/02	1420	-	-	STL	8								1	1	1	1	1	1		
02NE88GW304	QA MS/MSD	Groundwater	MW-4	08/19/02	1420	-	-	STL	8								1	1	1					
02NE88GW005	N	Groundwater	MW-5	08/19/02	1500	-	-	CAS	5, 6, 7								1	1	1	1	1	1		
02NE88GW006	N	Groundwater	MW-6	08/20/02	1300	-	-	CAS	5, 6, 7								1	1	1	1	1	1		
02NE88GW007	N	Groundwater	MW-7	08/20/02	1400	-	-	CAS	5, 6, 7								1	1	1	1	1	1		
02NE88GW007	MS/MSD	Groundwater	MW-7	08/20/02	1400	-	-	CAS	5, 6, 7								1	1	1	1	1	1		
02NE88GW008	N	Groundwater	MW-8	08/20/02	1500	-	-	CAS	5, 6, 7								1	1	1	1	1	1		
02NE88GW009	N	Groundwater	MW-9	08/21/02	1500	-	-	CAS	11								1	1	1	1	1	1		
02NE88GW010	N	Groundwater	MW-10	08/21/02	1400	-	-	CAS	11								1	1	1	1	1	1		
02NE88TB001	Trip Blank	Soil	-	08/14/02	2100	-	-	CAS	2									1	1					
02NE88TB002	Trip Blank	Water	-	08/17/02	2100	-	-	CAS	3									1	1			1		
02NE88TB003	Trip Blank	Water	-	08/19/02	2100	-	-	CAS	5									1	1			1		
02NE88TB004	Trip Blank	Water	-	08/19/02	2100	-	-	STL	8									1	1					
02NE88TB005	Trip Blank	Soil	-	08/18/02	2100	-	-	CAS	10									1	1					
02NE88TB006	Trip Blank	Water	-	08/19/02	2100	-	-	CAS	11									1	1			1		
02NE88TB007	Trip Blank	Soil	-	08/21/02	2100	-	-	CAS	12									1	1					
02NE88TB008	Trip Blank	Soil	-	08/17/02	2100	-	-	STL	14									1	1					
02NE88EB001	Equipment Blank	Water	-	08/14/02	2100	-	-	CAS	3								1	1	1					
02NE88EB002	Equipment Blank	Water	-	08/17/02	2100	-	-	CAS	3								1	1	1					
02NE88EB003	Equipment Blank	Water	-	08/18/02	2100	-	-	CAS	3								1	1	1					
02NE88EB004	Equipment Blank	Water	-	08/19/02	2100	-	-	CAS	11								1	1	1					
02NE88EB005	Equipment Blank	Water	-	08/20/02	2100	-	-	CAS	11								1	1	1					

KEY:

- >- greater than
- AK- Alaska Method
- ASTM- American Society for Testing and Materials
- BTEX- benzene, toluene, ethylbenzene, xylenes
- CAS- Columbia Analytical Services
- Cr- chromium
- DRO/RRO- diesel range organics/residual range organics
- EPA Environmental Protection Agency
- FD- field duplicate
- GRO- gasoline range organics
- MS/MSD- matrix spike/matrix spike duplicate
- N- primary sample
- Pb- lead
- PID- photo-ionization detector
- QA- quality assurance
- R&M- R&M Geotechnical services
- STL- Severn Trent Laboratories
- TOC- total organic carbon
- Zn- zinc

TAILGATE SAFETY MEETING FORM

Date: 8-12-02 Time: 1500 Job Number: 1850574.260120

Client: USACE

Mon

Site-Specific Location: Northeast Cape, St. Lawerence Island

Safety Topics Presented

Protective Clothing/
Equipment: _____

Chemical Hazards: _____

Physical Hazards: Air travel

Special Equipment: _____

Other (IIPP): _____

Emergency Procedure: 911, Medevac LifeGaurd Alaska Flight 1-800-478-5433

Hospital: Norton Sound Regional, Nome AK Phone: _____ Ambulance Phone: _____

Hospital Address Route: Map Located in work Plan Fig. 5-1

ATTENDEES

NAME PRINTED	SIGNATURE
Doug Quist	
Bill Oconnor	William A. Connell

Meeting Conducted By: Bonnie McLean (Name Printed) Bonnie McLean (Signature)

Project Safety Officer: Bonnie McLean (Name Printed) Project Manager: Bonnie McLean (Signature)

MWH
MONTGOMERY WATSON HARZA

TAILGATE SAFETY MEETING FORM

Date: 8-13-02 Time: 1000 Job Number: 1850574.260120

Client: USACE

Two

Site-Specific Location: Northeast Cape, St. Lawerence Island

Safety Topics Presented

Protective Clothing/ Equipment: Gloves (chemical resistant), Rainwear, steel toe boots, hardhats

Chemical Hazards: POL

Physical Hazards: WIND, RAIN SLIP FALL NAILS in board, Drill Rig operations, Lifting

Special Equipment: Bear watch, SAT phone, Arctic tent & stove

Other (IIPP): Drinking WATER

SAT phone 001-

Emergency Procedure: 911, Medevac LifeGaurd Alaska Flight 1-800-478-5433

Hospital:	Phone:	Ambulance Phone:
Norton Sound Regional, Nome AK		

Hospital Address Route: Map Located in work Plan Fig. 5-1

ATTENDEES

NAME PRINTED	SIGNATURE
Doug Quist	
Bill O Connell	William A. O'Connell
Ralph Needham	
Gregg Turner	

Meeting Conducted By: Bonnie McLean (Name Printed) (Signature)

Project Safety Officer: Bonnie McLean (Name Printed) Project Manager: Bonnie McLean (Signature)

MWH
MONTGOMERY WATSON HARZA

TAILGATE SAFETY MEETING FORM

Date: 8-14-02 Time: ~~800~~ 1000 Job Number: 1850574.260120

WED Client: USACE

Site-Specific Location: Northeast Cape, St. Lawerence Island

Safety Topics Presented

Protective Clothing/ Equipment: Gloves (chemical resistent), Rainwear, steel toe boots, hardhats

Chemical Hazards: POL

Physical Hazards: Drill Rig operations WIND, RAIN SLIP FALL NAILS in board, Ice

Special Equipment: Bear watch, SAT phone, Arctic tents & stove

Other (IIPP): Drinks, WATER

Emergency Procedure: SAT phone 001- 911, Medevac LifeGaurd Alaska Flight 1-800-478-5433

Hospital:	Phone:	Ambulance Phone:
Norton Sound Regional, Nome AK		

Hospital Address Route: Map Located in work Plan Fig. 5-1

ATTENDEES

NAME PRINTED	SIGNATURE
Doug Quist	
Bill O'Connell	William A. O'Connell
Ralph Newland	
Greg Turner	
Added Floyd Kenyentuk Jr	

Meeting Conducted By: Bonnie McLean (Name Printed) Bonnie McLean (Signature)

Project Safety Officer: Bonnie McLean (Name Printed) Project Manager: Bonnie McLean (Signature)

MWH MONTGOMERY WATSON HARZA

TAILGATE SAFETY MEETING FORM

Date: 8-15-02 Time: 1100 Job Number: 1850574.260120

Client: USACE

Site-Specific Location: Northeast Cape, St. Lawerence Island

Safety Topics Presented

Protective Clothing/ Equipment: rain gear, hard hat, boots,

Chemical Hazards: Diesel POL

Physical Hazards: Drill Rig operation Slip fall wind blown debris

Special Equipment: sat phone remote

Other (IIPP):

Emergency Procedure: 911, Medevac LifeGaurd Alaska Flight 1-800-478-5433

Hospital: Norton Sound Regional, Nome AK Phone: Ambulance Phone:

Hospital Address Route: Map Located in work Plan Fig. 5-1

ATTENDEES

NAME PRINTED	SIGNATURE
Johanna Dreher	Johanna L. Dreher
Douglas Quist	Douglas Quist
William A. O'Connell	William A. O'Connell
RALPH NEWLAND	Ralph Newland
Greg Turner	Greg Turner

Meeting Conducted By: Bonnie McLean (Name Printed) Bonnie McLean (Signature)

Project Safety Officer: Bonnie McLean (Name Printed) Project Manager: Bonnie McLean (Signature)

MWH
MONTGOMERY WATSON HARZA

TAILGATE SAFETY MEETING FORM

Friday Date: 8-16-02 Time: 1540 Job Number: 1850574.260120

Client: USACE

Site-Specific Location: Northeast Cape, St. Lawerence Island

Travel to Work

Safety Topics Presented

Protective Clothing/ Equipment: Gloves(chemical resistent), Raingear, steel toe boots, hardhats

Chemical Hazards: POL

Physical Hazards: Drill Rig operations WIND, RAIN SLIP FALL NAILS in board, FOX

Special Equipment: Bear watch, SAT phone, Arctic tent & stove

Other (IIPP): Drinks, WATER

SAT phone 001-

Emergency Procedure: 911, Medevac LifeGaurd Alaska Flight 1-800-478-5433

Hospital: Norton Sound Regional, Nome AK Phone: Ambulance Phone:

Hospital Address Route: Map Located in work Plan Fig. 5-1

ATTENDEES

NAME PRINTED	SIGNATURE
Bill Oconnell	William A. Oconnell
Doug Quist	Douglas A. Quist
Ralph Newland	
Gregg Turner	

Meeting Conducted By: Bonnie McLean (Name Printed) Bonnie McLean (Signature)

Project Safety Officer: Bonnie McLean (Name Printed) Project Manager: Bonnie McLean (Signature)

MWH
MONTGOMERY WATSON HARZA

TAILGATE SAFETY MEETING FORM

Date: 8-17-02 Time: 1600 Job Number: 1850574.260120

Client: USACE

Site-Specific Location: Northeast Cape, St. Lawerence Island

Safety Topics Presented

Protective Clothing/ Equipment: Gloves (chemical resistent), Raingear, steel toe boots, hardhats

Chemical Hazards: POL

Physical Hazards: Drill Rig operations WIND, RAIN SLIP FALL NAILS in board, FIR

Special Equipment: Bear watch, SAT phone, Arctic tent & stove

Other (IIPP): Drinks, WATER

Emergency Procedure: SAT phone 001 — 911, Medevac LifeGaurd Alaska Flight 1-800-478-5433

Hospital:	Phone:	Ambulance Phone:
Norton Sound Regional, Nome AK		

Hospital Address Route: Map Located in work Plan Fig. 5-1

ATTENDEES

NAME PRINTED	SIGNATURE
Bob O'connor	Wilbert A. Arnold
Doug Quist	Daughter
Ralph Newland	
Greg Turner	

Meeting Conducted By: Bonnie McLean (Name Printed) (Signature)

Project Safety Officer: Bonnie McLean (Name Printed) Project Manager: Bonnie McLean (Signature)

MWH
MONTGOMERY WATSON HARZA

TAILGATE SAFETY MEETING FORM

Date: 8-18-02 Time: 830 Job Number: 1850574.260120

Client: USACE

Site-Specific Location: Northeast Cape, St. Lawerence Island

Safety Topics Presented

Protective Clothing/ Equipment: ATV helmets, Hard Hats, Raingear, eye & ear protection

Chemical Hazards: Diesel

Physical Hazards: Drill Rig operation, ATV, fox, open flame

Special Equipment: fog, wind, cold, SAT phone, Walkie Talkies

Other (IIPP): Arctic tent/stove, heater

Emergency Procedure: 911, Medevac LifeGaurd Alaska Flight 1-800-478-5433

Hospital: Norton Sound Regional, Nome AK Phone: ______ Ambulance Phone: ______

Hospital Address Route: Map Located in work Plan Fig. 5-1

ATTENDEES

NAME PRINTED	SIGNATURE
Ralph Newland	Ralph Newland
William A. O'Connell	William A. O'Connell
Douglas Quist	Douglas
Gregg Turner	Greg Turner

Meeting Conducted By: Bonnie McLean (Name Printed) — Bonnie McLean (Signature)

Project Safety Officer: Bonnie McLean (Name Printed) Project Manager: Bonnie McLean (Signature)

MWH
MONTGOMERY WATSON HARZA

TAILGATE SAFETY MEETING FORM

Date: 8/19/02 Time: 1005 Job Number: 1850574.260120

Client: USACE

Site-Specific Location: Northeast Cape, St. Lawerence Island

Safety Topics Presented

Protective Clothing/ Equipment: PPE

Chemical Hazards: Hexane

Physical Hazards: Slip, trip, Fall, Flying Debris

Special Equipment:

Other (IIPP):

Emergency Procedure: 911, Medevac LifeGaurd Alaska Flight 1-800-478-5433

Hospital: Norton Sound Regional, Nome AK Phone: Ambulance Phone:

Hospital Address Route: Map Located in work Plan Fig. 5-1

ATTENDEES

NAME PRINTED	SIGNATURE
Johanna L. Dreher	[signature]
DON MULLIKIN	[signature]
Ralph Dowland	[signature]
William Connell	[signature]
Gregg Tinney	[signature]

Meeting Conducted By: ~~Bonnie McLean~~ Doug Quist (Name Printed) [signature] (Signature)

Project Safety Officer: Bonnie McLean (Name Printed) Project Manager: Bonnie McLean (Signature)

MWH MONTGOMERY WATSON HARZA

TAILGATE SAFETY MEETING FORM

Date: 8-20-02 Time: 1030 Job Number: 1850574.260120

Client: USACE

Site-Specific Location: Northeast Cape, St. Lawerence Island

Safety Topics Presented

Protective Clothing/ Equipment: Rain gear, steel toed Boots

Chemical Hazards: POL

Physical Hazards: Drill Rig operation, ATV travel, slip trip fall, nails in debris, wind blown debris

Special Equipment:

Other (IIPP): Sat. phone 00-1 + number

Emergency Procedure: 911, Medevac LifeGaurd Alaska Flight 1-800-478-5433

Hospital: Norton Sound Regional, Nome AK Phone: Ambulance Phone:

Hospital Address Route: Map Located in work Plan Fig. 5-1

ATTENDEES

NAME PRINTED	SIGNATURE
Carolyn Turner	Carolyn Turner
Johanna Dreher	Johanna Dreher
William A. Harrell	William A. Harrell
Ralph Newsand	Ralph Newsand

Meeting Conducted By: ~~Bonnie McLean~~ Douglas Quist (Name Printed) (Signature)

Project Safety Officer: Bonnie McLean (Name Printed) Project Manager: Bonnie McLean (Signature)

MWH
MONTGOMERY WATSON HARZA

TAILGATE SAFETY MEETING FORM

Date: 8-21-02 Time: 1310 Job Number: 1850574.260120

Client: USACE

Site-Specific Location: Northeast Cape, St. Lawerence Island

Safety Topics Presented

Protective Clothing/ Equipment: PPE

Chemical Hazards:

Physical Hazards: Wind, Slip, Trip, Fall

Special Equipment: Drill Rig, Pits

Other (IIPP):

Emergency Procedure: 911, Medevac LifeGaurd Alaska Flight 1-800-478-5433

Hospital: Norton Sound Regional, Nome AK Phone: Ambulance Phone:

Hospital Address Route: Map Located in work Plan Fig. 5-1

ATTENDEES

NAME PRINTED	SIGNATURE
Johanna Drecher	Johanna L. Drecher
William A. O'Connell	William A. O'Connell
Gregg Turner	Gregg Turner
Ralph Newland	Ralph Newland

Meeting Conducted By: ~~Bonnie McLean~~ Douglas Quist / Name Printed — Signature

Project Safety Officer: Bonnie McLean Name Printed — Project Manager: Bonnie McLean Signature

MWH
MONTGOMERY WATSON HARZA

MONTGOMERY WATSON	*PERSONAL ACKNOWLEDGEMENT FORM*	Project Number: 1850574.260120

Project: NEC, St Lawrence Is., 2002	**Client: USACOE**	**Project Manager:** Bonnie McLean

As a component of the Site Safety and Health Plan (SHSP) designed to provide personnel safety during this project, you are required to read and understand the SHSP. When you have fulfilled this requirement, please sign and date this personal acknowledgement.

Name (Printed)	Signature	Date
Ralph L. Newland	Ralph L Newland	07-26-02
Gregg Turner	Gregg Turner	7-29-02

LAND USE AGREEMENT COMMITMENT

The CONTRACTOR and any CONTRACTOR representative arriving on St. Lawrence Island will abide by the land-use agreement in-place between the land holders and the USACOE. Any actions not in accordance with this agreement by a CONTRACTORs representative shall require immediate removal from St. Lawrence Island at the CONTRACTORs expense. All expenses incurred by MWH Americas, Inc. (MWH) while awaiting personnel replacement shall be reimbursed by the CONTRACTOR. The following are the major points of the Land-Use Agreement which will be enforced:

- No alcohol in any form will be transported, consumed, or offered without compensation, for sale or trade on St. Lawrence Island.
- No non-prescription drugs will be transported, consumed, or offered without compensation, for sale or trade on St. Lawrence Island.
- No prescription drugs will be offered for sale, trade or provided to any others on St. Lawrence Island.
- No fire arms will be transported, carried, used or discharged by CONTRACTORs personnel on St. Lawrence Island.
- No one will collect or purchase any raw material covered under the U.S. Marine Protection Act (i.e. bones, ivory, baleen).
- No one will collect any artifact while on St. Lawrence Island.

Gregg Turner
Signature

7-29-02
Date

Gregg Turner
Print Name

Discovery Drilling Inc.
Representing

LAND USE AGREEMENT COMMITMENT

The CONTRACTOR and any CONTRACTOR representative arriving on St. Lawrence Island will abide by the land-use agreement in-place between the land holders and the USACOE. Any actions not in accordance with this agreement by a CONTRACTORs representative shall require immediate removal from St. Lawrence Island at the CONTRACTORs expense. All expenses incurred by MWH Americas, Inc. (MWH) while awaiting personnel replacement shall be reimbursed by the CONTRACTOR. The following are the major points of the Land-Use Agreement which will be enforced:

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- No prescription drugs will be offered for sale, trade or provided to any others on St. Lawrence Island.
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- No one will collect or purchase any raw material covered under the U.S. Marine Protection Act (i.e. bones, ivory, baleen).
- No one will collect any artifact while on St. Lawrence Island.

Signature

07-26-02
Date

RALPH NEWLAND
Print Name

DISCOVERY DRILLING INC.
Representing

LAND USE AGREEMENT COMMITMENT

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- No prescription drugs will be offered for sale, trade or provided to any others on St. Lawrence Island.
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- No one will collect or purchase any raw material covered under the U.S. Marine Protection Act (i.e. bones, ivory, baleen).
- No one will collect any artifact while on St. Lawrence Island.

William A. O'Connell — Signature

7-26-02 — Date

William A. O'Connell — Print Name

MWH — Representing

LAND USE AGREEMENT COMMITMENT

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- No non-prescription drugs will be transported, consumed, or offered without compensation, for sale or trade on St. Lawrence Island.
- No prescription drugs will be offered for sale, trade or provided to any others on St. Lawrence Island.
- No fire arms will be transported, carried, used or discharged by CONTRACTORs personnel on St. Lawrence Island.
- No one will collect or purchase any raw material covered under the U.S. Marine Protection Act (i.e. bones, ivory, baleen).
- No one will collect any artifact while on St. Lawrence Island.

Johanna L. Dreher
Signature

7/26/02
Date

Johanna L. Dreher
Print Name

MWH
Representing

LAND USE AGREEMENT COMMITMENT

The CONTRACTOR and any CONTRACTOR representative arriving on St. Lawrence Island will abide by the land-use agreement in-place between the land holders and the USACOE. Any actions not in accordance with this agreement by a CONTRACTORs representative shall require immediate removal from St. Lawrence Island at the CONTRACTORs expense. All expenses incurred by MWH Americas, Inc. (MWH) while awaiting personnel replacement shall be reimbursed by the CONTRACTOR. The following are the major points of the Land-Use Agreement which will be enforced:

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- No prescription drugs will be offered for sale, trade or provided to any others on St. Lawrence Island.
- No fire arms will be transported, carried, used or discharged by CONTRACTORs personnel on St. Lawrence Island.
- No one will collect or purchase any raw material covered under the U.S. Marine Protection Act (i.e. bones, ivory, baleen).
- No one will collect any artifact while on St. Lawrence Island.

Douglas Quist
Signature

7/26/02
Date

Doug Quist
Print Name

MWH
Representing

LAND USE AGREEMENT COMMITMENT

The CONTRACTOR and any CONTRACTOR representative arriving on St. Lawrence Island will abide by the land-use agreement in-place between the land holders and the USACOE. Any actions not in accordance with this agreement by a CONTRACTORs representative shall require immediate removal from St. Lawrence Island at the CONTRACTORs expense. All expenses incurred by MWH Americas, Inc. (MWH) while awaiting personnel replacement shall be reimbursed by the CONTRACTOR. The following are the major points of the Land-Use Agreement which will be enforced:

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- No prescription drugs will be offered for sale, trade or provided to any others on St. Lawrence Island.
- No fire arms will be transported, carried, used or discharged by CONTRACTORs personnel on St. Lawrence Island.
- No one will collect or purchase any raw material covered under the U.S. Marine Protection Act (i.e. bones, ivory, baleen).
- No one will collect any artifact while on St. Lawrence Island.

Signature

7-23-02
Date

Bonnie Mchoa
Print Name

MWH
Representing

MONTGOMERY WATSON	*PERSONAL ACKNOWLEDGEMENT FORM*	Project Number: 1850574.260120

Project: NEC, St Lawrence Is., 2002	**Client: USACOE**	**Project Manager:** Bonnie McLean

As a component of the Site Safety and Health Plan (SHSP) designed to provide personnel safety during this project, you are required to read and understand the SHSP. When you have fulfilled this requirement, please sign and date this personal acknowledgement.

Name (Printed)	Signature	Date
Johanna Drecher	Johanna F. Drecher	7-26-02
William A. O'Connell	William A. O'Connell	7-26-02
Bonnie McLean	Bonnie McLean	7-26-02
Douglas Quist	Douglas Quist	7-26-02

MONTGOMERY WATSON	*PERSONAL ACKNOWLEDGEMENT FORM*	Project Number: 1850574.260120
Project: NEC, St Lawrence Is., 2002	**Client: USACOE**	**Project Manager:** Bonnie McLean

As a component of the Site Safety and Health Plan (SHSP) designed to provide personnel safety during this project, you are required to read and understand the SHSP. When you have fulfilled this requirement, please sign and date this personal acknowledgement.

Name (Printed)	Signature	Date
Ralph L. Newland	Ralph L Newland	07-26-02
Gregg Turner	Gregg Turner	7-28-02

MONTGOMERY WATSON
Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: 850574.260120 | BORING NO.: 88-1

PROJECT: Phase III RI | SITE: Northeast Cape, St. Lawernce Is | CLIENT: USACE - Alaska | GEOLOGIST: McLean

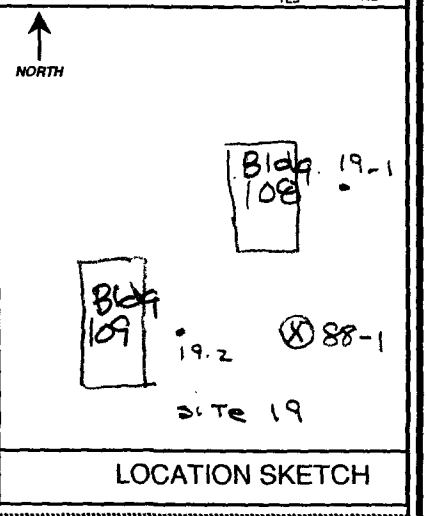
DATE: 8/14/02 | WEATHER: clay. rain | AK STATE PLANE COORDINATES: 96392.8914 (Northing) 98090.4492 (Easting) | ELEVATION DATUM: MSL

DRILLING METHOD: Hollow stem | BORING SIZE: 8 1/4" | HAMMER DROP (IN/LBS): 30/360 | RIG TYPE: CME 45 | DRILLER/ COMPANY: Discovery

SAMPLES: 2 | SAMPLE TYPE: grab | SAMPLER TYPE/DIAMETER: 2 1/2" SS | TOTAL DEPTH (FT): 22.5 | DEPTH TO SWL (FT): 20.0 | TOP OF HOLE ELEVATION: 82.29

DEPTH (FEET)	BLOWS (6 IN.)	GRAIN SIZE % GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE TIME	SAMPLE INTERVAL	SOIL DESCRIPTION (ASTM 2488)
0						SP		1430		Fill, fine crushed rock PID
									(1)	88-1 (0-2.5) 1.0
1										Reddish brown
										Dry, NO odor, NO STAINING
2										
	11					SP		1445		88-1 (2.5-5.0) 1.0
3	9									No change fill material
	10								(1)	Sand & crushed rock
4	12									dry,
	12									No odor, No staining
5	6					GM		1450		moist, Dark olive brown
	9	10	80	10	.25					sand with silt on broken rock
6	8								(2)	88-1 (5-7.5) PID 1.2
	10									NO odor, NO STAINING
7										
	46							1500		88-1 (7.5-10.0)
8	43									NO retrieval, lg Broken rock in
	35									sampler
9	15									NO odor
	7									
10	8							1500		88-1 (10-12.5) PID 180.0
	15									NO retrieval,
11	12								(3)	NO odor
	1									
12	17									Dry
	31							1515		88-1 (12.5-15.0)
13	36									NO retrieval, Pushed rock in front
	39									of sampler
14	33									
	31									Dry, NO odor, NO staining
15	7					SP		1530		88-1 (15-17.5), grey brown crushed rock
	34				1.5				(4)	PID 204.0
16	36					GM				Dry, Crushed rock with fines, L
	31									NO odor, NO STAINING LAB 02NE89SB01
17										MS/MSD
								1600		
18	29					GM			(5)	88-1 (18-20) no change PID 98.7
	21									
19	27									LAB 02NE89SB02
	50									
20								1605		88-1 (20-20.5) SAT
										NO recovery 20.0
21									(X)	

WELL COMPLETED? YES ☒ NO ☐



LOCATION SKETCH

MONTGOMERY WATSON Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.:

BORING NO.: 88-1

SHEET 2 OF 2

PROJECT Phase III RI SITE Northeast Cape, St. Lawernce Is CLIENT USACE - Alaska GEOLOGIST McLean

DATE 8/14/02 WEATHER Cldy Rain AK STATE PLANE COORDINATES See p. 1 (Northing) (Easting) ELEVATION DATUM

DRILLING METHOD Hollow Stem BORING SIZE 8 1/4" HAMMER DROP (IN/LBS) 30/360 RIG TYPE CME 45 DRILLER/COMPANY Discovery

SAMPLES SAMPLE TYPE SAMPLER TYPE/DIAMETER TOTAL DEPTH (FT) DEPTH TO SWL (FT) TOP OF HOLE ELEVATION

DEPTH (FEET)	BLOWS (6 IN.)	% GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE TIME	SAMPLE INTERVAL	SOIL DESCRIPTION (ASTM 2488)
20										
	20					GM			↕	88-1 (20-22.5), gry brown sand w/silt
1	17							1610		saturated,
	28									
2	27							⑥		DT 22.5' PID 18.6
3										
4										
5										
6										
7										
8										
9										
30										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										

WELL COMPLETED? ☒ YES ☐ NO

NORTH

See p. 1

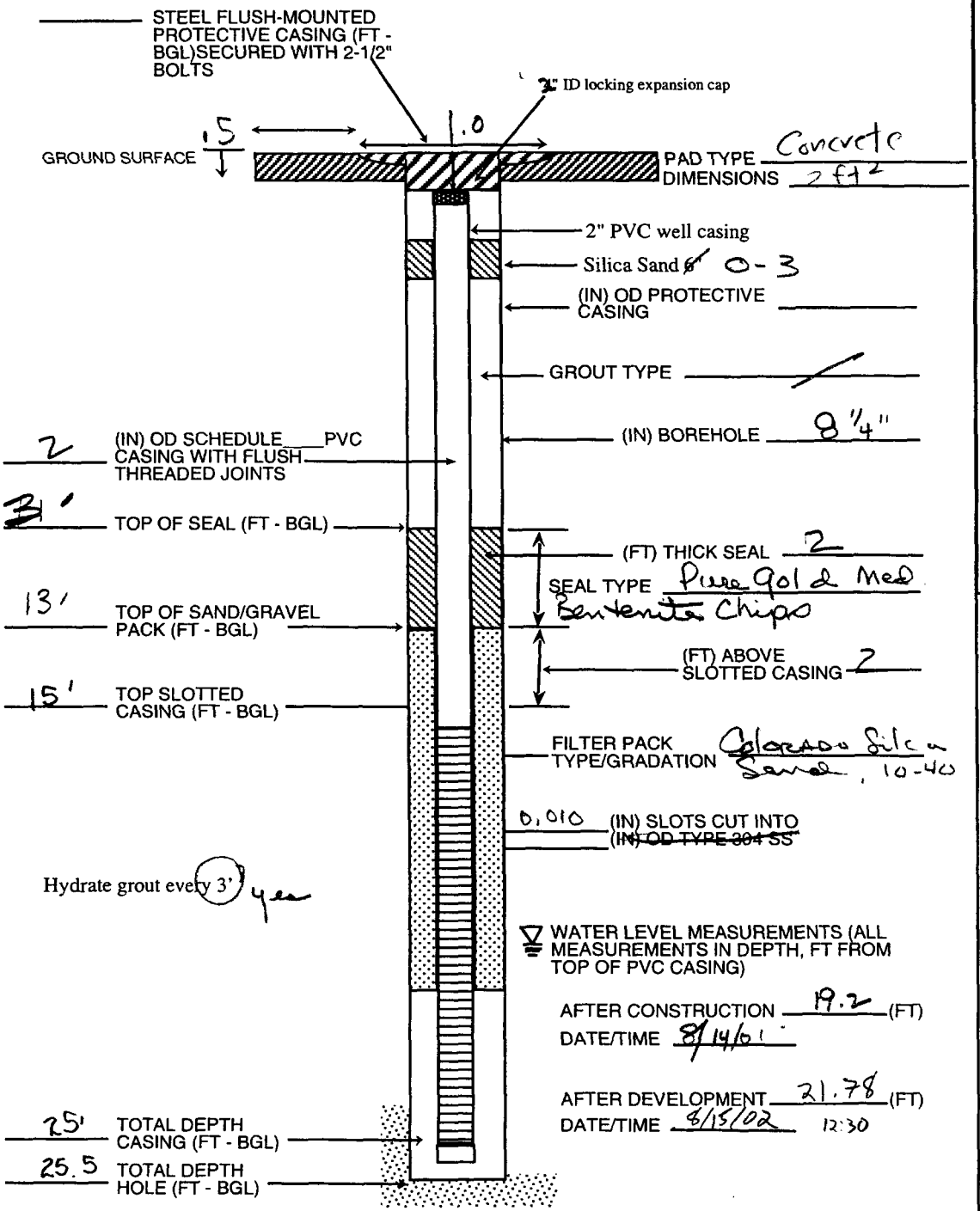
LOCATION SKETCH

WELL CONSTRUCTION LOG

MONTGOMERY WATSON Anchorage, Alaska

PROJECT NO.:	WELL NO.:	SHEET
1850574.260120	88-1	1 OF 1

PROJECT: Phase III RI	SITE: Northeast Cape, St.. Lawernce Island	CLIENT: USACE	GEOLOGIST: McLean
DATE: 8/14/02	WEATHER: Cldy	LOCATION COORDINATES: 96392.8914 (Northing) 98080.4499 (Easting)	ELEVATION DATUM: MSL (MSL/Other)
DRILLING METHOD: Hollow -Stem Auger	BORING SIZE: 8¼"	RIG TYPE: CME 45	DRILLER/ COMPANY: Discovery
SURVEYED ELEVATIONS	GROUND SURFACE: 82.29	TOP OF PROTECTIVE CASING: 82.29	TOP OF PVC CASING: 81.89



WELL SAMPLED? [X] YES [ ] NO

QUANTITY MATERIALS USED:

Bentonite(lbs)	140
Sand(lbs)	380
Grout(lbs)	
Screen(ft)	10'
Blank Casing(ft)	15'
Bottom Cap(ea)	1
Top Cap(ea)	1
Flush Mount	Yes
Protective Casing (ft)	
Lock	0911
MISC.:	

NOTES

MONTGOMERY WATSON
Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: 185741 2.60120 | BORING NO.: 88-2 | SHEET 1 OF 1

PROJECT: Phase III RI | SITE: Northeast Cape, St. Lawernce Is | CLIENT: USACE - Alaska | GEOLOGIST: McLean

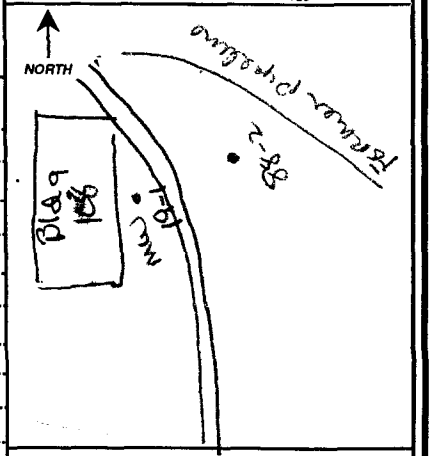
DATE: 8/4/02 | WEATHER: Cldy, WINDY | AK STATE PLANE COORDINATES: 96455.0726 (Northing) 98257.8812 (Easting) | ELEVATION DATUM: MSL

DRILLING METHOD: HSA | BORING SIZE: 8 1/4 | HAMMER DROP (IN/LBS): 30"/360 | RIG TYPE: CME 45 | DRILLER/ COMPANY: Discovery

SAMPLES: 2 | SAMPLE TYPE: grab | SAMPLER TYPE/DIAMETER: 2 1/2" SS | TOTAL DEPTH (FT): 18.0 | DEPTH TO SWL (FT): 14.5 | TOP OF HOLE ELEVATION: 71.18

DEPTH (FEET)	BLOWS (6 IN.)	GRAIN SIZE % GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE TIME	SAMPLE INTERVAL	SOIL DESCRIPTION (ASTM 2488)
0						SP		1620		fill, crushed/broken rock w/ sandy fines PID 0
1										
2										
3	18 7	9	9	10		SM		1620	(1)	88-2 (2.5-5.0), Dark brown sand w fine PID = 19.0
4	6 6									
5	5 5									NO STAINING
6	5					SM		1640	(2)	88-2 (5-7.5) No Recovery PID = 29.8
7	9									NO ODOR, NO STAINING
8	6									88-2 (7.5-10.0) PID = 30.9
9	8 7					SM		1645	(3)	LAB 02 NE 88 SB 003
10	6									NO ODOR NO STAINING
11	9 8							1700	(4)	88-2 (10-12.5) Recovery; rock in shoe
12	12 20									NO ODOR PID 13.8 LAB 02 NE 88 SB 004
13								1710		Saturated No recovery
14										▽ 14.5
15										
16										
17										
18										D, 19.0
19										
20										
21										

WELL COMPLETED? ☒ YES ☐ NO



LOCATION SKETCH

MONTGOMERY WATSON

WELL CONSTRUCTION LOG

PROJECT NO.:	WELL NO.:	SHEET
1850574.260120	MW 88-2	1 OF 1

PROJECT: Phase III RI | SITE: Northeast Cape, St.. Lawernce Island | CLIENT: USACE | GEOLOGIST: McLean

DATE: 8/14/02 | WEATHER: cldy, Windy | LOCATION COORDINATES: 96455.0726 (Northing) 98257.4812 (Easting) | ELEVATION DATUM: MSL (MSL/Other)

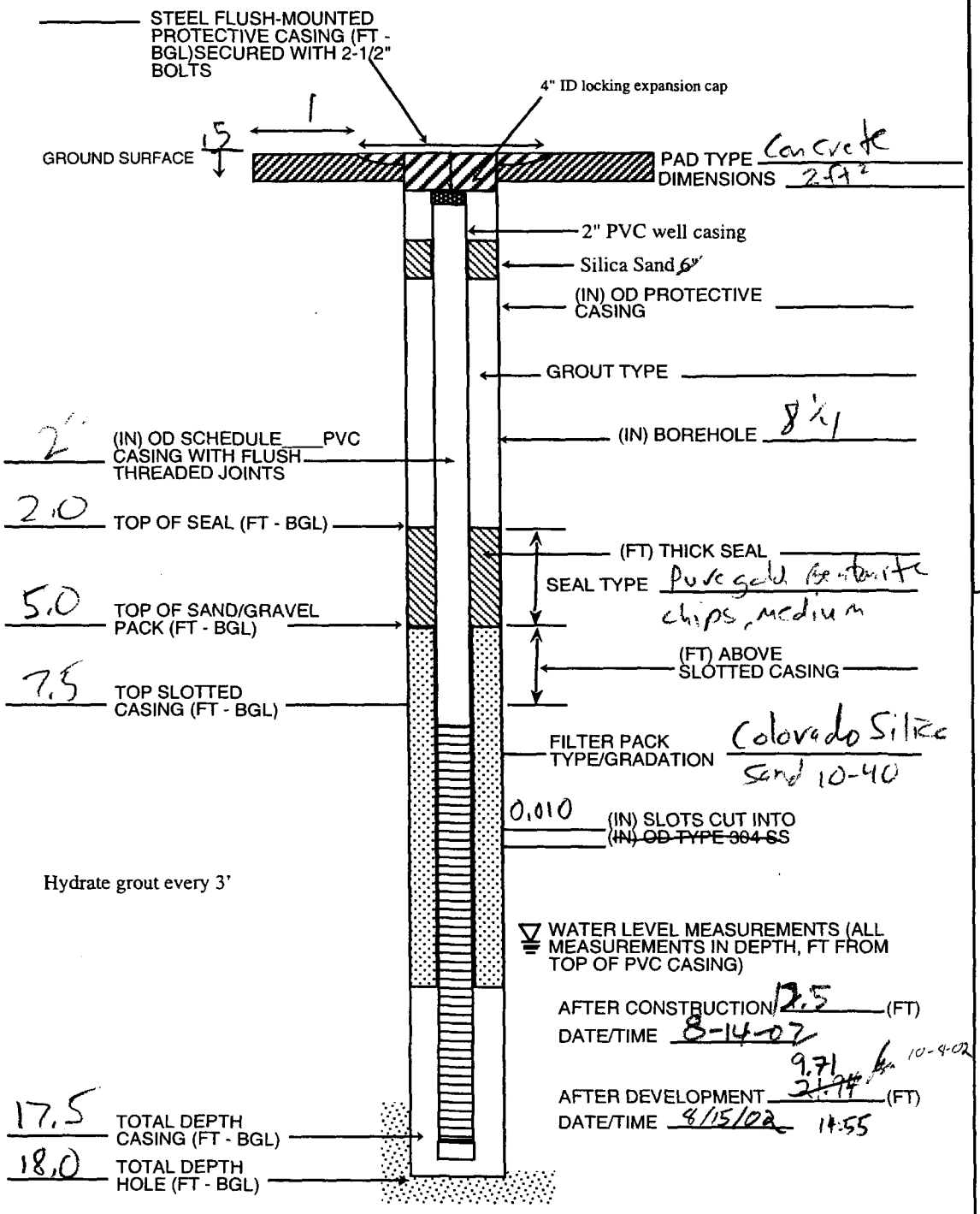
DRILLING METHOD: Hollow -Stem Auger | BORING SIZE: 8¼ | RIG TYPE: CME 45 | DRILLER/ COMPANY: Discovery

SURVEYED ELEVATIONS | GROUND SURFACE: 71.18 ~~71.18~~ | TOP OF PROTECTIVE CASING: 71.18 | TOP OF PVC CASING: 70.88

WELL SAMPLED? ☒ YES ☐ NO

QUANTITY MATERIALS USED:

Bentonite(lbs)	120
Sand(lbs)	320
Grout(lbs)	—
Screen(ft)	10
Blank Casing(ft)	—
Bottom Cap(ea)	1
Top Cap (ea)	1
Flush Mount	yes
Protective Casing (ft)	
Lock	1
MISC.:	



NOTES

MONTGOMERY WATSON Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: 1855574 / 2601820 | BORING NO.: 88-3 | SHEET 1 OF

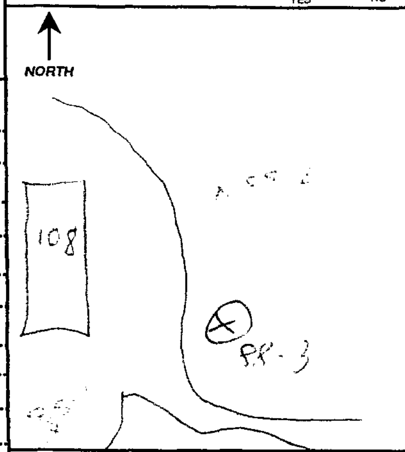
PROJECT: Phase III RI | SITE: Northeast Cape, St. Lawernce Is | CLIENT: USACE - Alaska | GEOLOGIST: O'Connell / ~~McLean~~

DATE: 8/15/02 | WEATHER: Cloudy Windy ≈ 30 Kts | AK STATE PLANE COORDINATES: 96458.3545 (Northing) 98169.9401 (Easting) | ELEVATION DATUM: MSL

DRILLING METHOD: Hollow Stem Auger | BORING SIZE: 8 1/4" | HAMMER DROP (IN/LBS): 30/360 | RIG TYPE: CME 45 | DRILLER/COMPANY: Discovery

SAMPLES: 2 | SAMPLE TYPE: Grab | SAMPLER TYPE/DIAMETER: 2" SS | TOTAL DEPTH (FT): 20 | DEPTH TO SWL (FT): 15.5' | TOP OF HOLE ELEVATION: 77.75

WELL COMPLETED? YES [X] NO [ ]



LOCATION SKETCH

Sample	DEPTH (FEET)	BLOWS (6 IN.)	% GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE TIME	SAMPLE INTERVAL	SOIL DESCRIPTION (ASTM 2488)
	0						SP				Fill - Rocks + gravel
	1										
	2										
	3										
1	4	5					SW		1155	↑	No odor - greenish brown
		5									angular gravel .5 - 1.5 inches
	5	6									gravel ≈ 30%
		5								↓	PID ~ 67.7
	6										~~LAB~~ 02 NE 88 SB005
	7										No recovery
2	8	50							1203	↑	No Recovery - Rock
											PID = 42.4
	9									↓	
	10	50							1210	↑	No Recovery - Rock
	11									↓	
3	12	21							1221	↑	No Recovery - Rock
		15									PID = 44.8
	13	12									Continued
		16								↓	8-17-02
4	14	9					SP		1110	↑	Broken Drive line on Drill-Rig
		14									Shut down for the day
	15	12									← grey Sandy - Stops Drilling resumed 8-17-02
		10								↓	Broken Rock odor
	16	14								↑	PID = 79.8
5		23					SP				Grey Sandy Slight odor LAB ID 02 NE 88 SB06
	17	21									Angular rocks ≤ 1-2" 02NE88SB206 (FD) 02NE88SB306 (QA)
		27					▽				Water on spoon - not evident in samples
	18										
											PID = 185.8
	19									↓	
	20										
	21										Combined (4) & (5) for LAB Sample

WELL CONSTRUCTION LOG

MONTGOMERY WATSON

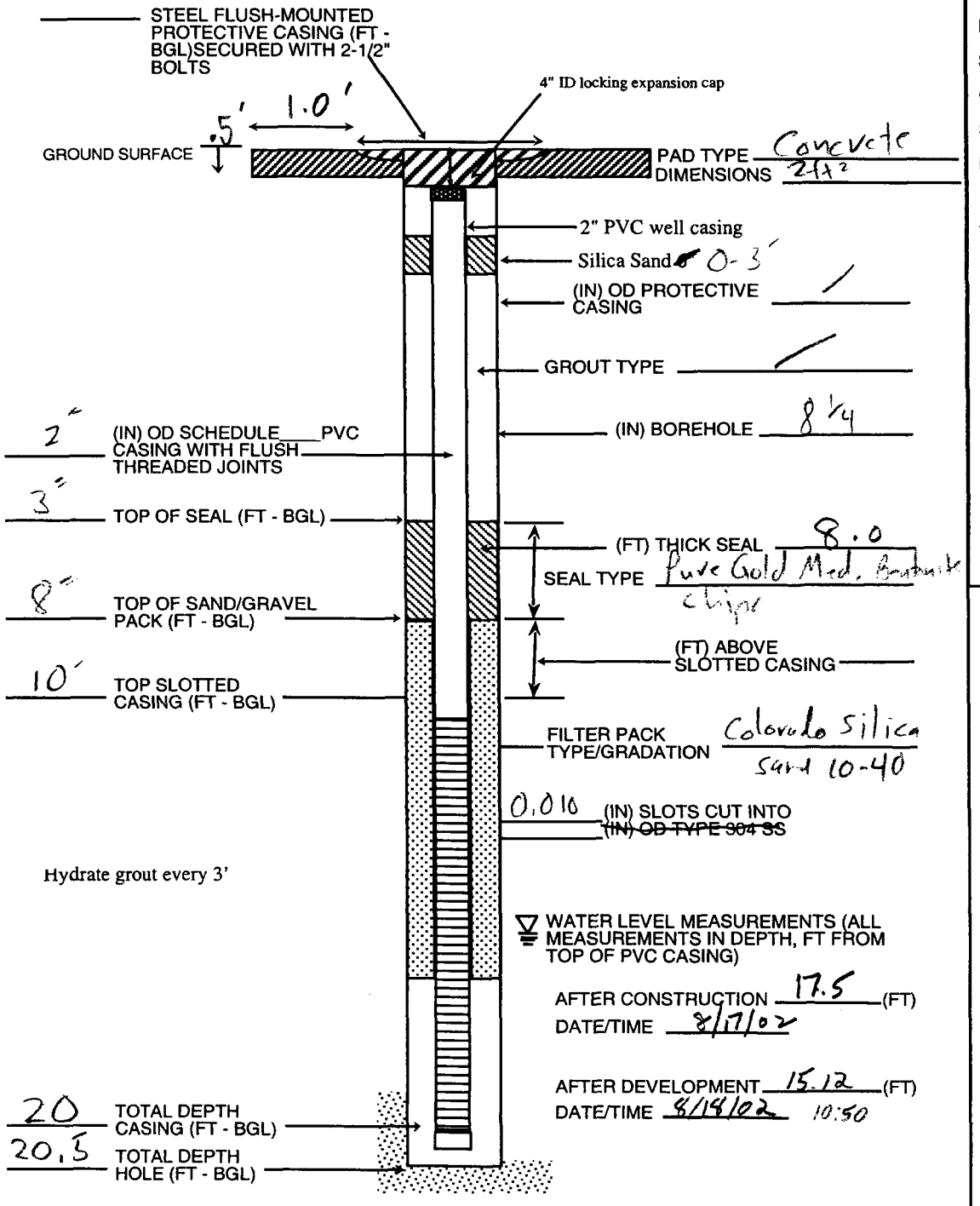
PROJECT NO.:	WELL NO.:	SHEET
1850574.260120	88-3	1 OF 1

PROJECT: Phase III RI | SITE: Northeast Cape, St.. Lawernce Island | CLIENT: USACE | GEOLOGIST: ~~McLean~~ O'Connell

DATE: 8/17/02 | WEATHER: Cloudy | LOCATION COORDINATES: 96458.3585 (Northing) 98169.9401 (Easting) | ELEVATION DATUM: MSL (MSL/Other)

DRILLING METHOD: Hollow -Stem Auger | BORING SIZE: 8 1/4 | RIG TYPE: CME 45 | DRILLER/ COMPANY: Discovery

SURVEYED ELEVATIONS | GROUND SURFACE: 77.75 | TOP OF PROTECTIVE CASING: 77.75 | TOP OF PVC CASING: 77.35



WELL SAMPLED? ☒ YES ☐ NO

QUANTITY MATERIALS USED:

Bentonite(lbs)	150
Sand(lbs)	330
Grout(lbs)	-
Screen(ft)	10
Blank Casing(ft)	10
Bottom Cap(ea)	1
Top Cap(ea)	1
Flush Mount	1
Protective Casing (ft)	
Lock	1
MISC.:	

NOTES

MONTGOMERY WATSON
Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: 1850574 360120
BORING NO.: 88-5
SHEET 1 OF 1

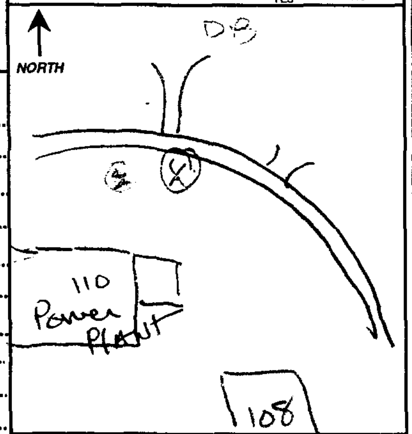
PROJECT Phase III RI SITE Northeast Cape, St. Lawernce Is. CLIENT USACE - Alaska GEOLOGIST ~~McLean~~ O'Connell

DATE 8/17/02 WEATHER Cldy WINDY AK STATE PLANE COORDINATES 96216.7210 (Northing) 98292.1088 (Easting) ELEVATION DATUM MSL

DRILLING METHOD HSA BORING SIZE 8 1/4" HAMMER DROP (IN/LBS) 30/300 RIG TYPE CME45 DRILLER/COMPANY Discovery

SAMPLES 2 SAMPLE TYPE Grab SAMPLER TYPE/DIAMETER 2' SS TOTAL DEPTH (FT) 16.5 DEPTH TO SWL (fT) 11.0' TOP OF HOLE ELEVATION 68.37

WELL COMPLETED? YES [X] NO [ ]



LOCATION SKETCH

DEPTH (FEET)	BLOWS (6 IN.)	% GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE TIME	SAMPLE INTERVAL	SOIL DESCRIPTION (ASTM 2488)
21	10, 4					SP		2000	↕	Brown sandy with ... silt. No odor
22	5, 6									02NE88SB009 PID =
23									↕	No recovery. Rock in soil cap
24										
25	5, 11					PT		2015	↕	Organic peat some sand. Strong odor PID =
26	6, 5									Very Dense
27	4, 6					PT		2020	↕	Organic peat grading to grey sand at 8 ft. Fine sand
28	5, 9									Odor in peat, Not in sand PID =
29	6, 6					SW		2025	↕	Greenish grey faint odor fine sand PID =
30	5, 7					▽				
31	11, 9					SW		2030	↕	Dark grey coarse sand, wet - No odor. 02NE88SB010
32	9, 16									Water @ 11 ft
33										
34										
35										02NE88SB009 1.0-3.0; 02NE88SB010 11.0-13.0
36										Bottom of Well
37										DT 16
38										
39										
40										
41										
42										

WELL CONSTRUCTION LOG

MONTGOMERY WATSON

PROJECT NO.: 1850574.260120

WELL NO.: 88-4

SHEET 1 OF 1

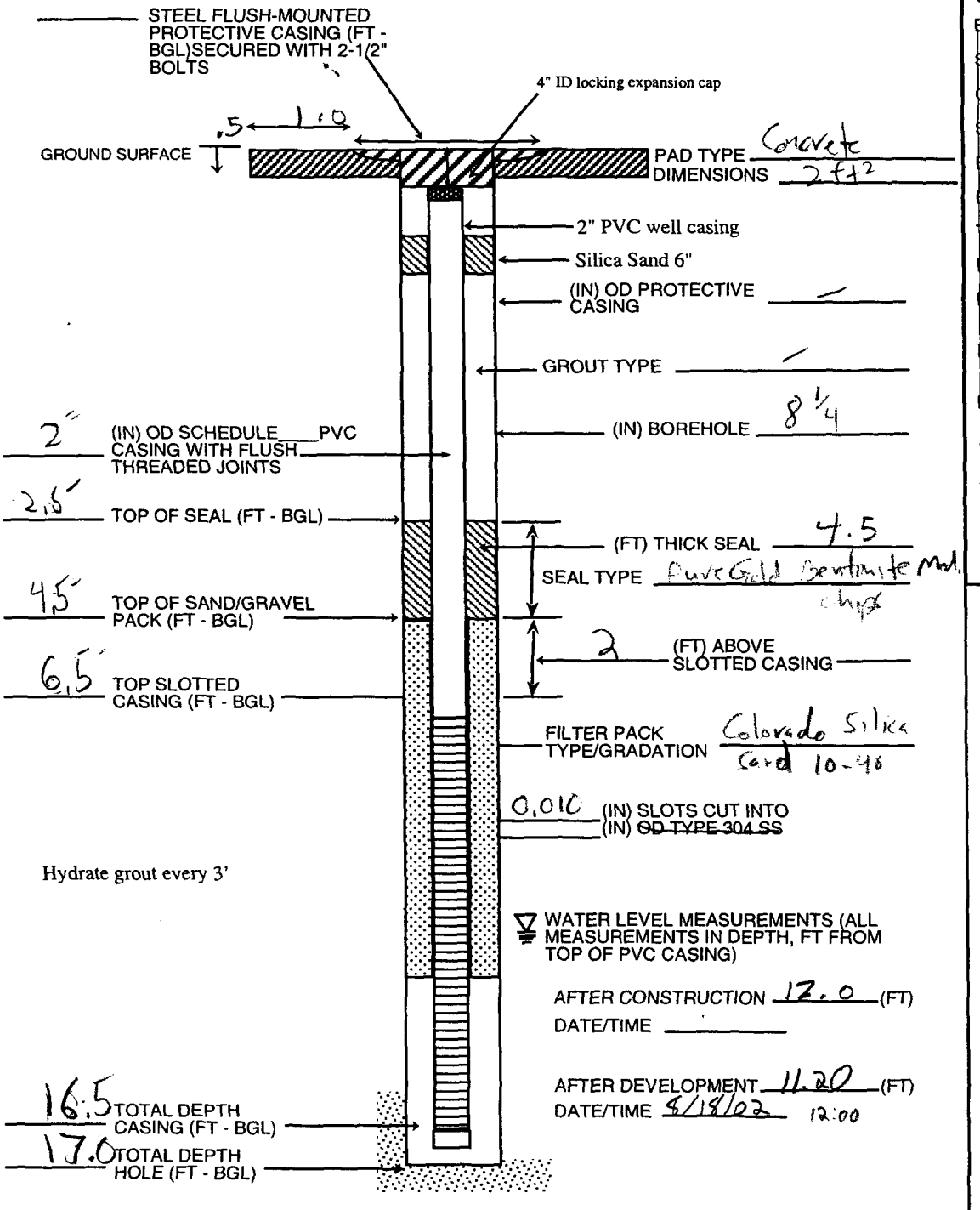
PROJECT: Phase III RI | SITE: Northeast Cape, St.. Lawernce Island | CLIENT: USACE | GEOLOGIST: O'Connell McLean

DATE: 8/14/02 | WEATHER: Partly cloudy | LOCATION COORDINATES: 96331.1320 (Northing) 98365.8078 (Easting) | ELEVATION DATUM: MSL (MSL/Other)

DRILLING METHOD: Hollow -Stem Auger | BORING SIZE: 8-1/4 | RIG TYPE: HSA | DRILLER/ COMPANY: Discovery

SURVEYED ELEVATIONS | GROUND SURFACE: 68.63 | TOP OF PROTECTIVE CASING: 68.63 | TOP OF PVC CASING: 68.23

WELL SAMPLED? ☒ YES ☐ NO



QUANTITY MATERIALS USED:

Bentonite(lbs)	100
Sand(lbs)	430
Grout(lbs)	—
Screen(ft)	10
Blank Casing(ft)	7
Bottom Cap(ea)	1
Top Cap(ea)	1
Flush Mount	
Protective Casing (ft)	
Lock	1
MISC.:	

NOTES

MONTGOMERY WATSON
Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: 1880574 / 2601220 | BORING NO.: 88-4 | SHEET 1 OF

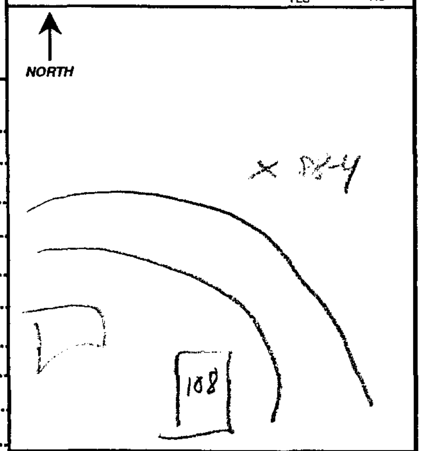
PROJECT: Phase III RI | SITE: Northeast Cape, St. Lawernce Is | CLIENT: USACE - Alaska | GEOLOGIST: O'Connell ~~McLean~~

DATE: 8/ /02 | WEATHER: Pt. Cldy | AK STATE PLANE COORDINATES: 96331.1320 (Northing) 98365.8078 (Easting) | ELEVATION DATUM: MSL

DRILLING METHOD: HSA | BORING SIZE: 8 1/4 | HAMMER DROP (IN/LBS): 30/366 | RIG TYPE: CME 45 | DRILLER/COMPANY: Discovery

SAMPLES: 2 | SAMPLE TYPE: Grab | SAMPLER TYPE/DIAMETER: 2" SS | TOTAL DEPTH (FT): 17' | DEPTH TO SWL (FT): 15.5 | TOP OF HOLE ELEVATION: 18.63

WELL COMPLETED? YES [X] NO [ ]



LOCATION SKETCH

DEPTH (FEET)	BLOWS (6 IN.)	% GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE TIME	SAMPLE INTERVAL	SOIL DESCRIPTION (ASTM 2488)
0						SP				Fill - Rocks ≈ 6" 10" gravel
3	4					SP		1300	↑	- Brown Moist Slight odor
	8									Angular Rocks ≤ 1"
(1) 4	12									Some Sand ≈ 20% Fine gravel
	6								↓	PID = 236
7	4					PT		1315	↑	Dark Brown Native Soil? organic material - Peat
	6									Some Sand < 10% Slight odor PID = 248
(2) 8	3									
	4								↓	
9	6					PT		1320	↑	Dark Brown Organic Matter (Peat) on Top to
	9									Sandy grey with strong odor + rocks fragments ≈ 1"
(3) 10	10									towards 10-11' bgs PID = 284
	9								↓	
11	12					SM		1330	↑	grey Sandy Soil, Slight odor
	12									Rocks ≈ .5-1" No organic Matter
(4) 12	12									Sand ≈ 75% PID = 440
	14					▽			↓	Wet at 13' bgs
13	15					≡		1340	↑	Wet Sands, Strong odor
	12					SM				Rocks ≤ 1-2" Angular to subangular
(5) 14	19									Grey in color, Sand ≈ 75% PID = 424
	15								↓	Dry Sands at 15' strong odor
15									↑	
16										
17									↓	Auger Refusal Bottom of Hole
										DT 17' 02NE88SB007 = #3 1320 9-11.0
18										02NE88SB008 = #4 1330 11-13.0
19										
20										
21										

WELL CONSTRUCTION LOG

MONTGOMERY WATSON

PROJECT NO.:	WELL NO.:	SHEET
1850574.260120	88-5	1 OF 1

PROJECT: Phase III RI | SITE: Northeast Cape, St.. Lawernce Island | CLIENT: USACE | GEOLOGIST: O'Connell ~~McLean~~

DATE: 8/17/02 | WEATHER: clouds, Rain, Wind | LOCATION COORDINATES: 96216.7210 (Northing) 98292.1088 (Easting) | ELEVATION DATUM: MSL (MSL/Other)

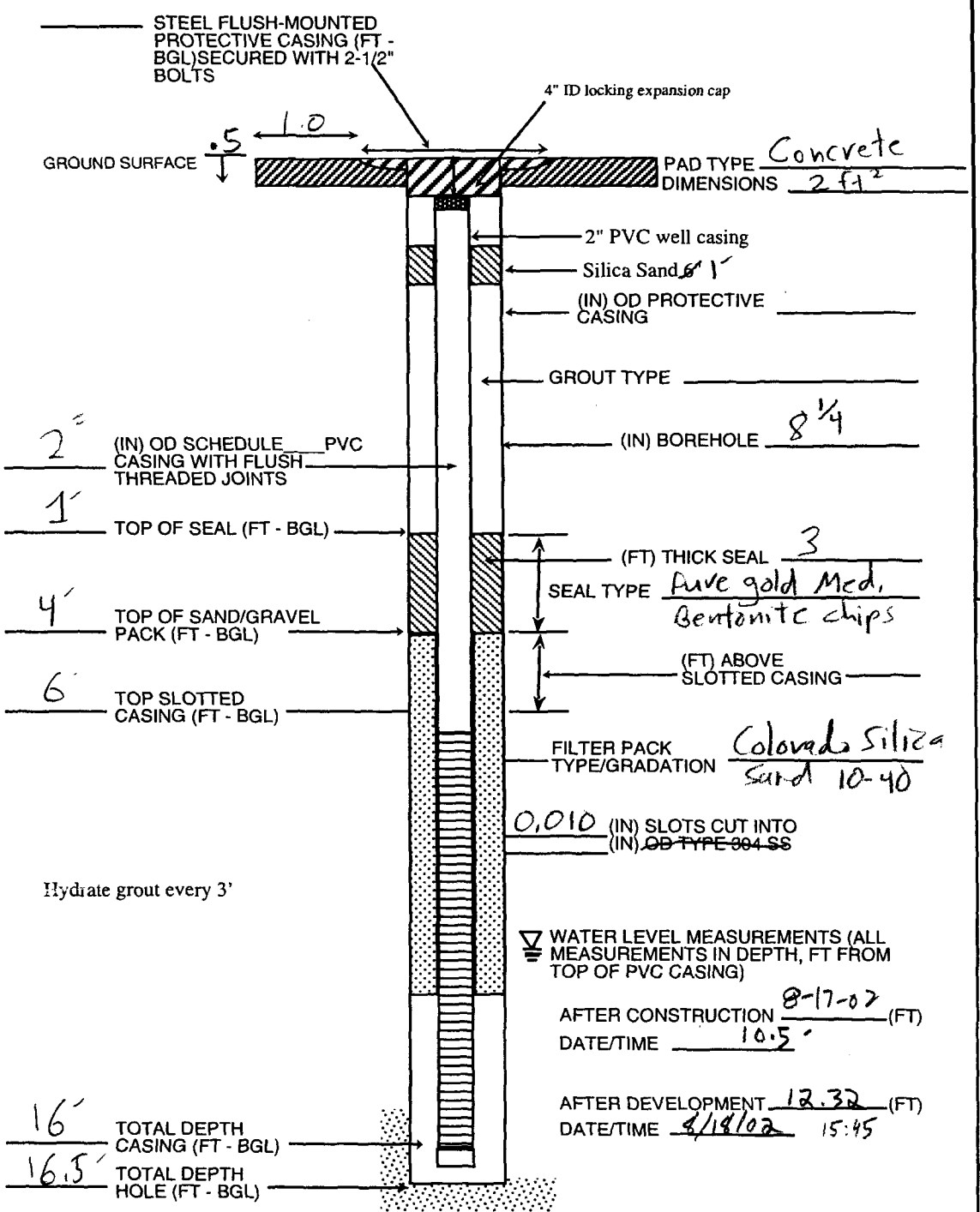
DRILLING METHOD: Hollow -Stem Auger | BORING SIZE: 8 1/4 | RIG TYPE: HSA | DRILLER/COMPANY: Discovery

SURVEYED ELEVATIONS | GROUND SURFACE: 68.37 | TOP OF PROTECTIVE CASING: 68.37 | TOP OF PVC CASING: 67.87

WELL SAMPLED? [X] YES [ ] NO

QUANTITY MATERIALS USED:

Bentonite(lbs)	100
Sand(lbs)	300
Grout(lbs)	—
Screen(ft)	10
Blank Casing(ft)	6
Bottom Cap(ea)	1
Top Cap(ea)	1
Flush Mount	yes
Protective Casing (ft)	0
Lock	1
MISC.:	



WATER LEVEL MEASUREMENTS (ALL MEASUREMENTS IN DEPTH, FT FROM TOP OF PVC CASING)

AFTER CONSTRUCTION 8-17-02 (FT)
DATE/TIME 10.5'

AFTER DEVELOPMENT 12.32 (FT)
DATE/TIME 8/18/02 15:45

NOTES

MONTGOMERY WATSON
Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: 185054 260120 | BORING NO.: MW88-6 | SHEET 1 OF

PROJECT: Phase III RI | SITE: Northeast Cape, St. Lawernce Is | CLIENT: USACE - Alaska | GEOLOGIST: OConnell ~~McLean~~

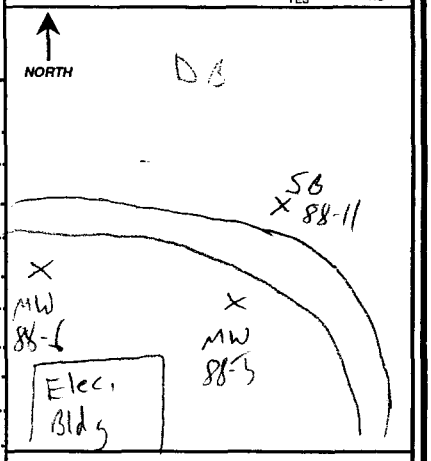
DATE: 8/18/02 | WEATHER: Partly cldy | AK STATE PLANE COORDINATES: 96140.1494 (Northing) 98271.8042 (Easting) | ELEVATION DATUM: MSL

DRILLING METHOD: HSA | BORING SIZE: 8¼ | HAMMER DROP (IN/LBS): 30-360 | RIG TYPE: CME 45 | DRILLER/ COMPANY: Discovery

SAMPLES | SAMPLE TYPE: Grab | SAMPLER TYPE/DIAMETER: 2" SS | TOTAL DEPTH (FT): 15.5 | DEPTH TO SWL (FT): 10.85 | TOP OF HOLE ELEVATION: 69.13

DEPTH (FEET)	BLOWS (6 IN.)	GRAIN SIZE: % GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE: TIME	INTERVAL	SOIL DESCRIPTION (ASTM 2488)
0						SP				Fill - Rocky angular 3"-5"
1										
2										
3	4					SM		1130		No odor PID 1.25
	4									greyish brown
4	5									Silt with fine sand
	4									
5	16							1140		Geo-tech Sample 4-6' PID 90.8
	7									LAB# 02NE885B41
6	6					SM				No odor - Greyish Brown
	4									Silt with fine sand
7	3							1145		-Strong odor PID 1.85 02NE885B011
	3					SP				Sands & gravels unconsolidated
8	3									
	4									
9	8					SM		1150		Moist. Dense silt & Fine Sand PID 50.5
	9									Grey No odor
10	8									
	7					▽				
11	11							1155		Sand & gravel, greyish brown, Moist, unconsolidated PID 111
	11					SP				strong odor 02NE885B012
12	11									
	7									H_2O = 10.85 8-18-02 @ 1420
13										
14										
15										bottom DT 15.5
16										
17										
18										
19										
20										
21										

WELL COMPLETED? ☒ YES ☐ NO



LOCATION SKETCH

MONTGOMERY WATSON
Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: 18505 26012.9 | BORING NO.: MW88-7 | SHEET 1 OF 1

PROJECT: Phase III R1 | SITE: Northeast Cape, St. Lawernce Is | CLIENT: USACE - Alaska | GEOLOGIST: OConnell ~~McLean~~

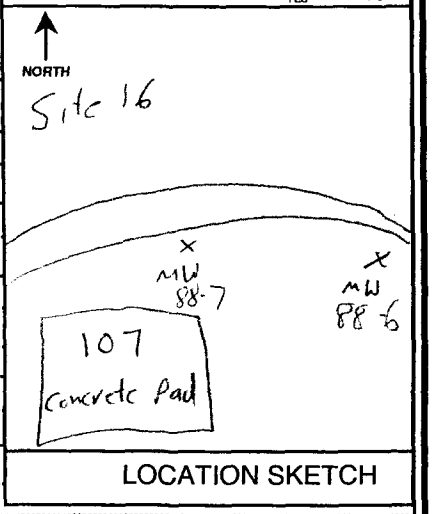
DATE: 8/18/02 | WEATHER: Partly Cloudy | AK STATE PLANE COORDINATES: 96033.1581 (Northing) 98271.2457 (Easting) | ELEVATION DATUM: MSL

DRILLING METHOD: HSA | BORING SIZE: 8 1/4 | HAMMER DROP (IN/LBS): 30/360 | RIG TYPE: CME 45 | DRILLER/ COMPANY: Discovery

SAMPLES: 2 | SAMPLE TYPE: Grab | SAMPLER TYPE/DIAMETER: 2' SS | TOTAL DEPTH (FT): 19.5 | DEPTH TO SWL (FT): 14.5' | TOP OF HOLE ELEVATION: 72.83

DEPTH (FEET)	BLOWS (6 IN.)	GRAIN SIZE: % GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE: TIME	INTERVAL	SOIL DESCRIPTION (ASTM 2488)
0						SP				Fill - Crushed Rock + Sand
1										
2										
3	19					SP		1320		Crushed Rock + Sand
	52									No odor, Dry
4	X									PID = 600
	X									
5	8					SW		1330		Brown Sand No odor
	6									
6	9									PID = 332
	13									
7	19					SP		1335		odor, Crushed Rock + Sand, Brown-grey
	17									
8	10									PID = 695 02NE88SB013
	9									
9	9					SP		1342		Grey - Crushed Rock + Sand
	11									odor
10	11									PID = 480
	18									
11	9					SP		1350		Grey Sand + Gravel
	6									odor PID = 627
12	5									02NE88SB014
	14									
13	7					SM		1355		Moist Grey Sand + Silt
	5									odor PID = 477
14	6							▽		
	7									
15										
16										
17										
18										
19										Bottom @ 19.0'
20										
21										

WELL COMPLETED? YES ☒ NO ☐



LOCATION SKETCH

WELL CONSTRUCTION LOG

MONTGOMERY WATSON

PROJECT NO.:	WELL NO.:	SHEET
1850574.260120	88-6	1 OF 1

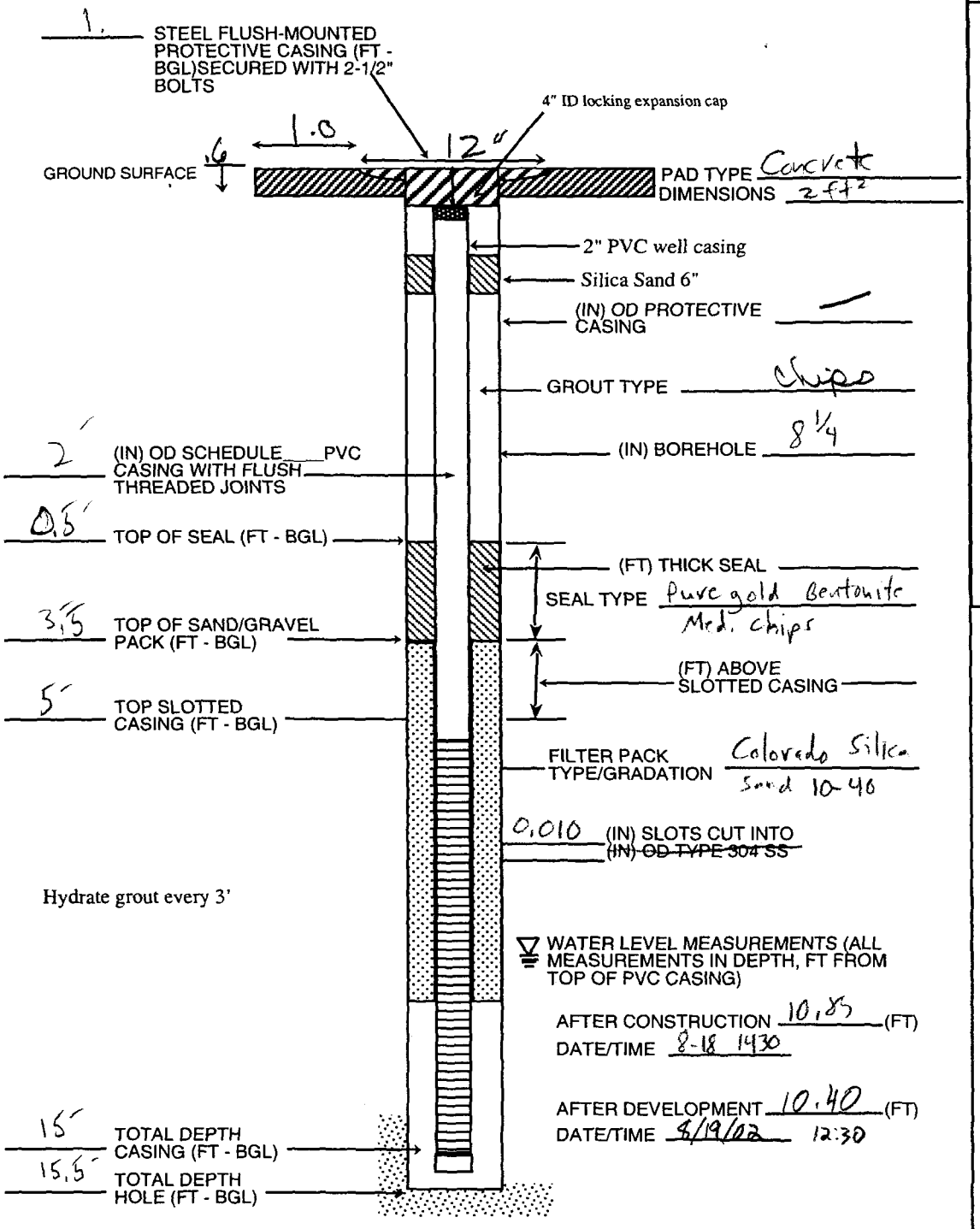
PROJECT: Phase III RI | SITE: Northeast Cape, St.. Lawernce Island | CLIENT: USACE | GEOLOGIST: ~~McLean~~ O'Connell

DATE: 8/18/02 | WEATHER: Partly Cloudy | LOCATION COORDINATES: 96190.1494 (Northing) 98271.8042 (Easting) | ELEVATION DATUM: MSL (MSL/Other)

DRILLING METHOD: Hollow -Stem Auger | BORING SIZE: | RIG TYPE: CME 45 | DRILLER/ COMPANY: Discovery

SURVEYED ELEVATIONS | GROUND SURFACE: 69.13 | TOP OF PROTECTIVE CASING: 69.13 | TOP OF PVC CASING: 68.83

WELL SAMPLED? ☒ YES ☐ NO



QUANTITY MATERIALS USED:

Bentonite(lbs)	100
Sand(lbs)	350
Grout(lbs)	—
Screen(ft)	10
Blank Casing(ft)	5.0
Bottom Cap(ea)	1
Top Cap(ea)	1
Flush Mount	1
Protective Casing (ft)	1
Lock	1
MISC.:	

NOTES

WELL CONSTRUCTION LOG

MONTGOMERY WATSON

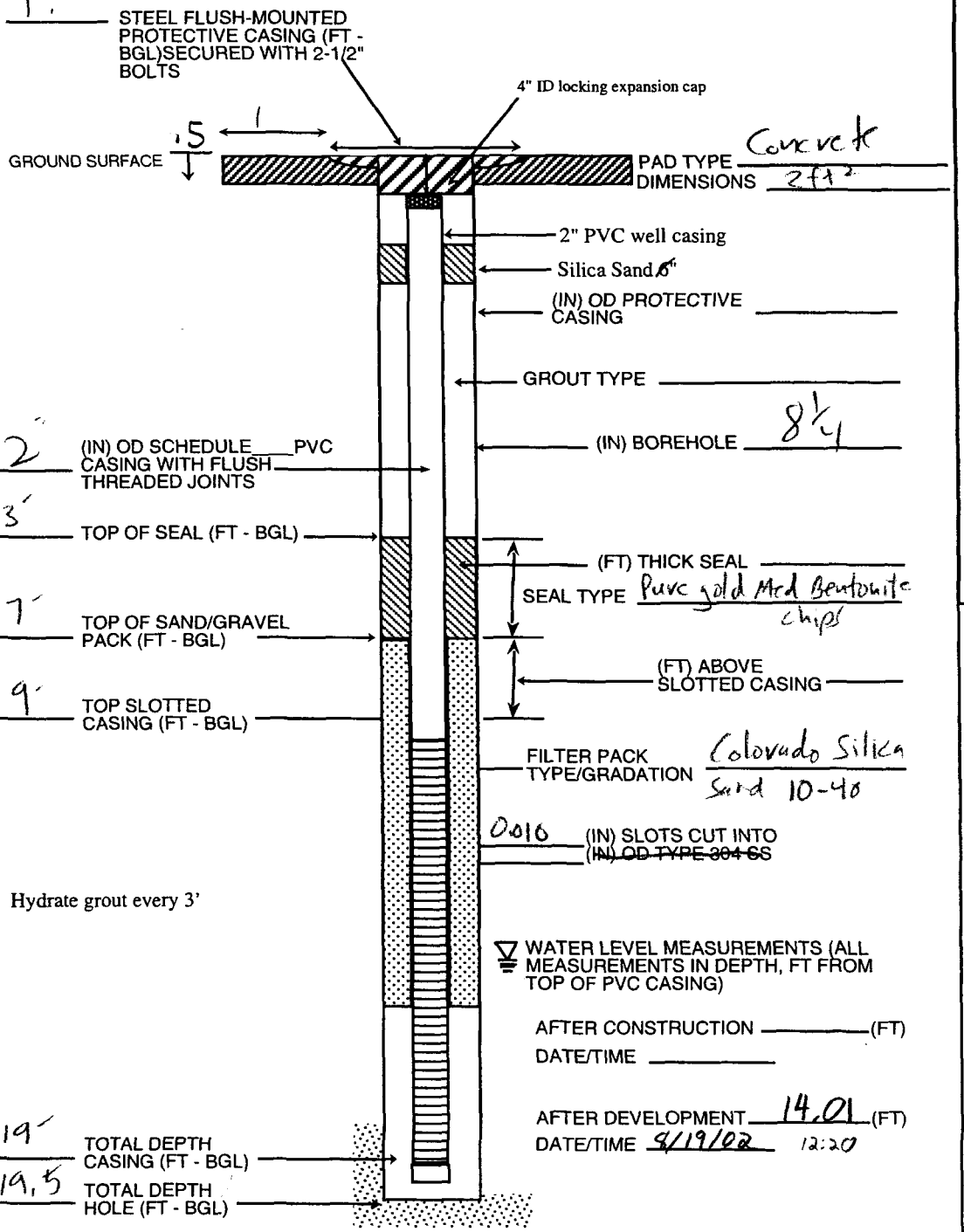
PROJECT NO.:	WELL NO.:	SHEET
1850574.260120	88-7	1 OF 1

PROJECT: Phase III RI | SITE: Northeast Cape, St.. Lawernce Island | CLIENT: USACE | GEOLOGIST: ~~McLean~~ O'Connell

DATE: 8/18/02 | WEATHER: Partly cloudy | LOCATION COORDINATES: 96033.1581 (Northing) 98271.2457 (Easting) | ELEVATION DATUM: MSL (MSL/Other)

DRILLING METHOD: Hollow -Stem Auger | BORING SIZE: 8 1/4 | RIG TYPE: HSA | DRILLER/ COMPANY: Discovery

SURVEYED ELEVATIONS | GROUND SURFACE: 72.83 | TOP OF PROTECTIVE CASING: 72.83 | TOP OF PVC CASING: 72.33



WELL SAMPLED? ☒ YES ☐ NO

QUANTITY MATERIALS USED:

Bentonite(lbs)	160
Sand(lbs)	400
Grout(lbs)	/
Screen(ft)	10
Blank Casing(ft)	9
Bottom Cap(ea)	1
Top Cap(ea)	1
Flush Mount	1
Protective Casing (ft)	
Lock	1
MISC.:	

NOTES

MONTGOMERY WATSON
Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: 185057 4.260120 | BORING NO.: 88-8 | SHEET 1 OF 1

PROJECT: Phase III RI | SITE: Northeast Cape, St. Lawernce Is | CLIENT: USACE - Alaska | GEOLOGIST: OConnell ~~McLean~~

DATE: 8/18/02 | WEATHER: Partly Cloudy | AK STATE PLANE COORDINATES: 96083.4849 (Northing) 98185.9420 (Easting) | ELEVATION DATUM: MSL

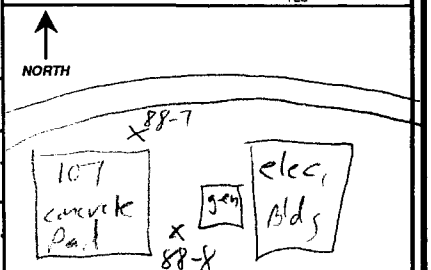
DRILLING METHOD: HSA | BORING SIZE: 8 1/4 | HAMMER DROP (IN/LBS): 30/368 | RIG TYPE: CME45 | DRILLER/ COMPANY: Discovery

SAMPLES | SAMPLE TYPE: GRAB | SAMPLER TYPE/DIAMETER: 2" HSA | TOTAL DEPTH (FT): 20.5' | DEPTH TO SWL (FT): 15.5' | TOP OF HOLE ELEVATION: 73.76

WELL COMPLETED? YES ☒ NO ☐

DEPTH (FEET)	BLOWS (6 IN.)	GRAIN SIZE % GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE TIME	SAMPLE INTERVAL	SOIL DESCRIPTION (ASTM 2488)
0						SP		1620		FILL Crushed Rock Angular 3"-5"
1										
2										
3										
4	17					SP		1640		No odor, crushed Rock fill + Sand unconsolidated PID=
5	15									
	20									
	22									
6	22					SP		1648		odor - Crushed Rock, PID= unconsolidated
7	37									
	19									
	11									
8	14					SP		1653		odor, Dark Staining in Crushed rock + sand, grey unconsolidated
	21									
9	14									PID=
	12									
10	12					SP		1700		odor, Crushed rock + sand grey, unconsolidated
	11									
11	13									O2NE885B015 PID= 1,248*
	9									
12	12					SP		1712		Strong odor, Crushed rock + Sand, unconsolidated
	10									
13	11									PID=
	9									
14	10					SM		1718		Grey Sand Wet, Strong odor
	9									
15	8					▽				O2NE885B016 MS/MSD PID= >10,000*
	8					≡				
16										* PID Cal w/ memory
17										
18										
19										
20										bottom DT 20.0
21										

LOCATION SKETCH



WELL CONSTRUCTION LOG

MONTGOMERY WATSON

PROJECT NO.:	WELL NO.:	SHEET
1850574.260120	88-8	1 OF 1

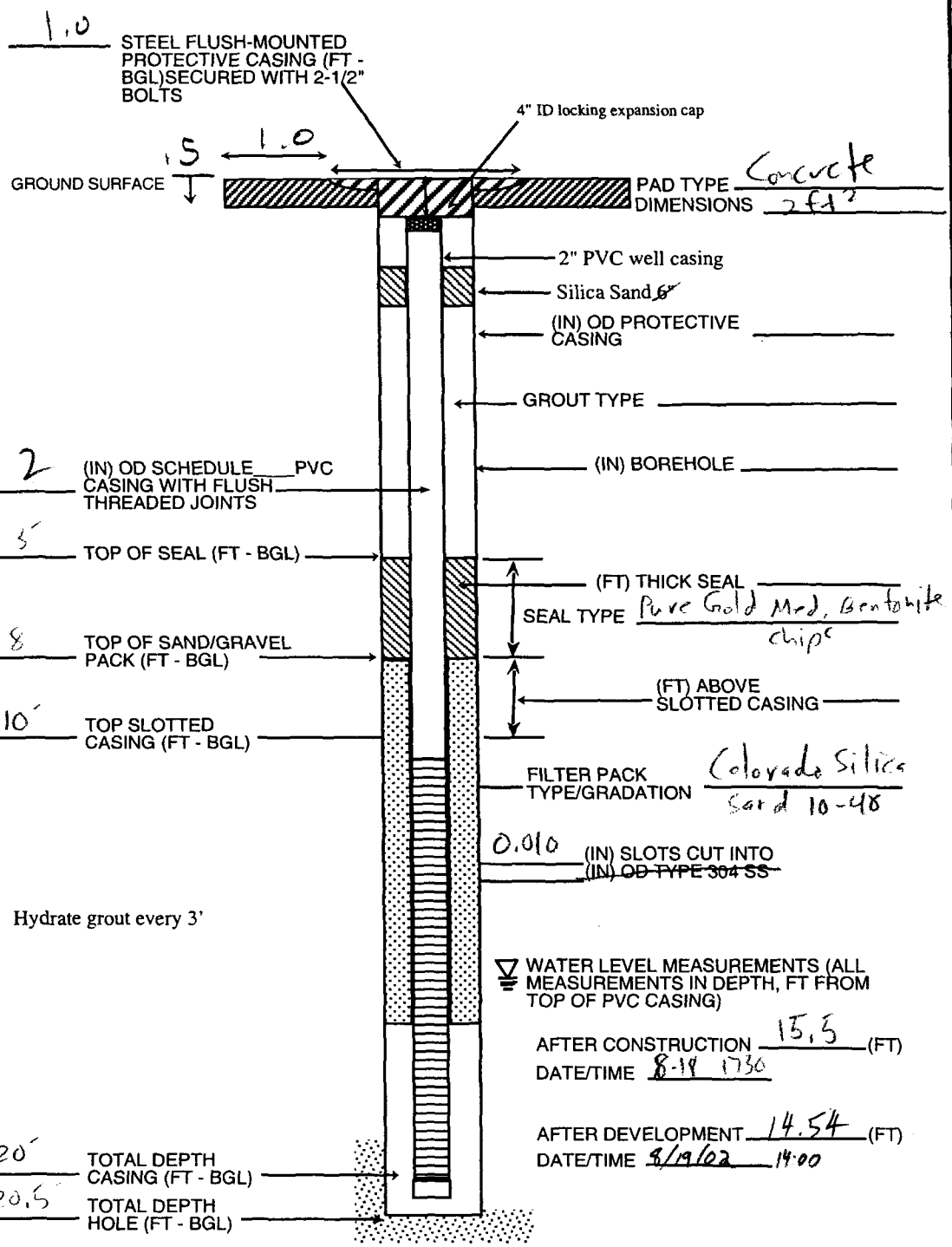
PROJECT: Phase III RI | SITE: Northeast Cape, St.. Lawernce Island | CLIENT: USACE | GEOLOGIST: ~~Melcan~~ O'Connell

DATE: 8/19/02 | WEATHER: Partly cloudy | LOCATION COORDINATES: 96083.4949 (Northing) 98185.9420 (Easting) | ELEVATION DATUM: MSL (MSL/Other)

DRILLING METHOD: Hollow -Stem Auger | BORING SIZE: 8 1/4 | RIG TYPE: 1154 | DRILLER/ COMPANY: Discovery

SURVEYED ELEVATIONS | GROUND SURFACE: 73.76 | TOP OF PROTECTIVE CASING: 73.76 | TOP OF PVC CASING: 73.46

WELL SAMPLED? [X] YES [ ] NO



QUANTITY MATERIALS USED:

Bentonite(lbs)	160
Sand(lbs)	400
Grout(lbs)	—
Screen(ft)	10
Blank Casing(ft)	10
Bottom Cap(ea)	1
Top Cap(ea)	1
Flush Mount	1
Protective Casing (ft)	1
Lock	1
MISC.:	

NOTES

MONTGOMERY WATSON Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: | BORING NO.: 88-9 | SHEET 1 OF 1

PROJECT Phase III RI | SITE Northeast Cape, St. Lawernce Is | CLIENT USACE - Alaska | GEOLOGIST ~~McLean~~ O'Connell

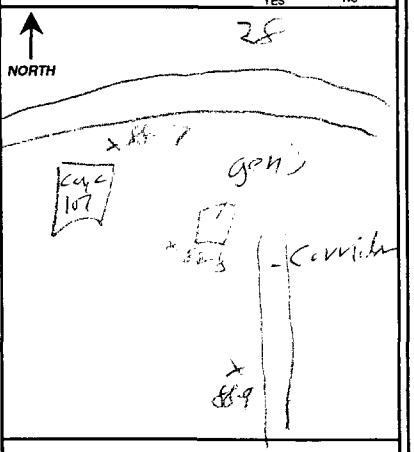
DATE 8/19/02 | WEATHER cloudy | AK STATE PLANE COORDINATES 96154.1887 (Northing) 98044.5023 (Easting) | ELEVATION DATUM MSL

DRILLING METHOD HSA | BORING SIZE 8 1/4 | HAMMER DROP (IN/LBS) 30/360 | RIG TYPE CME 45 | DRILLER/ COMPANY Discovery

SAMPLES | SAMPLE TYPE Grab | SAMPLER TYPE/DIAMETER 2'SS | TOTAL DEPTH (FT) 25 | DEPTH TO SWL (ft) 20.0 | TOP OF HOLE ELEVATION 81.79

DEPTH (FEET)	BLOWS (6 IN.)	GRAIN SIZE % GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE TIME	SAMPLE INTERVAL	SOIL DESCRIPTION (ASTM 2488)
1						SP				Fill - Gravelly Sand, Crushed Rock Angular 3"-5" d.
2										
3										
4	27					SP		1255		Dry, Crushed Rock, No odor/staining
5	22									
	21									PID=
	30									
6	24					SP		1305		Crushed Rock, Dry, No odor/staining
7	24									
	17									PID=
	11									
8	17					SP		1310		Crushed Rock + Sand No odor/stain.
9	19									02NE88SB017 MS/MSD PID= 2876*
	10									
	8									
10	7					SP		1315		Crushed Rock + Sand No odor/Stain
11	4									PID=
	5									
12	7									-Geotech @ 11-13 02NE88SB042
	16							1325		
13	36									No Recovery 12-14 - Rock in cap
	19									
14	12									
	12							1330		
15	8									No Recovery, No odor/Stain
	6									Rock in Cap
16	8									
	5					SP		1340		- Moist slough on top of Dry crushed rock
17	16									-No Recovery Thin perched Layer? Thawed?
	19									
18	13									
19	11					SP		1350		Crushed Rock + Sand No odor/Stain
	10									PID=
	9									
20	7					▽				
21	7							1355		- Moist Sand + Crushed rock
	17									
	14									02NE88SB018 PID=
22	18									
										Continued Next Page

WELL COMPLETED? ☒ YES ☐ NO



LOCATION SKETCH

MONTGOMERY WATSON
Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: ~~98574 #20~~ 26012 | BORING NO.: 88-9 | SHEET 2 OF 2

PROJECT Phase III RI | SITE Northeast Cape, St. Lawernce Is | CLIENT USACE - Alaska | GEOLOGIST ~~McLean~~ O'Connell

DATE 8/19/02 | WEATHER See pg. 1 | AK STATE PLANE COORDINATES (Northing) (Easting) | ELEVATION DATUM

DRILLING METHOD | BORING SIZE | HAMMER DROP (IN/LBS) | RIG TYPE | DRILLER/ COMPANY Discovery

SAMPLES | SAMPLE TYPE | SAMPLER TYPE/DIAMETER | TOTAL DEPTH (FT) | DEPTH TO SWL (fT) | TOP OF HOLE ELEVATION

DEPTH (FEET)	BLOWS (6 IN.)	GRAIN SIZE: % GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE: TIME	INTERVAL	SOIL DESCRIPTION (ASTM 2488)
~~23~~ 21								1415		88-9 Continued
~~24~~ 22										
~~25~~ 23									X	Bottom @ 25'
~~26~~ 24										DT 25'6"
~~27~~ 25										
~~28~~ 26										
~~29~~ 27										
~~30~~ 28										
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										

WELL COMPLETED? [X] YES [ ] NO

NORTH

See pg. 1

LOCATION SKETCH

WELL CONSTRUCTION LOG

MONTGOMERY WATSON

PROJECT NO.: 1850574.260120 | WELL NO.: 88-9 | SHEET 1 OF 1

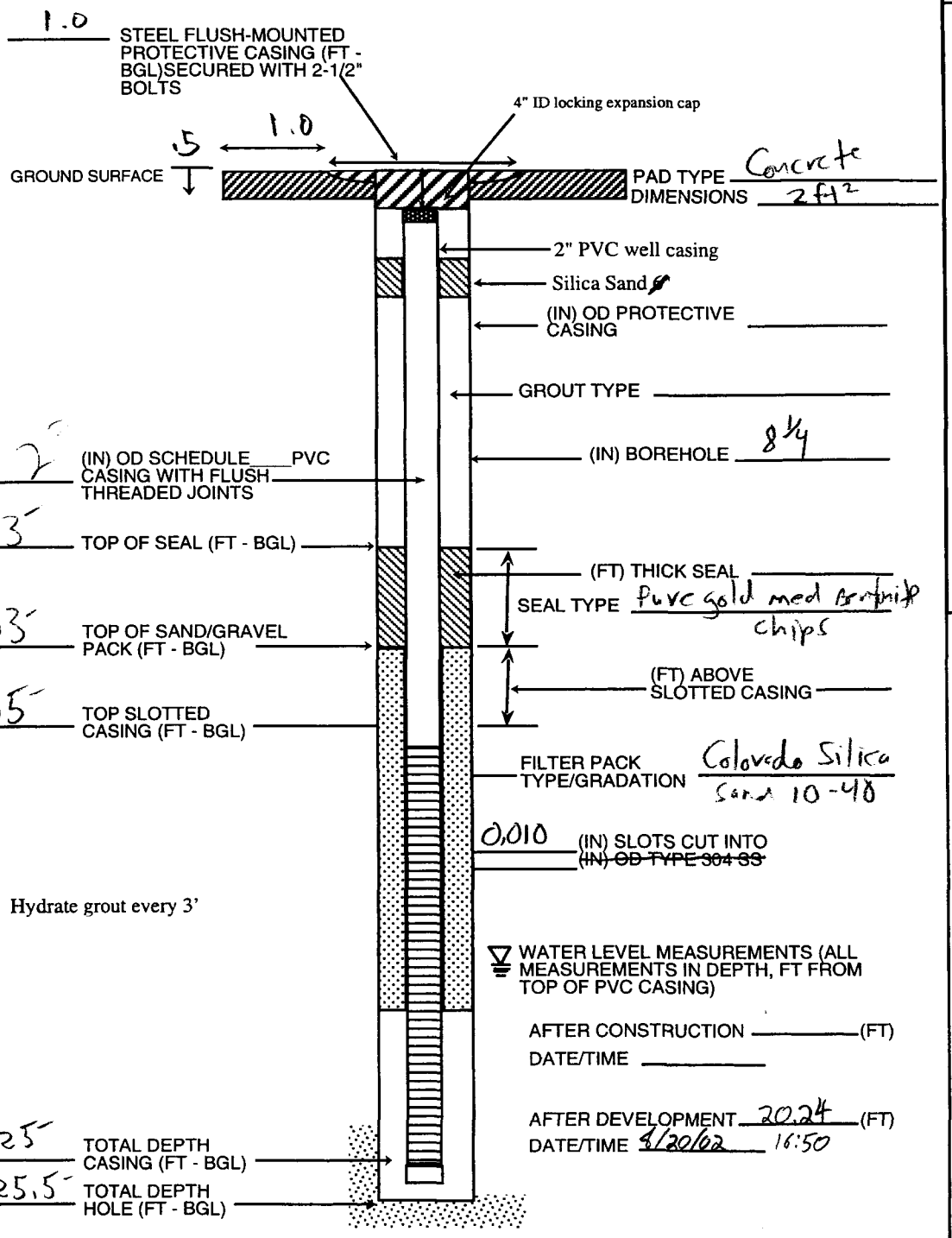
PROJECT: Phase III RI | SITE: Northeast Cape, St.. Lawernce Island | CLIENT: USACE | GEOLOGIST: OGnell McLean

DATE: 8/19/02 | WEATHER: Cloudy | LOCATION COORDINATES: 96154.1887 (Northing) 98044.5023 (Easting) | ELEVATION DATUM: MSL (MSL/Other)

DRILLING METHOD: Hollow -Stem Auger | BORING SIZE: 8 1/4 | RIG TYPE: HSA | DRILLER/ COMPANY: Discovery

SURVEYED ELEVATIONS | GROUND SURFACE: 81.79 | TOP OF PROTECTIVE CASING: 81.79 | TOP OF PVC CASING: 80.99

WELL SAMPLED? [X] YES [ ] NO



QUANTITY MATERIALS USED:

Bentonite(lbs)	250
Sand(lbs)	450
Grout(lbs)	—
Screen(ft)	10
Blank Casing(ft)	15
Bottom Cap(ea)	1
Top Cap(ea)	1
Flush Mount	1
Protective Casing (ft)	
Lock	1
MISC.:	

NOTES

MONTGOMERY WATSON
Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: 180574.260120 | BORING NO.: 88-10 | SHEET 2 OF 2

PROJECT Phase III RI | SITE Northeast Cape, St. Lawernce Is | CLIENT USACE - Alaska | GEOLOGIST ~~Metcalf~~ O'Connell

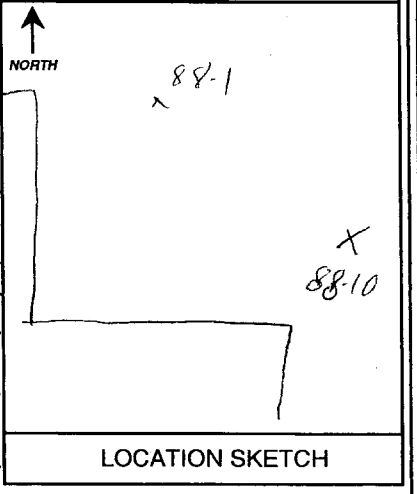
DATE 8/19/02 | WEATHER Cloudy | AK STATE PLANE COORDINATES 96293.0099 (Northing) 97970.2989 (Easting) | ELEVATION DATUM MSL

DRILLING METHOD HSA | BORING SIZE 9" | HAMMER DROP (IN/LBS) 30/360 | RIG TYPE CME 45 | DRILLER/ COMPANY Discovery

SAMPLES | SAMPLE TYPE Grab | SAMPLER TYPE/DIAMETER 2" SS | TOTAL DEPTH (FT) 27.5 | DEPTH TO SWL (FT) 25.0 | TOP OF HOLE ELEVATION 86.86

DEPTH (FEET)	BLOWS (6 IN.)	GRAIN SIZE % GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE TIME	SAMPLE INTERVAL	SOIL DESCRIPTION (ASTM 2488)
1						SP		1535		Fill Rock & Gravel
2										
3										
4	19					SP		1550		Crushed Rock & Sand, No odor/stain
5	17 12 14									Gregish Brown PID=
6	18					SP		1600		Crushed Rock & Sand, No odor/stain
7	17 16									Gregish Brown PID=
8	16 12					SP		1610		Crushed Rock & Sand, No odor/stain
9	12 10									Gregish Brown PID=
10	12 11					SP		1615		Crushed Rock & Sand No odor/stain
11	11 8									Gregish Brown PID=
12	8 9					SM		1620		Moist, Fine sand with some iron staining, No odor/ loose @ 13', Dense @ 14' Dense layer = Grey with iron stains
13	6 9									PID=
14	8 8					SM		1625		Moist @ 15' Dry @ 16' Gregish Brown
15	8 8									Fine Sand, dense with crushed rock @ 16' No odor PID=
16	15 11							1630		No Retrieval - Rock
17	10 12									
18	10 16							1640		Spoon Refused @ 18.5' No Recovery - Rock
19	50/X									
20	11							1650		No Retrieval, odor on end of spoon Mud on end of spoon, water level meter has no readings
21	9 12									
22	10									Continued on Next page ↓

WELL COMPLETED? ☑ YES ☐ NO



LOCATION SKETCH

MONTGOMERY WATSON
Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: B5074.269220 | BORING NO.: 88-10 | SHEET 2 OF 2

PROJECT Phase III RI | SITE Northeast Cape, St. Lawernce Is | CLIENT USACE - Alaska | GEOLOGIST ~~McLean~~ O'Connell

DATE 8/19/02 | WEATHER | AK STATE PLANE COORDINATES (Northing) (Easting) | ELEVATION DATUM

DRILLING METHOD | BORING SIZE 6" | HAMMER DROP (IN/LBS) | RIG TYPE | DRILLER/ COMPANY Discovery

SAMPLES | SAMPLE TYPE | SAMPLER TYPE/DIAMETER | TOTAL DEPTH (FT) | DEPTH TO SWL (fT) | TOP OF HOLE ELEVATION

DEPTH (FEET)	BLOWS (6 IN.)	GRAIN SIZE % GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE TIME	SAMPLE INTERVAL	SOIL DESCRIPTION (ASTM 2488)
~~21~~										Continuation of MW 88-10
22	13					SM		1205		odor - Moist Crushed rock +
	12									Coarse sand, grey
23	13									02NE88SB019 PID = 881
	12									
24	14					SM		1715		odor - Crushed Rock + Coarse sand
	12									grey
25	19									sheen on spoon
	21									PID = 352
26										02NE88SB020
27										Refusal @ 27.5'
28										DT 27.5 Bedrock
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										

WELL COMPLETED? [X] YES [ ] NO

NORTH

Sample 1

LOCATION SKETCH

WELL CONSTRUCTION LOG

MONTGOMERY WATSON

PROJECT NO.:	WELL NO.:	SHEET
1850574.260120	88-10	1 OF 1

PROJECT: Phase III RI | SITE: Northeast Cape, St.. Lawernce Island | CLIENT: USACE | GEOLOGIST: O'Connell / McLean

DATE: 8/19/02 | WEATHER: Partly cloudy | LOCATION COORDINATES: 96293.0099 (Northing) 97970.2989 (Easting) | ELEVATION DATUM: MSL

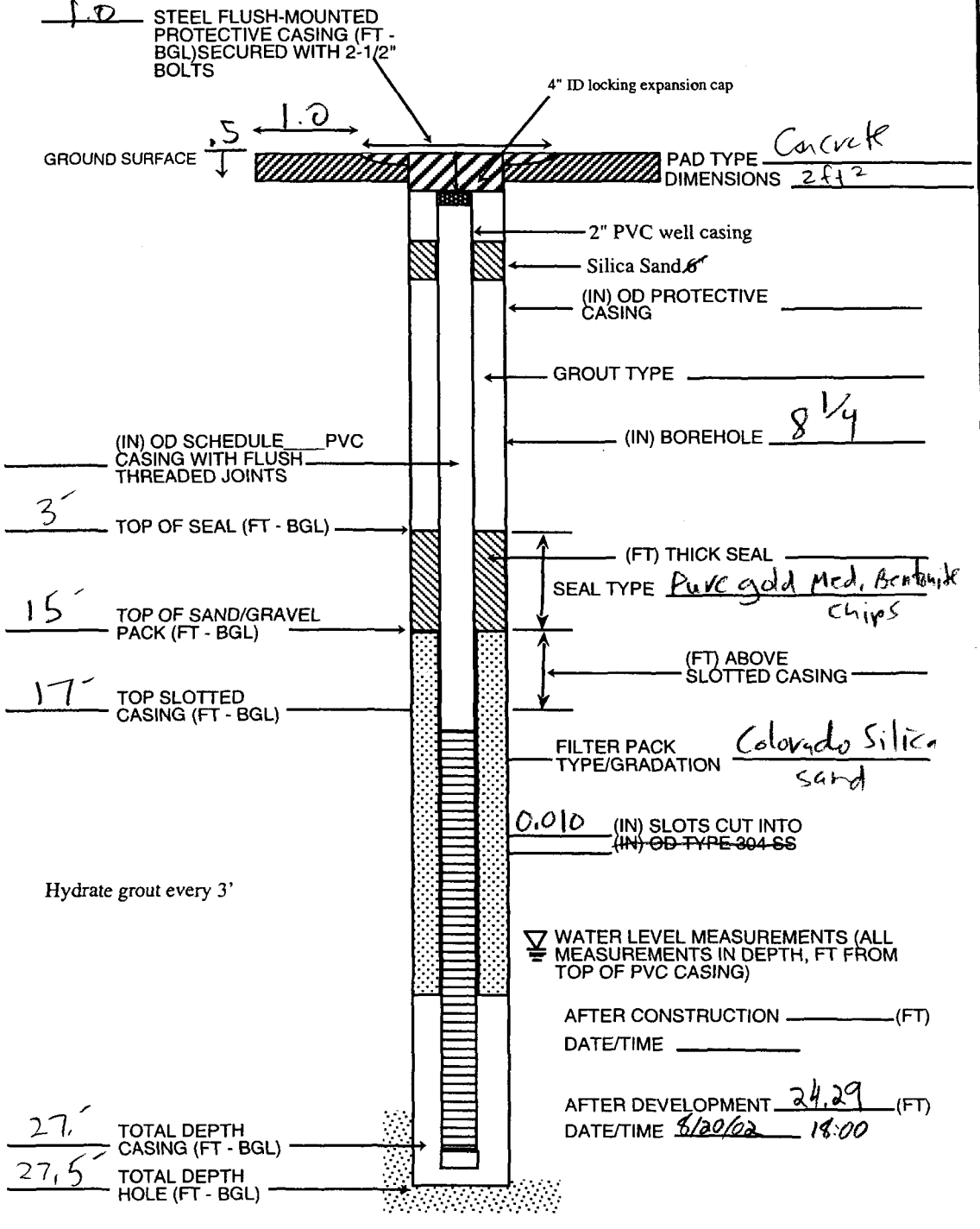
DRILLING METHOD: Hollow -Stem Auger | BORING SIZE: 8 1/4 | RIG TYPE: HSA | DRILLER/ COMPANY: Discovery

SURVEYED ELEVATIONS: GROUND SURFACE 86.86 | TOP OF PROTECTIVE CASING 86.86 | TOP OF PVC CASING 86.46

WELL SAMPLED? [X] YES [ ] NO

QUANTITY MATERIALS USED:

Bentonite(lbs)	200
Sand(lbs)	400
Grout(lbs)	—
Screen(ft)	10
Blank Casing(ft)	7
Bottom Cap(ea)	1
Top Cap(ea)	1
Flush Mount	1
Protective Casing (ft)	1
Lock	1
MISC.:	



NOTES

MONTGOMERY WATSON
Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: 18574.260120 | BORING NO.: 88-11 | SHEET 1 OF

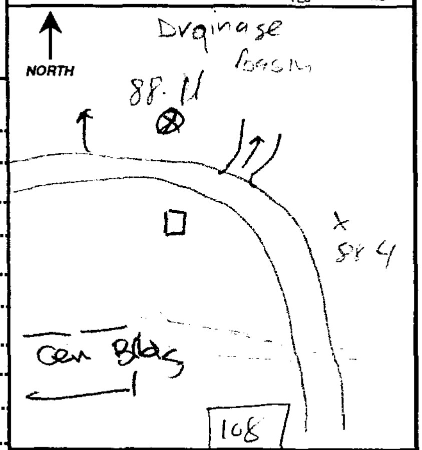
PROJECT: Phase III RI | SITE: Northeast Cape, St. Lawernce Is | CLIENT: USACE - Alaska | GEOLOGIST: OConnr/McLean

DATE: 8/17/02 | WEATHER: cloudy, windy | AK STATE PLANE COORDINATES: 96241.8412 (Northing) 98320.2355 (Easting) | ELEVATION DATUM: MSL

DRILLING METHOD: HSA | BORING SIZE: 8 1/4 | HAMMER DROP (IN/LBS): 30/360 | RIG TYPE: CME 75 | DRILLER/COMPANY: Discovery

SAMPLES: 2 | SAMPLE TYPE: Grab | SAMPLER TYPE/DIAMETER: 2" SS | TOTAL DEPTH (FT): 14' | DEPTH TO SWL (FT): Frozen | TOP OF HOLE ELEVATION: 66.84

WELL COMPLETED? YES ☐ NO ☒



LOCATION SKETCH

DEPTH (FEET)	BLOWS (6 IN.)	% GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE TIME	SAMPLE INTERVAL	SOIL DESCRIPTION (ASTM 2488)
0								1600		
0.5						SP				Fill - Rock & Gravel
3 (①)	4, 6, 6, 4					PT		1820	↕	Peat - Frozen, Very hard, Dark Brown, Slight Odor, PID = 02NE88SB021
5 (②)	4, 9, 9, 10					PT		1830	↕	Frozen Peat Slight Odor PID = Ice x-stals in spoon
7 (③)								1840	↕	No Retrieval Rock? PID =
8 (④)	24, 21, 15, 21					SM		1850	↕	02NE88SB022 grey, Fine grained, sandy, Frozen with ice x-stals PID =
10 (⑤)	16, 19, 25, 27					SM		1905	↕	greyish-Brown Frozen with Ice x-stals PID -
12	13, 17, 11, 11					SM			↕	Frozen with ice x-stals PID =
14										Bottom SB 88-11
15										DT 14.0
16										
17										
18										
19										
20										
21										

MONTGOMERY WATSON
Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: 18574.260 | BORING NO.: SB 88-12 | SHEET 1 OF

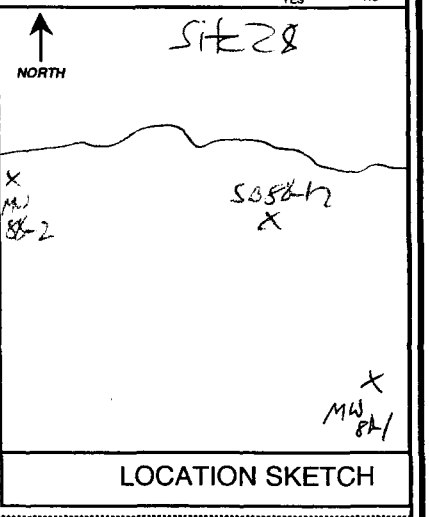
PROJECT Phase III RI | SITE Northeast Cape, St. Lawernce Is | CLIENT USACE - Alaska | GEOLOGIST O'Connell ~~McLean~~

DATE 8/20/02 | WEATHER Partly cloudy | AK STATE PLANE COORDINATES 96398.0750 (Northing) 98329.9776 (Easting) | ELEVATION DATUM MSL

DRILLING METHOD HSA | BORING SIZE 8" | HAMMER DROP (IN/LBS) 30/760 | RIG TYPE CME 45 | DRILLER/ COMPANY Discovery

SAMPLES 2 | SAMPLE TYPE Grab | SAMPLER TYPE/DIAMETER 2"SS | TOTAL DEPTH (FT) 14.0' | DEPTH TO SWL (FT) 13.0 | TOP OF HOLE ELEVATION 69.71

WELL COMPLETED? YES ☐ NO ☒



LOCATION SKETCH

DEPTH (FEET)	BLOWS (6 IN.)	GRAIN SIZE % GRAVEL	% SAND	% FINES	MAX SIZE (in)	SOIL CLASS	GRAPHIC LOG	SAMPLE TIME	SAMPLE INTERVAL	SOIL DESCRIPTION (ASTM 2488)
0						SP		1235		Fill - Large rocks 5"-7" + gravel
1										
2	5					SM		1245		Crushed Rock - Brown/Grey fine Sand
	4									No odor / Some Iron staining
3	6									PID = 65.0
	4					PT				Peat @ 4" - with organics
4	6							1250		Brown = No odor / stain
	6					SM				Grey = Very Fine, Dense sand/silt
5	7									Brown = Peat w/ organics
	10					PT				Grey PID = 89.0
6	8							1255		No odor / Stain FROZEN
7	11					SM				Very Fine, Dense Sand/silt PID = 48.0
	17									Grey, Solid 2' core
	12									
8	12					SM		1300		Solid Grey Frozen @ 8-9'
9	19									No odor, Stain PID = 65.0
	23									
	4					SP				Crushed rock Coarse sand @ 10' unfrozen
10	15							1305		
11	11					SP				Crushed Rock + Coarse Sand
	17									No odor/stain PID = 53.0
	19									Moist @ 12 Grey sand + Crushed Rock
12	7							1310		
	10									No Recovery - Rock
13	14									
	8									Filled w/ Bentonite D_T 14.0
14										Frozen from 6-9'
15										
16										Sample 02NE88SB 23 = #2 4-6.0'
										24 = #5 10.0-12.0'
17										
18										
19										
20										
21										

18574.260120

MONTGOMERY WATSON
Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.:	BORING NO.:	SHEET
SB 88-13	88-13	1 OF

PROJECT: Phase III RI SITE: Northeast Cape, St. Lawernce Is CLIENT: USACE - Alaska GEOLOGIST: OConnell ~~McLean~~

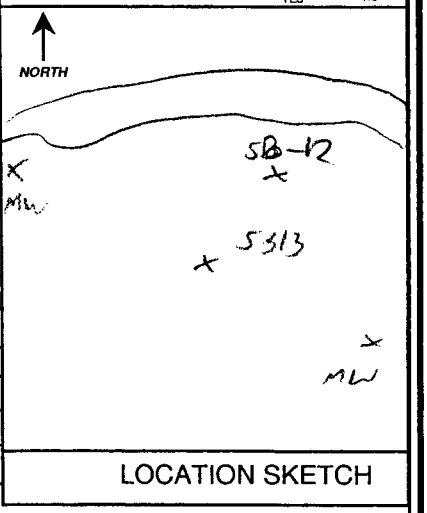
DATE: 8/20/02 WEATHER: Partly Cloudy AK STATE PLANE COORDINATES: 96341.1182 (Northing) 98303.2553 (Easting) ELEVATION DATUM: MSL

DRILLING METHOD: HSA BORING SIZE: 8 1/4 HAMMER DROP (IN/LBS): 30/360 RIG TYPE: CME 45 DRILLER/ COMPANY: Discovery

SAMPLES: 2 SAMPLE TYPE: Grab SAMPLER TYPE/DIAMETER: 2"SS TOTAL DEPTH (FT): 16' DEPTH TO SWL (FT): Frozen TOP OF HOLE ELEVATION: 69.51

DEPTH (FEET)	BLOWS (6 IN.)	GRAIN SIZE % GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE TIME	SAMPLE INTERVAL	SOIL DESCRIPTION (ASTM 2488)
0										
1										
2	7					SP		1405		Crushed rock + sand - odor
(1)	11									No staining
3	8									PID = 79.9
	4					PT				Peat @ 4 Ft with organics
4	2					PT		1410		Peat Ends
(2)	5					SM				Frozen Dense grey w/ odor
5	12									PID = 35.7
	10									
6	5					SM		1415		Frozen Dense grey - odor
(3)	4									PID = 15.3
7	3					PT				Unfrozen Peat @ T - odor
	5									
8	4					SM		1420		Fine grey Frozen silt/sand no odor
(4)	5									
9	9									No odor PID = 51.0
	9									Frozen @ 10
10	3					SM		1425		Frozen Solid No odor
(5)	7									Fine grey silt/sand PID = 55.1
11	9									
	7									
12	7					SM		1430		Frozen with ice No odor PID = 91.0
(6)	7									Fine, grey sand/silt
13	7									
	11									
14	3					SM		1435		Frozen Fine grey sand/silt PID = 11.2
(7)	7									No odor
15	9									
	7					SM				Frozen DT 16.0
16										End of Boring
17										
18										Sample 02NE88SB25 - #3 6.0-8.0
										26 - #7 14.0-16.0
19										
20										
21										

WELL COMPLETED? YES ☐ NO ☒



LOCATION SKETCH

MONTGOMERY WATSON
Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: 18574.209.120 | BORING NO.: 88-14 | SHEET 1 OF 1

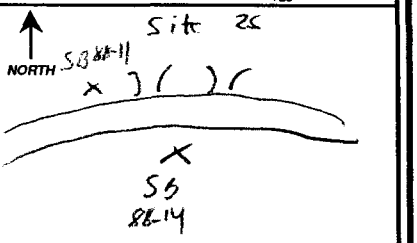
PROJECT: Phase III RI | SITE: Northeast Cape, St. Lawernce Is | CLIENT: USACE - Alaska | GEOLOGIST: OConnell ~~Mclean~~

DATE: 8/29/02 | WEATHER: Partly cloudy | AK STATE PLANE COORDINATES: 96251.2105 (Northing) 98292.8032 (Easting) | ELEVATION DATUM: MSL

DRILLING METHOD: HSA | BORING SIZE: 8" | HAMMER DROP (IN/LBS): 30-360 | RIG TYPE: CME 45 | DRILLER/ COMPANY: Discovery

SAMPLES: 2 | SAMPLE TYPE: Grab | SAMPLER TYPE/DIAMETER: 2" SS | TOTAL DEPTH (FT): 14' | DEPTH TO SWL (FT): 14.0 | TOP OF HOLE ELEVATION: (7.1)

WELL COMPLETED? YES ☐ NO ☒



LOCATION SKETCH

DEPTH (FEET)	BLOWS (6 IN.)	GRAIN SIZE % GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE TIME	SAMPLE INTERVAL	SOIL DESCRIPTION (ASTM 2488)
0										
1										
2	6					SB		1505		Fill / odor
3	7									PID = 6080
	6									
4	5					PT				Peat w/ odor
	3							1510		
5	3					PT				Peat - odor
	4									PID = 788
6	5									
	2					PT		1515		Peat - slight odor
7	4									
	7									
8	6					SM				Dark Dark grey Fine sand/silt - odor PID = 120
	3							1520		
9	5					SM				Dense grey Fine Sand/silt odor PID = 172
	5									
10	4					SM		1525		Dense grey Fine Sand/silt odor PID = 505
	6									
11	5									
	4									
12	3					SM		1530		Dense grey-brown Fine Sand + Peat w/ odor
	2									
13	1									Sheen on Spoon PID = 150
	5									
14						▽				end of Boring DT 14.0
15										
16										Sample 02NE88 SB 27 = #1 2.0-4.0
										" 28 = #6 12.0 14.0
17										
18										
19										
20										
21										

MONTGOMERY WATSON
Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: 18574.260120 | BORING NO.: 88-15 | SHEET 1 OF

PROJECT: Phase III RI | SITE: Northeast Cape, St. Lawernce Is | CLIENT: USACE - Alaska | GEOLOGIST: O'Connell ~~McLean~~

DATE: 8/20/02 | WEATHER: Partly cloudy | AK STATE PLANE COORDINATES: 96253.7354 (Northing) 98224.4465 (Easting) | ELEVATION DATUM: MSL

DRILLING METHOD: HSA | BORING SIZE: 8 1/4 | HAMMER DROP (IN/LBS): 30/360 | RIG TYPE: CME 45 | DRILLER/ COMPANY: Discovery

SAMPLES: 2 | SAMPLE TYPE: Grab | SAMPLER TYPE/DIAMETER: 2'SS | TOTAL DEPTH (FT): 22' | DEPTH TO SWL (FT): 13.0 | TOP OF HOLE ELEVATION: 71.21

WELL COMPLETED? YES ☐ NO ☒

NORTH

× SB88-14

Grids

× SB88-15

108

LOCATION SKETCH

DEPTH (FEET)	BLOWS (6 IN.)	GRAIN SIZE: % GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE: TIME	INTERVAL	SOIL DESCRIPTION (ASTM 2488)
0						SP		1705		Rocky Fill 3"-5"
1										
2										
3										
4	11					SP		1715		Crushed Rock + Sand Fine @ 5'
(1) 5	8									No odor/Stain
	8									PID=120
	11									Coarse Sand @ 6'
6	25					SP		1720		
	25									No Recovery, Slight odor on spoon
7	17									
	17									
8	7							1725		
	6									No Recovery, Slight odor on spoon
9	6									
	5									
(2) 10	3					SM		1730		Moist, Sticky Very Fine Sand/Silt Grey
	5									No odor
11	5									PID=2770
	7									
(3) 12	4					SM		1735		Very Fine, Dense Grey Silt + Sand No odor
	5					▽				Some Iron Staining PID=133
13	7					=				
	7									
(4) 14	6							1740		Fine, Silt + Sand/ Grey No odor Some Rocks
	6									
15	8									PID=
	7									
16	25							1745		Crumbly @ 16'
	27									No Recovery - Rock
17	22									Sample @ NE88SB 29 = #2 30 = #3
	13									
(5) 18	7							1750		Very Fine, Dense Grey Silt + Sand No odor
	9									Some Rock
19	12									PID=
	10									
(6) 20	7							1800		Very Fine Dense Grey Silt/Sand No odor
	6									PID=
21	7									Water found @ 13' - end of Boring

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MONTGOMERY WATSON
Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: 18574.260120 | BORING NO.: 88-16 | SHEET 1 OF

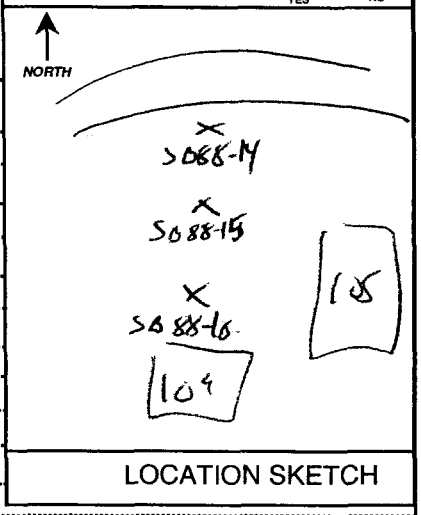
PROJECT: Phase III RI | SITE: Northeast Cape, St. Lawernce Is | CLIENT: USACE - Alaska | GEOLOGIST: O'Connell ~~McLean~~

DATE: 8/20/02 | WEATHER: Partly cloudy | AK STATE PLANE COORDINATES: 96260.0342 (Northing) 98182.7094 (Easting) | ELEVATION DATUM: MSL

DRILLING METHOD: HSA | BORING SIZE: 8" | HAMMER DROP (IN/LBS): 30/360 | RIG TYPE: CME 45 | DRILLER/ COMPANY: Discovery

SAMPLES | SAMPLE TYPE: Grab | SAMPLER TYPE/DIAMETER: 2" SS | TOTAL DEPTH (FT): 14.0 | DEPTH TO SWL (FT): 12.0 | TOP OF HOLE ELEVATION: 72.93

WELL COMPLETED? ☐ YES ☒ NO



LOCATION SKETCH

DEPTH (FEET)	BLOWS (6 IN.)	GRAIN SIZE % GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE TIME	SAMPLE INTERVAL	SOIL DESCRIPTION (ASTM 2488)
0						SP				Rocky Fill 3"-5"
1										
2										
3										
4	12					SP		1845		crushed rock + Fill, odor
5	12									Some brown sand
	11									PID = 655
6	12									
	9					SP		1850		Crushed Rock + Sand odor
7	8									PID = 1558
	11									
8	8									Geotech - 02NE88SB043
	13							1908		
9	11					SP				odor, crushed rock + coarse sand odor=
	9									PID = 1142
10	8									
	14					SP		1905		odor, crushed rock, coarse grey sand
11	12									
	9					SP				PID = 2672
12	13					▽				
	10					≡		1915		Saturated crushed rock, sheen, NO Recovery
13	8									
	14									
14	18									TD 14.0
15										Sample 02NE88SB31 = #2 6.0-8.0
										#2 - #4 10.0-12.0
16										
17										
18										
19										
20										
21										

188574.260120

MONTGOMERY WATSON Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: | BORING NO.: 88-17 | SHEET 1 OF 1

PROJECT Phase III RI | SITE Northeast Cape, St. Lawernce Is | CLIENT USACE - Alaska | GEOLOGIST Connell ~~McLean~~

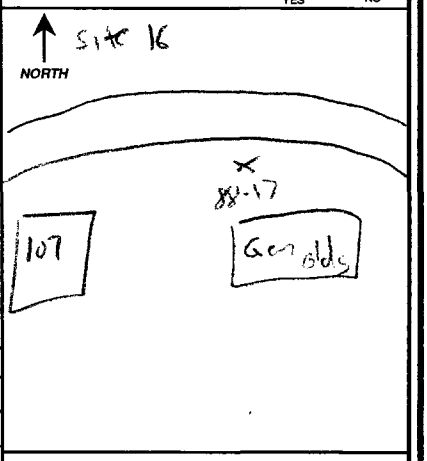
DATE 8/2/02 | WEATHER Cloudy | AK STATE PLANE COORDINATES 96171.5812 (Northing) 98270.0440 (Easting) | ELEVATION DATUM MSL

DRILLING METHOD HSA | BORING SIZE 8¼ | HAMMER DROP (IN/LBS) 30/166 | RIG TYPE CME 45 | DRILLER/ COMPANY Discovery

SAMPLES 2 | SAMPLE TYPE Grab | SAMPLER TYPE/DIAMETER 2"SS | TOTAL DEPTH (FT) 14.0 | DEPTH TO SWL (FT) 13.0 | TOP OF HOLE ELEVATION 9.65

DEPTH (FEET)	BLOWS (6 IN.)	GRAIN SIZE % GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE TIME	SAMPLE INTERVAL	SOIL DESCRIPTION (ASTM 2488)
0										
1										
2	13							1435		No Recovery, slight odor on spoon
3	50									
	X									
	X									
4	25							1440		No Recovery
	22									
5	27									
	9									
6	15							1450		No Recovery
	9									
7	8									
	9									
8	5					SM		1500		Very Strong odor
(1)	12									Dense grey Sand/Silt
9	6									PID = 9999+
	18									
10	9					SP		1505		Crushed rock - grey, odor
(2)	8									PID = 2315
11	10									
	8									
12	12					SP		1510		Crushed rock + Sand, odor PID = 9999+
(3)	15					▽				
13	16					=				
	14									
14										DT 14.0 sample ID NE885033 = (1) 8.0-10.0
15										034 = (3) 12.0-14.0
16										ID NE88SB234 (FD)
17										
18										
19										
20										
21										

WELL COMPLETED? YES ☐ NO ☒



LOCATION SKETCH

18574.260120

MONTGOMERY WATSON Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: | BORING NO.: 88-18 | SHEET 1 OF

PROJECT Phase III RI | SITE Northeast Cape, St. Lawernce Is | CLIENT USACE - Alaska | GEOLOGIST O'Connell ~~McLean~~

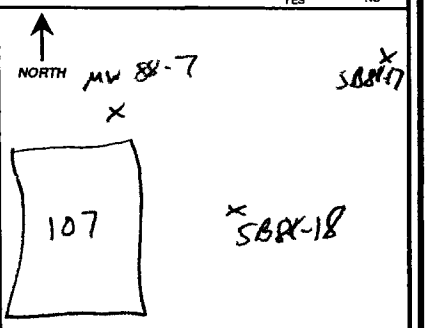
DATE 8/21/02 | WEATHER cloudy | AK STATE PLANE COORDINATES 96070.5355 (Northing) 98228.2167 (Easting) | ELEVATION DATUM MSL

DRILLING METHOD HSA | BORING SIZE 8¼ | HAMMER DROP (IN/LBS) 30/360 | RIG TYPE CME 45 | DRILLER/ COMPANY Discovery

SAMPLES 2 | SAMPLE TYPE Grab | SAMPLER TYPE/DIAMETER 2" SS | TOTAL DEPTH (FT) 14' | DEPTH TO SWL (FT) 13.0 | TOP OF HOLE ELEVATION 71.93

DEPTH (FEET)	BLOWS (6 IN.)	GRAIN SIZE % GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE TIME	SAMPLE INTERVAL	SOIL DESCRIPTION (ASTM 2488)
0								1530		
1										
2	8					SM		1540		Slight odor, Brown Sand & Crushed rock
(1) 3	13									PID = 225
	15									
	15									
4	9					SM		1545		Brown Sand, Crushed rock
(2)	11									Slight odor
5	16									PID = 253
	16									
6	13					SP		1550		Odor, Crushed rock & grey silt
(3) 7	16									PID = 2913
	14									
	10									Geotech - No recovery
8	15					SW		1555		
(4)	21									grey sand, odor, coarse
9	15									PID = 4903
	8									- Geotech - 02NE88SB044
10	4					SM		1605		moist, grey Fine sand + silt
(5)	5									Strong odor, PID = 4113
11	6									
	9									
12	5							1615		No recovery, Strong odor on spoon
	4									
13	9									
	11									
14										
15										Sample 02NE88-SB085 - #4
										036 - #5
16										
17										02NE88SB335 (QA/MS/MSD)
										02NE88SB236 (FD)
18										
19										
20										
21										

WELL COMPLETED? ☐ YES ☒ NO



LOCATION SKETCH

SB 22-1

MONTGOMERY WATSON
Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: 18574.2601 | BORING NO.: 88-19 | SHEET 1 OF 2

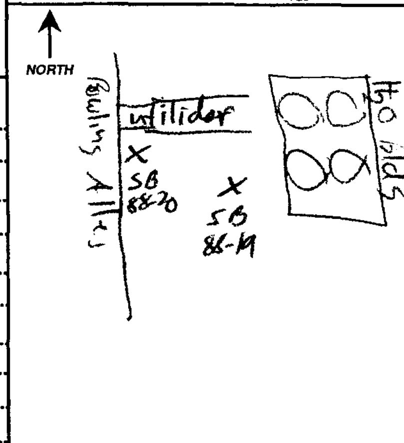
PROJECT: Phase III RI | SITE: Northeast Cape, St. Lawernce Is | CLIENT: USACE - Alaska | GEOLOGIST: O'Connell ~~McLean~~

DATE: 8/22/02 | WEATHER: Clouds | AK STATE PLANE COORDINATES: 96206.4925 (Northing) 97683.0309 (Easting) | ELEVATION DATUM: MSL

DRILLING METHOD: HSA | BORING SIZE: 8 1/4 | HAMMER DROP (IN/LBS): 30/360 | RIG TYPE: CME 45 | DRILLER/COMPANY: Discovery

SAMPLES: 2 | SAMPLE TYPE: Grab | SAMPLER TYPE/DIAMETER: 2" SS | TOTAL DEPTH (FT): 32' | DEPTH TO SWL (FT): — | TOP OF HOLE ELEVATION: 97.75

WELL COMPLETED? YES ☐ NO ☒



LOCATION SKETCH

Sample	DEPTH (FEET)	BLOWS (6 IN.)	% GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE TIME	SAMPLE INTERVAL	SOIL DESCRIPTION (ASTM 2488)
	0						SP		1210		Rocky Fill
	1										
	2										
	3										
	4										
	5										
	6										
	7										
(1)	8	10					SP		1225	↕	Crushed Rox + Sand No odor/stain
		21									Brownish grey
	9	18									PID = 0
		41									
(2)	10	38					SP		1230	↕	Crushed Rock + Sand No odor/stain
		23									Brownish grey
	11	17									PID = 0
		14									
(3)	12	46					SP		1235	↕	Crushed Rock, Coarse grey sand, Moist/wet
		16									No odor/stain
	13	47									PID = 0
		28									
(4)	14	12					SP		1250	↕	Crushed rock coarse sand
		14									No odor/stain
	15	13									PID = 0
		19									
(5)	16	13					SP		1255	↕	Crushed rock coarse sand No odor/stain
		15									PID = 0
	17	15									
		10									
(6)	18	11					SP		1305	↕	Crushed rock + sand No odor/stain
		11									
	19	13									PID = 0
		15									
(7)	20	18					SP		1315	↕	Crushed Rock, Brown sand, No odor/stain
		26									
	21	14									continued ↓ ↓
	22	15									

MONTGOMERY WATSON
Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: 18574,260120 | BORING NO.: 88-19 | SHEET 2 OF 2

PROJECT Phase III RI | SITE Northeast Cape, St. Lawernce Is | CLIENT USACE - Alaska | GEOLOGIST ~~McLean~~ OConnell

DATE 8/ /02 | WEATHER | AK STATE PLANE COORDINATES (Northing) (Easting) | ELEVATION DATUM

DRILLING METHOD | BORING SIZE | HAMMER DROP (IN/LBS) | RIG TYPE | DRILLER/ COMPANY Discovery

SAMPLES | SAMPLE TYPE | SAMPLER TYPE/DIAMETER | TOTAL DEPTH (FT) | DEPTH TO SWL (ft) | TOP OF HOLE ELEVATION

DEPTH (FEET)	BLOWS (6 IN.)	GRAIN SIZE % GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE TIME	SAMPLE INTERVAL	SOIL DESCRIPTION (ASTM 2488)
21										Continued SB 88-19
22	10							1325		No Recovery
	12									
23	11									
	29									
24	26					SP		1340		Crushed rock, No odor/stain
(8)	11									
25	6									
	6									Fine brown sand PID = 0
26	3					SW		1350		Fine Brown Sand
(9)	5									
27	5									PID = 0
	16					SM				Dense gray Sand/silt
28	10							1400		Med Silt/Sand
(10)	13									02NE88SB037 / 237 (FD) PID = 0
29	23									Crushed Rock & Sand
	40									
30	43					SP		1410		Crushed Rock & Sand
(11)	20									02NE88SB038 / 338 (QA) PID = 0
31	25									
	27									
32										Auger Refusal @ 32'
33										Sample 01NE88SB37 = #10 + 237 FD
										38 = #11 337 QA
34										
35										
36										
37										
38										
39										
40										
41										
42										

WELL COMPLETED? YES NO

NORTH

See Pg

LOCATION SKETCH

18574.260'20 SB 88-2

MONTGOMERY WATSON Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: | BORING NO.: 88-20 | SHEET 1 OF 2

PROJECT Phase III RI | SITE Northeast Cape, St. Lawernce Is | CLIENT USACE - Alaska | GEOLOGIST O'Connell ~~McLean~~

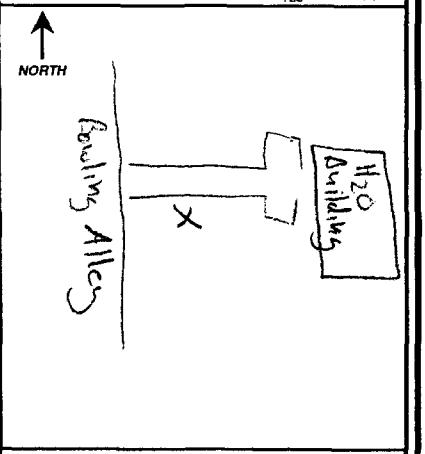
DATE 8/2/02 | WEATHER | AK STATE PLANE COORDINATES 96233.7486 (Northing) 97695.3823 (Easting) | ELEVATION DATUM MSL

DRILLING METHOD HSA | BORING SIZE 8¼ | HAMMER DROP (IN/LBS) 30/360 | RIG TYPE CME 45 | DRILLER/ COMPANY Discovery

SAMPLES 2 | SAMPLE TYPE Grab | SAMPLER TYPE/DIAMETER 2" SS | TOTAL DEPTH (FT) 36' | DEPTH TO SWL (FT) — | TOP OF HOLE ELEVATION 9K.14

DEPTH (FEET)	BLOWS (6 IN.)	GRAIN SIZE % GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE TIME	SAMPLE INTERVAL	SOIL DESCRIPTION (ASTM 2488)
0						SP		1740		Fill Rock + Gravel
8	26 50 X X							1810		No Recovery
10	14 18 16 12					SP		1820		Crushed rock No odor, Grey-Brown PID = 0
12	16 14 15 12					SP		1825		Crushed rock + sand No odor/stain Grey-Brown PID = 0
14	22 11 14 13					SP		1835		Crushed Rock No odor/stain PID = 0 Tan-Grey
16	9 22 16 18					SP		1845		Crushed Rock No odor/stain PID = 0
18	28 50 X X							1855		No Recovery
20	50 X X							1905		No Recovery
21										Continued ↓↓

WELL COMPLETED? YES ☒ NO ☐



LOCATION SKETCH

MONTGOMERY WATSON Anchorage, Alaska

SOIL BORING LOG

PROJECT NO.: | BORING NO.: 88-20 | SHEET 2 OF 2

PROJECT Phase III RI SITE Northeast Cape, St. Lawernce Is. CLIENT USACE - Alaska GEOLOGIST ~~McLean~~ Connell

DATE 8/21/02 WEATHER

AK STATE PLANE COORDINATES seaps (Northing) (Easting) ELEVATION DATUM

DRILLING METHOD BORING SIZE HAMMER DROP (IN/LBS) RIG TYPE DRILLER/ COMPANY Discovery

# SAMPLES	SAMPLE TYPE	SAMPLER TYPE/DIAMETER	TOTAL DEPTH (FT)	DEPTH TO SWL (FT)	TOP OF HOLE ELEVATION

DEPTH (FEET)	BLOWS (6 IN.)	GRAIN SIZE: % GRAVEL	% SAND	% FINES	MAX SIZE (IN)	SOIL CLASS	GRAPHIC LOG	SAMPLE: TIME	INTERVAL	SOIL DESCRIPTION (ASTM 2488)
21										Continued - No Recovery
22	9					SP		1915		Crushed Rock - PID=0
(5) 23	13									No odor / stain
	8									
24	10									
(6)	10					SP		1925		Crushed Rock, Brown Sand
25	6									No odor
	4									PID=0
26	11									
(7)	9					SW		1935		Fine grey Sand with some Iron Staining
27	15									No odor. Crushed rock
	21									PID=0
	50									
28	23					SP		1950		Crushed rock, Brown Sand PID=0
(8)	49									
29	50									End of Day 10-24-02
	X									10-25-02
30	50							1030		No Recovery
31	X									
	X									
	X									
32	50							1045		No Recovery
33	X									
	X									
	X									
34	50							1055		No Recovery
35	X									
	X									
	X									
36								1115		Auger Refused @ 36' on Rock
37										Sample 02NE88SB039=#7 + 239 (FD)
										040=#8 340 (DA)
38										
39										
40										
41										
42										

WELL COMPLETED? YES ☐ NO ☒

NORTH

see pg. 1

LOCATION SKETCH

MWH
MONTGOMERY WATSON HARZA

WATER SAMPLING FIELD NOTE FORM

SITE: Northeast Cape Sample ID #: MW 88-1 DATE: 8/15/02
SAMPLE TYPE: NA FIELD CREW: DQ TIME Start : 1030 End 1230
WEATHER: SKY: P. Cloudy PRECIP: 0 WIND: 5 Air Temp. 50

GROUNDWATER : DEVELOPMENT X SAMPLING

Well Condition: NEW
Casing Ht. Above Ground: N/A FLUSH (FT.) Diameter: 2" in.
Well Depth: 25.90 * ft. BTOC (Meas./Rec.) Static Water Level: 21.78 ft. BTOC
Casing (C) = X Well ____ Outside Protective
* Prior to casing cut and flush mount installation
ONE PURGE VOLUME: 7.48 x (dia./24)^2 x 3.14 x (Depth-W. L.)= 3 purge = ± 2 gal .67 gal.

PURGING:	Gallons	Time	Temperature °C	E.C. (µmhos/cm)*	pH*
METHOD	0	1030	7.9	283.1	5.98
	1	1032	4.8	231.1	6.32
Bailer	2+	1040	4.7	228.6	6.89
	No more water	1230	DRY - Sample Directly from pump		
Ded. Pump					
Suction Pump					
Purger Pump					
(other)					

* TEMP. CORRECTED @ 25C

SURFACE WATER

Channel Depth: ____ Width: ____ Velocity: ____ Flow: ____ cfs (Est./Meas.)
Temp: ____ E.C: * ____ pH:* ____ Redox (eH): ____
Temp: ____ E.C: * ____ pH:* ____ Redox (eH): ____

SAMPLE COLLECTION

Method: ____ Appearance: ____

Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300					
Alkalinity EPA300					
BTEX SW8260B					
GRO AK101					
DRO/ RRO AK102/103				PRODUCT Visosity	
				Density	
Methane/Ethane/ Ethene RSK175				Interfacial Tension	

COMMENTS: QA/QC Label ID: Split ____ Dupl. ____ Trip Blank ____ Other ____
** METALS FIELD FILTERED: ____ . PHOTO TAKEN # ____
Calibration/Standard: pH 4, 7, 10 EC ✓ DO NA CO2 NA
Decon completed: by DQ date 8/15/02
REMARKS:

MWH
MONTGOMERY WATSON HARZA

WATER SAMPLING
FIELD NOTE FORM

SITE: Northeast Cape Sample ID #: mw 88-1 DATE: 8/16/02
SAMPLE TYPE: GRAB FIELD CREW: DQ TIME Start: 1310 End 1600
WEATHER: SKY: _____ PRECIP: Ø WIND: 5 Air Temp. 50

GROUNDWATER : DEVELOPMENT _____ SAMPLING X

Well Condition: New
Casing Ht. Above Ground: NA FLUSH* (FT.) Diameter: 2 in.
Well Depth: 26.48 ft. BTOC (Meas./Rec. Static Water Level: 21.94 ft. BTOC
Casing (C) = X Well ____ Outside Protective
* Prior to casing (PVC) cut and flush install -
ONE PURGE VOLUME: 7.48 x (dia./24)^2 x 3.14 x (Depth-W. L.)= 3x Purge ¾ 2.25 gal .75 gal.

PURGING:	Gallons	Time	Temperature °C	E.C. (µmhos/cm)*	pH*
METHOD					
	0	1320	6.2	386.8	6.07
Bailer	1 dry	1330	6.0	387.5	6.03
	1+ dry	1450	6.0	207.4	6.89
Ded. Pump					
Suction Pump					
(other)					

* TEMP. CORRECTED @ 25C DO 8.4 mg/L
TURB >1,000 NTU
CO_2 Not Readable due to turbidity

SURFACE WATER 02NE88GW001

Channel Depth: _____ Width: _____ Velocity: _____ Flow: _____ cfs (Est./Meas.)
Temp: _____ E.C: * _____ pH:* _____ Redox (eH): _____
Temp: _____ E.C: * _____ pH:* _____ Redox (eH): _____

SAMPLE COLLECTION 02NE88GW001 Possibly too Turbid

Method: Bailer Teflon Disposible Appearance: Very Turbid, Brown No Sheen visible, Petrol Odor

Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300	1400 +				
Alkalinity EPA300					
BTEX SW8260B					
GRO AK101					
DRO/ RRO AK102/103				PRODUCT Visosity	
Methane/Ethane/ Ethene RSK175				Density	
				Interfacial Tension	

COMMENTS: QA/QC Label ID: Split _____ Dupl. _____ Trip Blank ☒ Other _____ 8/19/02
** METALS FIELD FILTERED: _____ . PHOTO TAKEN # _____ 02NE88TB003 2400
Calibration/Standard: pH 4, 7, 10 EC ✓ DO NA CO2 NA
Decon completed: by DQ date 8-16-02
REMARKS: Extremely Slow Recharge. Indicative of Perched Groundwater

MWH
MONTGOMERY WATSON HARZA

WATER SAMPLING FIELD NOTE FORM

SITE: Northeast Cape Sample ID #: MW 88-2 DATE: 8-15-02
SAMPLE TYPE: NA FIELD CREW: DQ TIME Start: 1130 End 1455
WEATHER: SKY: P Cloudy PRECIP: 0 WIND: 5 Air Temp. 50

GROUNDWATER : DEVELOPMENT X SAMPLING

Well Condition: NEW
Casing Ht. Above Ground: Flush (FT.) Diameter: 2 in.
Well Depth: 16.06 ft. BTOC (Meas./Rec.) Static Water Level: 9.71 ft. BTOC
Casing (C) = X Well ____ Outside Protective

ONE PURGE VOLUME: 7.48 x (dia./24)^2 x 3.14 x (Depth-W. L.)= 3 purge 1.5 1.7 gal.

PURGING: METHOD	Gallons	Time	Temperature °C	E.C. (µmhos/cm)*	pH*
	0	1130	5.7	226.2	6.50
	2 dry	1140	4.6	243.1	6.06
Bailer	3 dry	1455	4.8	237.8	6.10
Ded. Pump					
Suction Pump					
Bladder Pump					
(other)					

* TEMP. CORRECTED @ 25C

SURFACE WATER

Channel Depth: ____ Width: ____ Velocity: ____ Flow: ____ cfs (Est./Meas.)
Temp: ____ E.C: * ____ pH:* ____ Redox (eH): ____
Temp: ____ E.C: * ____ pH:* ____ Redox (eH): ____

SAMPLE COLLECTION

Method: ____ Appearance: ____

Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300					
Alkalinity EPA300					
BTEX SW8260B					
GRO AK101					
DRO/ RRO AK102/103				PRODUCT Visosity	
Methane/Ethane/ Ethene RSK175				Density	
				Interfacial Tension	

COMMENTS: QA/QC Label ID: Split ____ Dupl. ____ Trip Blank ____ Other ____
** METALS FIELD FILTERED: ____ . PHOTO TAKEN # ____
Calibration/Standard: pH 4, 7, 10 EC ✓ DO NA CO2 NA
Decon completed: by DQ date 8/15/02
REMARKS:

MWH
MONTGOMERY WATSON HARZA

WATER SAMPLING FIELD NOTE FORM

SITE: Northeast Cape Sample ID #: MW 88-2 DATE: 8-17-02
SAMPLE TYPE: Grab FIELD CREW: DG TIME Start: 1645 End 1800
WEATHER: SKY: P.C. PRECIP: RAIN WIND: 40-50 Air Temp. 90°F

GROUNDWATER : DEVELOPMENT _____ SAMPLING X

Well Condition: NEW
Casing Ht. Above Ground: Flush (FT.) Diameter: 2 in.
Well Depth: 20.06 ft. BTOC (Meas./Rec.) Static Water Level: 12.00 ft. BTOC
Casing (C) = X Well ____ Outside Protective

ONE PURGE VOLUME: 7.48 x (dia./24)^2 x 3.14 x (Depth-W. L.)= 3 x 1.3 = 4 gal.

PURGING: METHOD	Gallons	Time	Temperature °C	E.C. (µmhos/cm)*	pH*
	0	1645	6.0	332.1	7.09
	1	1650	5.9	332.7	7.11
Bailer	2 day	1655	5.3	330.4	6.79
	24 dry	1700	5.0	330.7	6.80
Ded. Pump					
Suction Pump					
(other)					

TURB - 288 NTU, DO 8.2 mg/L
CO_2 NA - Due to turbidity

* TEMP. CORRECTED @ 25C

SURFACE WATER

Channel Depth: _____ Width: _____ Velocity: _____ Flow: _____ cfs (Est./Meas.)
Temp: _____ E.C: * _____ pH:* _____ Redox (eH): _____
Temp: _____ E.C: * _____ pH:* _____ Redox (eH): _____

SAMPLE COLLECTION 02NE88GW02

Method: Bailer Teflon Disposible Appearance: Turbid, Brown, No Odor, No Sheen

Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300	1700				
Alkalinity EPA300					
BTEX SW8260B					
GRO AK101					
DRO/ RRO AK102/103				PRODUCT Visosity	
Methane/Ethane/ Ethene RSK175				Density	
				Interfacial Tension	

COMMENTS: QA/QC Label ID: Split _____ Dupl. _____ Trip Blank ✓ Other _____
** METALS FIELD FILTERED: _____. PHOTO TAKEN # _____ 02NE88TB002 8/19/02 2102
Calibration/Standard: pH 4,7,10 EC ✓ DO NA CO2 NA
Decon completed: by DG date 8-17-02
REMARKS: Indicative of perched water. Column appears full but once purged extremely slow to recover

MWH
MONTGOMERY WATSON HARZA

WATER SAMPLING FIELD NOTE FORM

SITE: Northeast Cape Sample ID #: MW 88-3 DATE: 8-18-02
SAMPLE TYPE: NA FIELD CREW: DQ TIME Start : 1050 End 1050
WEATHER: SKY: P.C. PRECIP: ϕ WIND: 10 Air Temp. 52

GROUNDWATER : DEVELOPMENT X SAMPLING _____

Well Condition: NEN
Casing Ht. Above Ground: NA Flush (FT.) Diameter: 2 in.
Well Depth: 20.10* ft. BTOC (Meas./Rec. Static Water Level: 15.12 ft. BTOC
Casing (C) = X Well ____ Outside Protective
* Prior to PVC Cut.
ONE PURGE VOLUME: 7.48 x (dia./24)^2 x 3.14 x (Depth-W. L.)= 3x Purge = 22.5 .83 gal.

PURGING: METHOD	Gallons	Time	Temperature °C	E.C. (µmhos/cm)*	pH*	
	0	1000	4.5	243.6	8.20	Sheen + odor
	1	1005	3.2	279.3	7.41	
Bailer	2	1010	3.4	242.7	7.43	Muddy Brown
	3	1015	3.6	248.5	7.40	
Ded. Pump	5	1030	3.6	237.0	7.38	Clearing up
	10	1050	3.6	233.7	7.40	Clearing up
Suction Pump						
Finger Pump						
(other)						

* TEMP. CORRECTED @ 25C

SURFACE WATER

Channel Depth: _____ Width: _____ Velocity: _____ Flow: _____ cfs (Est./Meas.)
Temp: _____ E.C: * _____ pH:* _____ Redox (eH): _____
Temp: _____ E.C: * _____ pH:* _____ Redox (eH): _____

SAMPLE COLLECTION

Method: _____ Appearance: _____

Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300					
Alkalinity EPA300					
BTEX SW8260B					
GRO AK101					
DRO/ RRO AK102/103				PRODUCT Visosity	
Methane/Ethane/ Ethene RSK175				Density	
				Interfacial Tension	

COMMENTS: QA/QC Label ID: Split _____ Dupl. _____ Trip Blank _____ Other _____
** METALS FIELD FILTERED: _____ . PHOTO TAKEN # _____
Calibration/Standard: pH 4, 7, 10 EC ✓ DO NA CO2 NA
Decon completed: by DQ date 8/18/02
REMARKS:

MWH MONTGOMERY WATSON HARZA

WATER SAMPLING FIELD NOTE FORM

SITE: Northwest Cape Sample ID #: MW 88-3 DATE: 8-19-02
SAMPLE TYPE: Grab FIELD CREW: DQ TIME Start: 1215 End 1325
WEATHER: SKY: P.C. PRECIP: Φ WIND: 10 Air Temp. 50

GROUNDWATER : DEVELOPMENT _______ SAMPLING X

Well Condition: NEW
Casing Ht. Above Ground: Flush/final Elev (FT.) Diameter: 2 in.
Well Depth: 19.64 ft. BTOC (Meas.)/Rec. Static Water Level: 14.76 ft. BTOC
Casing (C) = X Well ____ Outside Protective

ONE PURGE VOLUME: 7.48 x (dia./24)^2 x 3.14 x (Depth-W. L.)= 3x purge = 2.55 .85 gal.

PURGING: METHOD	Gallons	Time	Temperature °C	E.C. (µmhos/cm)*	pH*
Bailer	0	1215	3.6	129.4	8.56
	1	1217	2.4	138.0	8.03
Ded. Pump	2 dry	1220	2.5	141.6	7.66
	3 dry	1230	2.5	153.8	7.32
Suction Pump					
Purger Pump (other)					

DO 8.2 mg/l, Turb > 1,000 NTU * TEMP. CORRECTED @ 25C
CO2 not tested

SURFACE WATER

Channel Depth: ______ Width: ______ Velocity: ______ Flow: ______ cfs (Est./Meas.)
Temp: ______ E.C: * ______ pH:* ______ Redox (eH): ______
Temp: ______ E.C: * ______ pH:* ______ Redox (eH): ______

SAMPLE COLLECTION 02NE88GW003

Method: Bailer Teflon Disposible Appearance: Brownish, Sheen + Petrol Odor Present

Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300	1230				
Alkalinity EPA300	↓				
BTEX SW8260B	↓				
GRO AK101	↓				
DRO/ RRO AK102/103	↓			PRODUCT	
				Visosity	
Methane/Ethane/	↓			Density	
Ethene RSK175	↓			Interfacial Tension	

COMMENTS: QA/QC Label ID: Split ______ Dupl. ______ Trip Blank ✓ 02NE88TB003 Other ______ 8/19/02 @ 2100
** METALS FIELD FILTERED: ______ . PHOTO TAKEN #: ✓
Calibration/Standard: pH 4,7,10 EC ✓ DO NM CO2 NM
Decon completed: by DQ date 8-19-02
REMARKS:

MWH MONTGOMERY WATSON HARZA

WATER SAMPLING FIELD NOTE FORM

SITE: Northeast Cape	Sample ID #: MW88-4	DATE: 8-18-02
SAMPLE TYPE: NA	FIELD CREW: DQ	TIME Start: 1100 End 1200
WEATHER: SKY: P.C.	PRECIP: Ø	WIND: 10 Air Temp. 50

GROUNDWATER : DEVELOPMENT X SAMPLING ____

Well Condition: New

Casing Ht. Above Ground: Flush* (FT.) Diameter: 2 in.

Well Depth: 17.2 * ft. BTOC (Meas./Rec. Static Water Level: 11.20 ft. BTOC

Casing (C) = X Well ____ Outside Protective

* Prior to PVC cut.

3 x Purge = 3.0 gal

ONE PURGE VOLUME: 7.48 x (dia./24)^2 x 3.14 x (Depth-W. L.)= 1.0 gal.

PURGING: METHOD	Gallons	Time	Temperature °C	E.C. (µmhos/cm)*	pH*	
Bailer	0	1100	4.4	662	7.35	Muddy
Ded. Pump	5	1115	3.9	630	7.21	Muddy
Suction Pump	7	1125	3.9	649	6.79	less Muddy
Purger Pump (other)	10	1135	3.8	626	6.81	Sl. clear
	15	1200	3.8	621	6.78	Clearing

* TEMP. CORRECTED @ 25C

Sheen & Petrol Odor Present

SURFACE WATER

Channel Depth:	Width:	Velocity:	Flow: cfs (Est./Meas.)
Temp:	E.C: *	pH:*	Redox (eH):
Temp:	E.C: *	pH:*	Redox (eH):

SAMPLE COLLECTION

Method: Appearance:

Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300					
Alkalinity EPA300					
BTEX SW8260B					
GRO AK101					
DRO/ RRO AK102/103				PRODUCT	
				Visosity	
Methane/Ethane/ Ethene RSK175				Density	
				Interfacial Tension	

COMMENTS: QA/QC Label ID: Split____ Dupl.____ Trip Blank____ Other____

** METALS FIELD FILTERED: ____ . PHOTO TAKEN #____

Calibration/Standard: pH 4, 7, 10 EC – DO NA CO2 NA

Decon completed: by DQ date 8/18/02

REMARKS:

MWH
MONTGOMERY WATSON HARZA

WATER SAMPLING FIELD NOTE FORM

SITE: Northeast Cape Sample ID #: MW 88-4 DATE: 8-19-02
SAMPLE TYPE: Grab FIELD CREW: DQ TIME Start: 1245 End 1330
WEATHER: SKY: P.C. PRECIP: ∅ WIND: 10 Air Temp. 50

GROUNDWATER : DEVELOPMENT ______ SAMPLING X

Well Condition: NEW
Casing Ht. Above Ground: NA - FLUSH (FT.) Diameter: 2 in.
Well Depth: 16.14 Final Elevation ft. BTOC (Meas./Rec. Static Water Level: 10.41 ft. BTOC
Casing (C) = X Well ____ Outside Protective

3 x Purge ? 3.0

ONE PURGE VOLUME: 7.48 x (dia./24)^2 x 3.14 x (Depth-W. L.)= 1.0 gal.

PURGING:	Gallons	Time	Temperature °C	E.C. (µmhos/cm)*	pH*
METHOD	0	1245	3.2	646	6.78
	1	1247	2.1	630	6.62
Bailer	2	1250	2.1	668	6.63
	3	1255	2.1	666	6.60
Ded. Pump	4 dry	1310	2.1	666	6.62
	5 dry	1330	2.1	665	6.61
Suction Pump					
Purger Pump (other)					

Turb = >1,000 NTU, DO + CO_2 NA due to High Turbidity

* TEMP. CORRECTED @ 25C

SURFACE WATER

Channel Depth: ______ Width: ______ Velocity: ______ Flow: ______ cfs (Est./Meas.)
Temp: ______ E.C. *______ pH:*______ Redox (eH): ______
Temp: ______ E.C. *______ pH:*______ Redox (eH): ______

SAMPLE COLLECTION

Primary 02NE88GW004, Duplicate 02NE88GW204, Triplicate (split QA) 02NE88GW304 (MS/MSD All Analytes)

Method: Bailer (Teflon) Disposable Appearance: Grey Brown / Sheen Petrol Odor

Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300	1330				
Alkalinity EPA300	↓				
BTEX SW8260B	↓				
GRO AK101	↓				
DRO/ RRO AK102/103	↓			PRODUCT	
				Visosity	
Methane/Ethane/	↓			Density	
Ethene RSK175	↓	Samples taken		Interfacial Tension	

COMMENTS: QA/QC Label ID: Split 1340 Dupl. 1335 Trip Blank ↑ Other 8/19/02 @ 1330
02NE 88 TB003

** METALS FIELD FILTERED: ______ . PHOTO TAKEN # ✓

Calibration/Standard: pH 4,7,10 EC ✓ DO NA CO2 NA

Decon completed: by DQ date 8-19-02

REMARKS:

MWH
MONTGOMERY WATSON HARZA

WATER SAMPLING
FIELD NOTE FORM

SITE: Northeast Cape Sample ID #: MW 88-5 DATE: 8-18-02
SAMPLE TYPE: NA FIELD CREW: DQ TIME Start: 1400 End 1545
WEATHER: SKY: _____ PRECIP: Ø WIND: 5 Air Temp. 50

GROUNDWATER : DEVELOPMENT X SAMPLING _____
Well Condition: NEW
Casing Ht. Above Ground: NA - Flush (FT.) Diameter: 2 in.
Well Depth: 17.45 * ft. BTOC (Meas./Rec.) Static Water Level: 12.32 ft. BTOC
Casing (C) = X Well ____ Outside Protective
* Prior to PVC Cut - See Sampling for Level Elevation 3 x Purge = 2.5 gal
ONE PURGE VOLUME: 7.48 x (dia./24)^2 x 3.14 x (Depth-W. L.)= .85 gal.

PURGING: METHOD	Gallons	Time	Temperature °C	E.C. (µmhos/cm)*	pH*	
	0	1400	4.4	239.9	7.34	Very Dark
	1 dry	1410	3.9	237.2	7.22	Petrol Odor
Bailer	11 dry	1430	4.2	242.3	6.53	Very Slow
	2 dry	1450	4.2	244.5	6.52	Clearing
Ded. Pump	2+ dry	1530	4.2	242.0	6.58	Clearing
Suction Pump						
Purger Pump						
(other)						

* TEMP. CORRECTED @ 25C

Sheen & Petrol Odor

SURFACE WATER

Channel Depth: _____ Width: _____ Velocity: _____ Flow: _____ cfs (Est./Meas.)
Temp: _____ E.C: * _____ pH:* _____ Redox (eH): _____
Temp: _____ E.C: * _____ pH:* _____ Redox (eH): _____

SAMPLE COLLECTION

Method: _____ Appearance: _____

Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300					
Alkalinity EPA300					
BTEX SW8260B					
GRO AK101					
DRO/ RRO AK102/103				PRODUCT Visosity	
Methane/Ethane/ Ethene RSK175				Density	
				Interfacial Tension	

COMMENTS: QA/QC Label ID: Split _____ Dupl. _____ Trip Blank _____ Other _____
** METALS FIELD FILTERED: _____ . PHOTO TAKEN # _____
Calibration/Standard: pH 4, 7, 10 EC ✓ DO NA CO2 NA
Decon completed: by DQ date 8/18/02
REMARKS:

MWH
MONTGOMERY WATSON HARZA

WATER SAMPLING
FIELD NOTE FORM

SITE: Northeast Cape	Sample ID #: MW 88-5	DATE: 8-19-02
SAMPLE TYPE: Grab	FIELD CREW: DQ	TIME Start: 1315 End 1520
WEATHER: SKY: P.C.	PRECIP: Ø	WIND: 10 Air Temp. 50

GROUNDWATER : DEVELOPMENT _______ SAMPLING X

Well Condition: NEW
Casing Ht. Above Ground: NA - Flush (FT.) Diameter: 2 in.
Well Depth: 14.95 (Field Fitted) ft. BTOC (Meas.)/Rec. Static Water Level: 9.8 ft. BTOC
Casing (C) = X Well ____ Outside Protective

3 x Purge ≈ 2.5
ONE PURGE VOLUME: 7.48 x (dia./24)^2 x 3.14 x (Depth-W. L.)= .85 gal.

PURGING: METHOD	Gallons	Time	Temperature °C	E.C. (µmhos/cm)*	pH*
	C	1315	4.1	236.8	7.40
(Bailer)	1 dry	1320	3.3	232.9	7.25
Ded. Pump	1+ dry	1500	3.3	2[illegible]	7.16
Suction Pump					
~~Purger Pump~~ Ded (other)					

Turb > 1,000 NTU
DO - NA > due to turbidity
CO_2 - NA

* TEMP. CORRECTED @ 25C

SURFACE WATER

Channel Depth:	Width:	Velocity:	Flow: cfs (Est./Meas.)
Temp:	E.C: *	~~pH:*~~	~~Redox (eH):~~
~~Temp:~~	E.C: *	pH:*	Redox (eH):

SAMPLE COLLECTION 02NE88GW005

Method: Bailer (teflon) Disposible Appearance: Dark gray, Sheen, heavy petrol odor

Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300	1500				
Alkalinity EPA300	↓				
BTEX SW8260B	↓				
GRO AK101	↓				
DRO/ RRO AK102/103	↓			PRODUCT Visosity	
Methane/Ethane/	↓			Density	
Ethene RSK175	↓			Interfacial Tension	

COMMENTS:	QA/QC Label ID: Split	Dupl.	Trip Blank ↑ 02NE88TB003	Other 8/19/02 @ 2100
** METALS FIELD FILTERED:		PHOTO TAKEN #		
Calibration/Standard: pH 4, 7, 10		EC ✓	DO NA	CO2 NA
Decon completed: by DQ		date 8-19-02		
REMARKS: Extremely Slow Recharge, Very indication of petrol water				

MWH
MONTGOMERY WATSON HARZA

WATER SAMPLING FIELD NOTE FORM

SITE: Northeast Cape Sample ID #: MW 88-6 DATE: 8-19-02
SAMPLE TYPE: NA FIELD CREW: DQ TIME Start : 1100 End 1230
WEATHER: SKY: P.C PRECIP: ϕ WIND: 10 Air Temp. 50

GROUNDWATER : DEVELOPMENT X SAMPLING _____

Well Condition: NEW
Casing Ht. Above Ground: NA - Flush (FT.) Diameter: 2 in.
Well Depth: 15.2 ft. BTOC (Meas./Rec.) Static Water Level: 10.40 ft. BTOC
Casing (C) = X Well ____ Outside Protective

3 x 1 purge = ~ 2.5 gal

ONE PURGE VOLUME: 7.48 x (dia./24)^2 x 3.14 x (Depth-W. L.)= .85 gal.

PURGING: METHOD	Gallons	Time	Temperature °C	E.C. (µmhos/cm)*	pH*	
	0	1100	6.2	420.8	7.45	Very Dark Grey
	1 dry	1110	4.3	454.7	7.16	
Bailer	2 dry	1130	4.3	428.4	6.98	
	3 dry	1145	4.0	419.8	6.95	
Ded. Pump	4 dry	1230	3.6	414.1	6.92	
Suction Pump						
Peristaltic Pump						
(other)						

* TEMP. CORRECTED @ 25C

STRONG Petrol Odor

SURFACE WATER

Channel Depth: _____ Width: _____ Velocity: _____ Flow: _____ cfs (Est./Meas.)
Temp: _____ E.C: * _____ pH:* _____ Redox (eH): _____
Temp: _____ E.C: * _____ pH:* _____ Redox (eH): _____

SAMPLE COLLECTION

Method: _____ Appearance: _____

Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300					
Alkalinity EPA300					
BTEX SW8260B					
GRO AK101					
DRO/ RRO AK102/103				PRODUCT Visosity	
Methane/Ethane/ Ethene RSK175				Density	
				Interfacial Tension	

COMMENTS: QA/QC Label ID: Split _____ Dupl. _____ Trip Blank _____ Other _____
** METALS FIELD FILTERED: _____ . PHOTO TAKEN # _____
Calibration/Standard: pH 4, 7, 10 EC ~ DO NA CO2 NA
Decon completed: by DQ date 8/19/02
REMARKS:

MWH
MONTGOMERY WATSON HARZA

WATER SAMPLING
FIELD NOTE FORM

SITE: Northeast Cape Sample ID #: MW 88-6 DATE: 8-20-02
SAMPLE TYPE: Grab FIELD CREW: DQ TIME Start: 1230 End 1315
WEATHER: SKY: PC PRECIP: 0 WIND: 10 Air Temp. 50

GROUNDWATER : DEVELOPMENT _____ SAMPLING X

Well Condition: NEW
Casing Ht. Above Ground: Flush (FT. Diameter: 2 in.
Well Depth: 15.20 ft. BTOC (Meas)/Rec. Static Water Level: 10.43 ft. BTOC
Casing (C) = X Well ____ Outside Protective

3x purge = 32.5 gal

ONE PURGE VOLUME: 7.48 x (dia./24)^2 x 3.14 x (Depth-W. L.)= 10.8 gal.

PURGING:	Gallons	Time	Temperature °C	E.C. (µmhos/cm)*	pH*
METHOD	0	1230	4.4	411.0	7.52
	1	1240	3.2	393.9	7.53
Bailer	2 dry	1245	3.0	419.6	7.00
	2+ dry	1300	3.0	413.0	7.09
Ded. Pump					
Suction Pump					
(other)					

TURB >1,000 NTU
DO NM
CO_2 NA > TOO TURBID

* TEMP. CORRECTED @ 25C

SURFACE WATER

Channel Depth: _____ Width: _____ Velocity: _____ Flow: _____ cfs (Est./Meas.)
Temp: _____ E.C: * _____ pH:* _____ Redox (eH): _____
Temp: _____ E.C: * _____ pH:* _____ Redox (eH): _____

SAMPLE COLLECTION 02NE88GWCC6

Method: Teflon Bailer (Disposible) Appearance: Dark Gray, Very Turbid, Sheen, Odor (strong)

Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300	1300				
Alkalinity EPA300					
BTEX SW8260B					
GRO AK101					
DRO/ RRO AK102/103				PRODUCT Visosity	
				Density	
Methane/Ethane/ Ethene RSK175				Interfacial Tension	

COMMENTS: QA/QC Label ID: Split _____ Dupl. _____ Trip Blank 2100 Other _____
** METALS FIELD FILTERED: _____ . PHOTO TAKEN # _____ 8-19-02 02NE88TA003
Calibration/Standard: pH 4,7,10 EC ✓ DO NM CO2 NM
Decon completed: by DQ date 8-20-02
REMARKS:

MWH
MONTGOMERY WATSON HARZA

WATER SAMPLING FIELD NOTE FORM

SITE: Northeast Cape Sample ID #: MW 88-7 DATE: 8-19-02
SAMPLE TYPE: NA FIELD CREW: DQ TIME Start : 1115 End 1220
WEATHER: SKY: P.C PRECIP: Ø WIND: 10 Air Temp. 50

GROUNDWATER : DEVELOPMENT X SAMPLING ____

Well Condition: NEW
Casing Ht. Above Ground: Flush (FT.) Diameter: 2 in.
Well Depth: 19.02 ft. BTOC (Meas./Rec.) Static Water Level: 14.01 ft. BTOC
Casing (C) = X Well ____ Outside Protective

3x purge = ± 25 gal

ONE PURGE VOLUME: 7.48 x (dia./24)^2 x 3.14 x (Depth-W. L.)= .80 gal.

PURGING:	Gallons	Time	Temperature °C	E.C. (µmhos/cm)*	pH*	
METHOD	0	1115	4.5	403.2	6.97	Very Dark Petrol Odor
	~2	1118	4.3	424.4	6.86	
Bailer	4	1120	3.1	418.5	6.89	Very Dark
	5	1125	2.7	406.7	6.81	
Ded. Pump	10	1140	2.9	402.6	6.80	
	15	1155	2.0	402.8	6.71	Clearing slightly
Suction Pump	~20	1205	2.9	480.0	6.76	
Purger Pump	~25	1215	2.9	398.7	6.78	
(other)						

* TEMP. CORRECTED @ 25C

SURFACE WATER

Channel Depth: ____ Width: ____ Velocity: ____ Flow: ____ cfs (Est./Meas.)
Temp: ____ E.C: * ____ pH:* ____ Redox (eH): ____
Temp: ____ E.C: * ____ pH:* ____ Redox (eH): ____

SAMPLE COLLECTION

Method: ____ Appearance: ____

Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300					
Alkalinity EPA300					
BTEX SW8260B					
GRO AK101					
DRO/ RRO AK102/103				PRODUCT Visosity	
				Density	
Methane/Ethane/ Ethene RSK175				Interfacial Tension	

COMMENTS: QA/QC Label ID: Split ____ Dupl. ____ Trip Blank ____ Other ____
** METALS FIELD FILTERED: ____ . PHOTO TAKEN # ____
Calibration/Standard: pH 4,7,10 EC ✓ DO NA CO2 NA
Decon completed: by DQ date 8/19/02
REMARKS: Very Good Producer

MWH
MONTGOMERY WATSON HARZA

WATER SAMPLING
FIELD NOTE FORM

SITE: Northland Cape Sample ID #: MW 88-7 DATE: 8-20-02
SAMPLE TYPE: Grab FIELD CREW: DO TIME Start: 1320 End 1410
WEATHER: SKY: PRECIP: 0 WIND: 20 Air Temp. 50

GROUNDWATER : DEVELOPMENT _____ SAMPLING X

Well Condition: NEW
Casing Ht. Above Ground: FLUSH (FT.) Diameter: 2 in.
Well Depth: 19.02 ft. BTOC (Meas./Rec.) Static Water Level: 14.02 ft. BTOC
Casing (C) = X Well ____ Outside Protective

3x Purge Vol: 2.5 gal

ONE PURGE VOLUME: 7.48 x (dia./24)^2 x 3.14 x (Depth-W. L.)= .80 gal.

PURGING:	Gallons	Time	Temperature °C	E.C. (µmhos/cm)*	pH*
METHOD	0	1320	2.8	364.9	7.73
	2	1325	2.3	400.4	7.40
Bailer	4	1330	2.1	412.4	7.12
	5	1340	2.1	421.0	7.00
Ded. Pump	7	1450	2.1	397.1	6.73
	10	1460	2.1	398.6	6.75
Suction Pump					
Grab					
(other)					

* TEMP. CORRECTED @ 25C

SURFACE WATER

Channel Depth: Width: Velocity: Flow: cfs (Est./Meas.)
Temp: E.C: * pH:* Redox (eH):
Temp: E.C: * pH:* Redox (eH):

SAMPLE COLLECTION 02NE88GW007 (MS/MSD ALL ANALYTES)
Method: Teflon Bailer (Disposible) Appearance: Gray - Petrol Odor

Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300	1450				
Alkalinity EPA300					
BTEX SW8260B					
GRO AK101					
DRO/ RRO AK102/103				PRODUCT Visosity	
Methane/Ethane/ Ethene RSK175				Density	
				Interfacial Tension	

COMMENTS: QA/QC Label ID: Split ____ Dupl. ____ Trip Blank 8-19-02 Other ____
** METALS FIELD FILTERED: ____. PHOTO TAKEN # ____ 2100 - 02NE88GW007
Calibration/Standard: pH 4, 7, 10 EC ✓ DO NA CO2 NA
Decon completed: by DO date 8-20-02
REMARKS: Very Good Recovery

MWH
MONTGOMERY WATSON HARZA

WATER SAMPLING
FIELD NOTE FORM

SITE: Northeast Cape Sample ID #: MW 88-8 DATE: 8-19-02
SAMPLE TYPE: NA FIELD CREW: DQ TIME Start: 1230 End 1400
WEATHER: SKY: P.C. PRECIP: Ø WIND: 10 Air Temp. 52

GROUNDWATER : DEVELOPMENT X SAMPLING _____

Well Condition: NEAT
Casing Ht. Above Ground: Flush (FT.) Diameter: 2 in.
Well Depth: 18.70 ft. BTOC (Meas./Rec.) Static Water Level: 14.52 ft. BTOC
Casing (C) = _____ Well ____ Outside Protective

3 x purge = 2 gal

ONE PURGE VOLUME: 7.48 x (dia./24)^2 x 3.14 x (Depth-W. L.)= .7 gal.

PURGING:	Gallons	Time	Temperature °C	E.C. (µmhos/cm)*	pH*	
METHOD	0	1230	7.2	412.3	7.75	Very Dark Petrol Odor Sheen
	1	1235	3.9	477.7	7.13	
Bailer	2	1237	2.9	466.9	7.18	
	3 dry	1240	2.9	458.1	7.05	
Ded. Pump	3+ dry	1245	2.9	459.0	6.74	
	4 dry	1255	2.9	453.8	6.73	
Suction Pump	5 dry	1320	2.9	397.4	7.06	
Purge Pump	6 dry	1340	3.1	380.6	6.95	
(other)	7 dry	1450	3.0	380.2	6.96	

* TEMP. CORRECTED @ 25C

SURFACE WATER

Channel Depth: _____ Width: _____ Velocity: _____ Flow: _____ cfs (Est./Meas.)
Temp: _____ E.C: * _____ pH:* _____ Redox (eH): _____
Temp: _____ E.C: * _____ pH:* _____ Redox (eH): _____

SAMPLE COLLECTION

Method: _____ Appearance: _____

Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300					
Alkalinity EPA300					
BTEX SW8260B					
GRO AK101					
DRO/ RRO AK102/103				PRODUCT Visosity	
Methane/Ethane/ Ethene RSK175				Density	
				Interfacial Tension	

COMMENTS: QA/QC Label ID: Split _____ Dupl. _____ Trip Blank _____ Other _____
** METALS FIELD FILTERED: _____ . PHOTO TAKEN # _____
Calibration/Standard: pH 4, 7, 10 EC ✓ DO NA CO2 NA
Decon completed: by DQ date 8/19/02
REMARKS: Sheen, Very Turbid Dark Grey, Petrol Odor

MWH
MONTGOMERY WATSON HARZA

WATER SAMPLING
FIELD NOTE FORM

SITE: Northeast Cape Sample ID #: MW 88-8 DATE: 8-20-02
SAMPLE TYPE: GRAB FIELD CREW: MJ TIME Start: 1420 End 1515
WEATHER: SKY: PC PRECIP: Ø WIND: 20 Air Temp. 50

GROUNDWATER : DEVELOPMENT _____ SAMPLING X

Well Condition: NEW
Casing Ht. Above Ground: Flush (FT.) Diameter: 2 in.
Well Depth: 18.70 ft. BTOC (Meas./Rec.) Static Water Level: 14.60 ft. BTOC
Casing (C) = X Well ____ Outside Protective

3 x purge x 2 gal

ONE PURGE VOLUME: 7.48 x (dia./24)^2 x 3.14 x (Depth-W. L.)= .7 gal.

PURGING:	Gallons	Time	Temperature °C	E.C. (µmhos/cm)*	pH*
METHOD	0	1420	2.9	380.1	6.99
	1	1430	2.8	374.9	6.83
Bailer	2 dry	1445	2.8	402.4	6.79
	24 dry	1500	2.8	401.6	6.77
Ded. Pump					
Suction Pump					
Purger Pump					
(other)					

Turbidity > 1,000 NTU
DO NA > TOO TURBID
CO_2 NA

* TEMP. CORRECTED @ 25C

SURFACE WATER

Channel Depth: _____ Width: _____ Velocity: _____ Flow: _____ cfs (Est./Meas.)
Temp: _____ E.C: * _____ pH:* _____ Redox (eH): _____
~~Temp:~~ _____ E.C: * _____ pH:* _____ Redox (eH): _____

SAMPLE COLLECTION 02NE88GW008
Method: Teflon Bailer (Disposible) Appearance: Dark Gray, Sheen, Petrol Odor

Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300	1500				
Alkalinity EPA300					
BTEX SW8260B					
GRO AK101					
DRO/ RRO AK102/103				PRODUCT Visosity	
				Density	
Methane/Ethane/ Ethene RSK175				Interfacial Tension	

COMMENTS: QA/QC Label ID: Split _____ Dupl. _____ Trip Blank 8/19/02 Other _____
** METALS FIELD FILTERED: _____. PHOTO TAKEN # 2100 - 02NE88TB003
Calibration/Standard: pH 4, 7, 10 EC ✓ DO NA CO_2 NA
Decon completed: by DQ date 8-19-02
REMARKS:

MWH
MONTGOMERY WATSON HARZA

WATER SAMPLING FIELD NOTE FORM

SITE: Northeast Cape Sample ID #: MW 88-9 DATE: 8-20-02
SAMPLE TYPE: NA FIELD CREW: DQ TIME Start: 1530 End 1650
WEATHER: SKY: P.C. PRECIP: Ø WIND: 20 Air Temp. 50

GROUNDWATER : DEVELOPMENT X SAMPLING ____

Well Condition: NEW
Casing Ht. Above Ground: Flush (FT.) Diameter: 2 in.
Well Depth: 24.45 ft. BTOC (Meas.)/Rec. Static Water Level: 20.24 ft. BTOC
Casing (C) = X Well ____ Outside Protective

3x Purge ≈ 2 gal
ONE PURGE VOLUME: 7.48 x (dia./24)^2 x 3.14 x (Depth-W. L.)= .7 gal.

PURGING: METHOD	Gallons	Time	Temperature °C	E.C. (µmhos/cm)*	pH*	
Bailer	0	1530	5.0	142.3	7.57	Dark Brown/Ta[illegible]
Ded. Pump	2	1534	3.3	119.7	7.54	
Suction Pump	4	1540	3.3	[illegible]	7.23	
Peristaltic Pump (other)	5	1543	3.2	[illegible]	7.07	
	7	1547	2.8	91.7	6.78	
	9	1550	2.7	80.0	6.57	
	10	1555	2.7	85.8	6.46	
	15	1605	2.7	[illegible]	6.45	Clearing Slowly
	20	1620	2.3	[illegible]	6.40	Still Tan not Clear
	25	1640	2.3	[illegible]	6.40	

* TEMP. CORRECTED @ 25C

SURFACE WATER

Channel Depth: ____ Width: ____ Velocity: ____ Flow: ____ cfs (Est./Meas.)
Temp: ____ E.C: * ____ pH:* ____ Redox (eH): ____
Temp: ____ E.C: * ____ pH:* ____ Redox (eH): ____

SAMPLE COLLECTION

Method: ____ Appearance: ____

Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300					
Alkalinity EPA300					
BTEX SW8260B					
GRO AK101					
DRO/ RRO AK102/103				PRODUCT Visosity	
Methane/Ethane/				Density	
Ethene RSK175				Interfacial Tension	

COMMENTS: QA/QC Label ID: Split ____ Dupl. ____ Trip Blank ____ Other ____
** METALS FIELD FILTERED: ____ . PHOTO TAKEN # ____
Calibration/Standard: pH 4,7,10 EC ✓ DO NA CO2 NA
Decon completed: by DQ date 8/20/02
REMARKS: Best Producer of all New Wells - No odor, No Sheen, Tan Turbidity vs. Dark Grey at all other locations.

MWH
MONTGOMERY WATSON HARZA

WATER SAMPLING
FIELD NOTE FORM

SITE: Northeast Cape Sample ID #: MW 88-9 DATE: 8-21-02
SAMPLE TYPE: Grab FIELD CREW: DQ TIME Start: 1430 End 1520
WEATHER: SKY: Mostly Clear PRECIP: Ø WIND: 20 Air Temp. 50

GROUNDWATER : DEVELOPMENT _____ SAMPLING X

Well Condition: NEW
Casing Ht. Above Ground: Flush (FT.) Diameter: 2 in.
Well Depth: 24.45 ft. BTOC (Meas./Rec.) Static Water Level: 20.22 ft. BTOC
Casing (C) = X Well ____ Outside Protective

3 x purge ≈ 2 gal

ONE PURGE VOLUME: 7.48 x (dia./24)^2 x 3.14 x (Depth-W. L.)= .7 gal.

PURGING: METHOD	Gallons	Time	Temperature °C	E.C. (µmhos/cm)*	pH*
	0	1430	4.6	92.9	8.00
	1	1435	2.7	88.1	7.62
Bailer	2	1440	2.6	87.1	7.41
	3	1442	2.3	85.4	7.15
Ded. Pump	4	1445	2.3	84.6	6.99
	5	1450	2.3	84.7	6.96
Suction Pump	10	1500	2.3	84.9	6.88
~~Purge Pump~~					
(other)					

Turbidity 220 NTU
DO 4.1 mg/L
CO_2 1.9 mg/L

* TEMP. CORRECTED @ 25C

SURFACE WATER

~~Channel Depth:~~ _____ Width: _____ Velocity: _____ Flow: _____ cfs (Est./Meas.)
Temp: _____ E.C: * _____ pH:* _____ Redox (eH): _____
Temp: _____ E.C: * _____ pH:* _____ Redox (eH): _____

SAMPLE COLLECTION 02NE88GW009

Method: Teflon Bailer (Disposible) Appearance: Tan - NO SHEEN, NO ODOR

Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300	1400				
Alkalinity EPA300					
BTEX SW8260B					
GRO AK101					
DRO/ RRO AK102/103				PRODUCT Visosity	
Methane/Ethane/ Ethene RSK175				Density	
				Interfacial Tension	

COMMENTS: QA/QC Label ID: Split _____ Dupl. _____ Trip Blank 8.19.02 Other _____
** METALS FIELD FILTERED: _____ . PHOTO TAKEN # _____ @1400 - 02NE88TB003
Calibration/Standard: pH 4,7,10 EC ✓ DO N/A CO2 NA
Decon completed: by DQ date 8-21-02
REMARKS: Tan Turbidity unlike any of the other MW88 series wells. No Sheen, No Odor

MWH
MONTGOMERY WATSON HARZA

WATER SAMPLING
FIELD NOTE FORM

SITE: Northeast Cape Sample ID #: MW 88-10 DATE: 8-28-02
SAMPLE TYPE: NA FIELD CREW: DG TIME Start : 1630 End 1850
WEATHER: SKY: P.C. PRECIP: 0 WIND: 20 Air Temp. 50

GROUNDWATER : DEVELOPMENT X SAMPLING _____

Well Condition: NEW
Casing Ht. Above Ground: Flush (FT.) Diameter: 2 in.
Well Depth: 26.50 ft. BTOC (Meas./Rec.) Static Water Level: 24.29 ft. BTOC
Casing (C) = X Well ____ Outside Protective

3X purge ≈ 3/4 gal

ONE PURGE VOLUME: 7.48 x (dia./24)^2 x 3.14 x (Depth-W. L.)=_____gal.

PURGING: METHOD	Gallons	Time	Temperature °C	E.C. (µmhos/cm)*	pH*
	0	1630	3.6	382.1	6.02
	0.5 dry	1700	No WATER		
Bailer	0.5+ dry	1850	No Water / about 2cm of Mud		
Ded. Pump					
Suction Pump					
(other)					

* TEMP. CORRECTED @ 25C

Dark Grey, Muddy Silty, Sheen, Petrol Odor

SURFACE WATER

Channel Depth:_____ Width:_____ Velocity:_____ Flow:_____cfs (Est./Meas.)
Temp: _____ E.C: *_____ pH:*_____ Redox (eH):_____
Temp: _____ E.C: *_____ pH:*_____ Redox (eH):_____

SAMPLE COLLECTION

Method:_____ Appearance:_____

Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300					
Alkalinity EPA300					
BTEX SW8260B					
GRO AK101					
DRO/ RRO AK102/103				PRODUCT Visosity	
Methane/Ethane/ Ethene RSK175				Density	
				Interfacial Tension	

COMMENTS: QA/QC Label ID: Split_____ Dupl._____ Trip Blank_____ Other_____

** METALS FIELD FILTERED: _____. PHOTO TAKEN #_____

Calibration/Standard: pH 4, 7, 10 EC ✓ DO NA CO2 NA

Decon completed: by DG date 8/20/02

REMARKS: Very thick, Muddy Silty Water, Unsure if May not be able to Sample, will sample directly tomorrow w/ minimal purge.

MWH
MONTGOMERY WATSON HARZA

WATER SAMPLING FIELD NOTE FORM

SITE: Northeast Cape Sample ID #: MW 88-10 DATE: 8-21-00
SAMPLE TYPE: Grab FIELD CREW: DQ TIME Start: 1400 End 1740
WEATHER: SKY: Nice Day Clear P.C. PRECIP: Ø WIND: 20 Air Temp. 52

GROUNDWATER : DEVELOPMENT _____ SAMPLING X

Well Condition: NEW
Casing Ht. Above Ground: Flush (FT.) Diameter: 2 in.
Well Depth: 26.00 ft. BTOC (Meas./Rec.) Static Water Level: 24.98 ft. BTOC
Casing (C) = X Well ____ Outside Protective

3x purge @ 0.5 gal

ONE PURGE VOLUME: 7.48 x (dia./24)^2 x 3.14 x (Depth-W. L.)= _____ gal.

PURGING: METHOD	Gallons	Time	Temperature °C	E.C. (µmhos/cm)*	pH*
	0	1400	3.6	422.1	7.66
Bailer		All Water Collected Used for Sample			
		Well is essentially dry			
Ded. Pump					
Suction Pump					
(other)					

Turbidity >1,000 NTU
DO NA
CO_2 NA > Too Turbid

* TEMP. CORRECTED @ 25C

SURFACE WATER

Channel Depth: _____ Width: _____ Velocity: _____ Flow: _____ cfs (Est./Meas.)
Temp: _____ E.C: * _____ pH:* _____ Redox (eH): _____
Temp: _____ E.C: * _____ pH:* _____ Redox (eH): _____

SAMPLE COLLECTION

QA NESB GW 013

Method: Teflon Bailer Appearance: Very Turbid almost muddy, negligible recharge.

Analyte	Time	Analyte	Time	Analyte	Time
Sulfate EPA300	1400				
Alkalinity EPA300					
BTEX SW8260B					
GRO AK101					
DRO/ RRO AK102/103				PRODUCT Visosity	
Methane/Ethane/ Ethene RSK175				Density	
				Interfacial Tension	

COMMENTS: QA/QC Label ID: Split _____ Dupl. _____ Trip Blank 8-19-02 Other _____
** METALS FIELD FILTERED: _____ . PHOTO TAKEN # C2100 - D2NESBGT3003
Calibration/Standard: pH 4,7,10 EC ✓ DO NA CO2 NA
Decon completed: by DQ date
REMARKS: Very Slow in Obtaining Sample Volume. After initial bailer maximum of 1-2 inches muddy water available. Sample Collected from 1400 to 1730.

COC # 02NE 1

2002 Northeast Cape 1850574.260120					SOIL				WATER				
FROM: MWH 4100 Spenard Road Anchorage AK 99517 (907)248-8883 Fax (907) 248-8884 ATTN: Johanna Dreher		TO: Columbia Analytical Services 1317 South 13th Avenue Kelso, WA 98626 Phone: 360-577-7222 Fax: 360-636-1068 Attn. Mingta Lin			DRO/RRO AK102/103, PAH SIM SW8270C, PCB SW8082, Lead, Zinc, Chromium SW6020, TOC by lab SOP	BTEX SW8260B	GRO AK101	Spare	Sulfate EPA 300 Alkalinity EPA 300	BTEX SW8260B GRO AK101	Methane, Ethane, Ethene RSK 175	DRO/RRO AK102/103	30 day Turn-Around-Time COELT EDD Hardcopy Deliverable BOA Option 2 Please FAX a copy of COC and Sample Check-in form to: Gerald Archibald at (907)753-2636 Phone: (907)753-2691 Sandra Kimbrell at (907) 353-7070
Sampler's Signature					[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Date 2002	Time	Sample ID	Matrix	Total Containers	[illegible]	[illegible]	[illegible]	[illegible]	1L bottles	VOA Vials	VOA Vials	[illegible]	
8/14	1530	02NE88SB001	S	3	X			X					MS/MSD
8/14	1600	02NE88SB002	S	2	X			X					
8/14	1645	02NE88SB003	S	2	X			X					
8/14	1700	02NE88SB004	S	2	X			X					
8/15	1155	02NE88SB005	S	2	X			X					
8/17	1110	02NE88SB006	S	2	X			X					
8/17	1320	02NE88SB007	S	2	X			X					
8/17	1330	02NE88SB008	S	2	X			X					
8/17	2000	02NE88SB009	S	2	X			X					
8/17	2030	02NE88SB010	S	2	X			X					
8/17	1820	02NE88SB021	S	2	X			X					
8/17	1840	02NE88SB022	S	1	X								
8/17	1200	02NE88SB206	S	2	X			X					

Relinquished by:	Date 8/19/02 Time 0830	Shipped Via Alaska Airlines Goldstreak Air Bill # 4974 2803		
Received for Laboratory by	Date Time	Cooler Temperature Upon Arrival	°C	Laboratory Notified Call or Faxed

2002 Northeast Cape 1850574.260120					SOIL				WATER				
FROM: MWH 4100 Spenard Road Anchorage AK 99517 (907)248-8883 Fax (907) 248-8884 ATTN: Johnna Dreher	TO: Columbia Analytical Services 1317 South 13th Avenue Kelso, WA 98626 Phone: 360-577-7222 Fax: 360-636-1068 Attn: Mingta Lin				DRO/RRO AK102/103, PAH SIM SW8270C, PCB SW8082, Lead, Zinc, Chromium SW6020, TOC by lab SOP	BTEX SW8260B	GRO AK101	Spare	Sulfate EPA 300 Alkalinity EPA 300	BTEX SW8260B GRO AK101	Methane, Ethane, Ethene RSK 175	DRO/RRO AK102/103	30 day Turn-Around-Time COELT EDD Hardcopy Deliverable BOA Option 2 Please FAX a copy of COC and Sample Check-in form to: Gerald Archibald at (907)753-2636 Phone: (907)753-2691 Sandra Kimbrell at (907) 353-7070
Sampler's Signature Douglas Quist	Witness Signature Bonnemaker												
8/18	1145	02NE88SB011	S	2	X			X					
8/18	1155	02NE88SB012	S	2	X			X					
8/18	1335	02NE88SB013	S	2	X			X					
8/18	1350	02NE88SB014	S	2	X			X					

Relinquished by: Douglas Quist	Date 8/19/02 Time 0830	Shipped Via Alaska Airlines Goldstreak Air Bill #	4974 2803	
Received for Laboratory by:	Date Time	Cooler Temperature Upon Arrival	°C	Laboratory Notified Call or Faxed

2002 Northeast Cape

COC # 02NE_2

2002 Northeast Cape
1850574.260120

FROM:
MWH 4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
ATTN: Johanna Dreher

TO:
Columbia Analytical Services
1317 South 13th Avenue
Kelso, WA 98626
Phone: 360-577-7222
Fax: 360-636-1068
Attn: Mingta Lin

30 day Turn-Around-Time
COELT EDD
Hardcopy Deliverable BOA Option 2
Please FAX a copy of COC and Sample Check-in form to:
Gerald Archibald at (907)753-2636 Phone: (907)753-2691
Sandra Kimbrell at (907) 353-7070

Sampler's Signature: Douglas Quist, Bonnie [illegible], William A. [illegible]

Date 2002	Time	Sample ID	Matrix	Containers	SOIL: DRO/RRO AK102/103, PAH SIM SW8270C, PCB SW8082, Lead, Zinc, Chromium SW6020, TOC by lab SOP	SOIL: BTEX SW8260B	SOIL: GRO AK101	SOIL: Spare	WATER: Sulfate EPA 300, Alkalinity EPA 300	WATER: BTEX SW8260B, GRO AK101	WATER: Methane, Ethane, Ethene RSK 175	WATER: DRO/RRO AK102/103	
					[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	VOA Vials	[illegible]	[illegible]	
8/14	1530	02NE88SB001	S	6		X	X						MS/MSD
8/14	1600	02NE88SB002	S	2		X	X						
8/14	1645	02NE88SB003	S	2		X	X						
8/14	1700	02NE88SB004	S	2		X	X						
8/15	1155	02NE88SB005	S	2		X	X						
8/17	1110	02NE88SB006	S	2		X	X						
8/17	1320	02NE88SB007	S	2		X	X						
8/17	1330	02NE88SB008	S	2		X	X						
8/17	2000	02NE88SB009	S	2		X	X						
8/17	2030	02NE88SB010	S	2		X	X						
8/17	1820	02NE88SB021	S	2		X	X						
8/17	1840	02NE88SB022	S	2		X	X						
8/17	1200	02NE88SB206	S	2		X	X						

Relinquished by: Douglas Quist — Date 8/19/02 — Time 0830

Shipped Via Alaska Airlines Goldstreak Air Bill # 4974 2711

Received for Laboratory by: — Date — Time

Cooler Temperature Upon Arrival °C

Laboratory Notified Call or Faxed

COC # 02NE 2

2002 Northeast Cape 1850574.260120					SOIL					WATER				
FROM: MWH 4100 Spenard Road Anchorage AK 99517 (907)248-8883 Fax (907) 248-8884 ATTN: Johanna Dreher	TO: Columbia Analytical Services 1317 South 13th Avenue Kelso, WA 98626 Phone: 360-577-7222 Fax: 360-636-1068 Attn: Mingta Lin				DRO/RRO AK102/103, PAH SIM SW8270C, PCB SW8082, Lead, Zinc, Chromium SW6020, TOC by lab SOP	BTEX SW8260B	GRO AK101	Spare		Sulfate EPA 300 Alkalinity EPA 300	BTEX SW8260B GRO AK101	Methane, Ethane, Ethene RSK 175	DRO/RRO AK102/103	30 day Turn-Around-Time COELT EDD Hardcopy Deliverable BOA Option 2 Please FAX a copy of COC and Sample Check-in form to: Gerald Archibald at (907)753-2636 Phone: (907)753-2691 Sandra Kimbrell at (907) 353-7070
Sampler's Signature Douglas Quist														
Date 2002	Time	Sample Identification	Matrix	# of Containers										
8/18	1145	02NE88SB011	S	2		X	X							
8/18	1155	02NE88SB012	S	2		X	X							
8/18	1335	02NE88SB013	S	2		X	X							
8/18	1350	02NE88SB014	S	2		X	X							
8/14	2100	02NE88TB001	S	2		X	X							

Relinquished by: Douglas Quist	Date 8/19/02 Time 0830	Shipped Via Alaska Airlines Goldstreak Air Bill # 4974 2711			
Received for Laboratory by:	Date Time	Cooler Temperature Upon Arrival	°C	Laboratory Notified Call or Faxed	

2002 Northeast Cape

COC # [redacted] E_3

2002 Northeast Cape 1850574.260120		SOIL				WATER				
FROM: MWH 4100 Spenard Road Anchorage AK 99517 (907)248-8883 Fax (907) 248-8884 ATTN: Johanna Dreher	TO: Columbia Analytical Services 1317 South 13th Avenue Kelso, WA 98626 Phone: 360-577-7222 Fax: 360-636-1068 Attn: Mingta Lin	DRO/RRO AK102/103, PAH SIM SW8270C, PCB SW8082, Lead, Zinc, Chromium SW6020, TOC by lab SOP	BTEX SW8260B	GRO AK101	Spare	Sulfate EPA 300 Alkalinity EPA 300	BTEX SW8260B GRO AK101	Methane, Ethane, Ethene RSK 175	DRO/RRO AK102/103	30 day Turn-Around-Time COELT EDD Hardcopy Deliverable BOA Option 2 Please FAX a copy of COC and Sample Check-in form to: Gerald Archibald at (907)753-2636 Phone: (907)753-2691 Sandra Kimbrell at (907) 353-7070
Sampler's Signature Douglas Quist Bonnie Williard Kimbrell										

Date 2002	Time	Sample ID	Matrix	Container							
8/17	1400	O2NE88GW001	W	8				X	X	X	X
8/17	1700	O2NE88GW002	W	8				X	X	X	X
8/17	2100	O2NE88TB002	W	3					X		
8/14	2100	O2NE88EB001	W	5					X		X
8/17	2100	O2NE88EB002	W	5					X		X
8/18	2100	O2NE88EB003	W	5					X		X

Relinquished by	Date 8/19/02	Shipped Via Alaska Airlines Goldstreak Air Bill # 4974 2722		
Douglas Quist	Time 0830			
Received for Laboratory by	Date	Cooler Temperature Upon Arrival	°C	Laboratory Notified Call or Faxed
	Time			

2002 Northeast Cape
1850574.260120

FROM:
MWH 4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
ATTN. Johanna Dreher

TO:
Columbia Analytical Services
1317 South 13th Avenue
Kelso, WA 98626
Phone: 360-577-7222
Fax: 360-636-1068
Attn: Mingta Lin

30 day Turn-Around-Time
COELT EDD
Hardcopy Deliverable BOA Option 2
Please FAX a copy of COC and Sample Check-in form to:
Gerald Archibald at (907)753-2636 Phone: (907)753-2691
Sandra Kimbrell at (907) 353-7070

Sampler's Signature: Douglas Quist

Date 2002	Time	Sample ID	Matrix	Total Container	SOIL: DRO/RRO AK102/103, PAH SIM SW8270C, PCB SW8082, Lead, Zinc, Chromium SW6020, TOC by lab SOP (1 Clear glass unpreserved; 8oz jar)	SOIL: BTEX SW8260B (1 Clear glass W/MeOH; 4oz jar)	SOIL: GRO AK101 (1 Amber glass w/ MeOH; 4oz jar)	SOIL: Spare (1 Clear glass unpreserved; 4oz jar)	WATER: Sulfate EPA 300, Alkalinity EPA 300 (Plastic unpreserved; 1L bottle)	WATER: BTEX SW8260B, GRO AK101 (3 x 40 ml w/ HCL; VOA Vials)	WATER: Methane, Ethane, Ethene RSK 175 (2 x 40 ml w/ HCL; VOA Vials)	WATER: DRO/RRO AK102/103 (2 x 500ml Amber glass w/ HCL; bottles)	Comments
8/19	1230	02NE886GW003	W	5						X	X		
8/19	1400	02NE886GW004	W	5						X	X		
8/19	1500	02NE886GW005	W	5						X	X		
8/20	1300	02NE886GW006	W	5						X	X		
8/20	1400	02NE886GW007	W	15						X	X		MS/MSD
8/20	1500	02NE886GW008	W	~~[illegible]~~ 5						X	X		~~MS/MSD~~
8/19	1410	02NE886GW204	W	5						X	X		
8/19	2100	02NE88TB003	W	3						X			

Relinquished by: Douglas Quist	Date 8/21/02 Time 0800	Shipped Via Alaska Airlines Goldstreak Air Bill # 4974 2755		
Received for Laboratory by:	Date Time	Cooler Temperature Upon Arrival	°C	Laboratory Notified Call or Faxed

2002 Northeast Cape
1850574.260120

SOIL | WATER

FROM
MWH 4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
ATTN: Johanna Dreher

TO:
Columbia Analytical Services
1317 South 13th Avenue
Kelso, WA 98626
Phone: 360-577-7222
Fax: 360-636-1068
Attn: Mingta Lin

30 day Turn-Around-Time
COELT EDD
Hardcopy Deliverable BOA Option 2
Please FAX a copy of COC and Sample Check-in form to:
Gerald Archibald at (907)753-2636 Phone: (907)753-2691
Sandra Kimbrell at (907) 353-7070

Sampler's Signature: Douglas Quist

Date 2002	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103, PAH SIM SW8270C, PCB SW8082, Lead, Zinc, Chromium SW6020, TOC by lab SOP; 1 Clear glass unpreserved 8oz jar	BTEX SW8260B; 1 Clear glass w/ MeOH 4oz jar	GRO AK101; 1 Amber glass w/ MeOH 4oz jar	Spare; 1 Clear glass unpreserved 4oz jar	Sulfate EPA 300, Alkalinity EPA 300; 1 L plastic unpreserved 1 L bottle	BTEX SW8260B, GRO AK101; 3 VOA Vials w/ HCl	Methane, Ethane, Ethene RSK 175; 2 40 ml w/ HCl VOA Vials	DRO/RRO AK102/103; 500ml Amber glass w/ HCl 2 bottles	Comments
8/19	1230	02NE88GW003	W	5						X	X		
8/19	1460	02NE88GW004	W	5						X	X		
8/19	1500	02NE88GW005	W	5						X	X		
8/20	1300	02NE88GW006	W	5						X	X		
8/20	1400	02NE88GW007	W	15						X	X		MS/MSD
8/20	1500	02NE88GW008	W	~~20~~ 15						X	X		~~MS/MSD~~ DUP
8/19	1410	02NE88GW204	W	5						X	X		
8/19	2100	02NE88TB003	W	3						X			

Relinquished by: Douglas Quist — Date 8/21/02, Time 0800
Shipped Via Alaska Airlines Goldstreak Air Bill # 4974 2755
Received for Laboratory by: — Date, Time
Cooler Temperature Upon Arrival: °C
Laboratory Notified: Call or Faxed

COC # [illegible]

2002 Northeast Cape
1850574.260120

FROM:	TO:
MWH 4100 Spenard Road Anchorage AK 99517 (907)248-8883 Fax (907) 248-8884 ATTN: Johanna Dreher	Columbia Analytical Services 1317 South 13th Avenue Kelso, WA 98626 Phone: 360-577-7222 Fax: 360-636-1068 Attn: Mingta Lin

30 day Turn-Around-Time
COELT EDD
Hardcopy Deliverable BOA Option 2
Please FAX a copy of COC and Sample Check-in form to:
Gerald Archibald at (907)753-2636 Phone: (907)753-2691
Sandra Kimbrell at (907) 353-7070

Sampler's Signature: Douglas Quist

					SOIL				WATER				
Date 2002	Time	Sample ID	Matrix	Total Container	DRO/RRO AK102/103, PAH SIM SW8270C, PCB SW8082, Lead, Zinc, Chromium SW6020, TOC by lab SOP	BTEX SW8260B	GRO AK101	Spare	Sulfate EPA 300 Alkalinity EPA 300	BTEX SW8260B GRO AK101	Methane, Ethane, Ethene RSK 175	DRO/RRO AK102/103	
					[illegible] 8oz jar	[illegible]	[illegible]	[illegible]	[illegible]	VOA vials	VOA vials	[illegible]	[illegible]
8/19	1230	02NE88GW003	W	5						X	X		
8/19	1400	02NE88GW004	W	5						X	X		
8/19	1500	02NE88GW005	W	5						X	X		
8/20	1300	02NE88GW006	W	5						X	X		
8/20	1400	02NE88GW007	W	15						X	X		MS/MSD
8/20	1500	02NE88GW008	W	~~10~~ 5						X	X		~~MS/MSD~~ DUP
8/19	1410	02NE88GW204	W	5						X	X		
8/19	2100	02NE88TB003	W	3						X			

Relinquished by: Douglas Quist	Date 8/21/02 Time 0800	Shipped Via Alaska Airlines Goldstreak Air Bill # 4974 2755	
Received for Laboratory by:	Date Time	Cooler Temperature Upon Arrival °C	Laboratory Notified Call or Faxed

2002 Northeast Cape
1850574.260120

FROM:	TO:
MWH 4100 Spenard Road Anchorage AK 99517 (907)248-8883 Fax (907) 248-8884 ATTN: Johanna Dreher	Columbia Analytical Services 1317 South 13th Avenue Kelso, WA 98626 Phone: 360-577-7222 Fax 360-636-1068 Attn: Mingta Lin

Sampler's Signature: Douglas Quist

	SOIL				WATER				
	DRO/RRO AK102/103, PAH SIM SW8270C, PCB SW8082, Lead, Zinc, Chromium SW6020, TOC by lab SOP	BTEX SW8260B	GRO AK101	Spare	Sulfate EPA 300 Alkalinity EPA 300	BTEX SW8260B GRO AK101	Methane, Ethane, Ethene RSK 175	DRO/RRO AK102/103	
	1 Clear glass jar, unpreserved	1 Clear glass w/ MeOH	1 Amber glass w/ surrogate, MeOH	1 Clear glass w/ MeOH	1 L Plastic, unpreserved	3 x 40 ml w/ HCl	2 x 40 ml w/ HCl	2 x 500 ml Amber glass w/ HCl	Comments
Date 2002 / Time / Sample ID / Matrix / Total Containers	8oz jar	4oz jar	4oz jar	4oz jar	1 L bottle	VOA Vials	VOA Vials	500 ml bottles	
8/19 1230 02NE88GW003 W 2								X	
8/19 1400 02NE88GW004 W 2								X	
8/19 1500 02NE88GW005 W 2								X	
8/20 1300 02NE88GW006 W 2								X	
8/20 1400 02NE88GW007 W 2								X	MS/MSD
8/20 1500 02NE88GW008 W 2								X	~~MS/MSD~~ DO
8/19 1410 02NE88GW204 W 2								X	
								~~X~~ DO	

Relinquished by: Douglas Quist — Date 8/21/02 Time 0800

Received for Laboratory by: — Date — Time

Shipped Via Alaska Airlines Goldstreak Air Bill # 4974 2766

Cooler Temperature Upon Arrival °C

Laboratory Notified Call or Faxed

30 day Turn-Around-Time
COELT EDD
Hardcopy Deliverable BOA Option 2
Please FAX a copy of COC and Sample Check-in form to:
Gerald Archibald at (907)753-2636 Phone: (907)753-2691
Sandra Kimbrell at (907) 353-7070

COC # 02NE 7

2002 Northeast Cape 1850574.260120		SOIL				WATER				
FROM: MWH 4100 Spenard Road Anchorage AK 99517 (907)248-8883 Fax (907) 248-8884 ATTN: Johanna Dreher	TO: Columbia Analytical Services 1317 South 13th Avenue Kelso, WA 98626 Phone: 360-577-7222 Fax: 360-636-1068 Attn: Mingta Lin	DRO/RRO AK102/103, PAH SIM SW8270C, PCB SW8082, Lead, Zinc, Chromium SW6020, TOC by lab SOP	BTEX SW8260B	GRO AK101	Spare	Sulfate EPA 300 Alkalinity EPA 300	BTEX SW8260B GRO AK101	Methane, Ethane, Ethene RSK 175	DRO/RRO AK102/103	30 day Turn-Around-Time COELT EDD Hardcopy Deliverable BOA Option 2 Please FAX a copy of COC and Sample Check-in form to: Gerald Archibald at (907)753-2636 Phone: (907)753-2691 Sandra Kimbrell at (907) 353-7070

Sampler's Signature: Douglas Quist

Date 2002	Time	Sample ID	Matrix	# Containers								
8/19	1230	02NE88GW003	W	1					X				
8/19	1400	02NE88GW004	W	1					X				
8/19	1500	02NE88GW005	W	1					X				
8/20	1300	02NE88GW006	W	1					X				
8/20	1400	02NE88GW007	W	5					X			X	MS/MSD
8/20	1500	02NE88GW008	W	1					X				
8/19	1410	02NE88GW204	W	1					X				

Relinquished by: Douglas Quist	Date 8/21/02	Shipped Via Alaska Airlines Goldstreak Air Bill # 4974 2770		
	Time 0800			
Received for Laboratory by:	Date	Cooler Temperature	°C	Laboratory Notified
	Time	Upon Arrival		Call or Faxed

2002 Northeast Cape Phase III RI

COC # 02NE-8

Revised 1
8-27-02
BMichaan

USAED, ALASKA DISTRICT

FROM:	TO:
MWH 4100 Spenard Road Anchorage AK 99517 (907)248-8883 Fax (907) 248-8884 ATTN: Johanna Dreher MwH job # 1850574 260120	Severn Trent Laboratories 5755 8th Street East Tacoma, WA 98424 Phone: (253)922-2310 Fax: (253)9225047 Attn: Dawn Werner

Northeast Cape Mod 7
NPDL WO # 02-080

30 day Turn-Around-Time
COELT EDD
Hardcopy Deliverable BOA Option 2

Sampler's Signature: Douglas Quist

Date 2002	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103, PAH SIM SW8270C, PCB SW8082, Lead, Zinc, Chromium SW6020, TOC by lab SOP 1 Clear glass, unpreserved 8oz jar	BTEX SW8260B 1 Clear glass w/MeOH 4oz jar	GRO AK101 1 Amber glass w/surrogate MeOH 4oz jar	Spare 1 Clear glass, unpreserved 4oz jar	Sulfate EPA 300 Alkalinity EPA 300 1 Plastic, unpreserved 1 L bottle	BTEX SW8260B GRO AK101 3 x 40 ml w/ HCL VOA Vials	Methane, Ethane, Ethene RSK 175 2 x 40 ml w/ HCL VOA Vials	DRO/RRO AK102/103 2x 500 ml Amber glass w/ HCL bottles	Comments
8/19	1420	02NE886W304	W	22					X	X	X	X	MS/MSD
8/19	2100	02NE88TB0704	W	3						X			

Relinquished by: Douglas Quist — Date 8/21/02, Time 0800

Received for Laboratory by: — Date — Time

Shipped Via Alaska Airlines Goldstreak Air Bill # 497 1720 4611

Cooler Temperature Upon Arrival — °C

Laboratory Notified Call or Faxed

COC # 02NE-8

FROM:	TO:
MWH 4100 Spenard Road Anchorage AK 99517 (907)248-8883 Fax (907) 248-8884 ATTN: Johanna Dreher MwH job # 1850574.260120	Severn Trent Laboratories 5755 8th Street East Tacoma, WA 998424 Phone: (253)922-2310 Fax: (253)9225047 Attn: Dawn Werner WO #

30 day Turn-Around-Time
COELT EDD
Hardcopy Deliverable BOA Option 2

Samplers Signature: Douglas Quist

Date 2002	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103, PAH SIM SW8270C, PCB SW8082, Lead, Zinc, Chromium SW6020, TOC by lab SOP	BTEX SW8260B	GRO AK101	Spare	Sulfate EPA 300 Alkalinity EPA 300	BTEX SW8260B GRO AK101	Methane, Ethane, Ethene RSK 175	DRO/RRO AK102/103	
					1 Clear glass unpreserved	Clear glass w/MeOH	[illegible]	1 Clear glass unpreserved	Plastic unpreserved	3 x 40 ml w/ HCL	2 x 40 ml w/ HCL	2 x 500 ml Amber glass w/ HCL	
					8oz jar	4oz jar	[illegible]	4oz jar	1L bottle	VOA Vials	VOA Vials	bottles	
8/19	1420	02NE88GW304	W	22					X	X	X	X	MS/MSD
8/19	2100	02NE88TB004	W	3						X			

Relinquished by: Douglas Quist	Date 8/21/02 Time 0800	Shipped Via Alaska Airlines Goldstreak Air Bill # 497 1720 4611
Received for Laboratory by:	Date Time	Cooler Temperature Upon Arrival °C

Laboratory Notified
Call or Faxed

COC # 02NE 9

Page 1 of 2

2002 Northeast Cape
1850574.260120

FROM:
MWH 4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
ATTN. Johanna Dreher

TO:
Columbia Analytical Services
1317 South 13th Avenue
Kelso, WA 98626
Phone: 360-577-7222
Fax: 360-636-1068
Attn: Mingta Lin

30 day Turn-Around-Time
COELT EDD
Hardcopy Deliverable BOA Option 2
Please FAX a copy of COC and Sample Check-in form to:
Gerald Archibald at (907)753-2636 Phone: (907)753-2691
Sandra Kimbrell at (907) 353-7070

Samplers Signature: [signature]

					SOIL				WATER				
					DRO/RRO AK102/103, PAH SIM SW8270C, PCB SW8082, Lead, Zinc, Chromium SW6020, TOC by lab SOP	BTEX SW8260B	GRO AK101	Spare	Sulfate EPA 300 Alkalinity EPA 300	BTEX SW8260B GRO AK101	Methane, Ethane, Ethene RSK 175	DRO/RRO AK102/103	
					1 Clear glass unpreserved	1 Clear glass W/MeOH	1 Amber glass w/surrogate MeOH	1 Clear glass unpreserved	Plastic unpreserved	3x40 ml w/ HCL	2x40 ml w/ HCL	2x500 mL Amber glass w/ HCL	
Date 2002	Time	Sample ID	Matrix	Total Containers	8oz jar	4oz jar	4oz jar	4oz jar	1L bottle	VOA Vials	VOA Vials	bottles	Comments
8/18	1700	02NE88SB015	S	2	X			X					
8/18	1720	02NE88SB016	S	2	X			X					
8/19	1310	02NE88SB017	S	3	X			X					MS/MSD DRO, RRO, PAH, PCB, Pb, ONLY
8/19	1355	02NE88SB018	S	2	X			X					
8/19	1705	02NE88SB019	S	2	X			X					
8/19	1715	02NE88SB020	S	2	X			X					
8/20	1250	02NE88SB023	S	2	X			X					
8/20	1305	02NE88SB024	S	2	X			X					
8/20	1415	02NE88SB025	S	2	X			X					
8/20	~~1555~~ 1435	02NE88SB026	S	2	X			X					
8/20	~~1520~~ 1505	02NE88SB027	S	2	X			X					
8/20	1530	02NE88SB028	S	2	X			X					
8/20	1730	02NE88SB029	S	2	X			X					

Relinquished by: [signature] Date 8-21-02 Time 0800

Shipped Via Alaska Airlines Goldstreak Air Bill # 4974 2744

Received for Laboratory by: Date Time

Cooler Temperature Upon Arrival °C

Laboratory Notified Call or Faxed

2002 Northeast Cape
1850574.260120

FROM:
MWH 4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
ATTN: Johanna Dreher

TO:
Columbia Analytical Services
1317 South 13th Avenue
Kelso, WA 98626
Phone: 360-577-7222
Fax: 360-636-1068
Attn: Mingta Lin

Sampler's Signature: William A. Ehrhardt

Date 2002	Time	SampleID	Matrix	Containers	SOIL: DRO/RRO AK102/103, PAH SIM SW8270C, PCB SW8082, Lead, Zinc, Chromium SW6020, TOC by lab SOP	SOIL: BTEX SW8260B	SOIL: GRO AK101	SOIL: Spare	WATER: Sulfate EPA 300 Alkalinity EPA 300	WATER: BTEX SW8260B GRO AK101	WATER: Methane, Ethane, Ethene RSK 175	WATER: DRO/RRO AK102/103	
8-20	1735	02NE885B030	S	2	X			X					
8-20	1805	02NE885B031	S	2	X			X					
8-20	1905	02NE885B032	S	2	X			X					
~~8-18~~	~~2100~~	~~02NE~~ MD											

30 day Turn-Around-Time
COELT EDD
Hardcopy Deliverable BOA Option 2
Please FAX a copy of COC and Sample Check-in form to:
Gerald Archibald at (907)753-2636 Phone: (907)753-2691
Sandra Kimbrell at (907) 353-7070

Relinquished by: William A. Ehrhardt — Date 8-21-02 Time 0815

Received for Laboratory by: — Date — Time

Shipped Via Alaska Airlines Goldstreak Air Bill # 4974 2744

Cooler Temperature Upon Arrival °C

Laboratory Notified Call or Faxed

2002 Northeast Cape

COC # 02NE_10

page 1 of 2

2002 Northeast Cape
1850574.260120

FROM:
MWH 4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
ATTN: Johanna Dreher

TO:
Columbia Analytical Services
1317 South 13th Avenue
Kelso, WA 98626
Phone: 360-577-7222
Fax: 360-636-1068
Attn: Mingta Lin

30 day Turn-Around-Time
COELT EDD
Hardcopy Deliverable BOA Option 2
Please FAX a copy of COC and Sample Check-in form to:
Gerald Archibald at (907)753-2636 Phone: (907)753-2691
Sandra Kimbrell at (907) 353-7070

Sampler's Signature: William A Tunnell

Date 2002	Time	Sample ID	Matrix	Total Containers	SOIL: DRO/RRO AK102/103, PAH SIM SW8270C, PCB SW8082, Lead, Zinc, Chromium SW6020, TOC by lab SOP (1 Clear glass unpreserved, 8oz jar)	SOIL: BTEX SW8260B (1 Clear glass W/MeOH, 4oz jar)	SOIL: GRO AK101 (1 Amber glass w/ surrogate MeOH, 4oz jar)	SOIL: Spare (1 Clear glass, unpreserved, 4oz jar)	WATER: Sulfate EPA 300, Alkalinity EPA 300 (Plastic unpreserved, 1 L bottle)	WATER: BTEX SW8260B, GRO AK101 (3 x 40 ml w/ HCL, VOA Vials)	WATER: Methane, Ethane, Ethene RSK 175 (2 x 40 ml w/ HCL, VOA Vials)	WATER: DRO/RRO AK102/103 (2 x 500 ml Amber glass w/ HCL, bottles)	Comments
8/18	1700	02NE88SB015	S	2		X	X						
8/18	1720	02NE88SB016	S	6 40		X	X						MS/MSD GRO/BTEX
8/19	1310	02NE88SB017	S	2		X	X						
8/19	1355	02NE88SB018	S	2		X	X						
8/19	1705	02NE88SB019	S	2		X	X						
8/19	1715	02NE88SB020	S	2		X	X						
8/20	1250	02NE88SB023	S	2		X	X						
8/20	1305	02NE88SB024	S	2		X	X						
8/20	1415	02NE88SB025	S	2		X	X						50ml of MeOH used
8/20	1435	02NE88SB026	S	2		X	X						
8/20	1505	02NE88SB027	S	2		X	X						
8/20	1530	02NE88SB028	S	2		X	X						
8/20	1730	02NE88SB029	S	2		X	X						

Relinquished by: William A Tunnell	Date 8-21-02 Time 0808	Shipped Via Alaska Airlines Goldstreak Air Bill # 4974 2733
Received for Laboratory by:	Date Time	Cooler Temperature Upon Arrival °C
		Laboratory Notified Call or Faxed

2002 Northeast Cape

COC # 02NE10

pg 2 of 2

K2205832

2002 Northeast Cape 1850574.260120					SOIL				WATER					
FROM: MWH 4100 Spenard Road Anchorage AK 99517 (907)248-8883 Fax (907) 248-8884 ATTN: Johanna Dreher	TO: Columbia Analytical Services 1317 South 13th Avenue Kelso, WA 98626 Phone: 360-577-7222 Fax: 360-636-1068 Attn: Mingta Lin				DRO/RRO AK102/103, PAH SIM SW8270C, PCB SW8082, Lead, Zinc, Chromium SW6020, TOC by lab SOP	BTEX SW8260B ✓	GRO AK101 ✓	Spare	Sulfate EPA 300 Alkalinity EPA 300	BTEX SW8260B GRO AK101	Methane, Ethane, Ethene RSK 175	DRO/RRO AK102/103	30 day Turn-Around-Time COELT EDD Hardcopy Deliverable BOA Option 2 Please FAX a copy of COC and Sample Check-in form to: Gerald Archibald at (907)753-2636 Phone: (907)753-2691 Sandra Kimbrell at (907) 353-7070
Sampler's Signature: William A Emmel					[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
Date 2002	Time	Sample ID	Matrix	Total containers	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
14 8-20	1735	02NE88SB030	S	2		✓X	✓X						
15 8-20	1850	02NE88SB031	S	2		✓X	✓X	mtt					
16 8-20	1905	02NE88SB032	S	2		✓X	✓X	8/23/02					
17 8-18	2100	02NE33TB005	S	2		✓X	✓X	checked all analyses.					

Relinquished by: William A Emmel	Date 8/21/02 Time 0800	Shipped Via Alaska Airlines Goldstreak Air Bill # 4974 2733
Received for Laboratory by: [signature]	Date 8/22/02 Time 1530	Cooler Temperature Upon Arrival °C — Laboratory Notified Call or Faxed

2002 Northeast Cape

COC # 02NE10
page 2 of 2

2002 Northeast Cape
1850574.260120

FROM:	TO:
MWH 4100 Spenard Road Anchorage AK 99517 (907)248-8883 Fax (907) 248-8884 ATTN: Johanna Dreher	Columbia Analytical Services 1317 South 13th Avenue Kelso, WA 98626 Phone: 360-577-7222 Fax: 360-636-1068 Attn: Mingta Lin

30 day Turn-Around-Time
COELT EDD
Hardcopy Deliverable BOA Option 2
Please FAX a copy of COC and Sample Check-in form to:
Gerald Archibald at (907)753-2636 Phone: (907)753-2691
Sandra Kimbrell at (907) 353-7070

Sampler's Signature: William A Emmel

					SOIL				WATER				
					DRO/RRO AK102/103, PAH SIM SW8270C, PCB SW8082, Lead, Zinc, Chromium SW6020, TOC by lab SOP	BTEX SW8260B	GRO AK101	Spare	Sulfate EPA 300 Alkalinity EPA 300	BTEX SW8260B GRO AK101	Methane, Ethane, Ethene RSK 175	DRO/RRO AK102/103	
					1 Clear glass unpreserved	1 Clear glass W/MeOH	1 Amber glass w/surrogate MeOH	1 Clear glass unpreserved	Plastic unpreserved	3 X 40 mL w/ HCL	2 X 40 mL w/ HCL	2 X 500 mL Amber glass w/ HCL	Comments
Date 2002	Time	Sample ID	Matrix	Total Containers	8oz jar	4oz jar	4oz jar	4oz jar	1 L bottle	VOA Vials	VOA Vials	bottles	
8-20	1735	02NE88SB030	S	2									
8-20	1850	02NE88SB031	S	2									
8-20	1905	02NE88SB032	S	2									
8-18	2100	02NE88TB005	S	2									

Relinquished by: William A Emmel	Date [illegible] Time [illegible]	Shipped Via Alaska Airlines Goldstreak Air Bill # 4974 2733		
Received for Laboratory by:	Date Time	Cooler Temperature Upon Arrival	°C	Laboratory Notified Call or Faxed

COC # 02NE-11

FROM:
MWH 4100 Spenard Road
Anchorage AK 99517
(907)248-8883
Fax (907) 248-8884
ATTN: Johanna Dreher
MwH job # 1850574.260120

TO:
~~Severn Trent Laboratories 5755~~
~~8th Street East~~
~~Tacoma, WA 998424~~
~~Phone: (253)922-2310~~
~~Fax: (253)9225047~~
~~Attn: Dawn Werner~~

Columbia Analytical Services
1317 South 13TH AVE
Kelso, WA 98626
360-577-7222

30 day Turn-Around-Time
COELT EDD
Hardcopy Deliverable BOA Option 2

Sampler's Signature: Douglas Quist

Date 2002	Time	Sample ID	Matrix	Total Containers	DRO/RRO AK102/103, PAH SIM SW8270C, PCB SW8082, Lead, Zinc, Chromium SW6020, TOC by lab SOP (1 Clear glass unpreserved; 1L 60z jar)	BTEX SW8260B (1 Clear glass w/MeOH; 4oz jar)	GRO AK101 (1 Amber glass w/MeOH; 4oz jar)	Spare (1 Clear glass unpreserved; 40oz jar)	Sulfate EPA 300, Alkalinity EPA 300 (Plastic unpreserved; 1L bottle)	BTEX SW8260B, GRO AK101 (3 x 40 ml w/ HCl; VOA Vials)	Methane, Ethane, Ethene RSK 175 (2 x 40 ml w/ HCl; VOA Vials)	DRO/RRO AK102/103 (2 x 500 ml Amber glass w/ HCl; bottles)	Comments
8/21	1500	02NE88GW009	W	8					X	X	X	X	
8/21	1400	02NE88GW010	W	8					X	X	X	X	
8/19	2100	02NE88EB004	W	5						X		X	
8/20	2100	02NE88EB005	W	5						X		X	
8/19	2100	02NE88TB006	W	3						X			

Relinquished by: Douglas Quist	Date 8/22/02 Time 0800	Shipped Via Alaska Airlines Goldstreak Air Bill # 4218 4660	
Received for Laboratory by:	Date Time	Cooler Temperature Upon Arrival °C	Laboratory Notified Call or Faxed

2002 Northeast Cape

COC # 02NE ~~13~~ 12

2002 Northeast Cape 1850574.260120					SOIL				WATER					
FROM: MWH 4100 Spenard Road, Anchorage AK 99517, (907)248-8883, Fax (907) 248-8884, ATTN: Johanna Dreher	TO: Columbia Analytical Services, 1317 South 13th Avenue, Kelso, WA 98626, Phone: 360-577-7222, Fax: 360-636-1068, Attn: Mingta Lin				DRO/RRO AK102/103, PAH SIM SW8270C, PCB SW8082, Lead, Zinc, Chromium SW6020, TOC by lab SOP	BTEX SW8260B	GRO AK101	Spare	Sulfate EPA 300, Alkalinity EPA 300	BTEX SW8260B, GRO AK101	Methane, Ethane, Ethene RSK 175	DRO/RRO AK102/103	30 day Turn-Around-Time; COELT EDD; Hardcopy Deliverable BOA Option 2; Please FAX a copy of COC and Sample Check-in form to: Gerald Archibald at (907)753-2636 Phone: (907)753-2691; Sandra Kimbrell at (907) 353-7070	
Sampler's Signature: [signature]														
8/21	1500	02NE88SB033	S	~~4~~2	X	X	X	X						
8/21	1510	02NE88SB034	S	~~4~~2	X	X	X	X						
8/21	1515	02NE88SB234	S	~~4~~2	X	X	X	X						
8/21	1555	02NE88SB035	S	~~4~~2	X	X	X	X						
8/21	1605	02NE88SB036	S	~~4~~2	X	X	X	X						
8/21	1607	02NE88SB236	S	~~4~~2	X	X	X	X						
8/22	1400	02NE88SB037	S	~~4~~2	X	X	X	X						
8/22	1405	02NE88SB237	S	~~4~~2	X	X	X	X						
8/22	1410	02NE88SB038	S	~~4~~2	X	X	X	X						
8/22	1935	02NE88SB039	S	~~4~~2	X	X	X	X						
8/22	1940	02NE88SB239	S	~~4~~2	X	X	X	X						
8/22	1950	02NE88SB040	S	~~4~~2	X	X	X	X						
8/21	2100	02NE88TB007	S	2		X	X							

Relinquished by: [signature]	Date 8/25/02; Time 2315	Shipped Via Alaska Airlines Goldstreak Air Bill # 4974 2696
Received for Laboratory By:	Date; Time	Cooler Temperature Upon Arrival °C	Laboratory Notified: Call or Faxed

COC # 02NE_13

2002 Northeast Cape 1850574.260128					SOIL				WATER				
FROM: MWH 4100 Spenard Road Anchorage AK 99517 (907)248-8883 Fax (907) 248-8884 ATTN: Johanna Dreher	TO: Columbia Analytical Services 1317 South 13th Avenue Kelso, WA 98626 Phone: 360-577-7222 Fax: 360-636-1068 Attn: Mingra Lin				DRO/RRO AK102/183, PAH SIM SW8270C, PCB SW8082, Lead, Zinc, Chromium SW6020, TOC by lab SOP	BTEX SW82608	GRO AK101	Spare	Sulfate EPA 300 Alkalinity EPA 300	BTEX SW82608 GRO AK101	Methane, Ethane, Ethene RSK 175	DRO/RRO AK102/103	30 day Turn-Around-Time COELT EDD Hardcopy Deliverable BOA Option 2 Please FAX a copy of COC and Sample Check-in forms to: Gerald Archibald at (907)753-2636 Phone: (907)753-2691 Sandra Kimbrell at (907) 353-7070
Sampler's Signature Douglas Dent				# of Containers									
8/21	1500	02NE88SB033	S	4 2	X	X	X	X					
8/21	1510	02NE88SB034	S	4 2	X	X	X	X					
8/21	1515	02NE88SB234	S	4 2	X	X	X	X					
8/21	1555	02NE88SB035	S	4 2	X	X	X	X					
8/21	1605	02NE88SB036	S	4 2	X	X	X	X					
8/21	1607	02NE88SB236	S	4 2	X	X	X	X					
8/22	1400	02NE88SB037	S	4 2	X	X	X	X					
8/22	1405	02NE88SB237	S	4 2	X	X	X	X					
8/22	1410	02NE88SB038	S	4 2	X	X	X	X					
8/22	1935	02NE88SB039	S	4 2	X	X	X	X					
8/22	1940	02NE88SB239	S	4 2	X	X	X	X					
8/20	1950	02NE88SB040	S	4 2	X	X	X	X					
8/21	0100	02NE88TB007	S	2		X	X						
Relinquished by: Douglas Dent		Date 8/25/02 Time 1315	Shipped Via Alaska Airlines Goldstreak Air Bill # 4974 2700										
Received for Laboratory by:		Date Time	Cooler Temperature Upon Arrival								°C		Laboratory Notified Call or Faxed

2002 N[redacted]ast Cape Phase III RI

COC # NE-14

Revision 1

USAED, ALASKA DISTRICT
NORTHEAST CAPE MOD 7
NPDL WO# 02-080

FROM:	TO:
MWH 4100 Spenard Road Anchorage AK 99517 (907)248-8883 Fax (907) 248-8884 ATTN: Johanna Dreher MwH job # 1850574.260120	Severn Trent Laboratories 5755 8th Street East Tacoma, WA 998424 Phone: (253)922-2310 Fax: (253)9225047 Attn: Dawn Werner

30 day Turn-Around-Time
COELT EDD
Hardcopy Deliverable BOA Option 2

Sampler's Signature: Douglas Dust

Date 2002	Time	SampleID	Matrix	Containers	DRO/RRO AK102/103, PAH SIM SW8270C, PCB SW8082, Lead, Zinc, Chromium SW6020, TOC by lab SOP	BTEX SW8260B	GRO AK101	Spare	Sulfate EPA 300 Alkalinity EPA 300	BTEX SW8260B GRO AK101	Methane, Ethane, Ethene RSK 175	DRO/RRO AK102/103	
8/17	1110	02NE88SB 306	S	4	X	X	X	X					
8/21	1600	02NE88SB 335	S	12	X	X	X	X					MS/MSD
8/22	1415	02NE88SB 338	S	4	X	X	X	X					
8/22	1955	02NE88SB 340	S	4	X	X	X	X					
8/17	2100	02NE88TB 008	S	2	X	X	X						

Relinquished by: Douglas Dust — Date 8/23/02 — Time 2315

Received for Laboratory by: — Date — Time

Shipped Via Alaska Airlines Goldstreak Air Bill # 4218 4796

Cooler Temperature Upon Arrival °C

Laboratory Notified Call or Faxed

COC # 02NE-14

FROM:	TO:	DRO/RRO AK102/103, PAH SIM SW8270C, PCB SW8082, Lead, Zinc, Chromium SW6020, TOC by lab SOP	BTEX SW82608	GRO AK101	Spare	Sulfate EPA 300 Alkalinity EPA 300	BTEX SW82608 GRO AK101	Methane, Ethane, Ethene RSK 175	DRO/RRO AK102/103	30 day Turn-Around-Time COELT EDD Hardcopy Deliverable BOA Option 2
MWH 4100 Spenard Road Anchorage AK 99517 (907)248-8883 Fax (907) 248-8884 ATTN: Johanna Dreher MwH job # 1850574.260120	Severn Trent Laboratories 5755 8th Street East Tacoma, WA 998424 Phone: (253)922-2310 Fax: (253)9225047 Attn: Dawn Werner									
Sampler's Signature: Douglas Dunst										

8/17	1110	02NE88SB 306	S	4	X	X	X	X					
8/21	1600	02NE88SB 335	S	12	X	X	X	X					MS/MSD
8/22	1415	02NE88SB 338	S	4	X	X	X	X					
8/22	1955	02NE88SB 340	S	4	X	X	X	X					
8/17	2100	02NE88TB 508	S	2	X	X	X						

Relinquished by: Douglas Dunst	Date 8/25/02 Time 2315	Shipped Via Alaska Airlines Goldstreak Air Bill # 4218 4796		
Received for Laboratory by:	Date Time	Cooler Temperature Upon Arrival	°C	Laboratory Notified Call or Faxed

COC # 02NE-15

FROM:	TO:	Sieve Analysis ASTM D-422 Specific Gravity ASTM D-854 Moisture Content ASTM D-2216 1 x 2 gal. ziplock	Dry Bulk Density ASTM D-2937 Hydraulic Conductivity ASTM D-4511 Soil Porosity - Calculated 1 x Brass Sleeve			24 Hour Turn-Around-Time COELT EDD Hardcopy Deliverable BOA Option 2
MWH 4100 Spenard Road Anchorage AK 99517 (907)248-8883 Fax (907) 248-8884 ATTN: Johanna Dreher MWH job # 1850574 260120	R&M Consultants 9101 Vanguard Drive Anchorage, AK 99507 fax: 360-577-7222 phone: 907-522-3403 Attn: Dave Johnson					
Sampler's Signature: Douglas Durel		Cool to 4 degrees C				Comments

Date 2002	Time	Sample ID	Matrix	Total Containers					
8/18	1140	02NE88SB041	S	2	✓	✓			88-6 4-6'
8/19	1315	02NE88SB042	S	2	✓	✓			88-9 10-12'
8/20	1900	02NE88SB043	S	2	✓	✓			88-16 7-9'
8/21	1605	02NE88SB044	S	2	✓	✓			88-18 9-11'

Relinquished by: Douglas Durel	Date 8/20/02 Time 1100	Shipped Via ~~Alaska Airlines Goldstreak Air Bill #~~ Hand Delivered		
Received for Laboratory by:	Date Time	Cooler Temperature Upon Arrival	°C	Laboratory Notified Call or Faxed

ATTACHMENT 2

2002 Analytical Data

Figure 2-2 (Updated)
SOILS RESULTS

Sample ID	Soil Sample Location	Sample (feet bgs)	GRO (mg/Kg)	DRO (mg/Kg)	RRO (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	o-Xylene (mg/Kg)	m & p- Xylene (mg/Kg)	Naphthalene (mg/Kg)	Chromium (mg/Kg)
02NE88SB001	MW 88-1	15.5-17.5	19	**5000**	39 VJ	ND (0.012)	ND (0.027)	ND (0.027)	ND (0.027)	0.0022 VJ	6.5
02NE88SB002	MW 88-1	17.5-20	4.9	**1400**	16 VJ	ND (0.011)	ND (0.025)	ND (0.025)	ND (0.025)	0.00038 VJ	4.38
02NE88SB003	MW 88-2	8-10	ND (3)	ND (12)	6 VJ	ND (0.014)	ND (0.035)	ND (0.035)	ND (0.035)	0.001 VJ	16.1
02NE88SB004	MW 88-2	10-12	ND (3.6)	ND (11)	7.1 VJ	ND (0.015)	ND (0.037)	ND (0.037)	ND (0.037)	0.00056 VJ	8
02NE88SB005	MW 88-3	4-6	ND (6)	7.6 VJ	120 VJ	ND (0.023)	ND (0.058)	ND (0.058)	ND (0.058)	0.00081 VJ	22.3
02NE88SB006	MW 88-3	16-18	51	**3700**	24 VJ	ND (0.021)	ND (0.051)	ND (0.051)	0.31 VJ	1.5	13.1
02NE88SB007	MW 88-4	9-11	44	**12000**	3700	**0.047**	0.083	0.89	1.6	5.9 VHB	17.3
02NE88SB008	MW 88-4	11-13	54 VHB	**2600**	16 VJ	ND (0.018)	ND (0.044)	0.01 VJ	0.29	2.3	3.73
02NE88SB009	MW 88-5	1-3	ND (2.8)	**380**	3400	ND (0.012)	ND (0.025)	ND (0.025)	ND (0.025)	0.0041 VJ	**42.3**
02NE88SB010	MW 88-5	11-13	ND (4)	21	25 VJ	ND (0.014)	ND (0.034)	ND (0.034)	ND (0.034)	0.0037 VJ	4.5
02NE88SB011	MW 88-6	7-9	130 VHB	**3100**	23 VJ	ND (0.012)	ND (0.026)	0.044	0.44	4.1	12.8
02NE88SB012	MW 88-6	11-13	83 VHB	**1200**	30 VJ	ND (0.012)	ND (0.028)	0.013 VJ	0.15	1.1	8.3
02NE88SB013	MW 88-7	7-9	140 VHB	**12000**	55 VJ	ND (0.012)	ND (0.027)	0.13	1.5	7.9	17
02NE88SB014	MW 88-7	11-13	130 VHB	**9200**	54 VJ	ND (0.011)	ND (0.026)	0.38	2.2	8.4	11.6
02NE88SB015	MW 88-8	10-12	68 VHB	**5200**	11 VJ	ND (0.018)	ND (0.044)	ND (0.044)	0.17	3.3	9.63
02NE88SB016	MW 88-8	14-16	73 VHB	**2300**	7.4 VJ	ND (0.018)	ND (0.045)	ND (0.045)	0.18	2.3	8.34
02NE88SB017	MW 88-9	8-10	ND (3.5)	7 VJ	8.7 VJ	ND (0.015)	ND (0.036)	ND (0.036)	ND (0.036)	0.00045 VJ	7.04
02NE88SB018	MW 88-9	20-22	ND (4.8)	7.6 VJ	12 VJ	ND (0.016)	ND (0.038)	ND (0.038)	ND (0.038)	0.0019 VJ	12.5
02NE88SB019	MW 88-10	22-24	31	**1400**	ND (110)	ND (0.015)	ND (0.038)	ND (0.038)	ND (0.038)	0.48	10
02NE88SB020	MW 88-10	24-26	19	**750**	ND (110)	ND (0.015)	ND (0.038)	ND (0.038)	ND (0.038)	0.11	4.8
02NE88SB021	SB 88-11	3-5	70	**13000**	5100	**0.12**	3.2	2.7	5.1	12	16.5
02NE88SB022	SB 88-11	7-9	99	**51000**	6000	**0.19**	4.5	6.2	12	**81**	23.7
02NE88SB023	SB 88-12	4-6	ND (5.2)	190	1500	ND (0.022)	ND (0.054)	ND (0.054)	ND (0.054)	0.0045 VJ	12.4
02NE88SB024	SB 88-12	10-12	ND (3.8)	20	33 VJ	ND (0.017)	ND (0.043)	ND (0.043)	ND (0.043)	0.0011 VJ	9.62
02NE88SB025	SB 88-13	6-8	11 VJ	**430**	4600	**0.37**	ND (0.18)	0.071 VJ	0.19	0.042	16.5
02NE88SB026	SB 88-13	14-16	ND (6.1)	77	420	ND (0.022)	ND (0.054)	ND (0.054)	ND (0.054)	0.0018 VJ	14.3
02NE88SB027	SB 88-14	2-4	220 VHB	**47000**	3000	0.019	0.036 VJ	1.7	0.71	**79**	22.7
02NE88SB028	SB 88-14	12-14	62	210	900	**0.024**	1.4	1.7	1.3	0.41	22.8
02NE88SB029	SB 88-15	10-12	ND (4.9)	33	150	ND (0.018)	ND (0.044)	0.01 VJ	ND (0.044)	0.016	23
02NE88SB030	SB 88-15	12-14	ND (4.4)	79	590	ND (0.021)	ND (0.052)	ND (0.052)	ND (0.052)	0.0047 VJ	23.4
02NE88SB031	SB 88-16	6-8	110 VHB	**16000**	33 VJ	ND (0.015)	0.032 VJ	0.015 VJ	1.8	28	15.6
02NE88SB032	SB 88-16	10-12	60 VHB	**4200**	12 VJ	ND (0.017)	ND (0.041)	ND (0.041)	0.043	0.9 VLB	6.7
02NE88SB033	SB 88-17	8-10	130 VHB	**4700**	450	ND (0.013)	0.05 VHB	1.5 VHB	4 VHB	12	18.2
02NE88SB034	SB 88-17	12-14	140 VHB	**4300**	110 VJ	ND (0.012)	ND (0.023)	0.34 VHB	3 VHB	3.6	8.31
02NE88SB035	SB 88-18	8-10	100 VHB	**7300**	24 VJ	0.018 VHB	0.018 VJ	0.019 VJ	0.95 VHB	10	14
02NE88SB036	SB 88-18	10-12	170 VHB	**4000 VJ**	226	**0.062 VJ**	0.041	1.3 VJ	4.4 VJ	6.9 VJ	16.7 VJ

Notes:
Values shown in **BOLD** exceed ADEC Method 2, under 40 inch zone, migration to groundwater pathway.
Ethylbenzene results did not exceed ADEC Method 2
PCB results did not exceed ADEC Method 2

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
Analytical Results- Main Operations Complex Groundwater Sampling 2002											
02NE88GW001	8/17/2002	CS	W	AK101	Gasoline Range Organics (C6-C10)	.024	MG/L	.05	.02	1	VJ
02NE88GW001	8/17/2002	CS	W	AK102	Diesel Range Organics (C10-C25)	1.2	MG/L	.1	.042	1	
02NE88GW001	8/17/2002	CS	W	AK103	Residual Range Organics	.43	MG/L	.2	.073	1	
02NE88GW001	8/17/2002	CS	W	E300.0	Sulfate	17	MG/L	2	0.2	10	
02NE88GW001	8/17/2002	CS	W	E310.1	Alkalinity, Total	50	MG/L	2	1	1	
02NE88GW001	8/17/2002	CS	W	RSK175	Ethane	.0017	MG/L	.0005	.0005	1	
02NE88GW001	8/17/2002	CS	W	RSK175	Ethene	ND	MG/L	.0015	.0013	1	
02NE88GW001	8/17/2002	CS	W	RSK175	Methane	.0039	MG/L	.0005	.0003	1	
02NE88GW001	8/17/2002	CS	W	SW8260B	Benzene	.00058	MG/L	.0005	.00011	1	
02NE88GW001	8/17/2002	CS	W	SW8260B	Ethylbenzene	ND	MG/L	.0005	.00013	1	
02NE88GW001	8/17/2002	CS	W	SW8260B	o-Xylene	.00013	MG/L	.0005	.000079	1	VJ
02NE88GW001	8/17/2002	CS	W	SW8260B	Toluene	.00061	MG/L	.0005	.000098	1	VB
02NE88GW001	8/17/2002	CS	W	SW8260B	Xylene, Isomers m & p	.00022	MG/L	.0005	.00022	1	VJ
02NE88GW002	8/17/2002	CS	W	AK101	Gasoline Range Organics (C6-C10)	ND	MG/L	.05	.02	1	
02NE88GW002	8/17/2002	CS	W	AK102	Diesel Range Organics (C10-C25)	.71	MG/L	.1	.042	1	
02NE88GW002	8/17/2002	CS	W	AK103	Residual Range Organics	1.3	MG/L	.2	.073	1	
02NE88GW002	8/17/2002	CS	W	E300.0	Sulfate	13	MG/L	2	0.2	10	
02NE88GW002	8/17/2002	CS	W	E310.1	Alkalinity, Total	40	MG/L	2	1	1	
02NE88GW002	8/17/2002	CS	W	RSK175	Ethane	ND	MG/L	.0005	.0005	1	
02NE88GW002	8/17/2002	CS	W	RSK175	Ethene	ND	MG/L	.0015	.0013	1	
02NE88GW002	8/17/2002	CS	W	RSK175	Methane	.01	MG/L	.0005	.0003	1	
02NE88GW002	8/17/2002	CS	W	SW8260B	Benzene	.00092	MG/L	.0005	.00011	1	
02NE88GW002	8/17/2002	CS	W	SW8260B	Ethylbenzene	.00034	MG/L	.0005	.00013	1	VJ
02NE88GW002	8/17/2002	CS	W	SW8260B	o-Xylene	.0001	MG/L	.0005	.000079	1	VJ
02NE88GW002	8/17/2002	CS	W	SW8260B	Toluene	.00036	MG/L	.0005	.000098	1	VB
02NE88GW002	8/17/2002	CS	W	SW8260B	Xylene, Isomers m & p	.00035	MG/L	.0005	.00022	1	VJ
02NE88GW003	8/19/2002	CS	W	AK101	Gasoline Range Organics (C6-C10)	.42	MG/L	.05	.02	1	
02NE88GW003	8/19/2002	CS	W	AK102	Diesel Range Organics (C10-C25)	34	MG/L	1.1	.43	10	
02NE88GW003	8/19/2002	CS	W	AK103	Residual Range Organics	.22	MG/L	.21	.074	1	
02NE88GW003	8/19/2002	CS	W	E300.0	Sulfate	12	MG/L	1	0.1	5	
02NE88GW003	8/19/2002	CS	W	E310.1	Alkalinity, Total	47	MG/L	2	1	1	
02NE88GW003	8/19/2002	CS	W	RSK175	Ethane	ND	MG/L	.0005	.0005	1	
02NE88GW003	8/19/2002	CS	W	RSK175	Ethene	ND	MG/L	.0015	.0013	1	
02NE88GW003	8/19/2002	CS	W	RSK175	Methane	.0055	MG/L	.0005	.0003	1	
02NE88GW003	8/19/2002	CS	W	SW8260B	Benzene	.00057	MG/L	.0005	.00011	1	
02NE88GW003	8/19/2002	CS	W	SW8260B	Ethylbenzene	.025	MG/L	.0005	.00013	1	
02NE88GW003	8/19/2002	CS	W	SW8260B	o-Xylene	.00008	MG/L	.0005	.000079	1	VJ
02NE88GW003	8/19/2002	CS	W	SW8260B	Toluene	.00024	MG/L	.0005	.000098	1	VB
02NE88GW003	8/19/2002	CS	W	SW8260B	Xylene, Isomers m & p	.022	MG/L	.0005	.00022	1	
02NE88GW004	8/19/2002	CS	W	AK101	Gasoline Range Organics (C6-C10)	1.2	MG/L	.05	.02	1	
02NE88GW004	8/19/2002	CS	W	AK102	Diesel Range Organics (C10-C25)	72	MG/L	1.1	.43	10	
02NE88GW004	8/19/2002	CS	W	AK103	Residual Range Organics	1.9	MG/L	.21	.074	1	
02NE88GW004	8/19/2002	CS	W	E300.0	Sulfate	1.4	MG/L	0.2	0.02	1	
02NE88GW004	8/19/2002	CS	W	E310.1	Alkalinity, Total	258	MG/L	2	1	1	
02NE88GW004	8/19/2002	CS	W	RSK175	Ethane	ND	MG/L	.0005	.0005	1	
02NE88GW004	8/19/2002	CS	W	RSK175	Ethene	ND	MG/L	.0015	.0013	1	
02NE88GW004	8/19/2002	CS	W	RSK175	Methane	1.7	MG/L	.0005	.0003	1	
02NE88GW004	8/19/2002	CS	W	SW8260B	Benzene	.03	MG/L	.0005	.00011	1	
02NE88GW004	8/19/2002	CS	W	SW8260B	Ethylbenzene	.12	MG/L	.005	.0013	10	
02NE88GW004	8/19/2002	CS	W	SW8260B	o-Xylene	.007	MG/L	.0005	.000079	1	
02NE88GW004	8/19/2002	CS	W	SW8260B	Toluene	.0032	MG/L	.0005	.000098	1	

Northeast Cape Phase III Remedial Investigation
2002 Analytical Results

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88GW004	8/19/2002	CS	W	SW8260B	Xylene, Isomers m & p	.085	MG/L	.0005	.00022	1	
02NE88GW005	8/19/2002	CS	W	AK101	Gasoline Range Organics (C6-C10)	1.3	MG/L	.05	.02	1	
02NE88GW005	8/19/2002	CS	W	AK102	Diesel Range Organics (C10-C25)	9.8	MG/L	.11	.043	1	
02NE88GW005	8/19/2002	CS	W	AK103	Residual Range Organics	2.3	MG/L	.21	.074	1	
02NE88GW005	8/19/2002	CS	W	E300.0	Sulfate	7.8	MG/L	0.2	0.02	1	
02NE88GW005	8/19/2002	CS	W	E310.1	Alkalinity, Total	145	MG/L	2	1	1	
02NE88GW005	8/19/2002	CS	W	RSK175	Ethane	ND	MG/L	.0005	.0005	1	
02NE88GW005	8/19/2002	CS	W	RSK175	Ethene	ND	MG/L	.0015	.0013	1	
02NE88GW005	8/19/2002	CS	W	RSK175	Methane	.62	MG/L	.0005	.0003	1	
02NE88GW005	8/19/2002	CS	W	SW8260B	Benzene	.019	MG/L	.0005	.00011	1	
02NE88GW005	8/19/2002	CS	W	SW8260B	Ethylbenzene	.035	MG/L	.0005	.00013	1	
02NE88GW005	8/19/2002	CS	W	SW8260B	o-Xylene	.071	MG/L	.0005	.000079	1	
02NE88GW005	8/19/2002	CS	W	SW8260B	Toluene	.12	MG/L	.005	.00098	10	
02NE88GW005	8/19/2002	CS	W	SW8260B	Xylene, Isomers m & p	.14	MG/L	.0005	.00022	1	
02NE88GW006	8/20/2002	CS	W	AK101	Gasoline Range Organics (C6-C10)	1.1	MG/L	.05	.02	1	
02NE88GW006	8/20/2002	CS	W	AK102	Diesel Range Organics (C10-C25)	69	MG/L	1.1	.43	10	
02NE88GW006	8/20/2002	CS	W	AK103	Residual Range Organics	2.1	MG/L	.21	.074	1	
02NE88GW006	8/20/2002	CS	W	E300.0	Sulfate	11.7	MG/L	0.4	0.04	2	
02NE88GW006	8/20/2002	CS	W	E310.1	Alkalinity, Total	153	MG/L	2	1	1	
02NE88GW006	8/20/2002	CS	W	RSK175	Ethane	ND	MG/L	.0005	.0005	1	
02NE88GW006	8/20/2002	CS	W	RSK175	Ethene	ND	MG/L	.0015	.0013	1	
02NE88GW006	8/20/2002	CS	W	RSK175	Methane	2.9	MG/L	.0005	.0003	1	
02NE88GW006	8/20/2002	CS	W	SW8260B	Benzene	.00074	MG/L	.0005	.00011	1	
02NE88GW006	8/20/2002	CS	W	SW8260B	Ethylbenzene	.052	MG/L	.0005	.00013	1	
02NE88GW006	8/20/2002	CS	W	SW8260B	o-Xylene	.0038	MG/L	.0005	.000079	1	
02NE88GW006	8/20/2002	CS	W	SW8260B	Toluene	.00019	MG/L	.0005	.000098	1	VB
02NE88GW006	8/20/2002	CS	W	SW8260B	Xylene, Isomers m & p	.055	MG/L	.0005	.00022	1	
02NE88GW007	8/20/2002	CS	W	AK101	Gasoline Range Organics (C6-C10)	1.5	MG/L	.05	.02	1	
02NE88GW007	8/20/2002	CS	W	AK102	Diesel Range Organics (C10-C25)	6.1	MG/L	.11	.043	1	VLB
02NE88GW007	8/20/2002	CS	W	AK103	Residual Range Organics	.32	MG/L	.21	.074	1	
02NE88GW007	8/20/2002	CS	W	E300.0	Sulfate	0.8	MG/L	0.2	0.02	1	
02NE88GW007	8/20/2002	CS	W	E310.1	Alkalinity, Total	179	MG/L	2	1	1	
02NE88GW007	8/20/2002	CS	W	RSK175	Ethane	ND	MG/L	.0005	.0005	1	
02NE88GW007	8/20/2002	CS	W	RSK175	Ethene	ND	MG/L	.0015	.0013	1	
02NE88GW007	8/20/2002	CS	W	RSK175	Methane	1.2	MG/L	.0005	.0003	1	VLB
02NE88GW007	8/20/2002	CS	W	SW8260B	Benzene	.014	MG/L	.0005	.00011	1	
02NE88GW007	8/20/2002	CS	W	SW8260B	Ethylbenzene	.072	MG/L	.0005	.00013	1	
02NE88GW007	8/20/2002	CS	W	SW8260B	o-Xylene	.024	MG/L	.0005	.000079	1	
02NE88GW007	8/20/2002	CS	W	SW8260B	Toluene	.0012	MG/L	.0005	.000098	1	VB
02NE88GW007	8/20/2002	CS	W	SW8260B	Xylene, Isomers m & p	.13	MG/L	.0005	.00022	1	
02NE88GW008	8/20/2002	CS	W	AK101	Gasoline Range Organics (C6-C10)	.52	MG/L	.05	.02	1	
02NE88GW008	8/20/2002	CS	W	AK102	Diesel Range Organics (C10-C25)	20	MG/L	.1	.042	1	
02NE88GW008	8/20/2002	CS	W	AK103	Residual Range Organics	.18	MG/L	.2	.073	1	VJ
02NE88GW008	8/20/2002	CS	W	E300.0	Sulfate	2.6	MG/L	0.2	0.02	1	
02NE88GW008	8/20/2002	CS	W	E310.1	Alkalinity, Total	162	MG/L	2	1	1	
02NE88GW008	8/20/2002	CS	W	RSK175	Ethane	ND	MG/L	.0005	.0005	1	
02NE88GW008	8/20/2002	CS	W	RSK175	Ethene	ND	MG/L	.0015	.0013	1	
02NE88GW008	8/20/2002	CS	W	RSK175	Methane	.88	MG/L	.0005	.0003	1	
02NE88GW008	8/20/2002	CS	W	SW8260B	Benzene	.00012	MG/L	.0005	.00011	1	VJ
02NE88GW008	8/20/2002	CS	W	SW8260B	Ethylbenzene	.018	MG/L	.0005	.00013	1	
02NE88GW008	8/20/2002	CS	W	SW8260B	o-Xylene	.00064	MG/L	.0005	.000079	1	
02NE88GW008	8/20/2002	CS	W	SW8260B	Toluene	.00011	MG/L	.0005	.000098	1	VB

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88GW008	8/20/2002	CS	W	SW8260B	Xylene, Isomers m & p	.016	MG/L	.0005	.00022	1	
02NE88GW009	8/21/2002	CS	W	AK101	Gasoline Range Organics (C6-C10)	.064	MG/L	.05	.02	1	
02NE88GW009	8/21/2002	CS	W	AK102	Diesel Range Organics (C10-C25)	.71	MG/L	.1	.042	1	
02NE88GW009	8/21/2002	CS	W	AK103	Residual Range Organics	ND	MG/L	.2	.073	1	
02NE88GW009	8/21/2002	CS	W	E300.0	Sulfate	5	MG/L	1	0.1	5	
02NE88GW009	8/21/2002	CS	W	E310.1	Alkalinity, Total	26	MG/L	2	1	1	
02NE88GW009	8/21/2002	CS	W	RSK175	Ethane	ND	MG/L	.0005	.0005	1	
02NE88GW009	8/21/2002	CS	W	RSK175	Ethene	ND	MG/L	.0015	.0013	1	
02NE88GW009	8/21/2002	CS	W	RSK175	Methane	.13	MG/L	.0005	.0003	1	
02NE88GW009	8/21/2002	CS	W	SW8260B	Benzene	ND	MG/L	.0005	.00011	1	
02NE88GW009	8/21/2002	CS	W	SW8260B	Ethylbenzene	ND	MG/L	.0005	.00013	1	
02NE88GW009	8/21/2002	CS	W	SW8260B	o-Xylene	ND	MG/L	.0005	.000079	1	
02NE88GW009	8/21/2002	CS	W	SW8260B	Toluene	ND	MG/L	.0005	.000098	1	
02NE88GW009	8/21/2002	CS	W	SW8260B	Xylene, Isomers m & p	ND	MG/L	.0005	.00022	1	
02NE88GW010	8/21/2002	CS	W	AK101	Gasoline Range Organics (C6-C10)	.12	MG/L	.05	.02	1	
02NE88GW010	8/21/2002	CS	W	AK102	Diesel Range Organics (C10-C25)	55	MG/L	1.1	.43	10	
02NE88GW010	8/21/2002	CS	W	AK103	Residual Range Organics	1.3	MG/L	.21	.075	1	
02NE88GW010	8/21/2002	CS	W	E300.0	Sulfate	13	MG/L	1	0.1	5	
02NE88GW010	8/21/2002	CS	W	E310.1	Alkalinity, Total	197	MG/L	2	1	1	
02NE88GW010	8/21/2002	CS	W	RSK175	Ethane	.00064	MG/L	.0005	.0005	1	
02NE88GW010	8/21/2002	CS	W	RSK175	Ethene	.0024	MG/L	.0015	.0013	1	
02NE88GW010	8/21/2002	CS	W	RSK175	Methane	.031	MG/L	.0005	.0003	1	
02NE88GW010	8/21/2002	CS	W	SW8260B	Benzene	.0027	MG/L	.0005	.00011	1	
02NE88GW010	8/21/2002	CS	W	SW8260B	Ethylbenzene	.0017	MG/L	.0005	.00013	1	
02NE88GW010	8/21/2002	CS	W	SW8260B	o-Xylene	.00015	MG/L	.0005	.000079	1	VJ
02NE88GW010	8/21/2002	CS	W	SW8260B	Toluene	.0014	MG/L	.0005	.000098	1	
02NE88GW010	8/21/2002	CS	W	SW8260B	Xylene, Isomers m & p	.00079	MG/L	.0005	.00022	1	
02NE88GW204	8/19/2002	CS	W	AK101	Gasoline Range Organics (C6-C10)	1.2	MG/L	.05	.02	1	
02NE88GW204	8/19/2002	CS	W	AK102	Diesel Range Organics (C10-C25)	56	MG/L	1	.42	10	
02NE88GW204	8/19/2002	CS	W	AK103	Residual Range Organics	1.3	MG/L	.2	.073	1	
02NE88GW204	8/19/2002	CS	W	E300.0	Sulfate	0.9	MG/L	0.2	0.02	1	
02NE88GW204	8/19/2002	CS	W	E310.1	Alkalinity, Total	273	MG/L	2	1	1	
02NE88GW204	8/19/2002	CS	W	RSK175	Ethane	ND	MG/L	.0005	.0005	1	
02NE88GW204	8/19/2002	CS	W	RSK175	Ethene	ND	MG/L	.0015	.0013	1	
02NE88GW204	8/19/2002	CS	W	RSK175	Methane	1.8	MG/L	.0005	.0003	1	
02NE88GW204	8/19/2002	CS	W	SW8260B	Benzene	.03	MG/L	.0005	.00011	1	
02NE88GW204	8/19/2002	CS	W	SW8260B	Ethylbenzene	.12	MG/L	.005	.0013	10	
02NE88GW204	8/19/2002	CS	W	SW8260B	o-Xylene	.0075	MG/L	.0005	.000079	1	
02NE88GW204	8/19/2002	CS	W	SW8260B	Toluene	.0033	MG/L	.0005	.000098	1	
02NE88GW204	8/19/2002	CS	W	SW8260B	Xylene, Isomers m & p	.083	MG/L	.0005	.00022	1	
Analytical Results- Main Operation Complex Soil Sampling 2002											
02NE88SB001	8/14/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	19	MG/KG	2.7	2.2	1	
02NE88SB001	8/14/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	5000	MG/KG	110	48	10	
02NE88SB001	8/14/2002	CS	SO	AK103	Residual Range Organics	39	MG/KG	110	4.5	1	VJ
02NE88SB001	8/14/2002	CS	SO	D4129	Total Organic Carbon (TOC)	0.15	PERCENT	0.05	0.02	1	
02NE88SB001	8/14/2002	CS	SO	E160.3M	Total Solids	94.7	PERCENT			1	
02NE88SB001	8/14/2002	CS	SO	SIM	Acenaphthene	ND	MG/KG	.0053	.00023	1	
02NE88SB001	8/14/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0053	.00017	1	
02NE88SB001	8/14/2002	CS	SO	SIM	Anthracene	ND	MG/KG	.0053	.00021	1	
02NE88SB001	8/14/2002	CS	SO	SIM	Benzo(a)anthracene	.00051	MG/KG	.0053	.00014	1	VJ
02NE88SB001	8/14/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0053	.00015	1	
02NE88SB001	8/14/2002	CS	SO	SIM	Benzo(b)fluoranthene	.0007	MG/KG	.0053	.00015	1	VJ

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB001	8/14/2002	CS	SO	SIM	Benzo(g,h,i)perylene	.00026	MG/KG	.0053	.00011	1	VJ
02NE88SB001	8/14/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0053	.00016	1	
02NE88SB001	8/14/2002	CS	SO	SIM	Chrysene	.001	MG/KG	.0053	.00016	1	VJ
02NE88SB001	8/14/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0053	.0002	1	
02NE88SB001	8/14/2002	CS	SO	SIM	Fluoranthene	ND	MG/KG	.0053	.00018	1	
02NE88SB001	8/14/2002	CS	SO	SIM	Fluorene	ND	MG/KG	.0053	.00018	1	
02NE88SB001	8/14/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	.00024	MG/KG	.0053	.00016	1	VJ
02NE88SB001	8/14/2002	CS	SO	SIM	Naphthalene	.0022	MG/KG	.0053	.00023	1	VJ
02NE88SB001	8/14/2002	CS	SO	SIM	Phenanthrene	ND	MG/KG	.0053	.00016	1	
02NE88SB001	8/14/2002	CS	SO	SIM	Pyrene	.0043	MG/KG	.0053	.00012	1	VJ
02NE88SB001	8/14/2002	CS	SO	SW6020	Chromium	6.5	MG/KG	0.21	0.01	5	
02NE88SB001	8/14/2002	CS	SO	SW6020	Lead	50.5	MG/KG	0.05	0.03	5	
02NE88SB001	8/14/2002	CS	SO	SW6020	Zinc	57.6	MG/KG	0.53	0.06	5	
02NE88SB001	8/14/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.043	1	
02NE88SB001	8/14/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.22	0.0074	1	
02NE88SB001	8/14/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.017	1	
02NE88SB001	8/14/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0065	1	
02NE88SB001	8/14/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0045	1	
02NE88SB001	8/14/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.0087	1	
02NE88SB001	8/14/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.0049	1	
02NE88SB001	8/14/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.012	0.012	1	
02NE88SB001	8/14/2002	CS	SO	SW8260B	Ethylbenzene	ND	MG/KG	0.027	0.011	1	
02NE88SB001	8/14/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.027	0.0083	1	
02NE88SB001	8/14/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.027	0.011	1	
02NE88SB001	8/14/2002	CS	SO	SW8260B	Xylene, Isomers m & p	ND	MG/KG	0.027	0.02	1	
02NE88SB002	8/14/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	4.9	MG/KG	2.7	2.1	1	
02NE88SB002	8/14/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	1400	MG/KG	11	4.7	1	
02NE88SB002	8/14/2002	CS	SO	AK103	Residual Range Organics	16	MG/KG	110	4.4	1	VJ
02NE88SB002	8/14/2002	CS	SO	D4129	Total Organic Carbon (TOC)	0.13	PERCENT	0.05	0.02	1	
02NE88SB002	8/14/2002	CS	SO	E160.3M	Total Solids	96.1	PERCENT			1	
02NE88SB002	8/14/2002	CS	SO	SIM	Acenaphthene	ND	MG/KG	.0052	.00022	1	
02NE88SB002	8/14/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0052	.00017	1	
02NE88SB002	8/14/2002	CS	SO	SIM	Anthracene	ND	MG/KG	.0052	.0002	1	
02NE88SB002	8/14/2002	CS	SO	SIM	Benzo(a)anthracene	ND	MG/KG	.0052	.00014	1	
02NE88SB002	8/14/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0052	.00015	1	
02NE88SB002	8/14/2002	CS	SO	SIM	Benzo(b)fluoranthene	.00031	MG/KG	.0052	.00015	1	VJ
02NE88SB002	8/14/2002	CS	SO	SIM	Benzo(g,h,i)perylene	ND	MG/KG	.0052	.00011	1	
02NE88SB002	8/14/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0052	.00016	1	
02NE88SB002	8/14/2002	CS	SO	SIM	Chrysene	.00066	MG/KG	.0052	.00016	1	VJ
02NE88SB002	8/14/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0052	.00019	1	
02NE88SB002	8/14/2002	CS	SO	SIM	Fluoranthene	ND	MG/KG	.0052	.00018	1	
02NE88SB002	8/14/2002	CS	SO	SIM	Fluorene	ND	MG/KG	.0052	.00018	1	
02NE88SB002	8/14/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0052	.00016	1	
02NE88SB002	8/14/2002	CS	SO	SIM	Naphthalene	.00038	MG/KG	.0052	.00022	1	VJ
02NE88SB002	8/14/2002	CS	SO	SIM	Phenanthrene	ND	MG/KG	.0052	.00016	1	
02NE88SB002	8/14/2002	CS	SO	SIM	Pyrene	.0022	MG/KG	.0052	.00012	1	VJ
02NE88SB002	8/14/2002	CS	SO	SW6020	Chromium	4.38	MG/KG	0.21	0.01	5	
02NE88SB002	8/14/2002	CS	SO	SW6020	Lead	37.7	MG/KG	0.05	0.03	5	
02NE88SB002	8/14/2002	CS	SO	SW6020	Zinc	54.5	MG/KG	0.52	0.06	5	
02NE88SB002	8/14/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.042	1	
02NE88SB002	8/14/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.21	0.0073	1	
02NE88SB002	8/14/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.017	1	

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB002	8/14/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0064	1	
02NE88SB002	8/14/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0044	1	
02NE88SB002	8/14/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.0086	1	
02NE88SB002	8/14/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.0048	1	
02NE88SB002	8/14/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.011	0.011	1	
02NE88SB002	8/14/2002	CS	SO	SW8260B	Ethylbenzene	ND	MG/KG	0.025	0.011	1	
02NE88SB002	8/14/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.025	0.0082	1	
02NE88SB002	8/14/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.025	0.011	1	
02NE88SB002	8/14/2002	CS	SO	SW8260B	Xylene, Isomers m & p	ND	MG/KG	0.025	0.02	1	
02NE88SB003	8/14/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	ND	MG/KG	3	2.3	1	
02NE88SB003	8/14/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	ND	MG/KG	12	5.2	1	
02NE88SB003	8/14/2002	CS	SO	AK103	Residual Range Organics	6	MG/KG	120	4.9	1	VJ
02NE88SB003	8/14/2002	CS	SO	D4129	Total Organic Carbon (TOC)	0.19	PERCENT	0.05	0.02	1	
02NE88SB003	8/14/2002	CS	SO	E160.3M	Total Solids	87.5	PERCENT			1	
02NE88SB003	8/14/2002	CS	SO	SIM	Acenaphthene	ND	MG/KG	.0058	.00024	1	
02NE88SB003	8/14/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0058	.00019	1	
02NE88SB003	8/14/2002	CS	SO	SIM	Anthracene	ND	MG/KG	.0058	.00022	1	
02NE88SB003	8/14/2002	CS	SO	SIM	Benzo(a)anthracene	ND	MG/KG	.0058	.00015	1	
02NE88SB003	8/14/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0058	.00016	1	
02NE88SB003	8/14/2002	CS	SO	SIM	Benzo(b)fluoranthene	.00045	MG/KG	.0058	.00016	1	VJ
02NE88SB003	8/14/2002	CS	SO	SIM	Benzo(g,h,i)perylene	.00065	MG/KG	.0058	.00012	1	VJ
02NE88SB003	8/14/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0058	.00018	1	
02NE88SB003	8/14/2002	CS	SO	SIM	Chrysene	ND	MG/KG	.0058	.00018	1	
02NE88SB003	8/14/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	.00048	MG/KG	.0058	.00021	1	VJ
02NE88SB003	8/14/2002	CS	SO	SIM	Fluoranthene	ND	MG/KG	.0058	.0002	1	
02NE88SB003	8/14/2002	CS	SO	SIM	Fluorene	ND	MG/KG	.0058	.0002	1	
02NE88SB003	8/14/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	.00048	MG/KG	.0058	.00018	1	VJ
02NE88SB003	8/14/2002	CS	SO	SIM	Naphthalene	.001	MG/KG	.0058	.00024	1	VJ
02NE88SB003	8/14/2002	CS	SO	SIM	Phenanthrene	.00026	MG/KG	.0058	.00018	1	VJ
02NE88SB003	8/14/2002	CS	SO	SIM	Pyrene	ND	MG/KG	.0058	.00013	1	
02NE88SB003	8/14/2002	CS	SO	SW6020	Chromium	16.1	MG/KG	0.23	0.01	5	
02NE88SB003	8/14/2002	CS	SO	SW6020	Lead	24.4	MG/KG	0.06	0.03	5	
02NE88SB003	8/14/2002	CS	SO	SW6020	Zinc	55.2	MG/KG	0.57	0.07	5	
02NE88SB003	8/14/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.12	0.046	1	
02NE88SB003	8/14/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.23	0.008	1	
02NE88SB003	8/14/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.12	0.019	1	
02NE88SB003	8/14/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.12	0.007	1	
02NE88SB003	8/14/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.12	0.0048	1	
02NE88SB003	8/14/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.12	0.0094	1	
02NE88SB003	8/14/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.12	0.0053	1	
02NE88SB003	8/14/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.014	0.012	1	
02NE88SB003	8/14/2002	CS	SO	SW8260B	Ethylbenzene	ND	MG/KG	0.035	0.012	1	
02NE88SB003	8/14/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.035	0.009	1	
02NE88SB003	8/14/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.035	0.012	1	
02NE88SB003	8/14/2002	CS	SO	SW8260B	Xylene, Isomers m & p	ND	MG/KG	0.035	0.022	1	
02NE88SB004	8/14/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	ND	MG/KG	3.6	2.2	1	
02NE88SB004	8/14/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	ND	MG/KG	11	4.8	1	
02NE88SB004	8/14/2002	CS	SO	AK103	Residual Range Organics	7.1	MG/KG	110	4.5	1	VJ
02NE88SB004	8/14/2002	CS	SO	D4129	Total Organic Carbon (TOC)	0.18	PERCENT	0.05	0.02	1	
02NE88SB004	8/14/2002	CS	SO	E160.3M	Total Solids	94.4	PERCENT			1	
02NE88SB004	8/14/2002	CS	SO	SIM	Acenaphthene	ND	MG/KG	.0053	.00023	1	
02NE88SB004	8/14/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0053	.00017	1	

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB004	8/14/2002	CS	SO	SIM	Anthracene	ND	MG/KG	.0053	.00021	1	
02NE88SB004	8/14/2002	CS	SO	SIM	Benzo(a)anthracene	ND	MG/KG	.0053	.00014	1	
02NE88SB004	8/14/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0053	.00015	1	
02NE88SB004	8/14/2002	CS	SO	SIM	Benzo(b)fluoranthene	.0003	MG/KG	.0053	.00015	1	VJ
02NE88SB004	8/14/2002	CS	SO	SIM	Benzo(g,h,i)perylene	ND	MG/KG	.0053	.00011	1	
02NE88SB004	8/14/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0053	.00016	1	
02NE88SB004	8/14/2002	CS	SO	SIM	Chrysene	ND	MG/KG	.0053	.00016	1	
02NE88SB004	8/14/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0053	.0002	1	
02NE88SB004	8/14/2002	CS	SO	SIM	Fluoranthene	ND	MG/KG	.0053	.00019	1	
02NE88SB004	8/14/2002	CS	SO	SIM	Fluorene	ND	MG/KG	.0053	.00019	1	
02NE88SB004	8/14/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0053	.00016	1	
02NE88SB004	8/14/2002	CS	SO	SIM	Naphthalene	.00056	MG/KG	.0053	.00023	1	VJ
02NE88SB004	8/14/2002	CS	SO	SIM	Phenanthrene	ND	MG/KG	.0053	.00016	1	
02NE88SB004	8/14/2002	CS	SO	SIM	Pyrene	ND	MG/KG	.0053	.00012	1	
02NE88SB004	8/14/2002	CS	SO	SW6020	Chromium	8	MG/KG	0.21	0.01	5	
02NE88SB004	8/14/2002	CS	SO	SW6020	Lead	14.9	MG/KG	0.05	0.03	5	
02NE88SB004	8/14/2002	CS	SO	SW6020	Zinc	36.1	MG/KG	0.53	0.06	5	
02NE88SB004	8/14/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.043	1	
02NE88SB004	8/14/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.22	0.0075	1	
02NE88SB004	8/14/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.017	1	
02NE88SB004	8/14/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0065	1	
02NE88SB004	8/14/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0045	1	
02NE88SB004	8/14/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.0087	1	
02NE88SB004	8/14/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.0049	1	
02NE88SB004	8/14/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.015	0.012	1	
02NE88SB004	8/14/2002	CS	SO	SW8260B	Ethylbenzene	ND	MG/KG	0.037	0.011	1	
02NE88SB004	8/14/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.037	0.0084	1	
02NE88SB004	8/14/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.037	0.011	1	
02NE88SB004	8/14/2002	CS	SO	SW8260B	Xylene, Isomers m & p	ND	MG/KG	0.037	0.02	1	
02NE88SB005	8/15/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	ND	MG/KG	6	2.4	1	
02NE88SB005	8/15/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	7.6	MG/KG	12	5.4	1	VJ
02NE88SB005	8/15/2002	CS	SO	AK103	Residual Range Organics	120	MG/KG	120	5.1	1	VJ
02NE88SB005	8/15/2002	CS	SO	D4129	Total Organic Carbon (TOC)	0.82	PERCENT	0.05	0.02	1	
02NE88SB005	8/15/2002	CS	SO	E160.3M	Total Solids	84.1	PERCENT			1	
02NE88SB005	8/15/2002	CS	SO	SIM	Acenaphthene	ND	MG/KG	.006	.00025	1	
02NE88SB005	8/15/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.006	.0002	1	
02NE88SB005	8/15/2002	CS	SO	SIM	Anthracene	ND	MG/KG	.006	.00023	1	
02NE88SB005	8/15/2002	CS	SO	SIM	Benzo(a)anthracene	ND	MG/KG	.006	.00016	1	
02NE88SB005	8/15/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.006	.00017	1	
02NE88SB005	8/15/2002	CS	SO	SIM	Benzo(b)fluoranthene	.00032	MG/KG	.006	.00017	1	VJ
02NE88SB005	8/15/2002	CS	SO	SIM	Benzo(g,h,i)perylene	ND	MG/KG	.006	.00012	1	
02NE88SB005	8/15/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.006	.00018	1	
02NE88SB005	8/15/2002	CS	SO	SIM	Chrysene	.00032	MG/KG	.006	.00018	1	VJ
02NE88SB005	8/15/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.006	.00022	1	
02NE88SB005	8/15/2002	CS	SO	SIM	Fluoranthene	ND	MG/KG	.006	.00021	1	
02NE88SB005	8/15/2002	CS	SO	SIM	Fluorene	ND	MG/KG	.006	.00021	1	
02NE88SB005	8/15/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.006	.00018	1	
02NE88SB005	8/15/2002	CS	SO	SIM	Naphthalene	.00081	MG/KG	.006	.00025	1	VJ
02NE88SB005	8/15/2002	CS	SO	SIM	Phenanthrene	.00051	MG/KG	.006	.00018	1	VJ
02NE88SB005	8/15/2002	CS	SO	SIM	Pyrene	.00017	MG/KG	.006	.00014	1	VJ
02NE88SB005	8/15/2002	CS	SO	SW6020	Chromium	22.3	MG/KG	0.24	0.01	5	
02NE88SB005	8/15/2002	CS	SO	SW6020	Lead	15.1	MG/KG	0.06	0.04	5	

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB005	8/15/2002	CS	SO	SW6020	Zinc	45.9	MG/KG	0.6	0.07	5	
02NE88SB005	8/15/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.12	0.048	1	
02NE88SB005	8/15/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.24	0.0084	1	
02NE88SB005	8/15/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.12	0.02	1	
02NE88SB005	8/15/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.12	0.0073	1	
02NE88SB005	8/15/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.12	0.005	1	
02NE88SB005	8/15/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.12	0.0098	1	
02NE88SB005	8/15/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.12	0.0055	1	
02NE88SB005	8/15/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.023	0.013	1	
02NE88SB005	8/15/2002	CS	SO	SW8260B	Ethylbenzene	ND	MG/KG	0.058	0.012	1	
02NE88SB005	8/15/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.058	0.0094	1	
02NE88SB005	8/15/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.058	0.012	1	
02NE88SB005	8/15/2002	CS	SO	SW8260B	Xylene, Isomers m & p	ND	MG/KG	0.058	0.023	1	
02NE88SB006	8/17/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	51	MG/KG	5.4	2.2	1	
02NE88SB006	8/17/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	3700	MG/KG	11	5	1	
02NE88SB006	8/17/2002	CS	SO	AK103	Residual Range Organics	24	MG/KG	110	4.6	1	VJ
02NE88SB006	8/17/2002	CS	SO	D4129	Total Organic Carbon (TOC)	0.16	PERCENT	0.05	0.02	1	
02NE88SB006	8/17/2002	CS	SO	E160.3M	Total Solids	91.7	PERCENT			1	
02NE88SB006	8/17/2002	CS	SO	SIM	Acenaphthene	.15	MG/KG	.0055	.00023	1	
02NE88SB006	8/17/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0055	.00018	1	
02NE88SB006	8/17/2002	CS	SO	SIM	Anthracene	.034	MG/KG	.0055	.00021	1	
02NE88SB006	8/17/2002	CS	SO	SIM	Benzo(a)anthracene	.0011	MG/KG	.0055	.00015	1	VJ
02NE88SB006	8/17/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0055	.00016	1	
02NE88SB006	8/17/2002	CS	SO	SIM	Benzo(b)fluoranthene	.00074	MG/KG	.0055	.00016	1	VJ
02NE88SB006	8/17/2002	CS	SO	SIM	Benzo(g,h,i)perylene	ND	MG/KG	.0055	.00011	1	
02NE88SB006	8/17/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0055	.00017	1	
02NE88SB006	8/17/2002	CS	SO	SIM	Chrysene	.0027	MG/KG	.0055	.00017	1	VJ
02NE88SB006	8/17/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0055	.0002	1	
02NE88SB006	8/17/2002	CS	SO	SIM	Fluoranthene	.0041	MG/KG	.0055	.00019	1	VJ
02NE88SB006	8/17/2002	CS	SO	SIM	Fluorene	.36	MG/KG	.0055	.00019	1	
02NE88SB006	8/17/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0055	.00017	1	
02NE88SB006	8/17/2002	CS	SO	SIM	Naphthalene	1.5	MG/KG	.055	.0023	10	
02NE88SB006	8/17/2002	CS	SO	SIM	Phenanthrene	.46	MG/KG	.0055	.00017	1	
02NE88SB006	8/17/2002	CS	SO	SIM	Pyrene	.011	MG/KG	.0055	.00012	1	
02NE88SB006	8/17/2002	CS	SO	SW6020	Chromium	13.1	MG/KG	0.22	0.01	5	
02NE88SB006	8/17/2002	CS	SO	SW6020	Lead	26.2	MG/KG	0.05	0.03	5	VJ
02NE88SB006	8/17/2002	CS	SO	SW6020	Zinc	52.8	MG/KG	0.55	0.07	5	
02NE88SB006	8/17/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.044	1	
02NE88SB006	8/17/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.22	0.0077	1	
02NE88SB006	8/17/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.018	1	
02NE88SB006	8/17/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0067	1	
02NE88SB006	8/17/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0046	1	
02NE88SB006	8/17/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.009	1	
02NE88SB006	8/17/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.0051	1	
02NE88SB006	8/17/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.021	0.012	1	
02NE88SB006	8/17/2002	CS	SO	SW8260B	Ethylbenzene	0.34	MG/KG	0.051	0.011	1	VJ
02NE88SB006	8/17/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.051	0.0086	1	
02NE88SB006	8/17/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.051	0.011	1	
02NE88SB006	8/17/2002	CS	SO	SW8260B	Xylene, Isomers m & p	0.31	MG/KG	0.051	0.021	1	VJ
02NE88SB007	8/17/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	44	MG/KG	6.7	2.8	1	
02NE88SB007	8/17/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	12000	MG/KG	140	62	10	
02NE88SB007	8/17/2002	CS	SO	AK103	Residual Range Organics	3700	MG/KG	1400	58	10	

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB007	8/17/2002	CS	SO	D4129	Total Organic Carbon (TOC)	15.3	PERCENT	0.05	0.02	1	
02NE88SB007	8/17/2002	CS	SO	E160.3M	Total Solids	73.7	PERCENT			1	
02NE88SB007	8/17/2002	CS	SO	SIM	Acenaphthene	.29	MG/KG	.034	.0015	1	VHB
02NE88SB007	8/17/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.034	.0011	1	
02NE88SB007	8/17/2002	CS	SO	SIM	Anthracene	.026	MG/KG	.034	.0013	1	VJ
02NE88SB007	8/17/2002	CS	SO	SIM	Benzo(a)anthracene	ND	MG/KG	.034	.00089	1	
02NE88SB007	8/17/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.034	.00095	1	
02NE88SB007	8/17/2002	CS	SO	SIM	Benzo(b)fluoranthene	.0044	MG/KG	.034	.00095	1	VJ
02NE88SB007	8/17/2002	CS	SO	SIM	Benzo(g,h,i)perylene	.00094	MG/KG	.034	.00068	1	VJ
02NE88SB007	8/17/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.034	.0011	1	
02NE88SB007	8/17/2002	CS	SO	SIM	Chrysene	.0033	MG/KG	.034	.0011	1	VJ
02NE88SB007	8/17/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.034	.0013	1	
02NE88SB007	8/17/2002	CS	SO	SIM	Fluoranthene	.0042	MG/KG	.034	.0012	1	VJ
02NE88SB007	8/17/2002	CS	SO	SIM	Fluorene	.8	MG/KG	.034	.0012	1	VHB
02NE88SB007	8/17/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.034	.0011	1	
02NE88SB007	8/17/2002	CS	SO	SIM	Naphthalene	5.9	MG/KG	.034	.0015	1	VHB
02NE88SB007	8/17/2002	CS	SO	SIM	Phenanthrene	.59	MG/KG	.034	.0011	1	VHB
02NE88SB007	8/17/2002	CS	SO	SIM	Pyrene	.01	MG/KG	.034	.00075	1	VJ
02NE88SB007	8/17/2002	CS	SO	SW6020	Chromium	17.3	MG/KG	0.23	0.01	5	
02NE88SB007	8/17/2002	CS	SO	SW6020	Lead	11	MG/KG	0.06	0.03	5	
02NE88SB007	8/17/2002	CS	SO	SW6020	Zinc	17.3	MG/KG	0.57	0.07	5	
02NE88SB007	8/17/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.14	0.055	1	
02NE88SB007	8/17/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.27	0.0095	1	
02NE88SB007	8/17/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.14	0.022	1	
02NE88SB007	8/17/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.14	0.0083	1	
02NE88SB007	8/17/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.14	0.0057	1	
02NE88SB007	8/17/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.14	0.012	1	
02NE88SB007	8/17/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.14	0.0063	1	
02NE88SB007	8/17/2002	CS	SO	SW8260B	Benzene	0.047	MG/KG	0.027	0.015	1	
02NE88SB007	8/17/2002	CS	SO	SW8260B	Ethylbenzene	0.54	MG/KG	0.066	0.014	1	
02NE88SB007	8/17/2002	CS	SO	SW8260B	o-Xylene	0.89	MG/KG	0.066	0.011	1	
02NE88SB007	8/17/2002	CS	SO	SW8260B	Toluene	0.083	MG/KG	0.066	0.014	1	
02NE88SB007	8/17/2002	CS	SO	SW8260B	Xylene, Isomers m & p	1.6	MG/KG	0.066	0.026	1	
02NE88SB008	8/17/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	54	MG/KG	3.5	2.2	1	VHB
02NE88SB008	8/17/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	2600	MG/KG	11	5	1	
02NE88SB008	8/17/2002	CS	SO	AK103	Residual Range Organics	16	MG/KG	110	4.7	1	VJ
02NE88SB008	8/17/2002	CS	SO	D4129	Total Organic Carbon (TOC)	0.18	PERCENT	0.05	0.02	1	
02NE88SB008	8/17/2002	CS	SO	E160.3M	Total Solids	91.6	PERCENT			1	
02NE88SB008	8/17/2002	CS	SO	SIM	Acenaphthene	.11	MG/KG	.0055	.00023	1	
02NE88SB008	8/17/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0055	.00018	1	
02NE88SB008	8/17/2002	CS	SO	SIM	Anthracene	.015	MG/KG	.0055	.00021	1	
02NE88SB008	8/17/2002	CS	SO	SIM	Benzo(a)anthracene	.00065	MG/KG	.0055	.00015	1	VJ
02NE88SB008	8/17/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0055	.00016	1	
02NE88SB008	8/17/2002	CS	SO	SIM	Benzo(b)fluoranthene	ND	MG/KG	.0055	.00016	1	
02NE88SB008	8/17/2002	CS	SO	SIM	Benzo(g,h,i)perylene	ND	MG/KG	.0055	.00011	1	
02NE88SB008	8/17/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0055	.00017	1	
02NE88SB008	8/17/2002	CS	SO	SIM	Chrysene	.0014	MG/KG	.0055	.00017	1	VJ
02NE88SB008	8/17/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0055	.0002	1	
02NE88SB008	8/17/2002	CS	SO	SIM	Fluoranthene	.0017	MG/KG	.0055	.00019	1	VJ
02NE88SB008	8/17/2002	CS	SO	SIM	Fluorene	.26	MG/KG	.0055	.00019	1	
02NE88SB008	8/17/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0055	.00017	1	
02NE88SB008	8/17/2002	CS	SO	SIM	Naphthalene	2.3	MG/KG	.11	.0046	20	

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB008	8/17/2002	CS	SO	SIM	Phenanthrene	.28	MG/KG	.0055	.00017	1	
02NE88SB008	8/17/2002	CS	SO	SIM	Pyrene	.0047	MG/KG	.0055	.00013	1	VJ
02NE88SB008	8/17/2002	CS	SO	SW6020	Chromium	3.73	MG/KG	0.22	0.01	5	
02NE88SB008	8/17/2002	CS	SO	SW6020	Lead	87	MG/KG	0.05	0.03	5	
02NE88SB008	8/17/2002	CS	SO	SW6020	Zinc	56.2	MG/KG	0.55	0.07	5	
02NE88SB008	8/17/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.044	1	
02NE88SB008	8/17/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.22	0.0077	1	
02NE88SB008	8/17/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.018	1	
02NE88SB008	8/17/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0067	1	
02NE88SB008	8/17/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0046	1	
02NE88SB008	8/17/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.009	1	
02NE88SB008	8/17/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.0051	1	
02NE88SB008	8/17/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.018	0.012	1	
02NE88SB008	8/17/2002	CS	SO	SW8260B	Ethylbenzene	0.57	MG/KG	0.044	0.011	1	
02NE88SB008	8/17/2002	CS	SO	SW8260B	o-Xylene	0.01	MG/KG	0.044	0.0086	1	VJ
02NE88SB008	8/17/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.044	0.011	1	
02NE88SB008	8/17/2002	CS	SO	SW8260B	Xylene, Isomers m & p	0.29	MG/KG	0.044	0.021	1	
02NE88SB009	8/17/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	ND	MG/KG	2.8	2.2	1	
02NE88SB009	8/17/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	380	MG/KG	54	25	1	
02NE88SB009	8/17/2002	CS	SO	AK103	Residual Range Organics	3400	MG/KG	540	23	1	
02NE88SB009	8/17/2002	CS	SO	D4129	Total Organic Carbon (TOC)	0.95	PERCENT	0.05	0.02	1	
02NE88SB009	8/17/2002	CS	SO	E160.3M	Total Solids	92.9	PERCENT			1	
02NE88SB009	8/17/2002	CS	SO	SIM	Acenaphthene	.0043	MG/KG	.0054	.00023	1	VJ
02NE88SB009	8/17/2002	CS	SO	SIM	Acenaphthylene	.00055	MG/KG	.0054	.00018	1	VJ
02NE88SB009	8/17/2002	CS	SO	SIM	Anthracene	.0054	MG/KG	.0054	.00021	1	
02NE88SB009	8/17/2002	CS	SO	SIM	Benzo(a)anthracene	.03	MG/KG	.0054	.00014	1	
02NE88SB009	8/17/2002	CS	SO	SIM	Benzo(a)pyrene	.028	MG/KG	.0054	.00016	1	
02NE88SB009	8/17/2002	CS	SO	SIM	Benzo(b)fluoranthene	.039	MG/KG	.0054	.00016	1	
02NE88SB009	8/17/2002	CS	SO	SIM	Benzo(g,h,i)perylene	.018	MG/KG	.0054	.00011	1	
02NE88SB009	8/17/2002	CS	SO	SIM	Benzo(k)fluoranthene	.023	MG/KG	.0054	.00017	1	
02NE88SB009	8/17/2002	CS	SO	SIM	Chrysene	.087	MG/KG	.0054	.00017	1	
02NE88SB009	8/17/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	.0043	MG/KG	.0054	.0002	1	VJ
02NE88SB009	8/17/2002	CS	SO	SIM	Fluoranthene	.073	MG/KG	.0054	.00019	1	
02NE88SB009	8/17/2002	CS	SO	SIM	Fluorene	.0045	MG/KG	.0054	.00019	1	VJ
02NE88SB009	8/17/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	.016	MG/KG	.0054	.00017	1	
02NE88SB009	8/17/2002	CS	SO	SIM	Naphthalene	.0041	MG/KG	.0054	.00023	1	VJ
02NE88SB009	8/17/2002	CS	SO	SIM	Phenanthrene	.056	MG/KG	.0054	.00017	1	
02NE88SB009	8/17/2002	CS	SO	SIM	Pyrene	.08	MG/KG	.0054	.00012	1	
02NE88SB009	8/17/2002	CS	SO	SW6020	Chromium	42.3	MG/KG	0.22	0.01	5	
02NE88SB009	8/17/2002	CS	SO	SW6020	Lead	42.4	MG/KG	0.05	0.03	5	
02NE88SB009	8/17/2002	CS	SO	SW6020	Zinc	92.6	MG/KG	0.54	0.06	5	
02NE88SB009	8/17/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.044	1	
02NE88SB009	8/17/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.22	0.0076	1	
02NE88SB009	8/17/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.018	1	
02NE88SB009	8/17/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0066	1	
02NE88SB009	8/17/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0046	1	
02NE88SB009	8/17/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.0089	1	
02NE88SB009	8/17/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	0.59	MG/KG	0.11	0.005	1	
02NE88SB009	8/17/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.012	0.012	1	
02NE88SB009	8/17/2002	CS	SO	SW8260B	Ethylbenzene	ND	MG/KG	0.025	0.011	1	
02NE88SB009	8/17/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.025	0.0085	1	
02NE88SB009	8/17/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.025	0.011	1	

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB009	8/17/2002	CS	SO	SW8260B	Xylene, Isomers m & p	ND	MG/KG	0.025	0.021	1	
02NE88SB010	8/17/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	ND	MG/KG	4	2.3	1	
02NE88SB010	8/17/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	21	MG/KG	11	5.1	1	
02NE88SB010	8/17/2002	CS	SO	AK103	Residual Range Organics	25	MG/KG	110	4.7	1	VJ
02NE88SB010	8/17/2002	CS	SO	D4129	Total Organic Carbon (TOC)	0.61	PERCENT	0.05	0.02	1	
02NE88SB010	8/17/2002	CS	SO	E160.3M	Total Solids	90	PERCENT			1	
02NE88SB010	8/17/2002	CS	SO	SIM	Acenaphthene	.0006	MG/KG	.0056	.00024	1	VJ
02NE88SB010	8/17/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0056	.00018	1	
02NE88SB010	8/17/2002	CS	SO	SIM	Anthracene	ND	MG/KG	.0056	.00022	1	
02NE88SB010	8/17/2002	CS	SO	SIM	Benzo(a)anthracene	ND	MG/KG	.0056	.00015	1	
02NE88SB010	8/17/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0056	.00016	1	
02NE88SB010	8/17/2002	CS	SO	SIM	Benzo(b)fluoranthene	ND	MG/KG	.0056	.00016	1	
02NE88SB010	8/17/2002	CS	SO	SIM	Benzo(g,h,i)perylene	ND	MG/KG	.0056	.00012	1	
02NE88SB010	8/17/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0056	.00017	1	
02NE88SB010	8/17/2002	CS	SO	SIM	Chrysene	ND	MG/KG	.0056	.00017	1	
02NE88SB010	8/17/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0056	.0002	1	
02NE88SB010	8/17/2002	CS	SO	SIM	Fluoranthene	ND	MG/KG	.0056	.00019	1	
02NE88SB010	8/17/2002	CS	SO	SIM	Fluorene	.0021	MG/KG	.0056	.00019	1	VJ
02NE88SB010	8/17/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0056	.00017	1	
02NE88SB010	8/17/2002	CS	SO	SIM	Naphthalene	.0037	MG/KG	.0056	.00024	1	VJ
02NE88SB010	8/17/2002	CS	SO	SIM	Phenanthrene	.00081	MG/KG	.0056	.00017	1	VJ
02NE88SB010	8/17/2002	CS	SO	SIM	Pyrene	ND	MG/KG	.0056	.00013	1	
02NE88SB010	8/17/2002	CS	SO	SW6020	Chromium	4.5	MG/KG	0.22	0.01	5	
02NE88SB010	8/17/2002	CS	SO	SW6020	Lead	13.1	MG/KG	0.06	0.03	5	
02NE88SB010	8/17/2002	CS	SO	SW6020	Zinc	20.1	MG/KG	0.56	0.07	5	
02NE88SB010	8/17/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.045	1	
02NE88SB010	8/17/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.22	0.0078	1	
02NE88SB010	8/17/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.018	1	
02NE88SB010	8/17/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0068	1	
02NE88SB010	8/17/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0047	1	
02NE88SB010	8/17/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.0092	1	
02NE88SB010	8/17/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.0052	1	
02NE88SB010	8/17/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.014	0.012	1	
02NE88SB010	8/17/2002	CS	SO	SW8260B	Ethylbenzene	ND	MG/KG	0.034	0.011	1	
02NE88SB010	8/17/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.034	0.0088	1	
02NE88SB010	8/17/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.034	0.011	1	
02NE88SB010	8/17/2002	CS	SO	SW8260B	Xylene, Isomers m & p	ND	MG/KG	0.034	0.021	1	
02NE88SB011	8/18/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	130	MG/KG	3.3	2.2	1	VHB
02NE88SB011	8/18/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	3100	MG/KG	11	5	1	
02NE88SB011	8/18/2002	CS	SO	AK103	Residual Range Organics	23	MG/KG	110	4.7	1	VJ
02NE88SB011	8/18/2002	CS	SO	D4129	Total Organic Carbon (TOC)	0.16	PERCENT	0.05	0.02	1	
02NE88SB011	8/18/2002	CS	SO	E160.3M	Total Solids	91.1	PERCENT			1	
02NE88SB011	8/18/2002	CS	SO	SIM	Acenaphthene	.1	MG/KG	.0055	.00024	1	
02NE88SB011	8/18/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0055	.00018	1	
02NE88SB011	8/18/2002	CS	SO	SIM	Anthracene	.0035	MG/KG	.0055	.00021	1	VJ
02NE88SB011	8/18/2002	CS	SO	SIM	Benzo(a)anthracene	.00023	MG/KG	.0055	.00015	1	VJ
02NE88SB011	8/18/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0055	.00016	1	
02NE88SB011	8/18/2002	CS	SO	SIM	Benzo(b)fluoranthene	.0005	MG/KG	.0055	.00016	1	VJ
02NE88SB011	8/18/2002	CS	SO	SIM	Benzo(g,h,i)perylene	ND	MG/KG	.0055	.00011	1	
02NE88SB011	8/18/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0055	.00017	1	
02NE88SB011	8/18/2002	CS	SO	SIM	Chrysene	.00064	MG/KG	.0055	.00017	1	VJ
02NE88SB011	8/18/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0055	.0002	1	

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB011	8/18/2002	CS	SO	SIM	Fluoranthene	.0008	MG/KG	.0055	.00019	1	VJ
02NE88SB011	8/18/2002	CS	SO	SIM	Fluorene	.23	MG/KG	.0055	.00019	1	
02NE88SB011	8/18/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0055	.00017	1	
02NE88SB011	8/18/2002	CS	SO	SIM	Naphthalene	4.1	MG/KG	.28	.012	50	
02NE88SB011	8/18/2002	CS	SO	SIM	Phenanthrene	.11	MG/KG	.0055	.00017	1	
02NE88SB011	8/18/2002	CS	SO	SIM	Pyrene	.0022	MG/KG	.0055	.00013	1	VJ
02NE88SB011	8/18/2002	CS	SO	SW6020	Chromium	12.8	MG/KG	0.22	0.01	5	
02NE88SB011	8/18/2002	CS	SO	SW6020	Lead	13.9	MG/KG	0.05	0.03	5	
02NE88SB011	8/18/2002	CS	SO	SW6020	Zinc	34.1	MG/KG	0.55	0.07	5	
02NE88SB011	8/18/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.044	1	
02NE88SB011	8/18/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.22	0.0077	1	
02NE88SB011	8/18/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.018	1	
02NE88SB011	8/18/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0067	1	
02NE88SB011	8/18/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0047	1	
02NE88SB011	8/18/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.0091	1	
02NE88SB011	8/18/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.0051	1	
02NE88SB011	8/18/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.012	0.012	1	
02NE88SB011	8/18/2002	CS	SO	SW8260B	Ethylbenzene	0.36	MG/KG	0.026	0.011	1	
02NE88SB011	8/18/2002	CS	SO	SW8260B	o-Xylene	0.044	MG/KG	0.026	0.0087	1	
02NE88SB011	8/18/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.026	0.011	1	
02NE88SB011	8/18/2002	CS	SO	SW8260B	Xylene, Isomers m & p	0.44	MG/KG	0.026	0.021	1	
02NE88SB012	8/18/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	83	MG/KG	3	2.2	1	VHB
02NE88SB012	8/18/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	1200	MG/KG	11	4.9	1	
02NE88SB012	8/18/2002	CS	SO	AK103	Residual Range Organics	30	MG/KG	110	4.6	1	VJ
02NE88SB012	8/18/2002	CS	SO	D4129	Total Organic Carbon (TOC)	0.11	PERCENT	0.05	0.02	1	
02NE88SB012	8/18/2002	CS	SO	E160.3M	Total Solids	92.4	PERCENT			1	
02NE88SB012	8/18/2002	CS	SO	SIM	Acenaphthene	.052	MG/KG	.0055	.00023	1	
02NE88SB012	8/18/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0055	.00018	1	
02NE88SB012	8/18/2002	CS	SO	SIM	Anthracene	.0025	MG/KG	.0055	.00021	1	VJ
02NE88SB012	8/18/2002	CS	SO	SIM	Benzo(a)anthracene	ND	MG/KG	.0055	.00015	1	
02NE88SB012	8/18/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0055	.00016	1	
02NE88SB012	8/18/2002	CS	SO	SIM	Benzo(b)fluoranthene	.00089	MG/KG	.0055	.00016	1	VJ
02NE88SB012	8/18/2002	CS	SO	SIM	Benzo(g,h,i)perylene	ND	MG/KG	.0055	.00011	1	
02NE88SB012	8/18/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0055	.00017	1	
02NE88SB012	8/18/2002	CS	SO	SIM	Chrysene	ND	MG/KG	.0055	.00017	1	
02NE88SB012	8/18/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0055	.0002	1	
02NE88SB012	8/18/2002	CS	SO	SIM	Fluoranthene	.00044	MG/KG	.0055	.00019	1	VJ
02NE88SB012	8/18/2002	CS	SO	SIM	Fluorene	.17	MG/KG	.0055	.00019	1	
02NE88SB012	8/18/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0055	.00017	1	
02NE88SB012	8/18/2002	CS	SO	SIM	Naphthalene	1.1	MG/KG	.055	.0023	10	
02NE88SB012	8/18/2002	CS	SO	SIM	Phenanthrene	.063	MG/KG	.0055	.00017	1	
02NE88SB012	8/18/2002	CS	SO	SIM	Pyrene	.0015	MG/KG	.0055	.00012	1	VJ
02NE88SB012	8/18/2002	CS	SO	SW6020	Chromium	8.3	MG/KG	0.22	0.01	5	
02NE88SB012	8/18/2002	CS	SO	SW6020	Lead	14	MG/KG	0.05	0.03	5	
02NE88SB012	8/18/2002	CS	SO	SW6020	Zinc	33.4	MG/KG	0.54	0.06	5	
02NE88SB012	8/18/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.044	1	
02NE88SB012	8/18/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.22	0.0076	1	
02NE88SB012	8/18/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.018	1	
02NE88SB012	8/18/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0067	1	
02NE88SB012	8/18/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0046	1	
02NE88SB012	8/18/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.0089	1	
02NE88SB012	8/18/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	0.0097	MG/KG	0.11	0.005	1	VJ

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB012	8/18/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.012	0.012	1	
02NE88SB012	8/18/2002	CS	SO	SW8260B	Ethylbenzene	0.11	MG/KG	0.028	0.011	1	
02NE88SB012	8/18/2002	CS	SO	SW8260B	o-Xylene	0.013	MG/KG	0.028	0.0085	1	VJ
02NE88SB012	8/18/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.028	0.011	1	
02NE88SB012	8/18/2002	CS	SO	SW8260B	Xylene, Isomers m & p	0.15	MG/KG	0.028	0.021	1	
02NE88SB013	8/18/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	140	MG/KG	2.9	2.2	1	VHB
02NE88SB013	8/18/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	12000	MG/KG	110	48	10	
02NE88SB013	8/18/2002	CS	SO	AK103	Residual Range Organics	55	MG/KG	110	4.5	1	VJ
02NE88SB013	8/18/2002	CS	SO	D4129	Total Organic Carbon (TOC)	0.16	PERCENT	0.05	0.02	1	
02NE88SB013	8/18/2002	CS	SO	E160.3M	Total Solids	94.7	PERCENT			1	
02NE88SB013	8/18/2002	CS	SO	SIM	Acenaphthene	.18	MG/KG	.0053	.00023	1	
02NE88SB013	8/18/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0053	.00017	1	
02NE88SB013	8/18/2002	CS	SO	SIM	Anthracene	.0097	MG/KG	.0053	.00021	1	
02NE88SB013	8/18/2002	CS	SO	SIM	Benzo(a)anthracene	.00077	MG/KG	.0053	.00014	1	VJ
02NE88SB013	8/18/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0053	.00015	1	
02NE88SB013	8/18/2002	CS	SO	SIM	Benzo(b)fluoranthene	.00045	MG/KG	.0053	.00015	1	VJ
02NE88SB013	8/18/2002	CS	SO	SIM	Benzo(g,h,i)perylene	.0002	MG/KG	.0053	.00011	1	VJ
02NE88SB013	8/18/2002	CS	SO	SIM	Benzo(k)fluoranthene	.00018	MG/KG	.0053	.00016	1	VJ
02NE88SB013	8/18/2002	CS	SO	SIM	Chrysene	.0015	MG/KG	.0053	.00016	1	VJ
02NE88SB013	8/18/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0053	.0002	1	
02NE88SB013	8/18/2002	CS	SO	SIM	Fluoranthene	.0019	MG/KG	.0053	.00018	1	VJ
02NE88SB013	8/18/2002	CS	SO	SIM	Fluorene	.52	MG/KG	.0053	.00018	1	
02NE88SB013	8/18/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	.00017	MG/KG	.0053	.00016	1	VJ
02NE88SB013	8/18/2002	CS	SO	SIM	Naphthalene	7.9	MG/KG	.27	.012	50	
02NE88SB013	8/18/2002	CS	SO	SIM	Phenanthrene	.26	MG/KG	.0053	.00016	1	
02NE88SB013	8/18/2002	CS	SO	SIM	Pyrene	.0048	MG/KG	.0053	.00012	1	VJ
02NE88SB013	8/18/2002	CS	SO	SW6020	Chromium	17	MG/KG	0.21	0.01	5	
02NE88SB013	8/18/2002	CS	SO	SW6020	Lead	17.6	MG/KG	0.05	0.03	5	
02NE88SB013	8/18/2002	CS	SO	SW6020	Zinc	42.4	MG/KG	0.53	0.06	5	
02NE88SB013	8/18/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.043	1	
02NE88SB013	8/18/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.21	0.0074	1	
02NE88SB013	8/18/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.017	1	
02NE88SB013	8/18/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0065	1	
02NE88SB013	8/18/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0045	1	
02NE88SB013	8/18/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.0087	1	
02NE88SB013	8/18/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.0049	1	
02NE88SB013	8/18/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.012	0.012	1	
02NE88SB013	8/18/2002	CS	SO	SW8260B	Ethylbenzene	1	MG/KG	0.027	0.011	1	
02NE88SB013	8/18/2002	CS	SO	SW8260B	o-Xylene	0.13	MG/KG	0.027	0.0083	1	
02NE88SB013	8/18/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.027	0.011	1	
02NE88SB013	8/18/2002	CS	SO	SW8260B	Xylene, Isomers m & p	1.5	MG/KG	0.027	0.02	1	
02NE88SB014	8/18/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	130	MG/KG	2.4	2.1	1	VHB
02NE88SB014	8/18/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	9200	MG/KG	110	48	10	
02NE88SB014	8/18/2002	CS	SO	AK103	Residual Range Organics	54	MG/KG	110	4.4	1	VJ
02NE88SB014	8/18/2002	CS	SO	D4129	Total Organic Carbon (TOC)	0.14	PERCENT	0.05	0.02	1	
02NE88SB014	8/18/2002	CS	SO	E160.3M	Total Solids	96	PERCENT			1	
02NE88SB014	8/18/2002	CS	SO	SIM	Acenaphthene	.18	MG/KG	.0053	.00022	1	
02NE88SB014	8/18/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0053	.00017	1	
02NE88SB014	8/18/2002	CS	SO	SIM	Anthracene	.0094	MG/KG	.0053	.0002	1	
02NE88SB014	8/18/2002	CS	SO	SIM	Benzo(a)anthracene	.00076	MG/KG	.0053	.00014	1	VJ
02NE88SB014	8/18/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0053	.00015	1	
02NE88SB014	8/18/2002	CS	SO	SIM	Benzo(b)fluoranthene	.00094	MG/KG	.0053	.00015	1	VJ

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB014	8/18/2002	CS	SO	SIM	Benzo(g,h,i)perylene	.00015	MG/KG	.0053	.00011	1	VJ
02NE88SB014	8/18/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0053	.00016	1	
02NE88SB014	8/18/2002	CS	SO	SIM	Chrysene	.0015	MG/KG	.0053	.00016	1	VJ
02NE88SB014	8/18/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0053	.00019	1	
02NE88SB014	8/18/2002	CS	SO	SIM	Fluoranthene	.0019	MG/KG	.0053	.00018	1	VJ
02NE88SB014	8/18/2002	CS	SO	SIM	Fluorene	.51	MG/KG	.0053	.00018	1	
02NE88SB014	8/18/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0053	.00016	1	
02NE88SB014	8/18/2002	CS	SO	SIM	Naphthalene	8.4	MG/KG	.27	.011	50	
02NE88SB014	8/18/2002	CS	SO	SIM	Phenanthrene	.25	MG/KG	.0053	.00016	1	
02NE88SB014	8/18/2002	CS	SO	SIM	Pyrene	.0043	MG/KG	.0053	.00012	1	VJ
02NE88SB014	8/18/2002	CS	SO	SW6020	Chromium	11.6	MG/KG	0.21	0.01	5	
02NE88SB014	8/18/2002	CS	SO	SW6020	Lead	19.3	MG/KG	0.05	0.03	5	
02NE88SB014	8/18/2002	CS	SO	SW6020	Zinc	37.9	MG/KG	0.52	0.06	5	
02NE88SB014	8/18/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.042	1	
02NE88SB014	8/18/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.21	0.0073	1	
02NE88SB014	8/18/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.017	1	
02NE88SB014	8/18/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0064	1	
02NE88SB014	8/18/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0044	1	
02NE88SB014	8/18/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.0086	1	
02NE88SB014	8/18/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.0048	1	
02NE88SB014	8/18/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.011	0.011	1	
02NE88SB014	8/18/2002	CS	SO	SW8260B	Ethylbenzene	1.2	MG/KG	0.026	0.011	1	
02NE88SB014	8/18/2002	CS	SO	SW8260B	o-Xylene	0.38	MG/KG	0.026	0.0082	1	
02NE88SB014	8/18/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.026	0.011	1	
02NE88SB014	8/18/2002	CS	SO	SW8260B	Xylene, Isomers m & p	2.2	MG/KG	0.026	0.02	1	
02NE88SB015	8/18/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	68	MG/KG	4.5	2.2	1	VHB
02NE88SB015	8/18/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	5200	MG/KG	110	50	10	
02NE88SB015	8/18/2002	CS	SO	AK103	Residual Range Organics	11	MG/KG	110	4.7	1	VJ
02NE88SB015	8/18/2002	CS	SO	E160.3M	Total Solids	91.6	PERCENT			1	
02NE88SB015	8/18/2002	CS	SO	SIM	Acenaphthene	.21	MG/KG	.0055	.00023	1	
02NE88SB015	8/18/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0055	.00018	1	
02NE88SB015	8/18/2002	CS	SO	SIM	Anthracene	.0086	MG/KG	.0055	.00021	1	
02NE88SB015	8/18/2002	CS	SO	SIM	Benzo(a)anthracene	.00038	MG/KG	.0055	.00015	1	VJ
02NE88SB015	8/18/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0055	.00016	1	
02NE88SB015	8/18/2002	CS	SO	SIM	Benzo(b)fluoranthene	.00034	MG/KG	.0055	.00016	1	VJ
02NE88SB015	8/18/2002	CS	SO	SIM	Benzo(g,h,i)perylene	.00025	MG/KG	.0055	.00011	1	VJ
02NE88SB015	8/18/2002	CS	SO	SIM	Benzo(k)fluoranthene	.00017	MG/KG	.0055	.00017	1	VJ
02NE88SB015	8/18/2002	CS	SO	SIM	Chrysene	.00087	MG/KG	.0055	.00017	1	VJ
02NE88SB015	8/18/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0055	.0002	1	
02NE88SB015	8/18/2002	CS	SO	SIM	Fluoranthene	.0012	MG/KG	.0055	.00019	1	VJ
02NE88SB015	8/18/2002	CS	SO	SIM	Fluorene	.69	MG/KG	.0055	.00019	1	
02NE88SB015	8/18/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	.0002	MG/KG	.0055	.00017	1	VJ
02NE88SB015	8/18/2002	CS	SO	SIM	Naphthalene	3.3	MG/KG	.28	.012	50	
02NE88SB015	8/18/2002	CS	SO	SIM	Phenanthrene	.24	MG/KG	.0055	.00017	1	
02NE88SB015	8/18/2002	CS	SO	SIM	Pyrene	.0023	MG/KG	.0055	.00013	1	VJ
02NE88SB015	8/18/2002	CS	SO	SW6020	Chromium	9.63	MG/KG	1.09	0.05	25	
02NE88SB015	8/18/2002	CS	SO	SW6020	Lead	13.4	MG/KG	0.27	0.16	25	
02NE88SB015	8/18/2002	CS	SO	SW6020	Zinc	40.7	MG/KG	2.73	0.33	25	
02NE88SB015	8/18/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.044	1	
02NE88SB015	8/18/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.22	0.0077	1	
02NE88SB015	8/18/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.018	1	
02NE88SB015	8/18/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0067	1	

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB015	8/18/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0046	1	
02NE88SB015	8/18/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.009	1	
02NE88SB015	8/18/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	0.0065	MG/KG	0.11	0.0051	1	VJ
02NE88SB015	8/18/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.018	0.012	1	
02NE88SB015	8/18/2002	CS	SO	SW8260B	Ethylbenzene	0.13	MG/KG	0.044	0.011	1	
02NE88SB015	8/18/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.044	0.0086	1	
02NE88SB015	8/18/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.044	0.011	1	
02NE88SB015	8/18/2002	CS	SO	SW8260B	Xylene, Isomers m & p	0.17	MG/KG	0.044	0.021	1	
02NE88SB015	8/18/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	0.15	PERCENT	0.05	0.02	1	
02NE88SB016	8/18/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	73	MG/KG	4.7	2.2	1	VHB
02NE88SB016	8/18/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	2300	MG/KG	11	4.9	1	
02NE88SB016	8/18/2002	CS	SO	AK103	Residual Range Organics	7.4	MG/KG	110	4.6	1	VJ
02NE88SB016	8/18/2002	CS	SO	E160.3M	Total Solids	92.5	PERCENT			1	
02NE88SB016	8/18/2002	CS	SO	SIM	Acenaphthene	.11	MG/KG	.0055	.00023	1	
02NE88SB016	8/18/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0055	.00018	1	
02NE88SB016	8/18/2002	CS	SO	SIM	Anthracene	.0035	MG/KG	.0055	.00021	1	VJ
02NE88SB016	8/18/2002	CS	SO	SIM	Benzo(a)anthracene	ND	MG/KG	.0055	.00015	1	
02NE88SB016	8/18/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0055	.00016	1	
02NE88SB016	8/18/2002	CS	SO	SIM	Benzo(b)fluoranthene	.00032	MG/KG	.0055	.00016	1	VJ
02NE88SB016	8/18/2002	CS	SO	SIM	Benzo(g,h,i)perylene	ND	MG/KG	.0055	.00011	1	
02NE88SB016	8/18/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0055	.00017	1	
02NE88SB016	8/18/2002	CS	SO	SIM	Chrysene	.00042	MG/KG	.0055	.00017	1	VJ
02NE88SB016	8/18/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0055	.0002	1	
02NE88SB016	8/18/2002	CS	SO	SIM	Fluoranthene	.00048	MG/KG	.0055	.00019	1	VJ
02NE88SB016	8/18/2002	CS	SO	SIM	Fluorene	.35	MG/KG	.0055	.00019	1	
02NE88SB016	8/18/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0055	.00017	1	
02NE88SB016	8/18/2002	CS	SO	SIM	Naphthalene	2.3	MG/KG	.28	.012	50	
02NE88SB016	8/18/2002	CS	SO	SIM	Phenanthrene	.12	MG/KG	.0055	.00017	1	
02NE88SB016	8/18/2002	CS	SO	SIM	Pyrene	.00095	MG/KG	.0055	.00012	1	VJ
02NE88SB016	8/18/2002	CS	SO	SW6020	Chromium	8.34	MG/KG	1.08	0.05	25	
02NE88SB016	8/18/2002	CS	SO	SW6020	Lead	19.2	MG/KG	0.27	0.16	25	
02NE88SB016	8/18/2002	CS	SO	SW6020	Zinc	39.4	MG/KG	2.7	0.32	25	
02NE88SB016	8/18/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.044	1	
02NE88SB016	8/18/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.22	0.0076	1	
02NE88SB016	8/18/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.018	1	
02NE88SB016	8/18/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0066	1	
02NE88SB016	8/18/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0046	1	
02NE88SB016	8/18/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.0089	1	
02NE88SB016	8/18/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.005	1	
02NE88SB016	8/18/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.018	0.012	1	
02NE88SB016	8/18/2002	CS	SO	SW8260B	Ethylbenzene	0.21	MG/KG	0.045	0.011	1	
02NE88SB016	8/18/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.045	0.0085	1	
02NE88SB016	8/18/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.045	0.011	1	
02NE88SB016	8/18/2002	CS	SO	SW8260B	Xylene, Isomers m & p	0.18	MG/KG	0.045	0.021	1	
02NE88SB016	8/18/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	0.16	PERCENT	0.05	0.02	1	
02NE88SB017	8/19/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	ND	MG/KG	3.5	2.1	1	
02NE88SB017	8/19/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	7	MG/KG	11	4.7	1	VJ
02NE88SB017	8/19/2002	CS	SO	AK103	Residual Range Organics	8.7	MG/KG	110	4.4	1	VJ
02NE88SB017	8/19/2002	CS	SO	E160.3M	Total Solids	97.2	PERCENT			1	
02NE88SB017	8/19/2002	CS	SO	SIM	Acenaphthene	ND	MG/KG	.0052	.00022	1	
02NE88SB017	8/19/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0052	.00017	1	
02NE88SB017	8/19/2002	CS	SO	SIM	Anthracene	ND	MG/KG	.0052	.0002	1	

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB017	8/19/2002	CS	SO	SIM	Benzo(a)anthracene	ND	MG/KG	.0052	.00014	1	
02NE88SB017	8/19/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0052	.00015	1	
02NE88SB017	8/19/2002	CS	SO	SIM	Benzo(b)fluoranthene	.00023	MG/KG	.0052	.00015	1	VJ
02NE88SB017	8/19/2002	CS	SO	SIM	Benzo(g,h,i)perylene	.00014	MG/KG	.0052	.00011	1	VJ
02NE88SB017	8/19/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0052	.00016	1	
02NE88SB017	8/19/2002	CS	SO	SIM	Chrysene	.00018	MG/KG	.0052	.00016	1	VJ
02NE88SB017	8/19/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0052	.00019	1	
02NE88SB017	8/19/2002	CS	SO	SIM	Fluoranthene	ND	MG/KG	.0052	.00018	1	
02NE88SB017	8/19/2002	CS	SO	SIM	Fluorene	ND	MG/KG	.0052	.00018	1	
02NE88SB017	8/19/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0052	.00016	1	
02NE88SB017	8/19/2002	CS	SO	SIM	Naphthalene	.00045	MG/KG	.0052	.00022	1	VJ
02NE88SB017	8/19/2002	CS	SO	SIM	Phenanthrene	.0004	MG/KG	.0052	.00016	1	VJ
02NE88SB017	8/19/2002	CS	SO	SIM	Pyrene	ND	MG/KG	.0052	.00012	1	
02NE88SB017	8/19/2002	CS	SO	SW6020	Chromium	7.04	MG/KG	1.03	0.05	25	
02NE88SB017	8/19/2002	CS	SO	SW6020	Lead	14.4	MG/KG	0.26	0.15	25	
02NE88SB017	8/19/2002	CS	SO	SW6020	Zinc	38.2	MG/KG	2.57	0.31	25	
02NE88SB017	8/19/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.042	1	
02NE88SB017	8/19/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.21	0.0073	1	
02NE88SB017	8/19/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.017	1	
02NE88SB017	8/19/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0063	1	
02NE88SB017	8/19/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0044	1	
02NE88SB017	8/19/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.0085	1	
02NE88SB017	8/19/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.0048	1	
02NE88SB017	8/19/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.015	0.011	1	
02NE88SB017	8/19/2002	CS	SO	SW8260B	Ethylbenzene	ND	MG/KG	0.036	0.011	1	
02NE88SB017	8/19/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.036	0.0081	1	
02NE88SB017	8/19/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.036	0.011	1	
02NE88SB017	8/19/2002	CS	SO	SW8260B	Xylene, Isomers m & p	ND	MG/KG	0.036	0.02	1	
02NE88SB017	8/19/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	0.09	PERCENT	0.05	0.02	1	
02NE88SB018	8/19/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	ND	MG/KG	4.8	2.2	1	
02NE88SB018	8/19/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	7.6	MG/KG	11	5	1	VJ
02NE88SB018	8/19/2002	CS	SO	AK103	Residual Range Organics	12	MG/KG	110	4.6	1	VJ
02NE88SB018	8/19/2002	CS	SO	E160.3M	Total Solids	91.7	PERCENT			1	
02NE88SB018	8/19/2002	CS	SO	SIM	Acenaphthene	ND	MG/KG	.0055	.00023	1	
02NE88SB018	8/19/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0055	.00018	1	
02NE88SB018	8/19/2002	CS	SO	SIM	Anthracene	ND	MG/KG	.0055	.00021	1	
02NE88SB018	8/19/2002	CS	SO	SIM	Benzo(a)anthracene	ND	MG/KG	.0055	.00015	1	
02NE88SB018	8/19/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0055	.00016	1	
02NE88SB018	8/19/2002	CS	SO	SIM	Benzo(b)fluoranthene	.00034	MG/KG	.0055	.00016	1	VJ
02NE88SB018	8/19/2002	CS	SO	SIM	Benzo(g,h,i)perylene	ND	MG/KG	.0055	.00011	1	
02NE88SB018	8/19/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0055	.00017	1	
02NE88SB018	8/19/2002	CS	SO	SIM	Chrysene	.00032	MG/KG	.0055	.00017	1	VJ
02NE88SB018	8/19/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0055	.0002	1	
02NE88SB018	8/19/2002	CS	SO	SIM	Fluoranthene	ND	MG/KG	.0055	.00019	1	
02NE88SB018	8/19/2002	CS	SO	SIM	Fluorene	.00022	MG/KG	.0055	.00019	1	VJ
02NE88SB018	8/19/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0055	.00017	1	
02NE88SB018	8/19/2002	CS	SO	SIM	Naphthalene	.0019	MG/KG	.0055	.00023	1	VJ
02NE88SB018	8/19/2002	CS	SO	SIM	Phenanthrene	.00068	MG/KG	.0055	.00017	1	VJ
02NE88SB018	8/19/2002	CS	SO	SIM	Pyrene	.00014	MG/KG	.0055	.00012	1	VJ
02NE88SB018	8/19/2002	CS	SO	SW6020	Chromium	12.5	MG/KG	1.09	0.05	25	
02NE88SB018	8/19/2002	CS	SO	SW6020	Lead	17.8	MG/KG	0.27	0.16	25	
02NE88SB018	8/19/2002	CS	SO	SW6020	Zinc	48.4	MG/KG	2.73	0.33	25	

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB018	8/19/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.044	1	
02NE88SB018	8/19/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.22	0.0077	1	
02NE88SB018	8/19/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.018	1	
02NE88SB018	8/19/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0067	1	
02NE88SB018	8/19/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0046	1	
02NE88SB018	8/19/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.009	1	
02NE88SB018	8/19/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.0051	1	
02NE88SB018	8/19/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.016	0.012	1	
02NE88SB018	8/19/2002	CS	SO	SW8260B	Ethylbenzene	ND	MG/KG	0.038	0.011	1	
02NE88SB018	8/19/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.038	0.0086	1	
02NE88SB018	8/19/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.038	0.011	1	
02NE88SB018	8/19/2002	CS	SO	SW8260B	Xylene, Isomers m & p	ND	MG/KG	0.038	0.021	1	
02NE88SB018	8/19/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	0.11	PERCENT	0.05	0.02	1	
02NE88SB019	8/19/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	31	MG/KG	3.5	2.2	1	
02NE88SB019	8/19/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	1400	MG/KG	11	4.9	1	
02NE88SB019	8/19/2002	CS	SO	AK103	Residual Range Organics	ND	MG/KG	110	4.6	1	
02NE88SB019	8/19/2002	CS	SO	E160.3M	Total Solids	93.1	PERCENT			1	
02NE88SB019	8/19/2002	CS	SO	SIM	Acenaphthene	.045	MG/KG	.0054	.00023	1	
02NE88SB019	8/19/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0054	.00018	1	
02NE88SB019	8/19/2002	CS	SO	SIM	Anthracene	.0021	MG/KG	.0054	.00021	1	VJ
02NE88SB019	8/19/2002	CS	SO	SIM	Benzo(a)anthracene	ND	MG/KG	.0054	.00014	1	
02NE88SB019	8/19/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0054	.00016	1	
02NE88SB019	8/19/2002	CS	SO	SIM	Benzo(b)fluoranthene	.00018	MG/KG	.0054	.00016	1	VJ
02NE88SB019	8/19/2002	CS	SO	SIM	Benzo(g,h,i)perylene	ND	MG/KG	.0054	.00011	1	
02NE88SB019	8/19/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0054	.00017	1	
02NE88SB019	8/19/2002	CS	SO	SIM	Chrysene	.00035	MG/KG	.0054	.00017	1	VJ
02NE88SB019	8/19/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0054	.0002	1	
02NE88SB019	8/19/2002	CS	SO	SIM	Fluoranthene	.00019	MG/KG	.0054	.00019	1	VJ
02NE88SB019	8/19/2002	CS	SO	SIM	Fluorene	.16	MG/KG	.0054	.00019	1	
02NE88SB019	8/19/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0054	.00017	1	
02NE88SB019	8/19/2002	CS	SO	SIM	Naphthalene	.48	MG/KG	.0054	.00023	1	
02NE88SB019	8/19/2002	CS	SO	SIM	Phenanthrene	.05	MG/KG	.0054	.00017	1	
02NE88SB019	8/19/2002	CS	SO	SIM	Pyrene	.00062	MG/KG	.0054	.00012	1	VJ
02NE88SB019	8/19/2002	CS	SO	SW6020	Chromium	10	MG/KG	1.07	0.05	25	
02NE88SB019	8/19/2002	CS	SO	SW6020	Lead	43.7	MG/KG	0.27	0.16	25	
02NE88SB019	8/19/2002	CS	SO	SW6020	Zinc	92.4	MG/KG	2.69	0.32	25	
02NE88SB019	8/19/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.043	1	
02NE88SB019	8/19/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.22	0.0076	1	
02NE88SB019	8/19/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.018	1	
02NE88SB019	8/19/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0066	1	
02NE88SB019	8/19/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0046	1	
02NE88SB019	8/19/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.0089	1	
02NE88SB019	8/19/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.005	1	
02NE88SB019	8/19/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.015	0.012	1	
02NE88SB019	8/19/2002	CS	SO	SW8260B	Ethylbenzene	0.018	MG/KG	0.038	0.011	1	VJ
02NE88SB019	8/19/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.038	0.0085	1	
02NE88SB019	8/19/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.038	0.011	1	
02NE88SB019	8/19/2002	CS	SO	SW8260B	Xylene, Isomers m & p	ND	MG/KG	0.038	0.02	1	
02NE88SB019	8/19/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	0.1	PERCENT	0.05	0.02	1	
02NE88SB020	8/19/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	19	MG/KG	4.4	2.2	1	
02NE88SB020	8/19/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	750	MG/KG	11	4.9	1	
02NE88SB020	8/19/2002	CS	SO	AK103	Residual Range Organics	ND	MG/KG	110	4.6	1	

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB020	8/19/2002	CS	SO	E160.3M	Total Solids	92.8	PERCENT			1	
02NE88SB020	8/19/2002	CS	SO	SIM	Acenaphthene	.03	MG/KG	.0054	.00023	1	
02NE88SB020	8/19/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0054	.00018	1	
02NE88SB020	8/19/2002	CS	SO	SIM	Anthracene	.0019	MG/KG	.0054	.00021	1	VJ
02NE88SB020	8/19/2002	CS	SO	SIM	Benzo(a)anthracene	ND	MG/KG	.0054	.00015	1	
02NE88SB020	8/19/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0054	.00016	1	
02NE88SB020	8/19/2002	CS	SO	SIM	Benzo(b)fluoranthene	.0003	MG/KG	.0054	.00016	1	VJ
02NE88SB020	8/19/2002	CS	SO	SIM	Benzo(g,h,i)perylene	ND	MG/KG	.0054	.00011	1	
02NE88SB020	8/19/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0054	.00017	1	
02NE88SB020	8/19/2002	CS	SO	SIM	Chrysene	.00023	MG/KG	.0054	.00017	1	VJ
02NE88SB020	8/19/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0054	.0002	1	
02NE88SB020	8/19/2002	CS	SO	SIM	Fluoranthene	.00028	MG/KG	.0054	.00019	1	VJ
02NE88SB020	8/19/2002	CS	SO	SIM	Fluorene	.12	MG/KG	.0054	.00019	1	
02NE88SB020	8/19/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0054	.00017	1	
02NE88SB020	8/19/2002	CS	SO	SIM	Naphthalene	.11	MG/KG	.0054	.00023	1	
02NE88SB020	8/19/2002	CS	SO	SIM	Phenanthrene	.047	MG/KG	.0054	.00017	1	
02NE88SB020	8/19/2002	CS	SO	SIM	Pyrene	.0005	MG/KG	.0054	.00012	1	VJ
02NE88SB020	8/19/2002	CS	SO	SW6020	Chromium	4.8	MG/KG	1.08	0.05	25	
02NE88SB020	8/19/2002	CS	SO	SW6020	Lead	60.5	MG/KG	0.27	0.16	25	
02NE88SB020	8/19/2002	CS	SO	SW6020	Zinc	87.4	MG/KG	2.69	0.32	25	
02NE88SB020	8/19/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.044	1	
02NE88SB020	8/19/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.22	0.0076	1	
02NE88SB020	8/19/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.018	1	
02NE88SB020	8/19/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0066	1	
02NE88SB020	8/19/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0046	1	
02NE88SB020	8/19/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.0089	1	
02NE88SB020	8/19/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.005	1	
02NE88SB020	8/19/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.015	0.012	1	
02NE88SB020	8/19/2002	CS	SO	SW8260B	Ethylbenzene	ND	MG/KG	0.038	0.011	1	
02NE88SB020	8/19/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.038	0.0085	1	
02NE88SB020	8/19/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.038	0.011	1	
02NE88SB020	8/19/2002	CS	SO	SW8260B	Xylene, Isomers m & p	ND	MG/KG	0.038	0.021	1	
02NE88SB020	8/19/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	0.07	PERCENT	0.05	0.02	1	
02NE88SB021	8/17/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	70	MG/KG	9	4	1	
02NE88SB021	8/17/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	13000	MG/KG	390	180	10	
02NE88SB021	8/17/2002	CS	SO	AK103	Residual Range Organics	5100	MG/KG	3900	170	10	
02NE88SB021	8/17/2002	CS	SO	D4129	Total Organic Carbon (TOC)	16.3	PERCENT	0.05	0.02	1	
02NE88SB021	8/17/2002	CS	SO	E160.3M	Total Solids	50.8	PERCENT			1	
02NE88SB021	8/17/2002	CS	SO	SIM	Acenaphthene	.18	MG/KG	.05	.0021	1	
02NE88SB021	8/17/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.05	.0016	1	
02NE88SB021	8/17/2002	CS	SO	SIM	Anthracene	.012	MG/KG	.05	.0019	1	VJ
02NE88SB021	8/17/2002	CS	SO	SIM	Benzo(a)anthracene	ND	MG/KG	.05	.0013	1	
02NE88SB021	8/17/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.05	.0014	1	
02NE88SB021	8/17/2002	CS	SO	SIM	Benzo(b)fluoranthene	.0052	MG/KG	.05	.0014	1	VJ
02NE88SB021	8/17/2002	CS	SO	SIM	Benzo(g,h,i)perylene	ND	MG/KG	.05	.00099	1	
02NE88SB021	8/17/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.05	.0015	1	
02NE88SB021	8/17/2002	CS	SO	SIM	Chrysene	ND	MG/KG	.05	.0015	1	
02NE88SB021	8/17/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.05	.0018	1	
02NE88SB021	8/17/2002	CS	SO	SIM	Fluoranthene	.0029	MG/KG	.05	.0017	1	VJ
02NE88SB021	8/17/2002	CS	SO	SIM	Fluorene	.33	MG/KG	.05	.0017	1	
02NE88SB021	8/17/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.05	.0015	1	
02NE88SB021	8/17/2002	CS	SO	SIM	Naphthalene	12	MG/KG	.5	.021	10	

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB021	8/17/2002	CS	SO	SIM	Phenanthrene	.21	MG/KG	.05	.0015	1	
02NE88SB021	8/17/2002	CS	SO	SIM	Pyrene	.0059	MG/KG	.05	.0011	1	VJ
02NE88SB021	8/17/2002	CS	SO	SW6020	Chromium	16.5	MG/KG	0.39	0.02	5	
02NE88SB021	8/17/2002	CS	SO	SW6020	Lead	13.4	MG/KG	0.1	0.06	5	
02NE88SB021	8/17/2002	CS	SO	SW6020	Zinc	44.3	MG/KG	0.98	0.12	5	
02NE88SB021	8/17/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.2	0.079	1	
02NE88SB021	8/17/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.39	0.014	1	
02NE88SB021	8/17/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.2	0.032	1	
02NE88SB021	8/17/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.2	0.013	1	
02NE88SB021	8/17/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.2	0.0083	1	
02NE88SB021	8/17/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.2	0.017	1	
02NE88SB021	8/17/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.2	0.0091	1	
02NE88SB021	8/17/2002	CS	SO	SW8260B	Benzene	0.12	MG/KG	0.031	0.021	1	
02NE88SB021	8/17/2002	CS	SO	SW8260B	Ethylbenzene	1.3	MG/KG	0.078	0.02	1	
02NE88SB021	8/17/2002	CS	SO	SW8260B	o-Xylene	2.7	MG/KG	0.078	0.016	1	
02NE88SB021	8/17/2002	CS	SO	SW8260B	Toluene	3.2	MG/KG	0.078	0.02	1	
02NE88SB021	8/17/2002	CS	SO	SW8260B	Xylene, Isomers m & p	5.1	MG/KG	0.078	0.037	1	
02NE88SB022	8/17/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	99	MG/KG	8.1	4.4	1	
02NE88SB022	8/17/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	51000	MG/KG	260	120	10	
02NE88SB022	8/17/2002	CS	SO	AK103	Residual Range Organics	6000	MG/KG	2600	110	10	
02NE88SB022	8/17/2002	CS	SO	D4129	Total Organic Carbon (TOC)	14.9	PERCENT	0.05	0.02	1	
02NE88SB022	8/17/2002	CS	SO	E160.3M	Total Solids	46.3	PERCENT			1	
02NE88SB022	8/17/2002	CS	SO	SIM	Acenaphthene	2.6	MG/KG	.14	.0057	1	VHB
02NE88SB022	8/17/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.14	.0044	1	
02NE88SB022	8/17/2002	CS	SO	SIM	Anthracene	.3	MG/KG	.14	.0052	1	VHB
02NE88SB022	8/17/2002	CS	SO	SIM	Benzo(a)anthracene	.006	MG/KG	.14	.0036	1	VJ
02NE88SB022	8/17/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.14	.0038	1	
02NE88SB022	8/17/2002	CS	SO	SIM	Benzo(b)fluoranthene	.016	MG/KG	.14	.0038	1	VJ
02NE88SB022	8/17/2002	CS	SO	SIM	Benzo(g,h,i)perylene	ND	MG/KG	.14	.0027	1	
02NE88SB022	8/17/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.14	.0041	1	
02NE88SB022	8/17/2002	CS	SO	SIM	Chrysene	ND	MG/KG	.14	.0041	1	
02NE88SB022	8/17/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.14	.0049	1	
02NE88SB022	8/17/2002	CS	SO	SIM	Fluoranthene	.048	MG/KG	.14	.0046	1	VJ
02NE88SB022	8/17/2002	CS	SO	SIM	Fluorene	6.9	MG/KG	.14	.0046	1	VHB
02NE88SB022	8/17/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.14	.0041	1	
02NE88SB022	8/17/2002	CS	SO	SIM	Naphthalene	81	MG/KG	2.7	.12	20	
02NE88SB022	8/17/2002	CS	SO	SIM	Phenanthrene	5.5	MG/KG	.14	.0041	1	VHB
02NE88SB022	8/17/2002	CS	SO	SIM	Pyrene	.12	MG/KG	.14	.003	1	VJ
02NE88SB022	8/17/2002	CS	SO	SW6020	Chromium	23.7	MG/KG	0.43	0.02	5	
02NE88SB022	8/17/2002	CS	SO	SW6020	Lead	61.9	MG/KG	0.11	0.06	5	
02NE88SB022	8/17/2002	CS	SO	SW6020	Zinc	110	MG/KG	1.08	0.13	5	
02NE88SB022	8/17/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.22	0.087	1	
02NE88SB022	8/17/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.43	0.016	1	
02NE88SB022	8/17/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.22	0.035	1	
02NE88SB022	8/17/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.22	0.014	1	
02NE88SB022	8/17/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.22	0.0091	1	
02NE88SB022	8/17/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.22	0.018	1	
02NE88SB022	8/17/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.22	0.01	1	
02NE88SB022	8/17/2002	CS	SO	SW8260B	Benzene	0.19	MG/KG	0.039	0.023	1	
02NE88SB022	8/17/2002	CS	SO	SW8260B	Ethylbenzene	2.8	MG/KG	0.097	0.022	1	
02NE88SB022	8/17/2002	CS	SO	SW8260B	o-Xylene	6.2	MG/KG	0.097	0.017	1	
02NE88SB022	8/17/2002	CS	SO	SW8260B	Toluene	4.5	MG/KG	0.097	0.022	1	

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB022	8/17/2002	CS	SO	SW8260B	Xylene, Isomers m & p	12	MG/KG	0.097	0.041	1	
02NE88SB023	8/20/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	ND	MG/KG	5.2	2.7	1	
02NE88SB023	8/20/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	190	MG/KG	14	5.9	1	
02NE88SB023	8/20/2002	CS	SO	AK103	Residual Range Organics	1500	MG/KG	140	5.6	1	
02NE88SB023	8/20/2002	CS	SO	E160.3M	Total Solids	76.6	PERCENT			1	
02NE88SB023	8/20/2002	CS	SO	SIM	Acenaphthene	.00028	MG/KG	.0066	.00028	1	VJ
02NE88SB023	8/20/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0066	.00021	1	
02NE88SB023	8/20/2002	CS	SO	SIM	Anthracene	.00081	MG/KG	.0066	.00025	1	VJ
02NE88SB023	8/20/2002	CS	SO	SIM	Benzo(a)anthracene	.00027	MG/KG	.0066	.00017	1	VJ
02NE88SB023	8/20/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0066	.00019	1	
02NE88SB023	8/20/2002	CS	SO	SIM	Benzo(b)fluoranthene	.00048	MG/KG	.0066	.00019	1	VJ
02NE88SB023	8/20/2002	CS	SO	SIM	Benzo(g,h,i)perylene	.0002	MG/KG	.0066	.00014	1	VJ
02NE88SB023	8/20/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0066	.0002	1	
02NE88SB023	8/20/2002	CS	SO	SIM	Chrysene	.00067	MG/KG	.0066	.0002	1	VJ
02NE88SB023	8/20/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0066	.00024	1	
02NE88SB023	8/20/2002	CS	SO	SIM	Fluoranthene	.00088	MG/KG	.0066	.00023	1	VJ
02NE88SB023	8/20/2002	CS	SO	SIM	Fluorene	.00068	MG/KG	.0066	.00023	1	VJ
02NE88SB023	8/20/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0066	.0002	1	
02NE88SB023	8/20/2002	CS	SO	SIM	Naphthalene	.0045	MG/KG	.0066	.00028	1	VJ
02NE88SB023	8/20/2002	CS	SO	SIM	Phenanthrene	.0022	MG/KG	.0066	.0002	1	VJ
02NE88SB023	8/20/2002	CS	SO	SIM	Pyrene	.0008	MG/KG	.0066	.00015	1	VJ
02NE88SB023	8/20/2002	CS	SO	SW6020	Chromium	12.4	MG/KG	1.09	0.05	25	
02NE88SB023	8/20/2002	CS	SO	SW6020	Lead	8.45	MG/KG	0.27	0.16	25	
02NE88SB023	8/20/2002	CS	SO	SW6020	Zinc	30	MG/KG	2.72	0.33	25	
02NE88SB023	8/20/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.14	0.053	1	
02NE88SB023	8/20/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.27	0.0092	1	
02NE88SB023	8/20/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.14	0.021	1	
02NE88SB023	8/20/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.14	0.008	1	
02NE88SB023	8/20/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.14	0.0055	1	
02NE88SB023	8/20/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.14	0.011	1	
02NE88SB023	8/20/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.14	0.0061	1	
02NE88SB023	8/20/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.022	0.014	1	
02NE88SB023	8/20/2002	CS	SO	SW8260B	Ethylbenzene	ND	MG/KG	0.054	0.013	1	
02NE88SB023	8/20/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.054	0.011	1	
02NE88SB023	8/20/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.054	0.013	1	
02NE88SB023	8/20/2002	CS	SO	SW8260B	Xylene, Isomers m & p	ND	MG/KG	0.054	0.025	1	
02NE88SB023	8/20/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	8.09	PERCENT	0.05	0.02	1	
02NE88SB024	8/20/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	ND	MG/KG	3.8	2.2	1	
02NE88SB024	8/20/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	20	MG/KG	11	4.9	1	
02NE88SB024	8/20/2002	CS	SO	AK103	Residual Range Organics	33	MG/KG	110	4.6	1	VJ
02NE88SB024	8/20/2002	CS	SO	E160.3M	Total Solids	92.3	PERCENT			1	
02NE88SB024	8/20/2002	CS	SO	SIM	Acenaphthene	ND	MG/KG	.0055	.00023	1	
02NE88SB024	8/20/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0055	.00018	1	
02NE88SB024	8/20/2002	CS	SO	SIM	Anthracene	ND	MG/KG	.0055	.00021	1	
02NE88SB024	8/20/2002	CS	SO	SIM	Benzo(a)anthracene	ND	MG/KG	.0055	.00015	1	
02NE88SB024	8/20/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0055	.00016	1	
02NE88SB024	8/20/2002	CS	SO	SIM	Benzo(b)fluoranthene	.00027	MG/KG	.0055	.00016	1	VJ
02NE88SB024	8/20/2002	CS	SO	SIM	Benzo(g,h,i)perylene	ND	MG/KG	.0055	.00011	1	
02NE88SB024	8/20/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0055	.00017	1	
02NE88SB024	8/20/2002	CS	SO	SIM	Chrysene	ND	MG/KG	.0055	.00017	1	
02NE88SB024	8/20/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0055	.0002	1	
02NE88SB024	8/20/2002	CS	SO	SIM	Fluoranthene	.00019	MG/KG	.0055	.00019	1	VJ

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB024	8/20/2002	CS	SO	SIM	Fluorene	.00051	MG/KG	.0055	.00019	1	VJ
02NE88SB024	8/20/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0055	.00017	1	
02NE88SB024	8/20/2002	CS	SO	SIM	Naphthalene	.0011	MG/KG	.0055	.00023	1	VJ
02NE88SB024	8/20/2002	CS	SO	SIM	Phenanthrene	.00084	MG/KG	.0055	.00017	1	VJ
02NE88SB024	8/20/2002	CS	SO	SIM	Pyrene	.00017	MG/KG	.0055	.00012	1	VJ
02NE88SB024	8/20/2002	CS	SO	SW6020	Chromium	9.62	MG/KG	1.08	0.05	25	
02NE88SB024	8/20/2002	CS	SO	SW6020	Lead	17.3	MG/KG	0.27	0.16	25	
02NE88SB024	8/20/2002	CS	SO	SW6020	Zinc	44.5	MG/KG	2.71	0.33	25	
02NE88SB024	8/20/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.044	1	
02NE88SB024	8/20/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.22	0.0076	1	
02NE88SB024	8/20/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.018	1	
02NE88SB024	8/20/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0067	1	
02NE88SB024	8/20/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0046	1	
02NE88SB024	8/20/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.0089	1	
02NE88SB024	8/20/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.005	1	
02NE88SB024	8/20/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.017	0.012	1	
02NE88SB024	8/20/2002	CS	SO	SW8260B	Ethylbenzene	ND	MG/KG	0.043	0.011	1	
02NE88SB024	8/20/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.043	0.0086	1	
02NE88SB024	8/20/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.043	0.011	1	
02NE88SB024	8/20/2002	CS	SO	SW8260B	Xylene, Isomers m & p	ND	MG/KG	0.043	0.021	1	
02NE88SB024	8/20/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	0.15	PERCENT	0.05	0.02	1	
02NE88SB025	8/20/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	11	MG/KG	19	7.4	1	VJ
02NE88SB025	8/20/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	430	MG/KG	40	18	1	
02NE88SB025	8/20/2002	CS	SO	AK103	Residual Range Organics	4600	MG/KG	400	17	1	
02NE88SB025	8/20/2002	CS	SO	E160.3M	Total Solids	48.5	PERCENT			1	
02NE88SB025	8/20/2002	CS	SO	SIM	Acenaphthene	.0026	MG/KG	.021	.00087	2	VJ
02NE88SB025	8/20/2002	CS	SO	SIM	Acenaphthylene	.0011	MG/KG	.021	.00066	2	VJ
02NE88SB025	8/20/2002	CS	SO	SIM	Anthracene	ND	MG/KG	.021	.00079	2	
02NE88SB025	8/20/2002	CS	SO	SIM	Benzo(a)anthracene	ND	MG/KG	.021	.00054	2	
02NE88SB025	8/20/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.021	.00058	2	
02NE88SB025	8/20/2002	CS	SO	SIM	Benzo(b)fluoranthene	.021	MG/KG	.021	.00058	2	VJ
02NE88SB025	8/20/2002	CS	SO	SIM	Benzo(g,h,i)perylene	.0088	MG/KG	.021	.00042	2	VJ
02NE88SB025	8/20/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.021	.00062	2	
02NE88SB025	8/20/2002	CS	SO	SIM	Chrysene	ND	MG/KG	.021	.00062	2	
02NE88SB025	8/20/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.021	.00075	2	
02NE88SB025	8/20/2002	CS	SO	SIM	Fluoranthene	.0025	MG/KG	.021	.00071	2	VJ
02NE88SB025	8/20/2002	CS	SO	SIM	Fluorene	.006	MG/KG	.021	.00071	2	VJ
02NE88SB025	8/20/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.021	.00062	2	
02NE88SB025	8/20/2002	CS	SO	SIM	Naphthalene	.042	MG/KG	.021	.00087	2	
02NE88SB025	8/20/2002	CS	SO	SIM	Phenanthrene	.0083	MG/KG	.021	.00062	2	VJ
02NE88SB025	8/20/2002	CS	SO	SIM	Pyrene	.0026	MG/KG	.021	.00046	2	VJ
02NE88SB025	8/20/2002	CS	SO	SW6020	Chromium	16.5	MG/KG	0.83	0.04	25	
02NE88SB025	8/20/2002	CS	SO	SW6020	Lead	9.91	MG/KG	0.21	0.12	25	
02NE88SB025	8/20/2002	CS	SO	SW6020	Zinc	42	MG/KG	2.06	0.25	25	
02NE88SB025	8/20/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.21	0.083	1	
02NE88SB025	8/20/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.42	0.015	1	
02NE88SB025	8/20/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.21	0.033	1	
02NE88SB025	8/20/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.21	0.013	1	
02NE88SB025	8/20/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.21	0.0087	1	
02NE88SB025	8/20/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.21	0.017	1	
02NE88SB025	8/20/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.21	0.0095	1	
02NE88SB025	8/20/2002	CS	SO	SW8260B	Benzene	0.37	MG/KG	0.069	0.036	1	

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB025	8/20/2002	CS	SO	SW8260B	Ethylbenzene	0.034	MG/KG	0.18	0.034	1	VJ
02NE88SB025	8/20/2002	CS	SO	SW8260B	o-Xylene	0.071	MG/KG	0.18	0.027	1	VJ
02NE88SB025	8/20/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.18	0.034	1	
02NE88SB025	8/20/2002	CS	SO	SW8260B	Xylene, Isomers m & p	0.19	MG/KG	0.18	0.064	1	
02NE88SB025	8/20/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	16.5	PERCENT	0.05	0.02	1	
02NE88SB026	8/20/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	ND	MG/KG	6.1	3.1	1	
02NE88SB026	8/20/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	77	MG/KG	28	13	1	
02NE88SB026	8/20/2002	CS	SO	AK103	Residual Range Organics	420	MG/KG	280	12	1	
02NE88SB026	8/20/2002	CS	SO	E160.3M	Total Solids	66.3	PERCENT			1	
02NE88SB026	8/20/2002	CS	SO	SIM	Acenaphthene	.00037	MG/KG	.0076	.00032	1	VJ
02NE88SB026	8/20/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0076	.00025	1	
02NE88SB026	8/20/2002	CS	SO	SIM	Anthracene	ND	MG/KG	.0076	.00029	1	
02NE88SB026	8/20/2002	CS	SO	SIM	Benzo(a)anthracene	ND	MG/KG	.0076	.0002	1	
02NE88SB026	8/20/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0076	.00022	1	
02NE88SB026	8/20/2002	CS	SO	SIM	Benzo(b)fluoranthene	.00057	MG/KG	.0076	.00022	1	VJ
02NE88SB026	8/20/2002	CS	SO	SIM	Benzo(g,h,i)perylene	.00021	MG/KG	.0076	.00016	1	VJ
02NE88SB026	8/20/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0076	.00023	1	
02NE88SB026	8/20/2002	CS	SO	SIM	Chrysene	.0029	MG/KG	.0076	.00023	1	VJ
02NE88SB026	8/20/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0076	.00028	1	
02NE88SB026	8/20/2002	CS	SO	SIM	Fluoranthene	.0004	MG/KG	.0076	.00026	1	VJ
02NE88SB026	8/20/2002	CS	SO	SIM	Fluorene	.00061	MG/KG	.0076	.00026	1	VJ
02NE88SB026	8/20/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0076	.00023	1	
02NE88SB026	8/20/2002	CS	SO	SIM	Naphthalene	.0018	MG/KG	.0076	.00032	1	VJ
02NE88SB026	8/20/2002	CS	SO	SIM	Phenanthrene	.0027	MG/KG	.0076	.00023	1	VJ
02NE88SB026	8/20/2002	CS	SO	SIM	Pyrene	.0004	MG/KG	.0076	.00017	1	VJ
02NE88SB026	8/20/2002	CS	SO	SW6020	Chromium	14.3	MG/KG	0.75	0.04	25	
02NE88SB026	8/20/2002	CS	SO	SW6020	Lead	21.4	MG/KG	0.19	0.11	25	
02NE88SB026	8/20/2002	CS	SO	SW6020	Zinc	77.5	MG/KG	1.89	0.23	25	
02NE88SB026	8/20/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.15	0.061	1	
02NE88SB026	8/20/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.3	0.011	1	
02NE88SB026	8/20/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.15	0.025	1	
02NE88SB026	8/20/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.15	0.0093	1	
02NE88SB026	8/20/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.15	0.0064	1	
02NE88SB026	8/20/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.15	0.013	1	
02NE88SB026	8/20/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.15	0.007	1	
02NE88SB026	8/20/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.022	0.016	1	
02NE88SB026	8/20/2002	CS	SO	SW8260B	Ethylbenzene	ND	MG/KG	0.054	0.015	1	
02NE88SB026	8/20/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.054	0.012	1	
02NE88SB026	8/20/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.054	0.015	1	
02NE88SB026	8/20/2002	CS	SO	SW8260B	Xylene, Isomers m & p	ND	MG/KG	0.054	0.029	1	
02NE88SB026	8/20/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	1.62	PERCENT	0.05	0.02	1	
02NE88SB027	8/20/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	220	MG/KG	5.4	2.5	1	VHB
02NE88SB027	8/20/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	47000	MG/KG	250	110	20	
02NE88SB027	8/20/2002	CS	SO	AK103	Residual Range Organics	3000	MG/KG	130	5.2	1	
02NE88SB027	8/20/2002	CS	SO	E160.3M	Total Solids	82.3	PERCENT			1	
02NE88SB027	8/20/2002	CS	SO	SIM	Acenaphthene	1.3	MG/KG	.031	.0013	5	
02NE88SB027	8/20/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.031	.00098	5	
02NE88SB027	8/20/2002	CS	SO	SIM	Anthracene	.12	MG/KG	.031	.0012	5	
02NE88SB027	8/20/2002	CS	SO	SIM	Benzo(a)anthracene	.012	MG/KG	.031	.00079	5	VJ
02NE88SB027	8/20/2002	CS	SO	SIM	Benzo(a)pyrene	.0032	MG/KG	.031	.00086	5	VJ
02NE88SB027	8/20/2002	CS	SO	SIM	Benzo(b)fluoranthene	.007	MG/KG	.031	.00086	5	VJ
02NE88SB027	8/20/2002	CS	SO	SIM	Benzo(g,h,i)perylene	.0016	MG/KG	.031	.00061	5	VJ

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB027	8/20/2002	CS	SO	SIM	Benzo(k)fluoranthene	.0033	MG/KG	.031	.00092	5	VJ
02NE88SB027	8/20/2002	CS	SO	SIM	Chrysene	.024	MG/KG	.031	.00092	5	VJ
02NE88SB027	8/20/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.031	.0011	5	
02NE88SB027	8/20/2002	CS	SO	SIM	Fluoranthene	.033	MG/KG	.031	.0011	5	
02NE88SB027	8/20/2002	CS	SO	SIM	Fluorene	3.9	MG/KG	.031	.0011	5	
02NE88SB027	8/20/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	.0018	MG/KG	.031	.00092	5	VJ
02NE88SB027	8/20/2002	CS	SO	SIM	Naphthalene	79	MG/KG	3.1	.13	500	
02NE88SB027	8/20/2002	CS	SO	SIM	Phenanthrene	2.7	MG/KG	.031	.00092	5	
02NE88SB027	8/20/2002	CS	SO	SIM	Pyrene	.06	MG/KG	.031	.00067	5	
02NE88SB027	8/20/2002	CS	SO	SW6020	Chromium	22.7	MG/KG	1.22	0.06	25	
02NE88SB027	8/20/2002	CS	SO	SW6020	Lead	21.8	MG/KG	0.3	0.18	25	
02NE88SB027	8/20/2002	CS	SO	SW6020	Zinc	82.1	MG/KG	3.04	0.37	25	
02NE88SB027	8/20/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.13	0.049	1	
02NE88SB027	8/20/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.25	0.0086	1	
02NE88SB027	8/20/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.13	0.02	1	
02NE88SB027	8/20/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.13	0.0075	1	
02NE88SB027	8/20/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.13	0.0052	1	
02NE88SB027	8/20/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.13	0.01	1	
02NE88SB027	8/20/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	0.035	MG/KG	0.13	0.0056	1	VJ
02NE88SB027	8/20/2002	CS	SO	SW8260B	Benzene	0.019	MG/KG	0.017	0.013	1	
02NE88SB027	8/20/2002	CS	SO	SW8260B	Ethylbenzene	0.066	MG/KG	0.041	0.012	1	
02NE88SB027	8/20/2002	CS	SO	SW8260B	o-Xylene	1.7	MG/KG	0.041	0.0096	1	
02NE88SB027	8/20/2002	CS	SO	SW8260B	Toluene	0.036	MG/KG	0.041	0.012	1	VJ
02NE88SB027	8/20/2002	CS	SO	SW8260B	Xylene, Isomers m & p	0.71	MG/KG	0.041	0.023	1	
02NE88SB027	8/20/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	4.67	PERCENT	0.05	0.02	1	
02NE88SB028	8/20/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	62	MG/KG	4.5	2.8	1	
02NE88SB028	8/20/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	210	MG/KG	25	12	1	
02NE88SB028	8/20/2002	CS	SO	AK103	Residual Range Organics	900	MG/KG	250	11	1	
02NE88SB028	8/20/2002	CS	SO	E160.3M	Total Solids	72.4	PERCENT			1	
02NE88SB028	8/20/2002	CS	SO	SIM	Acenaphthene	.012	MG/KG	.0069	.0003	1	
02NE88SB028	8/20/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0069	.00023	1	
02NE88SB028	8/20/2002	CS	SO	SIM	Anthracene	.00076	MG/KG	.0069	.00027	1	VJ
02NE88SB028	8/20/2002	CS	SO	SIM	Benzo(a)anthracene	.00032	MG/KG	.0069	.00018	1	VJ
02NE88SB028	8/20/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0069	.0002	1	
02NE88SB028	8/20/2002	CS	SO	SIM	Benzo(b)fluoranthene	.0012	MG/KG	.0069	.0002	1	VJ
02NE88SB028	8/20/2002	CS	SO	SIM	Benzo(g,h,i)perylene	.00048	MG/KG	.0069	.00014	1	VJ
02NE88SB028	8/20/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0069	.00021	1	
02NE88SB028	8/20/2002	CS	SO	SIM	Chrysene	.0029	MG/KG	.0069	.00021	1	VJ
02NE88SB028	8/20/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0069	.00025	1	
02NE88SB028	8/20/2002	CS	SO	SIM	Fluoranthene	.00069	MG/KG	.0069	.00024	1	VJ
02NE88SB028	8/20/2002	CS	SO	SIM	Fluorene	.04	MG/KG	.0069	.00024	1	
02NE88SB028	8/20/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0069	.00021	1	
02NE88SB028	8/20/2002	CS	SO	SIM	Naphthalene	.41	MG/KG	.0069	.0003	1	
02NE88SB028	8/20/2002	CS	SO	SIM	Phenanthrene	.025	MG/KG	.0069	.00021	1	
02NE88SB028	8/20/2002	CS	SO	SIM	Pyrene	.001	MG/KG	.0069	.00016	1	VJ
02NE88SB028	8/20/2002	CS	SO	SW6020	Chromium	22.8	MG/KG	1.15	0.06	25	
02NE88SB028	8/20/2002	CS	SO	SW6020	Lead	11.6	MG/KG	0.29	0.17	25	
02NE88SB028	8/20/2002	CS	SO	SW6020	Zinc	59.9	MG/KG	2.88	0.35	25	
02NE88SB028	8/20/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.14	0.056	1	
02NE88SB028	8/20/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.28	0.0097	1	
02NE88SB028	8/20/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.14	0.023	1	
02NE88SB028	8/20/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.14	0.0085	1	

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB028	8/20/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.14	0.0059	1	
02NE88SB028	8/20/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.14	0.012	1	
02NE88SB028	8/20/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.14	0.0064	1	
02NE88SB028	8/20/2002	CS	SO	SW8260B	Benzene	0.024	MG/KG	0.018	0.015	1	
02NE88SB028	8/20/2002	CS	SO	SW8260B	Ethylbenzene	0.19	MG/KG	0.045	0.014	1	
02NE88SB028	8/20/2002	CS	SO	SW8260B	o-Xylene	1.7	MG/KG	0.045	0.011	1	
02NE88SB028	8/20/2002	CS	SO	SW8260B	Toluene	1.4	MG/KG	0.045	0.014	1	
02NE88SB028	8/20/2002	CS	SO	SW8260B	Xylene, Isomers m & p	1.3	MG/KG	0.045	0.026	1	
02NE88SB028	8/20/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	2.79	PERCENT	0.05	0.02	1	
02NE88SB029	8/20/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	ND	MG/KG	4.9	2.5	1	
02NE88SB029	8/20/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	33	MG/KG	13	5.6	1	
02NE88SB029	8/20/2002	CS	SO	AK103	Residual Range Organics	150	MG/KG	130	5.3	1	
02NE88SB029	8/20/2002	CS	SO	E160.3M	Total Solids	80.7	PERCENT			1	
02NE88SB029	8/20/2002	CS	SO	SIM	Acenaphthene	.00038	MG/KG	.0062	.00027	1	VJ
02NE88SB029	8/20/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0062	.0002	1	
02NE88SB029	8/20/2002	CS	SO	SIM	Anthracene	.0003	MG/KG	.0062	.00024	1	VJ
02NE88SB029	8/20/2002	CS	SO	SIM	Benzo(a)anthracene	.00024	MG/KG	.0062	.00017	1	VJ
02NE88SB029	8/20/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0062	.00018	1	
02NE88SB029	8/20/2002	CS	SO	SIM	Benzo(b)fluoranthene	ND	MG/KG	.0062	.00018	1	
02NE88SB029	8/20/2002	CS	SO	SIM	Benzo(g,h,i)perylene	.00024	MG/KG	.0062	.00013	1	VJ
02NE88SB029	8/20/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0062	.00019	1	
02NE88SB029	8/20/2002	CS	SO	SIM	Chrysene	.0013	MG/KG	.0062	.00019	1	VJ
02NE88SB029	8/20/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0062	.00023	1	
02NE88SB029	8/20/2002	CS	SO	SIM	Fluoranthene	.00077	MG/KG	.0062	.00022	1	VJ
02NE88SB029	8/20/2002	CS	SO	SIM	Fluorene	.0012	MG/KG	.0062	.00022	1	VJ
02NE88SB029	8/20/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0062	.00019	1	
02NE88SB029	8/20/2002	CS	SO	SIM	Naphthalene	.016	MG/KG	.0062	.00027	1	
02NE88SB029	8/20/2002	CS	SO	SIM	Phenanthrene	.0034	MG/KG	.0062	.00019	1	VJ
02NE88SB029	8/20/2002	CS	SO	SIM	Pyrene	.00066	MG/KG	.0062	.00014	1	VJ
02NE88SB029	8/20/2002	CS	SO	SW6020	Chromium	23	MG/KG	1.03	0.05	25	
02NE88SB029	8/20/2002	CS	SO	SW6020	Lead	12	MG/KG	0.26	0.16	25	
02NE88SB029	8/20/2002	CS	SO	SW6020	Zinc	61.9	MG/KG	2.58	0.31	25	
02NE88SB029	8/20/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.13	0.05	1	
02NE88SB029	8/20/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.25	0.0087	1	
02NE88SB029	8/20/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.13	0.02	1	
02NE88SB029	8/20/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.13	0.0076	1	
02NE88SB029	8/20/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.13	0.0053	1	
02NE88SB029	8/20/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.13	0.011	1	
02NE88SB029	8/20/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.13	0.0058	1	
02NE88SB029	8/20/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.018	0.014	1	
02NE88SB029	8/20/2002	CS	SO	SW8260B	Ethylbenzene	ND	MG/KG	0.044	0.013	1	
02NE88SB029	8/20/2002	CS	SO	SW8260B	o-Xylene	0.01	MG/KG	0.044	0.0098	1	VJ
02NE88SB029	8/20/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.044	0.013	1	
02NE88SB029	8/20/2002	CS	SO	SW8260B	Xylene, Isomers m & p	ND	MG/KG	0.044	0.024	1	
02NE88SB029	8/20/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	0.6	PERCENT	0.05	0.02	1	
02NE88SB030	8/20/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	ND	MG/KG	4.4	2.6	1	
02NE88SB030	8/20/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	79	MG/KG	13	5.8	1	
02NE88SB030	8/20/2002	CS	SO	AK103	Residual Range Organics	590	MG/KG	130	5.5	1	
02NE88SB030	8/20/2002	CS	SO	E160.3M	Total Solids	78	PERCENT			1	
02NE88SB030	8/20/2002	CS	SO	SIM	Acenaphthene	ND	MG/KG	.0064	.00027	1	
02NE88SB030	8/20/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0064	.00021	1	
02NE88SB030	8/20/2002	CS	SO	SIM	Anthracene	ND	MG/KG	.0064	.00025	1	

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB030	8/20/2002	CS	SO	SIM	Benzo(a)anthracene	ND	MG/KG	.0064	.00017	1	
02NE88SB030	8/20/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0064	.00018	1	
02NE88SB030	8/20/2002	CS	SO	SIM	Benzo(b)fluoranthene	.0017	MG/KG	.0064	.00018	1	VJ
02NE88SB030	8/20/2002	CS	SO	SIM	Benzo(g,h,i)perylene	.00044	MG/KG	.0064	.00013	1	VJ
02NE88SB030	8/20/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0064	.0002	1	
02NE88SB030	8/20/2002	CS	SO	SIM	Chrysene	.0021	MG/KG	.0064	.0002	1	VJ
02NE88SB030	8/20/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0064	.00024	1	
02NE88SB030	8/20/2002	CS	SO	SIM	Fluoranthene	.00044	MG/KG	.0064	.00022	1	VJ
02NE88SB030	8/20/2002	CS	SO	SIM	Fluorene	.00087	MG/KG	.0064	.00022	1	VJ
02NE88SB030	8/20/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0064	.0002	1	
02NE88SB030	8/20/2002	CS	SO	SIM	Naphthalene	.0047	MG/KG	.0064	.00027	1	VJ
02NE88SB030	8/20/2002	CS	SO	SIM	Phenanthrene	.0055	MG/KG	.0064	.0002	1	VJ
02NE88SB030	8/20/2002	CS	SO	SIM	Pyrene	.00066	MG/KG	.0064	.00015	1	VJ
02NE88SB030	8/20/2002	CS	SO	SW6020	Chromium	23.4	MG/KG	1.07	0.05	25	
02NE88SB030	8/20/2002	CS	SO	SW6020	Lead	12.4	MG/KG	0.27	0.16	25	
02NE88SB030	8/20/2002	CS	SO	SW6020	Zinc	60.9	MG/KG	2.67	0.32	25	
02NE88SB030	8/20/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.13	0.052	1	
02NE88SB030	8/20/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.26	0.009	1	
02NE88SB030	8/20/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.13	0.021	1	
02NE88SB030	8/20/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.13	0.0079	1	
02NE88SB030	8/20/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.13	0.0054	1	
02NE88SB030	8/20/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.13	0.011	1	
02NE88SB030	8/20/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.13	0.0059	1	
02NE88SB030	8/20/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.021	0.014	1	
02NE88SB030	8/20/2002	CS	SO	SW8260B	Ethylbenzene	ND	MG/KG	0.052	0.013	1	
02NE88SB030	8/20/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.052	0.011	1	
02NE88SB030	8/20/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.052	0.013	1	
02NE88SB030	8/20/2002	CS	SO	SW8260B	Xylene, Isomers m & p	ND	MG/KG	0.052	0.024	1	
02NE88SB030	8/20/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	2.26	PERCENT	0.05	0.02	1	
02NE88SB031	8/20/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	110	MG/KG	4	2.2	1	VHB
02NE88SB031	8/20/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	16000	MG/KG	110	50	10	
02NE88SB031	8/20/2002	CS	SO	AK103	Residual Range Organics	33	MG/KG	110	4.7	1	VJ
02NE88SB031	8/20/2002	CS	SO	E160.3M	Total Solids	91.1	PERCENT			1	
02NE88SB031	8/20/2002	CS	SO	SIM	Acenaphthene	.85	MG/KG	.055	.0024	10	
02NE88SB031	8/20/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.055	.0018	10	
02NE88SB031	8/20/2002	CS	SO	SIM	Anthracene	.043	MG/KG	.0055	.00021	1	
02NE88SB031	8/20/2002	CS	SO	SIM	Benzo(a)anthracene	.0017	MG/KG	.0055	.00015	1	VJ
02NE88SB031	8/20/2002	CS	SO	SIM	Benzo(a)pyrene	.00041	MG/KG	.0055	.00016	1	VJ
02NE88SB031	8/20/2002	CS	SO	SIM	Benzo(b)fluoranthene	.0017	MG/KG	.0055	.00016	1	VJ
02NE88SB031	8/20/2002	CS	SO	SIM	Benzo(g,h,i)perylene	.00045	MG/KG	.0055	.00011	1	VJ
02NE88SB031	8/20/2002	CS	SO	SIM	Benzo(k)fluoranthene	.0016	MG/KG	.0055	.00017	1	VJ
02NE88SB031	8/20/2002	CS	SO	SIM	Chrysene	.0038	MG/KG	.0055	.00017	1	VJ
02NE88SB031	8/20/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0055	.0002	1	
02NE88SB031	8/20/2002	CS	SO	SIM	Fluoranthene	.0058	MG/KG	.0055	.00019	1	
02NE88SB031	8/20/2002	CS	SO	SIM	Fluorene	2.7	MG/KG	.055	.0019	10	
02NE88SB031	8/20/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	.00019	MG/KG	.0055	.00017	1	VJ
02NE88SB031	8/20/2002	CS	SO	SIM	Naphthalene	28	MG/KG	.55	.024	100	
02NE88SB031	8/20/2002	CS	SO	SIM	Phenanthrene	.95	MG/KG	.0055	.00017	1	
02NE88SB031	8/20/2002	CS	SO	SIM	Pyrene	.01	MG/KG	.0055	.00013	1	
02NE88SB031	8/20/2002	CS	SO	SW6020	Chromium	15.6	MG/KG	1.1	0.05	25	
02NE88SB031	8/20/2002	CS	SO	SW6020	Lead	12.4	MG/KG	0.27	0.17	25	
02NE88SB031	8/20/2002	CS	SO	SW6020	Zinc	46.7	MG/KG	2.74	0.33	25	

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB031	8/20/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.044	1	
02NE88SB031	8/20/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.22	0.0077	1	
02NE88SB031	8/20/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.018	1	
02NE88SB031	8/20/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0067	1	
02NE88SB031	8/20/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0047	1	
02NE88SB031	8/20/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.0091	1	
02NE88SB031	8/20/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.0051	1	
02NE88SB031	8/20/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.015	0.012	1	
02NE88SB031	8/20/2002	CS	SO	SW8260B	Ethylbenzene	1	MG/KG	0.036	0.011	1	
02NE88SB031	8/20/2002	CS	SO	SW8260B	o-Xylene	0.015	MG/KG	0.036	0.0087	1	VJ
02NE88SB031	8/20/2002	CS	SO	SW8260B	Toluene	0.032	MG/KG	0.036	0.011	1	VJ
02NE88SB031	8/20/2002	CS	SO	SW8260B	Xylene, Isomers m & p	1.8	MG/KG	0.036	0.021	1	
02NE88SB031	8/20/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	0.34	PERCENT	0.05	0.02	1	
02NE88SB032	8/20/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	60	MG/KG	4.5	2.2	1	VHB
02NE88SB032	8/20/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	4200	MG/KG	11	4.9	1	
02NE88SB032	8/20/2002	CS	SO	AK103	Residual Range Organics	12	MG/KG	110	4.6	1	VJ
02NE88SB032	8/20/2002	CS	SO	E160.3M	Total Solids	93.5	PERCENT			1	
02NE88SB032	8/20/2002	CS	SO	SIM	Acenaphthene	.11	MG/KG	.0054	.00023	1	VLB
02NE88SB032	8/20/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0054	.00018	1	
02NE88SB032	8/20/2002	CS	SO	SIM	Anthracene	.011	MG/KG	.0054	.00021	1	VLB
02NE88SB032	8/20/2002	CS	SO	SIM	Benzo(a)anthracene	.00037	MG/KG	.0054	.00014	1	VJ
02NE88SB032	8/20/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0054	.00015	1	
02NE88SB032	8/20/2002	CS	SO	SIM	Benzo(b)fluoranthene	.00042	MG/KG	.0054	.00015	1	VJ
02NE88SB032	8/20/2002	CS	SO	SIM	Benzo(g,h,i)perylene	ND	MG/KG	.0054	.00011	1	
02NE88SB032	8/20/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0054	.00017	1	
02NE88SB032	8/20/2002	CS	SO	SIM	Chrysene	.00094	MG/KG	.0054	.00017	1	VJ
02NE88SB032	8/20/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0054	.0002	1	
02NE88SB032	8/20/2002	CS	SO	SIM	Fluoranthene	.0017	MG/KG	.0054	.00019	1	VJ
02NE88SB032	8/20/2002	CS	SO	SIM	Fluorene	.47	MG/KG	.0054	.00019	1	VLB
02NE88SB032	8/20/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0054	.00017	1	
02NE88SB032	8/20/2002	CS	SO	SIM	Naphthalene	.9	MG/KG	.0054	.00023	1	VLB
02NE88SB032	8/20/2002	CS	SO	SIM	Phenanthrene	.27	MG/KG	.0054	.00017	1	VLB
02NE88SB032	8/20/2002	CS	SO	SIM	Pyrene	.0035	MG/KG	.0054	.00012	1	VJ
02NE88SB032	8/20/2002	CS	SO	SW6020	Chromium	6.7	MG/KG	1.07	0.05	25	
02NE88SB032	8/20/2002	CS	SO	SW6020	Lead	29.6	MG/KG	0.27	0.16	25	
02NE88SB032	8/20/2002	CS	SO	SW6020	Zinc	60.8	MG/KG	2.67	0.32	25	
02NE88SB032	8/20/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.043	1	
02NE88SB032	8/20/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.22	0.0075	1	
02NE88SB032	8/20/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.018	1	
02NE88SB032	8/20/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0066	1	
02NE88SB032	8/20/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0045	1	
02NE88SB032	8/20/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.0088	1	
02NE88SB032	8/20/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.005	1	
02NE88SB032	8/20/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.017	0.012	1	
02NE88SB032	8/20/2002	CS	SO	SW8260B	Ethylbenzene	0.025	MG/KG	0.041	0.011	1	VJ
02NE88SB032	8/20/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.041	0.0084	1	
02NE88SB032	8/20/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.041	0.011	1	
02NE88SB032	8/20/2002	CS	SO	SW8260B	Xylene, Isomers m & p	0.043	MG/KG	0.041	0.02	1	
02NE88SB032	8/20/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	0.12	PERCENT	0.05	0.02	1	
02NE88SB033	8/21/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	130	MG/KG	2.6	2.4	1	VHB
02NE88SB033	8/21/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	4700	MG/KG	120	53	10	
02NE88SB033	8/21/2002	CS	SO	AK103	Residual Range Organics	450	MG/KG	120	4.9	1	

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB033	8/21/2002	CS	SO	E160.3M	Total Solids	86.5	PERCENT			1	
02NE88SB033	8/21/2002	CS	SO	SIM	Acenaphthene	.19	MG/KG	.0058	.00025	1	
02NE88SB033	8/21/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0058	.00019	1	
02NE88SB033	8/21/2002	CS	SO	SIM	Anthracene	.0085	MG/KG	.0058	.00022	1	
02NE88SB033	8/21/2002	CS	SO	SIM	Benzo(a)anthracene	.001	MG/KG	.0058	.00016	1	VJ
02NE88SB033	8/21/2002	CS	SO	SIM	Benzo(a)pyrene	.00028	MG/KG	.0058	.00017	1	VJ
02NE88SB033	8/21/2002	CS	SO	SIM	Benzo(b)fluoranthene	.0013	MG/KG	.0058	.00017	1	VJ
02NE88SB033	8/21/2002	CS	SO	SIM	Benzo(g,h,i)perylene	.00054	MG/KG	.0058	.00012	1	VJ
02NE88SB033	8/21/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0058	.00018	1	
02NE88SB033	8/21/2002	CS	SO	SIM	Chrysene	.0033	MG/KG	.0058	.00018	1	VJ
02NE88SB033	8/21/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0058	.00021	1	
02NE88SB033	8/21/2002	CS	SO	SIM	Fluoranthene	.0021	MG/KG	.0058	.0002	1	VJ
02NE88SB033	8/21/2002	CS	SO	SIM	Fluorene	.44	MG/KG	.0058	.0002	1	
02NE88SB033	8/21/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	.00023	MG/KG	.0058	.00018	1	VJ
02NE88SB033	8/21/2002	CS	SO	SIM	Naphthalene	12	MG/KG	.29	.013	50	
02NE88SB033	8/21/2002	CS	SO	SIM	Phenanthrene	.25	MG/KG	.0058	.00018	1	
02NE88SB033	8/21/2002	CS	SO	SIM	Pyrene	.0049	MG/KG	.0058	.00013	1	VJ
02NE88SB033	8/21/2002	CS	SO	SW6020	Chromium	18.2	MG/KG	0.23	0.03	5	
02NE88SB033	8/21/2002	CS	SO	SW6020	Lead	14.7	MG/KG	0.06	0.03	5	
02NE88SB033	8/21/2002	CS	SO	SW6020	Zinc	50.8	MG/KG	0.6	0.1	5	
02NE88SB033	8/21/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.12	0.047	1	
02NE88SB033	8/21/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.24	0.0081	1	
02NE88SB033	8/21/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.12	0.019	1	
02NE88SB033	8/21/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.12	0.0071	1	
02NE88SB033	8/21/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.12	0.0049	1	
02NE88SB033	8/21/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.12	0.0095	1	
02NE88SB033	8/21/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.12	0.0054	1	
02NE88SB033	8/21/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.013	0.013	1	
02NE88SB033	8/21/2002	CS	SO	SW8260B	Ethylbenzene	1.2	MG/KG	0.021	0.012	1	VHB
02NE88SB033	8/21/2002	CS	SO	SW8260B	o-Xylene	1.5	MG/KG	0.021	0.0091	1	VHB
02NE88SB033	8/21/2002	CS	SO	SW8260B	Toluene	0.05	MG/KG	0.021	0.012	1	VHB
02NE88SB033	8/21/2002	CS	SO	SW8260B	Xylene, Isomers m & p	4	MG/KG	0.022	0.022	1	VHB
02NE88SB033	8/21/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	1.1	PERCENT	0.05	0.02	1	
02NE88SB034	8/21/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	140	MG/KG	3	2.3	1	VHB
02NE88SB034	8/21/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	4300	MG/KG	120	51	10	
02NE88SB034	8/21/2002	CS	SO	AK103	Residual Range Organics	110	MG/KG	120	4.8	1	VJ
02NE88SB034	8/21/2002	CS	SO	E160.3M	Total Solids	89.3	PERCENT			1	
02NE88SB034	8/21/2002	CS	SO	SIM	Acenaphthene	.11	MG/KG	.0056	.00024	1	
02NE88SB034	8/21/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0056	.00018	1	
02NE88SB034	8/21/2002	CS	SO	SIM	Anthracene	.0041	MG/KG	.0056	.00022	1	VJ
02NE88SB034	8/21/2002	CS	SO	SIM	Benzo(a)anthracene	.00043	MG/KG	.0056	.00015	1	VJ
02NE88SB034	8/21/2002	CS	SO	SIM	Benzo(a)pyrene	.00025	MG/KG	.0056	.00016	1	VJ
02NE88SB034	8/21/2002	CS	SO	SIM	Benzo(b)fluoranthene	.0038	MG/KG	.0056	.00016	1	VJ
02NE88SB034	8/21/2002	CS	SO	SIM	Benzo(g,h,i)perylene	.00041	MG/KG	.0056	.00012	1	VJ
02NE88SB034	8/21/2002	CS	SO	SIM	Benzo(k)fluoranthene	.0036	MG/KG	.0056	.00017	1	VJ
02NE88SB034	8/21/2002	CS	SO	SIM	Chrysene	.0013	MG/KG	.0056	.00017	1	VJ
02NE88SB034	8/21/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	.00026	MG/KG	.0056	.00021	1	VJ
02NE88SB034	8/21/2002	CS	SO	SIM	Fluoranthene	.001	MG/KG	.0056	.0002	1	VJ
02NE88SB034	8/21/2002	CS	SO	SIM	Fluorene	.24	MG/KG	.0056	.0002	1	
02NE88SB034	8/21/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	.00034	MG/KG	.0056	.00017	1	VJ
02NE88SB034	8/21/2002	CS	SO	SIM	Naphthalene	3.6	MG/KG	.28	.012	50	
02NE88SB034	8/21/2002	CS	SO	SIM	Phenanthrene	.11	MG/KG	.0056	.00017	1	

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB034	8/21/2002	CS	SO	SIM	Pyrene	.0024	MG/KG	.0056	.00013	1	VJ
02NE88SB034	8/21/2002	CS	SO	SW6020	Chromium	8.31	MG/KG	0.22	0.03	5	
02NE88SB034	8/21/2002	CS	SO	SW6020	Lead	15	MG/KG	0.06	0.03	5	
02NE88SB034	8/21/2002	CS	SO	SW6020	Zinc	31.8	MG/KG	0.6	0.1	5	
02NE88SB034	8/21/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.12	0.045	1	
02NE88SB034	8/21/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.23	0.0079	1	
02NE88SB034	8/21/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.12	0.018	1	
02NE88SB034	8/21/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.12	0.0069	1	
02NE88SB034	8/21/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.12	0.0048	1	
02NE88SB034	8/21/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.12	0.0092	1	
02NE88SB034	8/21/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.12	0.0052	1	
02NE88SB034	8/21/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.012	0.012	1	
02NE88SB034	8/21/2002	CS	SO	SW8260B	Ethylbenzene	0.94	MG/KG	0.023	0.011	1	VHB
02NE88SB034	8/21/2002	CS	SO	SW8260B	o-Xylene	0.34	MG/KG	0.023	0.0088	1	VHB
02NE88SB034	8/21/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.023	0.011	1	
02NE88SB034	8/21/2002	CS	SO	SW8260B	Xylene, Isomers m & p	3	MG/KG	0.023	0.021	1	VHB
02NE88SB034	8/21/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	0.33	PERCENT	0.05	0.02	1	VJ
02NE88SB035	8/21/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	100	MG/KG	2.5	2.2	1	VHB
02NE88SB035	8/21/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	7300	MG/KG	110	48	10	
02NE88SB035	8/21/2002	CS	SO	AK103	Residual Range Organics	24	MG/KG	110	4.5	1	VJ
02NE88SB035	8/21/2002	CS	SO	E160.3M	Total Solids	94.2	PERCENT			1	
02NE88SB035	8/21/2002	CS	SO	SIM	Acenaphthene	.15	MG/KG	.0054	.00023	1	
02NE88SB035	8/21/2002	CS	SO	SIM	Acenaphthylene	.052	MG/KG	.0054	.00017	1	
02NE88SB035	8/21/2002	CS	SO	SIM	Anthracene	.0059	MG/KG	.0054	.00021	1	
02NE88SB035	8/21/2002	CS	SO	SIM	Benzo(a)anthracene	.00044	MG/KG	.0054	.00014	1	VJ
02NE88SB035	8/21/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0054	.00015	1	
02NE88SB035	8/21/2002	CS	SO	SIM	Benzo(b)fluoranthene	.00062	MG/KG	.0054	.00015	1	VJ
02NE88SB035	8/21/2002	CS	SO	SIM	Benzo(g,h,i)perylene	.00043	MG/KG	.0054	.00011	1	VJ
02NE88SB035	8/21/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0054	.00016	1	
02NE88SB035	8/21/2002	CS	SO	SIM	Chrysene	.0013	MG/KG	.0054	.00016	1	VJ
02NE88SB035	8/21/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0054	.0002	1	
02NE88SB035	8/21/2002	CS	SO	SIM	Fluoranthene	.0013	MG/KG	.0054	.00019	1	VJ
02NE88SB035	8/21/2002	CS	SO	SIM	Fluorene	.42	MG/KG	.0054	.00019	1	
02NE88SB035	8/21/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0054	.00016	1	
02NE88SB035	8/21/2002	CS	SO	SIM	Naphthalene	10	MG/KG	.27	.012	50	
02NE88SB035	8/21/2002	CS	SO	SIM	Phenanthrene	.18	MG/KG	.0054	.00016	1	
02NE88SB035	8/21/2002	CS	SO	SIM	Pyrene	.0027	MG/KG	.0054	.00012	1	VJ
02NE88SB035	8/21/2002	CS	SO	SW6020	Chromium	14	MG/KG	0.21	0.03	5	
02NE88SB035	8/21/2002	CS	SO	SW6020	Lead	18.4	MG/KG	0.05	0.03	5	
02NE88SB035	8/21/2002	CS	SO	SW6020	Zinc	49	MG/KG	0.5	0.1	5	
02NE88SB035	8/21/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.043	1	
02NE88SB035	8/21/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.21	0.0075	1	
02NE88SB035	8/21/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.017	1	
02NE88SB035	8/21/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0065	1	
02NE88SB035	8/21/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0045	1	
02NE88SB035	8/21/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.0088	1	
02NE88SB035	8/21/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.0049	1	
02NE88SB035	8/21/2002	CS	SO	SW8260B	Benzene	0.018	MG/KG	0.012	0.012	1	VHB
02NE88SB035	8/21/2002	CS	SO	SW8260B	Ethylbenzene	1.1	MG/KG	0.025	0.011	1	VHB
02NE88SB035	8/21/2002	CS	SO	SW8260B	o-Xylene	0.019	MG/KG	0.025	0.0084	1	VJ
02NE88SB035	8/21/2002	CS	SO	SW8260B	Toluene	0.018	MG/KG	0.025	0.011	1	VJ
02NE88SB035	8/21/2002	CS	SO	SW8260B	Xylene, Isomers m & p	0.95	MG/KG	0.025	0.02	1	VHB

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB035	8/21/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	0.22	PERCENT	0.05	0.02	1	
02NE88SB036	8/21/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	170	MG/KG	3.3	2.6	1	VHB
02NE88SB036	8/21/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	4000	MG/KG	13	5.7	1	VJ
02NE88SB036	8/21/2002	CS	SO	AK103	Residual Range Organics	220	MG/KG	130	5.3	1	
02NE88SB036	8/21/2002	CS	SO	E160.3M	Total Solids	79.6	PERCENT			1	
02NE88SB036	8/21/2002	CS	SO	SIM	Acenaphthene	.13	MG/KG	.0063	.00027	1	VJ
02NE88SB036	8/21/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0063	.00021	1	
02NE88SB036	8/21/2002	CS	SO	SIM	Anthracene	.0039	MG/KG	.0063	.00024	1	VJ
02NE88SB036	8/21/2002	CS	SO	SIM	Benzo(a)anthracene	.00021	MG/KG	.0063	.00017	1	VJ
02NE88SB036	8/21/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0063	.00018	1	
02NE88SB036	8/21/2002	CS	SO	SIM	Benzo(b)fluoranthene	.00056	MG/KG	.0063	.00018	1	VJ
02NE88SB036	8/21/2002	CS	SO	SIM	Benzo(g,h,i)perylene	.00031	MG/KG	.0063	.00013	1	VJ
02NE88SB036	8/21/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0063	.00019	1	
02NE88SB036	8/21/2002	CS	SO	SIM	Chrysene	.0014	MG/KG	.0063	.00019	1	VJ
02NE88SB036	8/21/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0063	.00023	1	
02NE88SB036	8/21/2002	CS	SO	SIM	Fluoranthene	.00097	MG/KG	.0063	.00022	1	VJ
02NE88SB036	8/21/2002	CS	SO	SIM	Fluorene	.38	MG/KG	.0063	.00022	1	VJ
02NE88SB036	8/21/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0063	.00019	1	
02NE88SB036	8/21/2002	CS	SO	SIM	Naphthalene	6.9	MG/KG	.32	.014	50	VJ
02NE88SB036	8/21/2002	CS	SO	SIM	Phenanthrene	.14	MG/KG	.0063	.00019	1	VJ
02NE88SB036	8/21/2002	CS	SO	SIM	Pyrene	.002	MG/KG	.0063	.00014	1	VJ
02NE88SB036	8/21/2002	CS	SO	SW6020	Chromium	16.7	MG/KG	0.25	0.04	5	VJ
02NE88SB036	8/21/2002	CS	SO	SW6020	Lead	21.1	MG/KG	0.06	0.04	5	VJ
02NE88SB036	8/21/2002	CS	SO	SW6020	Zinc	57.5	MG/KG	0.6	0.1	5	VJ
02NE88SB036	8/21/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.13	0.051	1	
02NE88SB036	8/21/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.25	0.0088	1	
02NE88SB036	8/21/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.13	0.021	1	
02NE88SB036	8/21/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.13	0.0077	1	
02NE88SB036	8/21/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.13	0.0053	1	
02NE88SB036	8/21/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.13	0.011	1	
02NE88SB036	8/21/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	0.033	MG/KG	0.13	0.0058	1	VJ
02NE88SB036	8/21/2002	CS	SO	SW8260B	Benzene	0.062	MG/KG	0.014	0.014	1	VJ
02NE88SB036	8/21/2002	CS	SO	SW8260B	Ethylbenzene	2.2	MG/KG	0.03	0.013	1	VJ
02NE88SB036	8/21/2002	CS	SO	SW8260B	o-Xylene	1.3	MG/KG	0.03	0.0099	1	VJ
02NE88SB036	8/21/2002	CS	SO	SW8260B	Toluene	0.041	MG/KG	0.03	0.013	1	
02NE88SB036	8/21/2002	CS	SO	SW8260B	Xylene, Isomers m & p	4.4	MG/KG	0.03	0.024	1	VJ
02NE88SB036	8/21/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	0.81	PERCENT	0.05	0.02	1	VJ
02NE88SB206	8/17/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	41	MG/KG	6.1	2.5	1	
02NE88SB206	8/17/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	2900	MG/KG	11	5	1	
02NE88SB206	8/17/2002	CS	SO	AK103	Residual Range Organics	23	MG/KG	110	4.7	1	VJ
02NE88SB206	8/17/2002	CS	SO	D4129	Total Organic Carbon (TOC)	0.15	PERCENT	0.05	0.02	1	
02NE88SB206	8/17/2002	CS	SO	E160.3M	Total Solids	90.6	PERCENT			1	
02NE88SB206	8/17/2002	CS	SO	SIM	Acenaphthene	.13	MG/KG	.0056	.00024	1	
02NE88SB206	8/17/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0056	.00018	1	
02NE88SB206	8/17/2002	CS	SO	SIM	Anthracene	.029	MG/KG	.0056	.00021	1	
02NE88SB206	8/17/2002	CS	SO	SIM	Benzo(a)anthracene	.0011	MG/KG	.0056	.00015	1	VJ
02NE88SB206	8/17/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0056	.00016	1	
02NE88SB206	8/17/2002	CS	SO	SIM	Benzo(b)fluoranthene	ND	MG/KG	.0056	.00016	1	
02NE88SB206	8/17/2002	CS	SO	SIM	Benzo(g,h,i)perylene	ND	MG/KG	.0056	.00012	1	
02NE88SB206	8/17/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0056	.00017	1	
02NE88SB206	8/17/2002	CS	SO	SIM	Chrysene	.0027	MG/KG	.0056	.00017	1	VJ
02NE88SB206	8/17/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0056	.0002	1	

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB206	8/17/2002	CS	SO	SIM	Fluoranthene	.004	MG/KG	.0056	.00019	1	VJ
02NE88SB206	8/17/2002	CS	SO	SIM	Fluorene	.33	MG/KG	.0056	.00019	1	
02NE88SB206	8/17/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0056	.00017	1	
02NE88SB206	8/17/2002	CS	SO	SIM	Naphthalene	1	MG/KG	.056	.0024	10	
02NE88SB206	8/17/2002	CS	SO	SIM	Phenanthrene	.43	MG/KG	.0056	.00017	1	
02NE88SB206	8/17/2002	CS	SO	SIM	Pyrene	.01	MG/KG	.0056	.00013	1	
02NE88SB206	8/17/2002	CS	SO	SW6020	Chromium	10.8	MG/KG	0.22	0.01	5	
02NE88SB206	8/17/2002	CS	SO	SW6020	Lead	61.1	MG/KG	0.06	0.03	5	
02NE88SB206	8/17/2002	CS	SO	SW6020	Zinc	55.9	MG/KG	0.55	0.07	5	
02NE88SB206	8/17/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.045	1	
02NE88SB206	8/17/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.22	0.0078	1	
02NE88SB206	8/17/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.018	1	
02NE88SB206	8/17/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0068	1	
02NE88SB206	8/17/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0047	1	
02NE88SB206	8/17/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.0091	1	
02NE88SB206	8/17/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.0051	1	
02NE88SB206	8/17/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.021	0.012	1	
02NE88SB206	8/17/2002	CS	SO	SW8260B	Ethylbenzene	0.092	MG/KG	0.053	0.011	1	
02NE88SB206	8/17/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.053	0.0087	1	
02NE88SB206	8/17/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.053	0.011	1	
02NE88SB206	8/17/2002	CS	SO	SW8260B	Xylene, Isomers m & p	0.094	MG/KG	0.053	0.021	1	
02NE88SB234	8/21/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	110	MG/KG	2.3	2.2	1	VHB
02NE88SB234	8/21/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	3100	MG/KG	11	5	1	
02NE88SB234	8/21/2002	CS	SO	AK103	Residual Range Organics	54	MG/KG	110	4.7	1	VJ
02NE88SB234	8/21/2002	CS	SO	E160.3M	Total Solids	91.2	PERCENT			1	
02NE88SB234	8/21/2002	CS	SO	SIM	Acenaphthene	.089	MG/KG	.0055	.00024	1	
02NE88SB234	8/21/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0055	.00018	1	
02NE88SB234	8/21/2002	CS	SO	SIM	Anthracene	.0033	MG/KG	.0055	.00021	1	VJ
02NE88SB234	8/21/2002	CS	SO	SIM	Benzo(a)anthracene	.00021	MG/KG	.0055	.00015	1	VJ
02NE88SB234	8/21/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0055	.00016	1	
02NE88SB234	8/21/2002	CS	SO	SIM	Benzo(b)fluoranthene	.00041	MG/KG	.0055	.00016	1	VJ
02NE88SB234	8/21/2002	CS	SO	SIM	Benzo(g,h,i)perylene	ND	MG/KG	.0055	.00011	1	
02NE88SB234	8/21/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0055	.00017	1	
02NE88SB234	8/21/2002	CS	SO	SIM	Chrysene	.00091	MG/KG	.0055	.00017	1	VJ
02NE88SB234	8/21/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	.00031	MG/KG	.0055	.0002	1	VJ
02NE88SB234	8/21/2002	CS	SO	SIM	Fluoranthene	.00079	MG/KG	.0055	.00019	1	VJ
02NE88SB234	8/21/2002	CS	SO	SIM	Fluorene	.2	MG/KG	.0055	.00019	1	
02NE88SB234	8/21/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0055	.00017	1	
02NE88SB234	8/21/2002	CS	SO	SIM	Naphthalene	3.8	MG/KG	.28	.012	50	
02NE88SB234	8/21/2002	CS	SO	SIM	Phenanthrene	.091	MG/KG	.0055	.00017	1	
02NE88SB234	8/21/2002	CS	SO	SIM	Pyrene	.0018	MG/KG	.0055	.00013	1	VJ
02NE88SB234	8/21/2002	CS	SO	SW6020	Chromium	10.8	MG/KG	0.22	0.03	5	
02NE88SB234	8/21/2002	CS	SO	SW6020	Lead	15.3	MG/KG	0.05	0.03	5	
02NE88SB234	8/21/2002	CS	SO	SW6020	Zinc	40.2	MG/KG	0.5	0.1	5	
02NE88SB234	8/21/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.044	1	
02NE88SB234	8/21/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.22	0.0077	1	
02NE88SB234	8/21/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.018	1	
02NE88SB234	8/21/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0067	1	
02NE88SB234	8/21/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0047	1	
02NE88SB234	8/21/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.009	1	
02NE88SB234	8/21/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.0051	1	
02NE88SB234	8/21/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.012	0.012	1	

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB234	8/21/2002	CS	SO	SW8260B	Ethylbenzene	0.83	MG/KG	0.025	0.011	1	VHB
02NE88SB234	8/21/2002	CS	SO	SW8260B	o-Xylene	0.27	MG/KG	0.025	0.0087	1	VHB
02NE88SB234	8/21/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.025	0.011	1	
02NE88SB234	8/21/2002	CS	SO	SW8260B	Xylene, Isomers m & p	2.8	MG/KG	0.025	0.021	1	VHB
02NE88SB234	8/21/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	0.19	PERCENT	0.05	0.02	1	
02NE88SB236	8/21/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	88	MG/KG	2.5	2.2	1	VHB
02NE88SB236	8/21/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	13000	MG/KG	110	50	10	
02NE88SB236	8/21/2002	CS	SO	AK103	Residual Range Organics	180	MG/KG	110	4.7	1	
02NE88SB236	8/21/2002	CS	SO	E160.3M	Total Solids	91.3	PERCENT			1	
02NE88SB236	8/21/2002	CS	SO	SIM	Acenaphthene	.25	MG/KG	.0055	.00024	1	
02NE88SB236	8/21/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0055	.00018	1	
02NE88SB236	8/21/2002	CS	SO	SIM	Anthracene	.013	MG/KG	.0055	.00021	1	
02NE88SB236	8/21/2002	CS	SO	SIM	Benzo(a)anthracene	.001	MG/KG	.0055	.00015	1	VJ
02NE88SB236	8/21/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0055	.00016	1	
02NE88SB236	8/21/2002	CS	SO	SIM	Benzo(b)fluoranthene	.0016	MG/KG	.0055	.00016	1	VJ
02NE88SB236	8/21/2002	CS	SO	SIM	Benzo(g,h,i)perylene	.00034	MG/KG	.0055	.00011	1	VJ
02NE88SB236	8/21/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0055	.00017	1	
02NE88SB236	8/21/2002	CS	SO	SIM	Chrysene	.0021	MG/KG	.0055	.00017	1	VJ
02NE88SB236	8/21/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0055	.0002	1	
02NE88SB236	8/21/2002	CS	SO	SIM	Fluoranthene	.0027	MG/KG	.0055	.00019	1	VJ
02NE88SB236	8/21/2002	CS	SO	SIM	Fluorene	.74	MG/KG	.0055	.00019	1	
02NE88SB236	8/21/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	.00019	MG/KG	.0055	.00017	1	VJ
02NE88SB236	8/21/2002	CS	SO	SIM	Naphthalene	23	MG/KG	.55	.024	100	
02NE88SB236	8/21/2002	CS	SO	SIM	Phenanthrene	.44	MG/KG	.0055	.00017	1	
02NE88SB236	8/21/2002	CS	SO	SIM	Pyrene	.005	MG/KG	.0055	.00013	1	VJ
02NE88SB236	8/21/2002	CS	SO	SW6020	Chromium	9.64	MG/KG	0.22	0.03	5	
02NE88SB236	8/21/2002	CS	SO	SW6020	Lead	12.6	MG/KG	0.05	0.03	5	
02NE88SB236	8/21/2002	CS	SO	SW6020	Zinc	31.9	MG/KG	0.5	0.1	5	
02NE88SB236	8/21/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.044	1	
02NE88SB236	8/21/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.22	0.0077	1	
02NE88SB236	8/21/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.018	1	
02NE88SB236	8/21/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0067	1	
02NE88SB236	8/21/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0047	1	
02NE88SB236	8/21/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.009	1	
02NE88SB236	8/21/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	0.059	MG/KG	0.11	0.0051	1	VJ
02NE88SB236	8/21/2002	CS	SO	SW8260B	Benzene	0.023	MG/KG	0.012	0.012	1	
02NE88SB236	8/21/2002	CS	SO	SW8260B	Ethylbenzene	0.66	MG/KG	0.023	0.011	1	
02NE88SB236	8/21/2002	CS	SO	SW8260B	o-Xylene	0.58	MG/KG	0.023	0.0086	1	
02NE88SB236	8/21/2002	CS	SO	SW8260B	Toluene	0.022	MG/KG	0.023	0.011	1	VJ
02NE88SB236	8/21/2002	CS	SO	SW8260B	Xylene, Isomers m & p	1.5	MG/KG	0.023	0.021	1	
02NE88SB236	8/21/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	0.48	PERCENT	0.05	0.02	1	
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02NE88SB037	8/22/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	ND	MG/KG	4.1	2.3	1	
02NE88SB037	8/22/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	ND	MG/KG	11	5	1	
02NE88SB037	8/22/2002	CS	SO	AK103	Residual Range Organics	13	MG/KG	110	4.7	1	VJ
02NE88SB037	8/22/2002	CS	SO	E160.3M	Total Solids	90.5	PERCENT			1	
02NE88SB037	8/22/2002	CS	SO	SIM	Acenaphthene	ND	MG/KG	.0056	.00024	1	
02NE88SB037	8/22/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0056	.00018	1	
02NE88SB037	8/22/2002	CS	SO	SIM	Anthracene	ND	MG/KG	.0056	.00021	1	
02NE88SB037	8/22/2002	CS	SO	SIM	Benzo(a)anthracene	.00017	MG/KG	.0056	.00015	1	VJ
02NE88SB037	8/22/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0056	.00016	1	
02NE88SB037	8/22/2002	CS	SO	SIM	Benzo(b)fluoranthene	ND	MG/KG	.0056	.00016	1	

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB037	8/22/2002	CS	SO	SIM	Benzo(g,h,i)perylene	ND	MG/KG	.0056	.00012	1	
02NE88SB037	8/22/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0056	.00017	1	
02NE88SB037	8/22/2002	CS	SO	SIM	Chrysene	.00036	MG/KG	.0056	.00017	1	VJ
02NE88SB037	8/22/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0056	.0002	1	
02NE88SB037	8/22/2002	CS	SO	SIM	Fluoranthene	.00073	MG/KG	.0056	.00019	1	VJ
02NE88SB037	8/22/2002	CS	SO	SIM	Fluorene	ND	MG/KG	.0056	.00019	1	
02NE88SB037	8/22/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0056	.00017	1	
02NE88SB037	8/22/2002	CS	SO	SIM	Naphthalene	.00092	MG/KG	.0056	.00024	1	VJ
02NE88SB037	8/22/2002	CS	SO	SIM	Phenanthrene	.0012	MG/KG	.0056	.00017	1	VJ
02NE88SB037	8/22/2002	CS	SO	SIM	Pyrene	.00044	MG/KG	.0056	.00013	1	VJ
02NE88SB037	8/22/2002	CS	SO	SW6020	Chromium	7.26	MG/KG	0.22	0.03	5	
02NE88SB037	8/22/2002	CS	SO	SW6020	Lead	30.5	MG/KG	0.06	0.03	5	
02NE88SB037	8/22/2002	CS	SO	SW6020	Zinc	69.8	MG/KG	0.6	0.1	5	
02NE88SB037	8/22/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.045	1	
02NE88SB037	8/22/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.22	0.0078	1	
02NE88SB037	8/22/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.018	1	
02NE88SB037	8/22/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0068	1	
02NE88SB037	8/22/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0047	1	
02NE88SB037	8/22/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.0091	1	
02NE88SB037	8/22/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.0051	1	
02NE88SB037	8/22/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.019	0.012	1	
02NE88SB037	8/22/2002	CS	SO	SW8260B	Ethylbenzene	ND	MG/KG	0.047	0.011	1	
02NE88SB037	8/22/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.047	0.0087	1	
02NE88SB037	8/22/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.047	0.011	1	
02NE88SB037	8/22/2002	CS	SO	SW8260B	Xylene, Isomers m & p	ND	MG/KG	0.047	0.021	1	
02NE88SB037	8/22/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	0.1	PERCENT	0.05	0.02	1	
02NE88SB038	8/22/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	ND	MG/KG	4.3	2.2	1	
02NE88SB038	8/22/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	ND	MG/KG	11	4.8	1	
02NE88SB038	8/22/2002	CS	SO	AK103	Residual Range Organics	5.4	MG/KG	110	4.5	1	VJ
02NE88SB038	8/22/2002	CS	SO	E160.3M	Total Solids	94.4	PERCENT			1	
02NE88SB038	8/22/2002	CS	SO	SIM	Acenaphthene	ND	MG/KG	.0053	.00023	1	
02NE88SB038	8/22/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0053	.00017	1	
02NE88SB038	8/22/2002	CS	SO	SIM	Anthracene	ND	MG/KG	.0053	.00021	1	
02NE88SB038	8/22/2002	CS	SO	SIM	Benzo(a)anthracene	ND	MG/KG	.0053	.00014	1	
02NE88SB038	8/22/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0053	.00015	1	
02NE88SB038	8/22/2002	CS	SO	SIM	Benzo(b)fluoranthene	ND	MG/KG	.0053	.00015	1	
02NE88SB038	8/22/2002	CS	SO	SIM	Benzo(g,h,i)perylene	.00015	MG/KG	.0053	.00011	1	VJ
02NE88SB038	8/22/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0053	.00016	1	
02NE88SB038	8/22/2002	CS	SO	SIM	Chrysene	ND	MG/KG	.0053	.00016	1	
02NE88SB038	8/22/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0053	.0002	1	
02NE88SB038	8/22/2002	CS	SO	SIM	Fluoranthene	ND	MG/KG	.0053	.00019	1	
02NE88SB038	8/22/2002	CS	SO	SIM	Fluorene	ND	MG/KG	.0053	.00019	1	
02NE88SB038	8/22/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0053	.00016	1	
02NE88SB038	8/22/2002	CS	SO	SIM	Naphthalene	ND	MG/KG	.0053	.00023	1	
02NE88SB038	8/22/2002	CS	SO	SIM	Phenanthrene	.00022	MG/KG	.0053	.00016	1	VJ
02NE88SB038	8/22/2002	CS	SO	SIM	Pyrene	ND	MG/KG	.0053	.00012	1	
02NE88SB038	8/22/2002	CS	SO	SW6020	Chromium	7.87	MG/KG	0.21	0.03	5	
02NE88SB038	8/22/2002	CS	SO	SW6020	Lead	41.3	MG/KG	0.05	0.03	5	
02NE88SB038	8/22/2002	CS	SO	SW6020	Zinc	90.3	MG/KG	0.5	0.1	5	
02NE88SB038	8/22/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.043	1	
02NE88SB038	8/22/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.22	0.0075	1	
02NE88SB038	8/22/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.017	1	

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB038	8/22/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0065	1	
02NE88SB038	8/22/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0045	1	
02NE88SB038	8/22/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.0087	1	
02NE88SB038	8/22/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.0049	1	
02NE88SB038	8/22/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.017	0.012	1	
02NE88SB038	8/22/2002	CS	SO	SW8260B	Ethylbenzene	ND	MG/KG	0.042	0.011	1	
02NE88SB038	8/22/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.042	0.0084	1	
02NE88SB038	8/22/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.042	0.011	1	
02NE88SB038	8/22/2002	CS	SO	SW8260B	Xylene, Isomers m & p	ND	MG/KG	0.042	0.02	1	
02NE88SB038	8/22/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	0.06	PERCENT	0.05	0.02	1	
02NE88SB039	8/22/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	ND	MG/KG	4	2.2	1	
02NE88SB039	8/22/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	ND	MG/KG	11	5	1	
02NE88SB039	8/22/2002	CS	SO	AK103	Residual Range Organics	ND	MG/KG	110	4.7	1	
02NE88SB039	8/22/2002	CS	SO	E160.3M	Total Solids	91.6	PERCENT			1	
02NE88SB039	8/22/2002	CS	SO	SIM	Acenaphthene	ND	MG/KG	.0055	.00023	1	
02NE88SB039	8/22/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0055	.00018	1	
02NE88SB039	8/22/2002	CS	SO	SIM	Anthracene	ND	MG/KG	.0055	.00021	1	
02NE88SB039	8/22/2002	CS	SO	SIM	Benzo(a)anthracene	ND	MG/KG	.0055	.00015	1	
02NE88SB039	8/22/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0055	.00016	1	
02NE88SB039	8/22/2002	CS	SO	SIM	Benzo(b)fluoranthene	.00056	MG/KG	.0055	.00016	1	VJ
02NE88SB039	8/22/2002	CS	SO	SIM	Benzo(g,h,i)perylene	ND	MG/KG	.0055	.00011	1	
02NE88SB039	8/22/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0055	.00017	1	
02NE88SB039	8/22/2002	CS	SO	SIM	Chrysene	.00027	MG/KG	.0055	.00017	1	VJ
02NE88SB039	8/22/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0055	.0002	1	
02NE88SB039	8/22/2002	CS	SO	SIM	Fluoranthene	.00024	MG/KG	.0055	.00019	1	VJ
02NE88SB039	8/22/2002	CS	SO	SIM	Fluorene	ND	MG/KG	.0055	.00019	1	
02NE88SB039	8/22/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0055	.00017	1	
02NE88SB039	8/22/2002	CS	SO	SIM	Naphthalene	.00072	MG/KG	.0055	.00023	1	VJ
02NE88SB039	8/22/2002	CS	SO	SIM	Phenanthrene	.00053	MG/KG	.0055	.00017	1	VJ
02NE88SB039	8/22/2002	CS	SO	SIM	Pyrene	.00021	MG/KG	.0055	.00013	1	VJ
02NE88SB039	8/22/2002	CS	SO	SW6020	Chromium	9.09	MG/KG	0.22	0.03	5	VJ
02NE88SB039	8/22/2002	CS	SO	SW6020	Lead	31.4	MG/KG	0.05	0.03	5	
02NE88SB039	8/22/2002	CS	SO	SW6020	Zinc	62.9	MG/KG	0.5	0.1	5	
02NE88SB039	8/22/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.044	1	
02NE88SB039	8/22/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.22	0.0077	1	
02NE88SB039	8/22/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.018	1	
02NE88SB039	8/22/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0067	1	
02NE88SB039	8/22/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0046	1	
02NE88SB039	8/22/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.009	1	
02NE88SB039	8/22/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.0051	1	
02NE88SB039	8/22/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.016	0.012	1	
02NE88SB039	8/22/2002	CS	SO	SW8260B	Ethylbenzene	ND	MG/KG	0.038	0.011	1	
02NE88SB039	8/22/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.038	0.0086	1	
02NE88SB039	8/22/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.038	0.011	1	
02NE88SB039	8/22/2002	CS	SO	SW8260B	Xylene, Isomers m & p	ND	MG/KG	0.038	0.021	1	
02NE88SB039	8/22/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	0.07	PERCENT	0.05	0.02	1	
02NE88SB040	8/22/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	ND	MG/KG	4.1	2.1	1	
02NE88SB040	8/22/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	ND	MG/KG	11	4.8	1	
02NE88SB040	8/22/2002	CS	SO	AK103	Residual Range Organics	ND	MG/KG	110	4.5	1	
02NE88SB040	8/22/2002	CS	SO	E160.3M	Total Solids	95.5	PERCENT			1	
02NE88SB040	8/22/2002	CS	SO	SIM	Acenaphthene	ND	MG/KG	.0053	.00022	1	
02NE88SB040	8/22/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0053	.00017	1	

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB040	8/22/2002	CS	SO	SIM	Anthracene	.0002	MG/KG	.0053	.0002	1	VJ
02NE88SB040	8/22/2002	CS	SO	SIM	Benzo(a)anthracene	ND	MG/KG	.0053	.00014	1	
02NE88SB040	8/22/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0053	.00015	1	
02NE88SB040	8/22/2002	CS	SO	SIM	Benzo(b)fluoranthene	.00035	MG/KG	.0053	.00015	1	VJ
02NE88SB040	8/22/2002	CS	SO	SIM	Benzo(g,h,i)perylene	.00033	MG/KG	.0053	.00011	1	VJ
02NE88SB040	8/22/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0053	.00016	1	
02NE88SB040	8/22/2002	CS	SO	SIM	Chrysene	.0002	MG/KG	.0053	.00016	1	VJ
02NE88SB040	8/22/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	.00032	MG/KG	.0053	.00019	1	VJ
02NE88SB040	8/22/2002	CS	SO	SIM	Fluoranthene	.0007	MG/KG	.0053	.00018	1	VJ
02NE88SB040	8/22/2002	CS	SO	SIM	Fluorene	.0002	MG/KG	.0053	.00018	1	VJ
02NE88SB040	8/22/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	.00032	MG/KG	.0053	.00016	1	VJ
02NE88SB040	8/22/2002	CS	SO	SIM	Naphthalene	.00031	MG/KG	.0053	.00022	1	VJ
02NE88SB040	8/22/2002	CS	SO	SIM	Phenanthrene	.001	MG/KG	.0053	.00016	1	VJ
02NE88SB040	8/22/2002	CS	SO	SIM	Pyrene	.00051	MG/KG	.0053	.00012	1	VJ
02NE88SB040	8/22/2002	CS	SO	SW6020	Chromium	7.88	MG/KG	0.21	0.03	5	
02NE88SB040	8/22/2002	CS	SO	SW6020	Lead	32.2	MG/KG	0.05	0.03	5	
02NE88SB040	8/22/2002	CS	SO	SW6020	Zinc	75.2	MG/KG	0.5	0.1	5	
02NE88SB040	8/22/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.042	1	
02NE88SB040	8/22/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.21	0.0074	1	
02NE88SB040	8/22/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.017	1	
02NE88SB040	8/22/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0064	1	
02NE88SB040	8/22/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0044	1	
02NE88SB040	8/22/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.0086	1	
02NE88SB040	8/22/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.0049	1	
02NE88SB040	8/22/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.015	0.011	1	
02NE88SB040	8/22/2002	CS	SO	SW8260B	Ethylbenzene	ND	MG/KG	0.037	0.011	1	
02NE88SB040	8/22/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.037	0.0083	1	
02NE88SB040	8/22/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.037	0.011	1	
02NE88SB040	8/22/2002	CS	SO	SW8260B	Xylene, Isomers m & p	ND	MG/KG	0.037	0.02	1	
02NE88SB040	8/22/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	0.04	PERCENT	0.05	0.02	1	VJ
02NE88SB237	8/22/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	ND	MG/KG	4	2.2	1	
02NE88SB237	8/22/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	ND	MG/KG	11	5	1	
02NE88SB237	8/22/2002	CS	SO	AK103	Residual Range Organics	5.6	MG/KG	110	4.7	1	VJ
02NE88SB237	8/22/2002	CS	SO	E160.3M	Total Solids	91.4	PERCENT			1	
02NE88SB237	8/22/2002	CS	SO	SIM	Acenaphthene	ND	MG/KG	.0055	.00023	1	
02NE88SB237	8/22/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0055	.00018	1	
02NE88SB237	8/22/2002	CS	SO	SIM	Anthracene	ND	MG/KG	.0055	.00021	1	
02NE88SB237	8/22/2002	CS	SO	SIM	Benzo(a)anthracene	ND	MG/KG	.0055	.00015	1	
02NE88SB237	8/22/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0055	.00016	1	
02NE88SB237	8/22/2002	CS	SO	SIM	Benzo(b)fluoranthene	ND	MG/KG	.0055	.00016	1	
02NE88SB237	8/22/2002	CS	SO	SIM	Benzo(g,h,i)perylene	ND	MG/KG	.0055	.00011	1	
02NE88SB237	8/22/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0055	.00017	1	
02NE88SB237	8/22/2002	CS	SO	SIM	Chrysene	.00019	MG/KG	.0055	.00017	1	VJ
02NE88SB237	8/22/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0055	.0002	1	
02NE88SB237	8/22/2002	CS	SO	SIM	Fluoranthene	ND	MG/KG	.0055	.00019	1	
02NE88SB237	8/22/2002	CS	SO	SIM	Fluorene	ND	MG/KG	.0055	.00019	1	
02NE88SB237	8/22/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0055	.00017	1	
02NE88SB237	8/22/2002	CS	SO	SIM	Naphthalene	.00048	MG/KG	.0055	.00023	1	VJ
02NE88SB237	8/22/2002	CS	SO	SIM	Phenanthrene	.00056	MG/KG	.0055	.00017	1	VJ
02NE88SB237	8/22/2002	CS	SO	SIM	Pyrene	ND	MG/KG	.0055	.00013	1	
02NE88SB237	8/22/2002	CS	SO	SW6020	Chromium	8.11	MG/KG	0.22	0.03	5	
02NE88SB237	8/22/2002	CS	SO	SW6020	Lead	33.7	MG/KG	0.05	0.03	5	

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88SB237	8/22/2002	CS	SO	SW6020	Zinc	69.1	MG/KG	0.5	0.1	5	
02NE88SB237	8/22/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.044	1	
02NE88SB237	8/22/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.22	0.0077	1	
02NE88SB237	8/22/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.018	1	
02NE88SB237	8/22/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0067	1	
02NE88SB237	8/22/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0046	1	
02NE88SB237	8/22/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.009	1	
02NE88SB237	8/22/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.0051	1	
02NE88SB237	8/22/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.017	0.012	1	
02NE88SB237	8/22/2002	CS	SO	SW8260B	Ethylbenzene	ND	MG/KG	0.041	0.011	1	
02NE88SB237	8/22/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.041	0.0086	1	
02NE88SB237	8/22/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.041	0.011	1	
02NE88SB237	8/22/2002	CS	SO	SW8260B	Xylene, Isomers m & p	ND	MG/KG	0.041	0.021	1	
02NE88SB237	8/22/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	0.09	PERCENT	0.05	0.02	1	
02NE88SB239	8/22/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	ND	MG/KG	4.2	2.3	1	
02NE88SB239	8/22/2002	CS	SO	AK102	Diesel Range Organics (C10-C25)	ND	MG/KG	11	5.1	1	
02NE88SB239	8/22/2002	CS	SO	AK103	Residual Range Organics	5	MG/KG	110	4.7	1	VJ
02NE88SB239	8/22/2002	CS	SO	E160.3M	Total Solids	90.2	PERCENT			1	
02NE88SB239	8/22/2002	CS	SO	SIM	Acenaphthene	ND	MG/KG	.0056	.00024	1	
02NE88SB239	8/22/2002	CS	SO	SIM	Acenaphthylene	ND	MG/KG	.0056	.00018	1	
02NE88SB239	8/22/2002	CS	SO	SIM	Anthracene	ND	MG/KG	.0056	.00022	1	
02NE88SB239	8/22/2002	CS	SO	SIM	Benzo(a)anthracene	ND	MG/KG	.0056	.00015	1	
02NE88SB239	8/22/2002	CS	SO	SIM	Benzo(a)pyrene	ND	MG/KG	.0056	.00016	1	
02NE88SB239	8/22/2002	CS	SO	SIM	Benzo(b)fluoranthene	ND	MG/KG	.0056	.00016	1	
02NE88SB239	8/22/2002	CS	SO	SIM	Benzo(g,h,i)perylene	ND	MG/KG	.0056	.00012	1	
02NE88SB239	8/22/2002	CS	SO	SIM	Benzo(k)fluoranthene	ND	MG/KG	.0056	.00017	1	
02NE88SB239	8/22/2002	CS	SO	SIM	Chrysene	ND	MG/KG	.0056	.00017	1	
02NE88SB239	8/22/2002	CS	SO	SIM	Dibenzo(a,h)anthracene	ND	MG/KG	.0056	.0002	1	
02NE88SB239	8/22/2002	CS	SO	SIM	Fluoranthene	ND	MG/KG	.0056	.00019	1	
02NE88SB239	8/22/2002	CS	SO	SIM	Fluorene	ND	MG/KG	.0056	.00019	1	
02NE88SB239	8/22/2002	CS	SO	SIM	Indeno(1,2,3-cd)pyrene	ND	MG/KG	.0056	.00017	1	
02NE88SB239	8/22/2002	CS	SO	SIM	Naphthalene	.00046	MG/KG	.0056	.00024	1	VJ
02NE88SB239	8/22/2002	CS	SO	SIM	Phenanthrene	.00048	MG/KG	.0056	.00017	1	VJ
02NE88SB239	8/22/2002	CS	SO	SIM	Pyrene	.00015	MG/KG	.0056	.00013	1	VJ
02NE88SB239	8/22/2002	CS	SO	SW6020	Chromium	7.71	MG/KG	0.22	0.03	5	
02NE88SB239	8/22/2002	CS	SO	SW6020	Lead	31.2	MG/KG	0.06	0.03	5	
02NE88SB239	8/22/2002	CS	SO	SW6020	Zinc	57	MG/KG	0.6	0.1	5	
02NE88SB239	8/22/2002	CS	SO	SW8082	PCB-1016 (Aroclor 1016)	ND	MG/KG	0.11	0.045	1	
02NE88SB239	8/22/2002	CS	SO	SW8082	PCB-1221 (Aroclor 1221)	ND	MG/KG	0.22	0.0078	1	
02NE88SB239	8/22/2002	CS	SO	SW8082	PCB-1232 (Aroclor 1232)	ND	MG/KG	0.11	0.018	1	
02NE88SB239	8/22/2002	CS	SO	SW8082	PCB-1242 (Aroclor 1242)	ND	MG/KG	0.11	0.0068	1	
02NE88SB239	8/22/2002	CS	SO	SW8082	PCB-1248 (Aroclor 1248)	ND	MG/KG	0.11	0.0047	1	
02NE88SB239	8/22/2002	CS	SO	SW8082	PCB-1254 (Aroclor 1254)	ND	MG/KG	0.11	0.0091	1	
02NE88SB239	8/22/2002	CS	SO	SW8082	PCB-1260 (Aroclor 1260)	ND	MG/KG	0.11	0.0051	1	
02NE88SB239	8/22/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.019	0.012	1	
02NE88SB239	8/22/2002	CS	SO	SW8260B	Ethylbenzene	ND	MG/KG	0.046	0.011	1	
02NE88SB239	8/22/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.046	0.0088	1	
02NE88SB239	8/22/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.046	0.011	1	
02NE88SB239	8/22/2002	CS	SO	SW8260B	Xylene, Isomers m & p	ND	MG/KG	0.046	0.021	1	
02NE88SB239	8/22/2002	CS	SO	SW9060	Total Organic Carbon (TOC)	0.08	PERCENT	0.05	0.02	1	
Analytical Results-Trip Blanks and Equipment Blanks 2002											
02NE88TB001	8/14/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	ND	MG/KG	5.1	2.1	1	

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88TB001	8/14/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.02	0.011	1	
02NE88TB001	8/14/2002	CS	SO	SW8260B	Ethylbenzene	ND	MG/KG	0.05	0.0098	1	
02NE88TB001	8/14/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.05	0.0079	1	
02NE88TB001	8/14/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.05	0.0098	1	
02NE88TB001	8/14/2002	CS	SO	SW8260B	Xylene, Isomers m & p	ND	MG/KG	0.05	0.019	1	
02NE88TB002	8/17/2002	CS	W	AK101	Gasoline Range Organics (C6-C10)	ND	MG/L	.05	.02	1	
02NE88TB002	8/17/2002	CS	W	RSK175	Ethane	ND	MG/L	.0005	.0005	1	
02NE88TB002	8/17/2002	CS	W	RSK175	Ethene	ND	MG/L	.0015	.0013	1	
02NE88TB002	8/17/2002	CS	W	RSK175	Methane	ND	MG/L	.0005	.0003	1	
02NE88TB002	8/17/2002	CS	W	SW8260B	Benzene	ND	MG/L	.0005	.00011	1	
02NE88TB002	8/17/2002	CS	W	SW8260B	Ethylbenzene	ND	MG/L	.0005	.00013	1	
02NE88TB002	8/17/2002	CS	W	SW8260B	o-Xylene	ND	MG/L	.0005	.000079	1	
02NE88TB002	8/17/2002	CS	W	SW8260B	Toluene	.00015	MG/L	.0005	.000098	1	VJ
02NE88TB002	8/17/2002	CS	W	SW8260B	Xylene, Isomers m & p	ND	MG/L	.0005	.00022	1	
02NE88TB003	8/19/2002	CS	W	AK101	Gasoline Range Organics (C6-C10)	ND	MG/L	.05	.02	1	
02NE88TB003	8/19/2002	CS	W	SW8260B	Benzene	ND	MG/L	.0005	.00011	1	
02NE88TB003	8/19/2002	CS	W	SW8260B	Ethylbenzene	ND	MG/L	.0005	.00013	1	
02NE88TB003	8/19/2002	CS	W	SW8260B	o-Xylene	ND	MG/L	.0005	.000079	1	
02NE88TB003	8/19/2002	CS	W	SW8260B	Toluene	.00013	MG/L	.0005	.000098	1	VB
02NE88TB003	8/19/2002	CS	W	SW8260B	Xylene, Isomers m & p	ND	MG/L	.0005	.00022	1	
02NE88TB005	8/18/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	ND	MG/KG	5.1	2.1	1	
02NE88TB005	8/18/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.02	0.011	1	
02NE88TB005	8/18/2002	CS	SO	SW8260B	Ethylbenzene	ND	MG/KG	0.05	0.0098	1	
02NE88TB005	8/18/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.05	0.0079	1	
02NE88TB005	8/18/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.05	0.0098	1	
02NE88TB005	8/18/2002	CS	SO	SW8260B	Xylene, Isomers m & p	ND	MG/KG	0.05	0.019	1	
02NE88TB006	8/19/2002	CS	W	AK101	Gasoline Range Organics (C6-C10)	ND	MG/L	.05	.02	1	
02NE88TB006	8/19/2002	CS	W	SW8260B	Benzene	ND	MG/L	.0005	.00011	1	
02NE88TB006	8/19/2002	CS	W	SW8260B	Ethylbenzene	ND	MG/L	.0005	.00013	1	
02NE88TB006	8/19/2002	CS	W	SW8260B	o-Xylene	ND	MG/L	.0005	.000079	1	
02NE88TB006	8/19/2002	CS	W	SW8260B	Toluene	.00011	MG/L	.0005	.000098	1	VJ
02NE88TB006	8/19/2002	CS	W	SW8260B	Xylene, Isomers m & p	ND	MG/L	.0005	.00022	1	
02NE88TB007	8/21/2002	CS	SO	AK101	Gasoline Range Organics (C6-C10)	ND	MG/KG	5.1	2.1	1	
02NE88TB007	8/21/2002	CS	SO	SW8260B	Benzene	ND	MG/KG	0.02	0.011	1	
02NE88TB007	8/21/2002	CS	SO	SW8260B	Ethylbenzene	ND	MG/KG	0.05	0.0098	1	
02NE88TB007	8/21/2002	CS	SO	SW8260B	o-Xylene	ND	MG/KG	0.05	0.0079	1	
02NE88TB007	8/21/2002	CS	SO	SW8260B	Toluene	ND	MG/KG	0.05	0.0098	1	
02NE88TB007	8/21/2002	CS	SO	SW8260B	Xylene, Isomers m & p	ND	MG/KG	0.05	0.019	1	
02NE88EB001	8/14/2002	CS	W	AK101	Gasoline Range Organics (C6-C10)	ND	MG/L	.05	.02	1	
02NE88EB001	8/14/2002	CS	W	AK102	Diesel Range Organics (C10-C25)	ND	MG/L	.1	.042	1	
02NE88EB001	8/14/2002	CS	W	AK103	Residual Range Organics	.081	MG/L	.2	.073	1	VJ
02NE88EB001	8/14/2002	CS	W	SW8260B	Benzene	.00021	MG/L	.0005	.00011	1	VJ
02NE88EB001	8/14/2002	CS	W	SW8260B	Ethylbenzene	ND	MG/L	.0005	.00013	1	
02NE88EB001	8/14/2002	CS	W	SW8260B	o-Xylene	.00009	MG/L	.0005	.000079	1	VJ
02NE88EB001	8/14/2002	CS	W	SW8260B	Toluene	.00045	MG/L	.0005	.000098	1	VB
02NE88EB001	8/14/2002	CS	W	SW8260B	Xylene, Isomers m & p	.00022	MG/L	.0005	.00022	1	VJ
02NE88EB002	8/17/2002	CS	W	AK101	Gasoline Range Organics (C6-C10)	ND	MG/L	.05	.02	1	
02NE88EB002	8/17/2002	CS	W	AK102	Diesel Range Organics (C10-C25)	ND	MG/L	.11	.043	1	
02NE88EB002	8/17/2002	CS	W	AK103	Residual Range Organics	ND	MG/L	.21	.075	1	
02NE88EB002	8/17/2002	CS	W	SW8260B	Benzene	ND	MG/L	.0005	.00011	1	
02NE88EB002	8/17/2002	CS	W	SW8260B	Ethylbenzene	ND	MG/L	.0005	.00013	1	
02NE88EB002	8/17/2002	CS	W	SW8260B	o-Xylene	ND	MG/L	.0005	.000079	1	

Northeast Cape Phase III Remedial Investigation
2002 Analytical Results

sample	Date Collected	Sample Type	matrix	Method	analyte	Result	units	Reporting Limit	Detection Limit	dilution	valid_flag
02NE88EB002	8/17/2002	CS	W	SW8260B	Toluene	.00013	MG/L	.0005	.000098	1	VB
02NE88EB002	8/17/2002	CS	W	SW8260B	Xylene, Isomers m & p	ND	MG/L	.0005	.00022	1	
02NE88EB003	8/18/2002	CS	W	AK101	Gasoline Range Organics (C6-C10)	ND	MG/L	.05	.02	1	
02NE88EB003	8/18/2002	CS	W	AK102	Diesel Range Organics (C10-C25)	ND	MG/L	.1	.042	1	
02NE88EB003	8/18/2002	CS	W	AK103	Residual Range Organics	ND	MG/L	.2	.073	1	
02NE88EB003	8/18/2002	CS	W	SW8260B	Benzene	ND	MG/L	.0005	.00011	1	
02NE88EB003	8/18/2002	CS	W	SW8260B	Ethylbenzene	ND	MG/L	.0005	.00013	1	
02NE88EB003	8/18/2002	CS	W	SW8260B	o-Xylene	.00008	MG/L	.0005	.000079	1	VJ
02NE88EB003	8/18/2002	CS	W	SW8260B	Toluene	.00013	MG/L	.0005	.000098	1	VB
02NE88EB003	8/18/2002	CS	W	SW8260B	Xylene, Isomers m & p	ND	MG/L	.0005	.00022	1	
02NE88EB004	8/19/2002	CS	W	AK101	Gasoline Range Organics (C6-C10)	ND	MG/L	.05	.02	1	
02NE88EB004	8/19/2002	CS	W	AK102	Diesel Range Organics (C10-C25)	ND	MG/L	.1	.042	1	
02NE88EB004	8/19/2002	CS	W	AK103	Residual Range Organics	ND	MG/L	.2	.073	1	
02NE88EB004	8/19/2002	CS	W	SW8260B	Benzene	ND	MG/L	.0005	.00011	1	
02NE88EB004	8/19/2002	CS	W	SW8260B	Ethylbenzene	ND	MG/L	.0005	.00013	1	
02NE88EB004	8/19/2002	CS	W	SW8260B	o-Xylene	ND	MG/L	.0005	.000079	1	
02NE88EB004	8/19/2002	CS	W	SW8260B	Toluene	.00013	MG/L	.0005	.000098	1	VB
02NE88EB004	8/19/2002	CS	W	SW8260B	Xylene, Isomers m & p	ND	MG/L	.0005	.00022	1	
02NE88EB005	8/20/2002	CS	W	AK101	Gasoline Range Organics (C6-C10)	ND	MG/L	.05	.02	1	
02NE88EB005	8/20/2002	CS	W	AK102	Diesel Range Organics (C10-C25)	ND	MG/L	.11	.043	1	
02NE88EB005	8/20/2002	CS	W	AK103	Residual Range Organics	ND	MG/L	.21	.074	1	
02NE88EB005	8/20/2002	CS	W	SW8260B	Benzene	ND	MG/L	.0005	.00011	1	
02NE88EB005	8/20/2002	CS	W	SW8260B	Ethylbenzene	ND	MG/L	.0005	.00013	1	
02NE88EB005	8/20/2002	CS	W	SW8260B	o-Xylene	ND	MG/L	.0005	.000079	1	
02NE88EB005	8/20/2002	CS	W	SW8260B	Toluene	.00015	MG/L	.0005	.000098	1	VB
02NE88EB005	8/20/2002	CS	W	SW8260B	Xylene, Isomers m & p	ND	MG/L	.0005	.00022	1	
	Key:										
	CS-	Corps sample									
	MG/KG-	milligrams per kilogram									
	MG/L-	milligrams per liter									
	ND	not detected									
	SIM-	select ion monitoring									
	SO-	soil									
	VB-	analyte detected in the blank and the sample									
	VHB-	biased high									
	VLB-	biased low									
	VJ-	estimated value									

ATTACHMENT 3

Survey Information

MULLIKIN SURVEYS

Physical Address: 381 E. Bonanza Ave.
Mail: P.O. Box 790, Homer, AK 99603-0790
Ph. & Fax: (907) 235-8975 E-mail: mullikin@xyz.ne

September 19, 2002

Attention: Bonnie McLean
MWH Americas, Inc.
4100 Spenard Road
Anchorage, AK 99517

Re: Northeast Cape 2002

Dear Bonnie:

Please find enclosed an AutoCAD version 200i drawing file of Northeast Cape 2002.

"Ptsground" layer contains the ground elevation at monitor wells (#737 to 746). "Ptsmeas-2002" depicts "shots" for top of PVC pipe and bore hole locations. Also included on disk is a comma delineated point file. Small and large paper plot enclosed.

The preliminary drawing also shows the two rebar and aluminum caps set on site this year, points 3201 and 3202, and several building corners located (the garage and building 107).

Thank you for selecting Mullikin Surveys for this project.

Donald E. Mullikin, P.L.S.

DEM:jvm

C:\Documents and Settings\Administrator\My Documents\Montgomery-Watson\NorthEast Cape\NECape2002.wpd

737,98080.4499,96392.8914,82.29,ground 88-1
738,98257.8812,96455.0726,71.18,ground 88-2
739,98169.9401,96458.3585,77.75,ground 88-3
740,98365.8078,96331.1320,68.63,ground 88-4
741,98292.1088,96216.7210,68.37,ground 88-5
742,98271.8042,96140.1494,69.13,ground 88-6
743,98271.2457,96033.1581,72.83,ground 88-7
744,98185.9420,96083.4849,73.76,ground 88-8mw
745,98044.5023,96154.1887,81.79,ground 88-9
746,97970.2989,96293.0099,86.86,ground rb rp to 88-10
3110,98340.6943,96869.6889,72.84,fal2057
3201,98372.5080,96436.6413,67.29,SET 2" AL. CAP
3202,98447.3543,95922.5384,72.65,SET 2" AL. CAP
3206,98376.2296,96448.9517,66.14,BM ROCK
3208,98228.2467,96070.5355,71.93,88-18
3209,98185.5809,96079.5093,73.46,88-8mw
3212,98271.8042,96138.1732,68.83,88-6
3213,98270.0480,96171.5812,69.65,88-17
3214,98292.8156,96213.3614,67.87,88-5
3216,98320.2355,96241.8412,66.84,88-11
3217,98292.8032,96251.2105,67.11,88-14
3218,98224.4465,96253.7354,71.21,88-15
3219,98182.7094,96260.0342,72.95,88-16
3220,98044.5023,96150.7453,80.99,88-9
3222,98365.8078,96328.0254,68.23,88-4
3224,98303.2553,96341.1182,69.51,88-13
3225,98329.8776,96398.0750,69.71,88-12
3227,98258.6814,96450.2677,70.88,88-2
3228,98170.3266,96455.0710,77.35,88-3
3230,98080.6147,96389.9459,81.89,88-1
3232,97685.3823,96233.7486,98.14,22-2
3233,97683.0309,96206.4925,97.75,22-1
3234,97707.5250,96277.2986,95.15,se bldg cor
3235,97772.6025,96268.1874,94.13,ne bldg cor
3236,97909.4993,96375.6140,89.46,se bldg cor
3237,97980.2479,96365.9765,89.89,ne bldg cor
3238,97973.9268,96320.5867,89.46,nw bldg cor
3239,98271.2457,96029.4259,72.33,88-7
3241,98250.4944,96035.9200,73.99,bldg107 ne
3243,98213.0639,96337.5979,74.11,garage ne
3244,98139.2229,96375.9385,75.12,garage se
3501,99641.3824,97547.3059,45.82,fsp708
3506,97970.3921,96289.2790,86.86,rb rp to 88-10

Loc ID								
		East	North	"Elevation, ft. msl"		PVC	Water level	
				Ground	PVC	bgs	bt pvc	elevation
MW 88-1		98080.45	96392.89	82.29	81.89	-0.4	0	81.89
MW 88-2		98257.88	96455.07	71.18	70.88	-0.3	9.71	61.17
MW 88-3		98169.94	96458.36	77.75	77.35	-0.4	12	65.35
MW 88-4		98365.81	96331.13	68.63	68.23	-0.4	14.76	53.47
MW 88-5		98292.11	96216.72	68.37	67.87	-0.5	10.41	57.46
MW 88-6		98271.8	96140.15	69.13	68.83	-0.3	9.8	59.03
MW 88-7		98271.25	96033.16	72.83	72.33	-0.5	14.02	58.31
MW 88-8		98185.94	96083.48	73.76	73.46	-0.3	14.6	58.86
MW 88-9		98044.5	96154.19	81.79	80.99	-0.8	20.22	60.77
MW 88-10		97970.3	96293.01	86.86	86.46	-0.4	24.98	61.48
							Est.	Est.
SB 88-11		98320.24	96241.84	66.84		Frozen	12	54.84
SB 88-12		98329.88	96398.08	69.71		Frozen	6	63.71
SB 88-13		98303.26	96341.12	69.51		Frozen	4	65.51
SB 88-14		98292.8	96251.21	67.11			14	53.11
SB 88-15		98224.45	96253.74	71.21			13	58.21
SB 88-16		98182.71	96260.03	72.95			12	60.95
SB 88-17		98270.05	96171.58	69.65			13	56.65
SB 88-18		98228.25	96070.54	71.93			13	58.93
SB 22-1		97683.03	96206.49	97.75		Refusal	32	65.75
SB 22-2		97685.38	96233.75	98.14		Refusal	36	62.14

Sivuqaq, Inc.

FAX TRANSMITTAL

DATE:	March 21, 2002		
TO:	Ms. Lisa K. Geist CEPOA-EN-EE-A	**FROM:**	Morgan Apatiki Liaison
FAX:	(907) 753-2820	**FAX:**	(907) 985-5426
TEL:	(907) 753-5742	**TEL:**	(907) 985-5826
CC:	Sivuqaq, Inc. Board	**PAGES:**	Fourteen (14)

COMMENTS:

Finally, done with my review & comments. I will send the hard copies as of Today.
Please, excuse my typical errors. Thank You!

SIVUQAQ INCORPORATED
P.O. BOX 101
GAMBELL, ALASKA 99742-0101
(907) 985-5826

TO: Lisa K. Geist
CEPOA-EN-EE-A

FROM: Morgan L. Apatiki
Liaison

DATE: March 21, 2002

SUBJECT: SRI/GAM. Review & Comments

Dear Ms. Geist

Enclosed, Please, find my Review and Comments on the 2001 Supplemental Remedial Investigation, Gambell, St. Lawrence Island, Alaska. Draft, December 2001.

If you have any further questions, Please, feel free to call me. Thank-You! for your time and efforts, working with us.

Sincerely,

LIAISON
SIVUQAQ INCORPERATED

CC: Sivuqaq, Inc. Board
Gambell, Alaska

DOCUMENT: Gambell Draft 2001 Supplemental Remedial Investigation Report

REVIEWER: Morgan Apatiki, Community Liaison (March 21, 2002)

DATE: March 21, 2002

RESPONSES FROM: U.S. Army Corps of Engineers, Alaska District

Item 1: Section 1.1, Page 1-1
Comment: Data gaps from 1998 RI...
It has been mentioned that in 1998 RI, that some data gaps would be filled. What are those gaps? Have they been identified and characterized? What about those individual sites that were recommended for no further action. Can you specifiy or indicate their locations? Or have their identifications been specified in section 4.0 Table 4-1, page 4-1.

Response:
It is unclear what data gaps the reviewer is referring to. At the conclusion of the Phase I remedial investigation (1994) , the following sites were recommended for no further action (with the exception of eligible hazardous debris removal): Sites 1, 8, 12, 13, 16, 17 and 18. The 1998 Phase II Remedial Investigation Report by Montgomery Watson concluded that no significant environmental risks were exhibited by the contamination at any of the Gambell sites. No remedial responses were recommended except for soil removal at Site 4/Area 4B. However, the report did identify and recommend several Gambell sites for removal of debris (BDDR) and containerized hazardous/toxic waste (ConHTRW) under the DERP-FUDS program. Therefore, all data gaps were resolved at that time. At the conclusion of the Phase II investigation, no further action was recommended for Sites 2, 3 and 4D, except for the eligible hazardous debris removal actions. Site 5 was recommended for no further action following the additional geophysical investigation, and soil/groundwater sampling.

Explain about Site 6, 7, 9, 11, 14, and 15. (e.g.) Several sites were deemed ineligible for the DERP-FUDS program due to lack of identified hazardous debris or contamination.

New information presented in the Strategic Project Implementation Plan (SPIP), Historical Photographic Analysis (TEC Report), and Oil Spill Consultants Final Removal Action Report led to the 2001 Supplemental Remedial Investigation. The information presented in Table 4-1 only refers to sites investigated during this investigation.

The following sites are (will be?) recommended for no further action: include complete list??
Site 8, 16, 24, 25A, 25B, 26, 27, 28.

Item 1: Para 2 – Reports of new information of buried military debris, mapping...

Response: Although buried debris cannot be addressed by the FUDS program, it may be addressed through a cooperative agreement between the Native Village of Gambell and the Department of Defense under the NALEMP program. The Golder Associates report was generated as part of the planning process for the NALEMP cooperative agreement.

The reviewer is correct that the most current aerial photograph (contained in the GIS-Based Historical Time Sequence Analysis) of Gambell dates from 1994. However, the basemaps utilized by Montgomery Watson in the 2001 Supplemental Report do depict the newer housing

units and contain other updated details. Please specify which areas of concern are improperly placed on Figure 1-2 and 3-1.

Item 1: Section 1.1/1.2/1.5.2
Comment: The description of these sections that are listed on the left, seem to have the same wording since the Year 2000. The clean-up project is recommended as contemplative and speculative of the remedial and removal actions.

Response: Comment noted.

Item 2: Section 2.2.2.2 – Subsurface borehole soil sampling was insufficient
Response: Insert MWH response.
Site 25B was located with the assistance of local community members, and based on a recommendation from the Sivuqaq Board. The borehole samples were not intended to and cannot penetrate permafrost conditions.

Item 2: para 2
Comment: Soil borings that were planned to terminate at frozen soils indicated different depths of the frozen soil that were encountered… At which level of frozen layer are you indicating the boreholes that were drilled beyond the frozen soil interface? Etc.
Response: Insert MWH response.
Permafrost levels tend to vary with depth, but are fairly consistent throughout the Village of Gambell. Permafrost levels also vary from year to year, between seasons.

Item 3: Section 1.1 – Groundwater flow/level variation
Comment: The groundwater flow level is high in early spring and in the fall season. The degradation of water level is during the summer season. The water level can be varied and caused by the high tide from south and north currents, especially during the high wind. The water level seems to disappear in late summer and tend to elevate when the fall season arrives. The frozen soil begins to rise to the surface when the temperature falls. The groundwater flow is from the East to West and intersects to the South end of the ponds beyond the end of the Troutman Lake.

In regards to the contamination that is underground in the vicinity of the village of Gambell; The repetition of the elevating water level during the fall and frozen soil during winter and spring can cause the DRO, etc. to rise up and down in the layered section of the drainage basin followed with the stain resulted into the RRO. The results of the rusted or discolored gravel on the soil surface indicates the presence of the chemical or eroding of heavy metal objects underneath that section. Both the water level and frozen soil during the fall can elevate the organic compounds to the surface. The oily substance can always be on top of the water level and on flux of the frozen soil. There are several areas of rusted and orange colored gravel on top of the surface besides the exposing military debris.
Response: Comments noted. We agree that rising and falling permafrost and groundwater levels can cause a "smear" zone over which contamination may be present.

Item 3: Continued
Comment:

Local Issues and expressed concerns	Response
Photoionization detector not working well	This device was working properly, field notes document regular calibration of the device.
Sampling procedures do not seem accurate	The field crew followed the approved workplan

Missing drilling rig part	According to the field crew (and field notes), this equipment was in good working order.
Site which are declared highly contaminated	No sites have been declared as highly contaminated.
Environmental Impact Statement caused by military demobilization from 1951 to 1957	We are unaware of such a statement.
Aware of highly contaminated areas identified by URS (1985) and Golder Associates (1994).	Please provide more specifics on these sites. A review of the URS report indicates that no highly contaminated areas were identified.
Aware of DRO/GRO/RRO encountered by construction crew during installation of mains. Reported to be on top of permafrost, eye irritating substance was encountered at Site 16 and 25A.	Observations noted.
Aware of houses and buildings built over and near military buried debris and contamination. Need coordination provided beforehand.	Information is available to the public, and any other stakeholders involved with construction projects at Gambell can access reports at the 4 Information Repositories.
Aware of precaution given by military officers before site demobilization to not go near burial sites.	Comment noted. We are not aware of such a precaution.
Community imperiled regarding the presence of contamination in the vicinity of Gambell, why not included in the National Priority List.	Contamination has been identified above generic state cleanup levels (ADEC Method 2) at Sites 4A, 4B, 6, 7, 12, and 18A. However, the primary contaminants of concern are elevated levels of diesel range organics, and some metals.
Recommendation from community that geophysical surveys and remedial investigation not thorough enough, and proceeded without logic.	Comment noted. The Alaska District has followed the CERCLA process for investigating and remediating hazardous waste sites, and the Alaska Department of Environmental Conservation has been overseeing our efforts.

Item 4: Section 2.2.2.3 – Fuel fingerprinting
Comment: As you may have known and understood, the following soil borings designated for the finger printing, are under and near the buildings inflicted by the military debris and contamination. The locals handling of the petroleum products for many years with small amounts of oil spill reported and stained from the intense fume of the products have been affiliated with the spoilage done by the FUDS activities.
Response: Comment noted. The purpose of the fuel fingerprint analyses was to help determine if non-military sources of contamination were contributing to any detected contaminants. The Corps' responsibility is to evaluate and remediate former military impacts, only. If contamination from several sources is co-mingled or mixed together, a different process must be followed.

Item 5: Section 2.3.1 – Freezing level occurs in mid September, groundwater levels... recommendation from community of Gambell to reconsider assumption that groundwater flow level is at lowest in September.
Comment: As it has been mentioned in the subsequent sections, the freezing level occurs in mid September, followed by the formation of the 4 to 6 inches think frozen soil, from two to six feet

intervals in depth measurement. The Community of Gambell is Recommending the CORPS to Reconsider Evaluation of the FS/RI regarding the statement mentioned in Item 4 and Groundwater Flow Level is at the lowest level and the formation of the frozen soil tends to surface during the Month of September. The spoilage done by the FUDS actions believed to be further down than the sample depth collected by MW's performance. Can you tell me why the groundwater samples were not collected?
Response: Insert MWH response. Groundwater was not encountered in any location, except for soil boring 18A.

Item 6: Section 3.1 – Site 4A and 4B contaminated with oil spills, etc.
Comment: Both Radar Sites, 4A and 4B are considered contaminated with oil spills, etc. caused by the poor handling of fuel products, dumping of waste oil, and other canistered oil substance, according to locals perspective's that worked and familiar with the Military Activities. The local laborers that worked during the MW clean-up activities in 1990's report a smell of intense fumes present on these two sites. It is known to have oil drainage at those two sites.
Response: Comment noted. Soils were removed from Site 4B during the removal actions conducted by Oil Spill Consultants in 1999. Initial confirmation sampling conducted after the soil removal was completed indicated additional contamination remained. Montgomery Watson conducted additional sampling in 2001 to verify Oil Spill's results, and their data also shows some residual petroleum contamination. However, high levels of metals (chromium) were not confirmed. In addition, earlier investigations did not show evidence of contamination downgradient of Site 4.

Item 7: Section 3.2 – Origin of DRO, etc at Site 4B
Comment: The burning of Burning of Site 4B Radar Site, not only caused the Ordnance to explode, it also ignited the diesel and gasoline. The explosion mushroomed like a bomb, after the other viewed from the village of Gambell and local that are close contact with the radar site. And that is where the originated DRO, GRO, and RRO mostly come from. The potable drinking water source has been Noted. The local people use the stream for water, for many years coming down from those contaminated areas. It is recommended that these mentioned, tested for compatibility.
Response: It is unclear where these drainages exist, how intermittent are they, and does the comment include the already investigated former infiltration gallery. Groundwater has already been monitored at base of Sevuokuk Mountain.

Item 8: Section 3.3
Comment: Inconsistencies in Report, Inaccurate Figure 1-2 and 3-1
Response: Please specify in more detail what information is incorrect.

Comment: Boreholes drilled outside of landfills, buried debris, area of contamination.
Response: It is impossible to drill exactly over buried sewer /utility line areas. We realize the new housing units are not depicted on the 1994 aerial photo, however they are included on more recent basemaps.

Comment: Site 6 one of the potentially impacted sites....Site 27 under new BSHA housing...Oil spill from AVEC tank farm and ANILCA store tank farms has been affiliated with area Site 25B. Thickness of oil spill substance estimated at 12 inches in depth. Black substance is believed to be a result from military activities...
Response: There is no evidence to suggest that any contamination is present at Site 25B. Contamination must be of military origin to be eligible for investigation and cleanup under the FUDS program.

Item 9: Section 3.4
Comment: This site [Site 7] was one of the two reported to be messiest and littered with waste oil and fuel products...transformer burial sites have not been removed...
Response: No evidence of significant contamination, some fuels have been documented at Site 7, MWH recommends "hot spot" surface soil removal.

Item 10: Section 3.5
Comment: Site 8 also burial site for OE anomaly.
Response: I believe the reviewer is referring to Area D, the beach burial site for small arms ammunition documented by Huntsville/Earth Tech in the ordnance investigation.

Item 11: Section 3.6
Comment: Sites 12, 28 and Area D should be combined and considered contaminated. Plants are harvested in this vicinity by Gambell residents for subsistence purposes. Recommend testing of the plants.
Response: Comment noted. No evidence of significant contamination, some elevated levels of metals documented by MWH, they recommended "hot spot" removal of surface soils. We do not recommend plant sampling, perhaps could be addressed under NALEMP program?

Item 12: Section 3.7
Comment: Stained gravel by Site 16, congeals on warm days, since snow covered most of year, cannot be result of local ATV traffic.
Response: Sampling has not revealed significant contamination.

Item 13: Section 3.8
Comment: Site 18 known as the military camp...recommend conducting air quality testing in this area. Army camp facility pumphouse has not been identified and documented. Explain word "biased" as it relates to subsurface sampling results at borehole 18A.
Response: Air quality testing is not recommended at this time, no evidence of PCBs documented in soils of this site or nearby sites. No reason to believe contamination exists by the pumphouse. Sample collected at borehole 18A was gravel subsurface soil, laboratory qualified the chemical sampling results due to matrix interference.

Item 14: Section 3.9
Comment: Site 24 is one of the other contaminated sites
Response: Comment noted.

Item 15: Section 3.10
Comment: Construction crews encountered DRO, GRO, waste oil and RRO in area of Site 25A, on top of permafrost, believed to have migrated east from area of Sites 16, 18 and 24. Thickness of organic material is about 12 inches in depth. Eye irritating, smell.
Response: Comment noted.

Item 16: Section 3.11
Comment: This drainage basin [Site 25B] is believed to be migrated from military facilities and DRO, etc. disposal at Sites 6 and 27. It is now accumulated with oil-spill incidents described in item 7, para 5 [village store and fuel tank farm].
Response: Analytical results from the 2001 investigation did not indicate petroleum contamination in this area above ADEC cleanup levels. Fuel-fingerprinting analysis were also

inconclusive as the potential source of any residual petroleum. Contamination from non-military sources cannot be addressed by the FUDS program.

Item 17: Section 3.12
Comment: This site [Site 26] was a very active and prominent anomaly.
Response: Comment noted. Site 26 was selected based on review of the Historical Photo Analysis (TEC Report).

Item 18: Section 3.13
Comment: Site 27 was storage area for drums of diesel, gasoline, and other lubricants. When the military demobilized, some of the diesel was distributed to local U.S. Army, most of the stacked drums were pierced and drained to the ground, leftover free product was buried with some OE anomaly. Empty drums were gathered and loaded onto ship, dumped into the sea about 285 miles southwest of Gambell. Houses are built over these contaminated sites, several rust and orange-colored degraded soil on the surface, and deteriorated exposed drums are present.
Response: Comment noted. A rust colored location in this area was sampled by MW during the 2001 field investigation, at the request of the Sivuqaq Board. The analytical results indicated no evidence of contamination.

Item 19: Section 3.14
Comment: Site 28 is also described in Section 3.6 (Site 12)
Response: Comment noted.

Item 20: Section 4.0
Comment: In regards to the insufficient confirmation samples stated on this Memorandum of Report; It is recommended that the Geophysical Verification Plot and Geophysical Prove-Out be ruled out until the complete Sample Analytical Results are Applicable.
Response: It is unclear what is being referred to with this comment. Concerns with the ordnance investigation and results should be raised during the public review of the EECA, which is anticipated to be available in April. New confirmation samples were collected from areas remediated during 1999 by Oil Spill Consultants to determine residual contamination levels, and address concerns raised by ADEC regarding the original sampling procedures used by Oil Spill Consultants.

NOTE:
Comment: URS surface and subsurface water sampling observations of interest, indicated chemical oxygen demand for site 1, 6 and 28 are particularly interesting...
Response:

NOTE:
Comment: The natural Environmental Habitat was affected and the Archaeological Grave Sites were disturbed by the Military Activities.
Response: Comment noted.

GENERAL:
Comment: The Communities Recommendation for 2001 Supplemental Remedial Investigation is Gambell, St. Lawrence Island, Alaska is considered as rival to the risk assessment work plan that is performed at Northeast Cape. It is RECOMMENDED that a thorough investigation be executed to characterize and identify the Characteristics of PCB Analysis by Physical, Biological and Chemical Testing.

Response: Testing for PCBs has been conducted during previous investigations, no evidence of contamination has been documented.