REPORT

DATA SUMMARY REPORT

YEAR 3 EVENT 1 LONG-TERM PILOT CAP MONITORING

REMOVAL ACTION
NW NATURAL "GASCO" SITE

Prepared for

U.S. Environmental Protection Agency, Region 10

Prepared by

Anchor QEA, LLC

On behalf of

NW Natural

November 2009

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Prepared for Submittal to

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November 2009

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LIST OF ACRONYMS AND ABBREVIATIONS

µg/L	microgram per liter
BTEX	benzene, toluene, ethylbenzene, and xylene
CAS	Columbia Analytical Services, Inc.
COC	chain-of-custody
DOC	dissolved organic carbon
EPA	U.S. Environmental Protection Agency
LCS	laboratory control sample
LCSD	laboratory control sample duplicate
LDC	Laboratory Data Consultants, Inc.
MARP	Monitoring and Reporting Plan
MD	matrix duplicate
MDL	method detection limit
MRL	method reporting limit
MS/MSD	matrix spike and matrix spike duplicate
NELAP	National Environmental Laboratory Accreditation Program
Order	Administrative Order on Consent
PAH	polycyclic aromatic hydrocarbons
PCB	polychlorinated biphenyl
QA/QC	quality assurance/quality control
RAOs	Removal Action Objectives
RAPP	Removal Action Project Plan
Site	NW Natural "Gasco" Site
SOW	Statement of Work
SVOC	semivolatile organic compound
TOC	total organic carbon
TPH-Dx	total petroleum hydrocarbons – diesel range
TSS	total suspended solids
VOC	volatile organic compound

1 INTRODUCTION

NW Natural entered into an Administrative Order on Consent (Order) with the U.S. Environmental Protection Agency (EPA) on April 28, 2004, to perform a time-critical removal action at the "Gasco" site (Site; EPA 2004a; Figure 1). The Order requires that NW Natural perform a number of actions associated with removing a tar body (as defined in the Order) from the riverbank and nearshore sediment adjacent to the Site. The extent of the tar body was defined during the design characterization sampling (Figure 2). In accordance with the EPA-approved *Final Removal Action Project Plan* (RAPP; Anchor 2005), removal of the tar body was initiated in August 2005 and was completed in late October 2005.

Pending future implementation of a site-wide remedy, long-term monitoring of the tar body removal occurred in 2006 and 2007 (referred to as Year 0 and Year 1 long-term monitoring) in accordance with the EPA-approved *Monitoring and Reporting Plan* (MARP; Anchor 2006). Evaluation of the first two years of post-removal long-term monitoring results showed that a revised monitoring approach was warranted to continue to collect useful information relevant to the identified post-removal monitoring objectives. The revised monitoring approach was summarized in a letter to EPA dated March 26, 2008, with the subject "Proposed Revised Long-Term Pilot Cap Monitoring Approach – NW Natural 'Gasco' Site." EPA approved of this approach in a letter to NW Natural dated April 30, 2008.

In summary, the revised monitoring approach consisted of the following activities and a reporting procedure and schedule identical to those defined in the MARP (Anchor 2006):

- Diver reconnaissance surveys once per summer during low river elevations
- Bathymetric surveys during summer low and winter high river elevation conditions
- Continued monitoring for the presence of product (i.e., tar or oil) in the hydraulic low spot created by the removal action during the annual low river elevation diver reconnaissance surveys
- Continued monitoring of the stability of the pilot cap armor and adjacent fringe through completion of the semi-annual bathymetry surveys and annual diver reconnaissance surveys
- Continued monitoring of depositional sediment concentrations both within the pilot cap area and in the fringe cover area

- Continued monitoring of the discrete near-bottom surface water concentrations at the nine pilot cap monitoring stations and downstream and upstream "background" stations

In accordance with the reporting requirements identified in the MARP (Anchor 2006), the remainder of this Data Summary Report provides the Year 3 Event 1 monitoring results. As requested by EPA, this Data Summary Report includes a summary of the monitoring conducted, methods used, tabulated results, data validation reports, and sampling location maps.

2 SUMMARY OF MONITORING ACTIVITIES AND ANALYSES

This section summarizes the Year 3 Event 1 sampling activities. Monitoring related to meeting the Removal Action Objectives (RAOs) of the Statement of Work (SOW) versus evaluation of the pilot cap are noted in the heading of each of the following subsections. The results of sampling activities are described in Section 3.

2.1 Visual Inspection (RAO-specific)

Visual monitoring has been conducted since completion of the removal action to identify any areas of sheen or product release per the RAOs in the project SOW. Visual monitoring was conducted monthly from January 2009 to July 2009, following submittal of the Year 2 *Annual Data Evaluation Monitoring Report* (Anchor QEA 2009). Monitoring was conducted from the waterside, the top of the bank, the beach, and the adjacent pipeline structure to ensure visual coverage of the removal action area.

As defined in the MARP (Anchor 2006), a diver reconnaissance survey was conducted August 7, 2009, during the Year 3 Event 1 monitoring. Four transects perpendicular to the shoreline were conducted (identical to transects used during the Year 0, Year 1, and Year 2 reconnaissance surveys), each extending 50 feet beyond the pilot cap limit on the channelward side (Figure 3). The diver utilized a BlueFin™ VX2100 SunRay Pro Lights lighting system to ensure the highest video quality as possible. Even with the BlueFin™ lighting system, however, the visibility was limited to several feet; the video is of adequate quality to evaluate conditions along the transects given the relatively homogenous conditions throughout the reconnaissance area. Results of the visual surveys are discussed in Section 3.1.

2.2 Bathymetric Survey (RAO-specific)

A bathymetry survey was performed during the Year 3 Event 1 monitoring activities on August 5, 2009, within the entire area previously bounded by the outer area containment system to monitor changes in mudline elevation and assess changes in cap and fringe cover thickness.

The bathymetry survey results are discussed in Section 3.2.

2.3 Recent Depositional Sediment Sampling (Site-specific)

As identified during the Year 0, Year 1, and Year 2 long-term monitoring activities, a depositional layer of surface sediment was identified during the diver reconnaissance survey that overlaid the pilot cap armor layer and fringe cover outside of the pilot cap area. This layer ranged in thickness from approximately 2 to 12 centimeters across the entire pilot cap area (Table 1). Although not required by the MARP (Anchor 2006), NW Natural has continued to sample these sediments to determine the chemical characteristics of the river-wide sediment loading to the pilot cap area and perimeter fringe cover area and evaluate the potential concentration differences in these two areas. This material was sampled on August 6 at four pilot cap monitoring stations (PCM-02, PCM-04, PCM-06, and PCM-09), as well as at three stations in the fringe cover area (PCM-14, PCM-15, and PCM-22; (Figure 4). Sampling stations PCM-04 and PCM-22 were added to the revised monitoring approach to further evaluate depositional sediment concentration trends within the pilot cap and fringe cover areas, respectively. The samples were analyzed for the full list of Portland Harbor Superfund Site contaminants of interest (Integral 2004), except for dioxins/furans and polychlorinated biphenyl (PCB) congeners, rather than site-specific contaminants of interest. Dioxins/furans and PCB congeners were not analyzed to remain consistent with the Year 2 Event 1 monitoring.

The depositional surface sediment results are provided in Section 3.3.

2.4 Near-Bottom Surface Water Sampling (Pilot Cap-specific)

Discrete near-bottom surface water samples were collected directly overlying the cap and at locations downstream and upstream from the removal action area. Nine near-bottom surface water samples were collected within the pilot cap area (PCM-02 to PCM-06, PCM-08 to PCM-10, and PCM-21). In addition, discrete samples were collected from three upstream (PCM-13, PCM-19, and PCM-20) and one downstream (PCM-01) stations. The sampling locations are shown on Figure 4.

The discrete samples were collected on August 6, 2009, in accordance with the MARP (Anchor 2006) protocols. The discrete samples were collected first thing in the morning prior to any monitoring activities with the potential to disturb the mudline and increase suspended solids in the water column. The discrete samples were analyzed for total organic carbon (TOC); dissolved organic carbon (DOC); total suspended solids (TSS); total and dissolved iron; sulfides; total, free and amenable cyanide; polynuclear aromatic hydrocarbons (PAHs); and benzene,

toluene, ethylbenzene, and xylene (BTEX). The DOC and dissolved iron were laboratory-filtered so the results are in dissolved concentrations.

The discrete near-bottom surface water sampling results are discussed in Section 3.4.

2.5 Chemical Analysis

Columbia Analytical Services, Inc. (CAS), a National Environmental Laboratory Accreditation Program-certified (NELAP) laboratory located in Kelso, Washington, conducted all bulk sediment and water chemical analyses. Chemical testing adhered to the procedures defined in the MARP (Anchor 2006).

2.6 Quality Assurance/Quality Control (QA/QC)

2.6.1 Field QA/QC

Field quality assurance/quality control (QA/QC) samples were used to evaluate the efficiency of field decontamination procedures. Trip blanks accompanied samples submitted to the laboratory on August 7, 2009. One rinsate blank each was submitted in conjunction with depositional sediment sampling and near-bottom surface water sampling. In addition, one field blank, consisting of analysis of the deionized water used for the rinsate blanks, was submitted and analyzed.

2.6.2 Laboratory QA/QC

Matrix spike and matrix spike duplicates (MS/MSD) were analyzed with each organic analytical method with the exceptions noted here. A MS and a matrix duplicate (MD) were analyzed with each inorganic analytical method except total solids, TSS, and grain size analyses (which do not require an MS sample). Additional quality control included method blanks, surrogate compound analysis, and laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) analysis.

PAH analyses of the discrete surface water samples deviated from the QA/QC guidelines listed above. An LCS/LCSD was utilized in the PAH analysis to verify compliance and evaluate control because no MS/MSD analysis was performed. All depositional sediment samples followed the QA/QC guidelines.

2.6.3 Chain-of-Custody

Chain-of-custody (COC) forms were used to track sample custody and document the proper handling and integrity of all field samples. All sediment and water samples were transported to the laboratory directly by the sampling crew. All samples were packed in chilled coolers. Copies of the COC forms for all sampling media are provided in Appendix A.

2.7 Data Validation

All data submitted in this report were validated by Laboratory Data Consultants, Inc. (LDC) of Carlsbad, California. The data validation was performed under EPA guidelines, as described in the MARP (Anchor 2006). The analyses were validated using the following documents, as applicable to each method:

- Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (EPA 2004b)
- National Functional Guidelines for Chlorinated Dibenzo-p-Dioxins and Chlorinated Dibenzofurans Data Review (EPA 2005)
- Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (EPA 2008)

3 MONITORING RESULTS

3.1 Visual Inspection/Diver Survey

The diver reconnaissance survey video is provided in Appendix B. No product release was identified and no erosion of the armor material near the upper portion of the organoclay mat was identified as compared to the Year 0 monitoring reported conditions. Visible staining of the diver gloves was identified during the hand penetration inspections (approximately every 10 feet) of the depositional sediment in the following locations:

- Transect 30–Within the fringe cover area approximately 10, 30, 40, and 50 feet shoreward of the point labeled 30-2 on Figure 3, as well as within the pilot cap area at approximately 60, 90, 110, 120, and 130 feet shoreward from the same point. Similar staining was identified in these general areas along this transect during previous monitoring events. As discussed in NW Natural's response to EPA comments letter dated June 4, 2007, dredging did not occur in this area in order to protect the fuel-oil pipeline supports from potential damage. The diver video indicates that the staining occurred during hand probing along the steep side slope created by the dredging outside of the protected area.
- Transect 180–Within the fringe cover area approximately 30 feet from the point labeled 180-2 (Figure 3). As shown in Figure 3, this transect is located directly along the slope created by the upstream dredge cut. It is anticipated that localized slope reconfiguration in the identified areas has led to expression of underlying affected sediments.

The visual monitoring forms are provided in Appendix C. No areas of sheen or product release were identified during any of the visual inspections.

3.2 Bathymetry Survey

The results of the bathymetry survey are provided in Figure 5. The isopach surface comparing the elevation differences identified between the post-cap placement (conducted in October 2005) and the Year 3 Event 1 surveys is provided in Figure 6. This isopach surface continues to document that the pilot cap area is, in general, a stable depositional environment and has withstood erosive forces during the high winter flows. Consistent with the Year 0, Year 1, and Year 2 survey results (Anchor 2007 Anchor 2008 and Anchor QEA 2009), a small area within the protected area (i.e., area with no dredging) just upstream from the channelward pipeline support continues to show elevations below the as-built capping elevations. The lower

elevations are in the same general footprint and depths as the Year 0, Year 1, and Year 2 surveys, indicating no significant additional erosion in this area. As discussed in previous monitoring reports, it is anticipated that this erosion is due to slope failure into the dredged area just upstream. Note that the accuracy of the bathymetry survey is estimated to be plus or minus 0.5 foot.

3.3 Recent Depositional Sediment Sampling

The depositional surface sediment collection forms are provided in Appendix D and the analytical results are provided in Table 2. A number of metals, PAHs, and pesticides are above the identified screening levels in the recently deposited sediments at the pilot cap and fringe cover stations.

3.4 Near-bottom Surface Water

The discrete near-bottom surface water analytical results are provided in Table 3. The total PAH concentrations at each of the pilot cap and downstream and upstream stations were above the identified screening levels. In addition, the benzo(a)pyrene concentration at PCM-09 and PCM-10 (pilot cap stations) were above identified screening levels.

3.5 Quality Assurance/Quality Control

The overall data QA/QC results for the Year 3 Event 1 monitoring effort are described in the following sections. In summary, data quality objectives were generally met, with the exceptions discussed in Section 3.5.3.

3.5.1 Field QA/QC

The field QA/QC analytical results are provided in Table 4. Only very low level detections were identified indicating the equipment decontamination protocols were successful.

3.5.2 Laboratory QA/QC

Data qualifiers assigned as a result of the data validation and their definitions are shown on each of the respective analytical results tables (i.e., Table 2 to Table 4).

3.5.3 Data Validation

Data qualifiers assigned as a result of the data validation and their definitions are shown on each of the respective analytical results tables (i.e., Table 2 to Table 4). Data validation reports are provided in Appendix E. These reports verified the analytical accuracy and precision of the chemical analyses performed during this monitoring effort. The Year 3 Event 1 monitoring data may have been qualified as estimated for a particular analysis based on method or technical criterion as stated in the functional guidelines (EPA 2004b, 2008). Data qualified with a "J" indicates that the associated numerical value is the approximate concentration of the analyte. Data qualified with a "UJ" indicates the approximate reporting limit below which the analyte was not detected. Consequently, these data qualifications are not expected to alter the data quality objectives defined in the MARP (Anchor 2006).

A brief description of the data usability for each of the media monitored is provided in the following sections.

3.5.3.1 Depositional Sediment Results

Seven depositional sediment samples were collected on August 6, 2009. All chemical analyses were analyzed by CAS and reported under the lab report ID K0907184. There were no problems encountered with total solids; ammonia; total cyanide; pH; grain size; butyltins; phenols; and diesel- and residual-range total petroleum hydrocarbons (TPH-Dx) analyses. Remaining analyses contained QA/QC-related issues pertaining to method or technical criteria. Associated sample results were either modified or qualified as estimated based on these findings. All data were determined to be useable as modified or qualified in this data report with two exceptions. Low recoveries of the semivolatile organic compound (SVOC) LCS and LCSD samples resulted in the rejection 2, 4-dimethylphenol in all sediment samples. MS/MSD analyses of hexavalent chromium did not recover; therefore, all associated non-detects were rejected (all samples but PCM-22DS-090806). Overall, the completeness goal and data quality objectives were judged to be met for this sampling event.

3.5.3.2 Discrete Surface Water Results

Thirteen surface water samples were collected August 6, 2009. The samples were submitted to CAS and reported under the lab report ID K0907184. There were no problems encountered with the sulfide, DOC, TOC, and TSS analyses. The remaining analyses contained a few QA/QC related issues pertaining to method or technical criteria. Associated results were either

modified or qualified as estimates based on the findings. All data were deemed useable as modified or qualified. No data were rejected for these samples.

3.5.3.3 QA/QC Analytical Results

Analysis of the depositional sediment rinsate blank (i.e., sample PCM-DSRB-090806) resulted in the detection of diesel and residual range hydrocarbons, aluminum, nickel, chromium, copper, endrin aldehyde, toluene, and naphthalene below the method reporting limit (MRL) but above the method detection limit (MDL). Zinc was detected above the MRL.

Analysis of the discrete surface water rinsate blank (i.e., sample PCM-DRB-090806) resulted in the detection of toluene, benzo(a)anthracene, and 2-methylnaphthalene below the MRL but above the MDL. Naphthalene was detected above the MRL.

Analysis of the field blank (i.e., sample PCM-FB-090806) resulted in the detection of diesel and residual range hydrocarbons, aluminum, nickel, chromium, 4,4-DDD, endrin aldehyde, toluene, and naphthalene below the MRL but above the MDL. Zinc and diethyl phthalate were detected above the MRL.

One trip blank was analyzed in association with sample collection. No volatile organic compounds (VOCs) were detected in this analysis except for chloromethane which was not detected in any associated samples.

None of the depositional sediment or discrete surface water results was qualified based on the rinsate or field blank analytical results.

3.5.3.4 Reporting Limits

As shown in Table 5, several target laboratory MRLs for depositional sediment samples were exceeded. In most cases, these were slight exceedances due to the high percent of moisture in the samples. The laboratory indicated that for SVOC, pesticide, and herbicide analyses, some samples required dilutions due to high levels of non-target background compounds and matrix interference. For these samples appropriate method clean-up procedures were attempted prior to dilution of the sample extracts.

Laboratory reporting limits for the discrete surface water analyses were met for all analytes except for total, amenable, and free cyanide. For the cyanide analyses the lab can not achieve a 5.2 microgram per liter (μg/L) MRL due to instrument constraints. There were some SVOC compounds that were slightly higher than the MRL (0.022 μg/L rather than 0.020 μg/L) but these exceedances were deemed insignificant.

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TABLES

Table 1
Sample Collection Information–Year 3 Event 1 Long-term Monitoring

Station	Proposed (NAD 83)		Actual (NAD 83)[e]		Depositional Surface Sediment			Surface Water	
	Latitude	Longitude	Latitude	Longitude	Date	Time	Depositional Layer (cm)	Date	Time
PCM-01	45.5815213	-122.7611330	45.5815213	-122.7611330	--	--	--	8/6/2009	10:00
PCM-02	45.5801345	-122.7583817	45.5801345	-122.7583817	8/6/2009	16:00	11	8/6/2009	10:55
PCM-03	45.5800443	-122.7584068	45.5800443	-122.7584068	--	--	--	8/6/2009	11:10
PCM-04[a]	45.5799599	-122.7584167	45.5799599	-122.7584167	8/6/2009	16:30	8	8/6/2009	11:25
PCM-05	45.5801330	-122.7582274	45.5801330	-122.7582274	--	--	--	8/6/2009	11:40
PCM-06	45.5800349	-122.7582066	45.5800349	-122.7582066	8/6/2009	16:10	12	8/6/2009	13:00
PCM-21[b]	45.5798940	-122.7582338	45.5798940	-122.7582338	--	--	--	8/6/2009	13:40
PCM-08	45.5800056	-122.7580492	45.5800056	-122.7580492	--	--	--	8/6/2009	14:00
PCM-09	45.5798946	-122.7581036	45.5798946	-122.7581036	8/6/2009	16:20	10	8/6/2009	14:15
PCM-10	45.5798427	-122.7582100	45.5798427	-122.7582100	--	--	--	8/6/2009	14:30
PCM-13	45.5789664	-122.7548505	45.5789664	-122.7548505	--	--	--	8/6/2009	10:15
PCM-14[c]	45.5804451	-122.7578888	45.5804451	-122.7578888	8/6/2009	17:15	5/2	--	--
PCM-15[c]	45.5802183	-122.7572758	45.5802183	-122.7572758	8/6/2009	18:20	4/3	--	--
PCM-19	45.5787667	-122.7548054	45.5787667	-122.7548054	--	--	--	8/6/2009	10:30
PCM-20	45.5791756	-122.7549144	45.5791756	-122.7549144	--	--	--	8/6/2009	10:45
PCM-22[d]	45.5802003	-122.7579525	45.5802003	-122.7579525	8/6/2009	17:40	11	--	--

Notes:

a Additional depositional sediment sampling station collected during the Year 2 Event 1, Year 2 Event 2, and Year 3 Event 1 sampling to better evaluate depositional sediment concentrations within the pilot cap area.

b This station was offset approximately 15 feet southwest from station PCM-18 sampled during Year 0 Event 3. Gravel placed at the target station location as part of the Phase 2 offshore drilling actitivies precluded sampling at PCM-18.

c The grab sampler was deployed twice at the same location to retrieve sufficient sample volume for analysis.

d Additional depositional sediment sampling station collected during the Year 2 Event 1, Year 2 Event 2, and Year 3 Event 1 sampling to better evaluate fringe cover depositional sediment concentrations.

e The actual sampling stations were collected when the vessel was on station.

Table 2

Depositional Surface Sediment Analytical Results–Year 3 Event 1 Long-term Monitoring

Location ID: Sample ID: Sample Date: Monitoring Event:	ODEQ (2001) Bioaccumulative Level II Screening	MacDonald et al. (2000) Consensus Based	PCM-02 PCM-02DS-090806 08/06/2009 Year 3 Event 1	PCM-04 PCM-04DS-090806 08/06/2009 Year 3 Event 1	PCM-06 PCM-06DS-090806 08/06/2009 Year 3 Event 1	PCM-09 PCM-09DS-090806 08/06/2009 Year 3 Event 1	PCM-14 PCM-14DS-090806 08/06/2009 Year 3 Event 1	PCM-15 PCM-15DS-090806 08/06/2009 Year 3 Event 1	PCM-22 PCM-22DS-090806 08/06/2009 Year 3 Event 1
Conventional Parameters (mg/kg)									
Ammonia			72.7	87.7	103	128	45.2	48.3	95.5
Cyanide			0.7	0.75	0.26 J	0.21 J	0.38 J	0.35 J	0.96
Sulfide			9.1 J	3.1 J	1.6 J	21.2 J	2.4 J	2.8 J	9.6 J
Conventional Parameters (pct)									
Total organic carbon			3.45 J	3.26 J	3.07 J	3.29 J	1.47 J	1.95 J	2.62 J
Total solids			38.2	39.3	36.9	36.9	50.8	44.9	36.3
Grain Size (pct)									
Gravel			0	0.02	0.22	0	1.49	3.29	0
Sand, Very Coarse			0.33	0.64	0.96	0.13	3.96	1.77	1.19
Sand, Coarse			1.5	1.33	1.64	1.97	9.32	5.95	3.06
Sand, Medium			1.94	2.88	1.29	2.36	36.2	34.1	5.26
Sand, Fine			5.1	5.83	3.35	4.22	10	7.61	7.97
Sand, Very Fine			18.7	20.2	16	13.7	5.22	5.38	10.2
Silt			64.6	68.8	76.4	76.3	33.8	45.9	74.5
Clay			6.15	7.19	7.24	9.08	4.41	4.31	8.18
Fines (silt and clay)			70.75	75.99	83.64	85.38	38.21	50.21	82.68
Metals (mg/kg)									
Aluminum			24900 J	23600 J	25500 J	28400 J	19400 J	21800 J	24000 J
Antimony	10	64	0.141 J	0.146 J	0.131 J	0.152 J	0.201 J	0.145 J	0.161 J
Arsenic	4	33	3.92	3.47	3.48	3.54	2.83	3.95	3.81
Cadmium	0.003	4.98	0.236	0.228	0.215	0.21	0.123	0.178	0.209
Chromium	4200	11.1	29 J	28.2 J	29.4 J	31.4 J	28.5 J	26.6 J	27.4 J
Chromium VI			-- R	-- R	-- R	-- R	-- R	-- R	0.3 J
Copper	10	149	44.3 J	42.2 J	43.5 J	47.1 J	32.2 J	33.7 J	39.3 J
Lead	128	128	12.9 J	12 J	10.6 J	11.6 J	6.85 J	10.4 J	15.6 J
Mercury		1.06	0.072	0.056	0.065	0.07	0.038	0.052	0.061
Nickel	316	48.6	22.1	21.3	22.4	24.1	20.9	21.2	20.2
Selenium	0.1	5	0.11	0.13	0.13	0.15	0.09 J	0.09 J	0.11
Silver		5	0.194	0.127	0.204	0.156	0.123	0.167	0.144
Zinc	3	459	110	96.7	102	115	94.7	110	98.9
Organometallic Compounds (µg/kg)									
Butyltin (ion)			3.7	1.9 J	1.6 J	1.7 J	1.7 J	1.7 J	2.7 J
Dibutyltin (ion)			2.6	1.3 J	3.1	1.5 J	1.5 J	1.9 J	2.1 J
Tributyltin (ion)	190		2.2 J	2.6 U	2.4 J	2.7 U	1.6 J	1.6 J	2.3 J
Tetrabutyltin			2.6 U	2.6 U	2.7 U	2.7 U	2 U	2.3 U	2.8 U
BTEX (µg/kg)									
Benzene			1.3 UJ	17	4.7	1.4 U	0.91 U	1.1 U	140
Ethylbenzene			0.47 J	0.71 J	0.66 J	0.6 J	0.91 U	1.1 U	41
Toluene			0.25 J	1.3 U	1.3 U	1.4 U	0.91 U	1.1 U	3
m,p-Xylene			2.6 U	2.5 U	2.6 U	2.7 U	1.9 U	2.2 U	6.4
o-Xylene			1.3 U	1.3 U	1.3 U	1.4 U	0.91 U	1.1 U	6.4
Total Xylene (U = 0)			2.6 U	2.5 U	2.6 U	2.7 U	1.9 U	2.2 U	12.8

Table 2

Depositional Surface Sediment Analytical Results–Year 3 Event 1 Long-term Monitoring

Location ID: Sample ID: Sample Date: Monitoring Event:	ODEQ (2001) Bioaccumulative Level II Screening	MacDonald et al. (2000) Consensus Based	PCM-02 PCM-02DS-090806 08/06/2009 Year 3 Event 1	PCM-04 PCM-04DS-090806 08/06/2009 Year 3 Event 1	PCM-06 PCM-06DS-090806 08/06/2009 Year 3 Event 1	PCM-09 PCM-09DS-090806 08/06/2009 Year 3 Event 1	PCM-14 PCM-14DS-090806 08/06/2009 Year 3 Event 1	PCM-15 PCM-15DS-090806 08/06/2009 Year 3 Event 1	PCM-22 PCM-22DS-090806 08/06/2009 Year 3 Event 1
Volatile Organics (µg/kg)									
1,1'-Dichloroethane			1.3 U	1.3 U	1.3 U	1.4 U	0.91 U	1.1 U	1.3 U
1,1'-Dichloroethene			1.3 U	1.3 U	1.3 U	1.4 U	0.91 U	1.1 U	1.3 U
1,1,1-Trichloroethane			1.3 U	1.3 U	1.3 U	1.4 U	0.91 U	1.1 U	1.3 U
1,1,1,2-Tetrachloroethane			1.3 U	1.3 U	1.3 U	1.4 U	0.91 U	1.1 U	1.3 U
1,1,2-Trichloroethane			1.3 U	1.3 U	1.3 U	1.4 U	0.91 U	1.1 U	1.3 U
1,1,2,2-Tetrachloroethane			1.3 U	1.3 U	1.3 U	1.4 U	0.91 U	1.1 U	1.3 U
1,2-Dibromoethane (Ethylene dibromide)			1.3 U	1.3 U	1.3 U	1.4 U	0.91 U	1.1 U	1.3 U
1,2-Dichloroethane			1.3 U	1.3 U	1.3 U	1.4 U	0.91 U	1.1 U	1.3 U
1,2-Dichloroethene, trans-			1.3 U	1.3 U	1.3 U	1.4 U	0.91 U	1.1 U	1.3 U
1,2-Dichloropropane			1.3 U	1.3 U	1.3 U	1.4 U	0.91 U	1.1 U	1.3 U
1,2,3-Trichloropropane			2.6 UJ	2.5 U	2.6 U	2.7 U	1.9 U	2.2 U	2.6 U
1,3-Dichloropropene, cis-			1.3 U	1.3 U	1.3 U	1.4 U	0.91 U	1.1 U	1.3 U
1,3-Dichloropropene, trans-			1.3 U	1.3 U	1.3 U	1.4 U	0.91 U	1.1 U	1.3 U
1,4-Dichlorobenzene		300	1.3 U	1.3 U	1.3 U	1.4 U	0.91 U	1.1 U	1.3 U
2-Butanone (MEK)			5.1 U	5 U	**5.9**	**5.9**	3.7 U	4.4 U	5.2 U
2-Chloroethylvinyl ether			2.6 U	2.5 U	2.6 U	2.7 U	1.9 U	2.2 U	2.6 U
2-Hexanone (Methyl butyl ketone)			5.1 UJ	5 U	5.1 U	5.3 U	3.7 U	4.4 U	5.2 U
Acetone			**7.5 J**	13 U	**26**	**17**	9.1 U	11 U	**15**
Acrolein			6.4 UJ	6.3 UJ	6.3 UJ	6.6 UJ	4.6 UJ	5.5 UJ	6.5 UJ
Acrylonitrile			2.6 U	2.5 U	2.6 U	2.7 U	1.9 U	2.2 U	2.6 U
Bromochloromethane			1.3 U	1.3 U	1.3 U	1.4 U	0.91 U	1.1 U	1.3 U
Bromodichloromethane			1.3 UJ	1.3 U	1.3 U	1.4 U	0.91 U	1.1 U	1.3 U
Bromoform			2.6 UJ	2.5 UJ	2.6 UJ	2.7 UJ	1.9 UJ	2.2 UJ	2.6 UJ
Bromomethane			1.3 U	1.3 U	1.3 U	1.4 U	0.91 U	1.1 U	1.3 U
Carbon disulfide			1.3 UJ	1.3 UJ	1.3 UJ	1.4 UJ	0.91 UJ	1.1 UJ	1.3 UJ
Carbon tetrachloride (Tetrachloromethane)			1.3 UJ	1.3 U	1.3 U	1.4 U	0.91 U	1.1 U	1.3 U
Chlorobenzene			1.3 UJ	1.3 U	1.3 U	1.4 U	0.91 U	1.1 U	1.3 U
Chloroethane			1.3 U	1.3 U	1.3 U	1.4 U	0.91 U	1.1 U	1.3 U
Chloroform			1.3 U	1.3 U	1.3 U	1.4 U	0.91 U	1.1 U	1.3 U
Chloromethane			1.3 U	1.3 U	1.3 U	1.4 U	0.91 U	1.1 U	1.3 U
Dibromochloromethane			1.3 U	1.3 U	1.3 U	1.4 U	0.91 U	1.1 U	1.3 U
Dibromomethane			1.3 U	1.3 U	1.3 U	1.4 U	0.91 U	1.1 U	1.3 U
Dichlorodifluoromethane			1.3 U	1.3 U	1.3 U	1.4 U	0.91 U	1.1 U	1.3 U
Dichloromethane (Methylene chloride)			6.4 U	6.3 U	6.3 U	6.6 U	4.6 U	5.5 U	6.5 U
Iodomethane (Methyl iodide)			26 UJ	25 UJ	26 UJ	27 UJ	19 UJ	22 UJ	26 UJ
Isopropylbenzene (Cumene)			1.3 U	1.3 U	1.3 U	1.4 U	0.91 U	1.1 U	**1.4**
Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))			2.6 U	2.5 U	2.6 U	2.7 U	1.9 U	2.2 U	2.6 U
Methyl tert-butyl ether (MTBE)			2.6 U	2.5 U	2.6 U	2.7 U	1.9 U	2.2 U	2.6 U
Styrene			1.3 U	1.3 U	1.3 U	1.4 U	0.91 U	1.1 U	1.3 U
Tetrachloroethene (PCE)		500	1.3 U	1.3 U	1.3 U	1.4 U	0.91 U	1.1 U	1.3 U
trans-1,4-Dichloro-2-butene			2.6 U	2.5 U	2.6 U	2.7 U	1.9 U	2.2 U	2.6 U
Trichloroethene (TCE)		2100	1.3 UJ	1.3 U	1.3 U	1.4 U	0.91 U	1.1 U	1.3 U
Trichlorofluoromethane (Fluorotrichloromethane)			1.3 U	1.3 U	1.3 U	1.4 U	0.91 U	1.1 U	1.3 U
Vinyl acetate			2.6 UJ	2.5 UJ	2.6 UJ	2.7 UJ	1.9 UJ	2.2 UJ	2.6 UJ
Vinyl chloride			1.3 U	1.3 U	1.3 U	1.4 U	0.91 U	1.1 U	1.3 U

Table 2

Depositional Surface Sediment Analytical Results–Year 3 Event 1 Long-term Monitoring

Location ID: Sample ID: Sample Date: Monitoring Event:	ODEQ (2001) Bioaccumulative Level II Screening	MacDonald et al. (2000) Consensus Based	PCM-02 PCM-02DS-090806 08/06/2009 Year 3 Event 1	PCM-04 PCM-04DS-090806 08/06/2009 Year 3 Event 1	PCM-06 PCM-06DS-090806 08/06/2009 Year 3 Event 1	PCM-09 PCM-09DS-090806 08/06/2009 Year 3 Event 1	PCM-14 PCM-14DS-090806 08/06/2009 Year 3 Event 1	PCM-15 PCM-15DS-090806 08/06/2009 Year 3 Event 1	PCM-22 PCM-22DS-090806 08/06/2009 Year 3 Event 1
Aromatic Hydrocarbons (µg/kg)									
Total LPAH			**23500**	**7710**	**3150**	**4050**	**810**	**1072**	**3260**
Naphthalene		561	**1900**	**870**	**760 J**	**270**	**160**	**530**	**1100**
Acenaphthylene		200	**1100**	**610**	**140**	**230**	**51**	**85**	**190**
Acenaphthene		300	**1700**	**570**	**290**	**500**	**180**	**81**	**300**
Fluorene		536	**1300**	**360**	**160**	**280**	**59**	**36**	**150**
Phenanthrene		1170	**14000**	**3600**	**1300 J**	**2100**	**260**	**210**	**1100**
Anthracene		845	**3500**	**1700**	**500**	**670**	**100**	**130**	**420**
Total HPAH			**108700**	**48660**	**12560**	**16930**	**2933**	**3551**	**14460**
Fluoranthene		2230	**19000**	**7400**	**2100 J**	**2600**	**410**	**430**	**2000**
Pyrene		1520	**27000**	**11000**	**2700**	**4500**	**530**	**580**	**2700**
Benzo(a)anthracene		1050	**7600**	**3400**	**1000**	**1300**	**220**	**270**	**1200**
Chrysene		1290	**9000**	**4500**	**1200**	**1500**	**280**	**380**	**1400**
Benzo(b)fluoranthene			**11000**	**5000**	**1300**	**1700**	**360**	**460**	**1700**
Benzo(k)fluoranthene		13000	**2600**	**1400**	**420**	**570**	**120**	**150**	**600**
Total Benzofluoranthenes			**13600**	**6400**	**1720**	**2270**	**480**	**610**	**2300**
Benzo(a)pyrene		1450	**12000**	**5900**	**1500**	**1900**	**400**	**510**	**1900**
Indeno(1,2,3-c,d)pyrene		100	**9300**	**4500**	**1100**	**1300**	**280**	**350**	**1300**
Dibenzo(a,h)anthracene		1300	**1200**	**460**	**140**	**160**	**33**	**41**	**160**
Benzo(g,h,i)perylene		300	**10000**	**5100**	**1100 J**	**1400**	**300**	**380**	**1500**
Total PAH		676	**132200**	**56370**	**15710**	**20980**	**3743**	**4623**	**17720**
Semi-Volatile Organics (µg/kg)									
1,2-Dichlorobenzene		1700	140 UJ	130 UJ	14 UJ	14 UJ	9.9 UJ	12 UJ	14 UJ
1,2,4-Trichlorobenzene		9200	140 UJ	130 UJ	14 UJ	14 UJ	9.9 UJ	12 UJ	14 UJ
1,3-Dichlorobenzene		300	140 UJ	130 UJ	14 UJ	14 UJ	9.9 UJ	12 UJ	14 UJ
1,4-Dichlorobenzene		300	140 UJ	130 UJ	14 UJ	14 UJ	9.9 UJ	12 UJ	14 UJ
2-Chloronaphthalene			140 U	130 U	14 U	14 U	9.9 U	12 U	14 U
2-Chlorophenol			140 UJ	130 UJ	14 UJ	14 UJ	9.9 UJ	12 UJ	14 UJ
2-Methylphenol (o-Cresol)			140 UJ	130 UJ	14 UJ	14 UJ	9.9 UJ	12 UJ	14 UJ
2-Nitroaniline			270 U	260 U	28 U	28 U	20 U	23 U	28 U
2-Nitrophenol			140 U	130 U	14 U	14 U	9.9 U	12 U	14 U
2,3,4,5-Tetrachlorophenol			13 U	13 U	14 U	14 U	8.6 U	11 U	13 U
2,3,5,6-Tetrachlorophenol			13 U	13 U	14 U	14 U	8.6 U	11 U	13 U
2,4-Dichlorophenol			140 U	130 U	14 U	14 U	9.9 U	12 U	14 U
2,4-Dimethylphenol			**-- R**	**-- R**	**-- R**	**-- R**	**-- R**	**-- R**	**-- R**
2,4-Dinitrophenol			2700 UJ	2600 UJ	280 UJ	280 UJ	200 UJ	230 UJ	280 UJ
2,4-Dinitrotoluene			140 U	130 U	14 U	14 U	9.9 U	12 U	14 U
2,4,5-Trichlorophenol			140 U	130 U	14 U	14 U	9.9 U	12 U	14 U
2,4,6-Trichlorophenol			140 U	130 U	14 U	14 U	9.9 U	12 U	14 U
2,6-Dinitrotoluene			140 U	130 U	14 U	14 U	9.9 U	12 U	14 U
3-Nitroaniline			270 U	260 U	28 U	28 U	20 U	23 U	28 U
3,3'-Dichlorobenzidine			1400 UJ	1300 UJ	140 UJ	140 UJ	99 UJ	120 UJ	140 UJ
4-Bromophenyl-phenyl ether			140 U	130 U	14 U	14 U	9.9 U	12 U	14 U

Table 2

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4-Chloro-3-methylphenol			140 U	130 U	14 U	14 U	9.9 U	12 U	14 U
4-Chloroaniline			140 U	130 U	14 U	14 U	9.9 U	12 U	14 U
4-Chlorophenyl phenyl ether			140 U	130 U	14 U	14 U	9.9 U	12 U	14 U
4-Methylphenol (p-Cresol)			140 UJ	130 UJ	**11 J**	**7.6 J**	**4.3 J**	**6.8 J**	14 UJ
4-Nitroaniline			270 U	260 U	28 U	28 U	20 U	23 U	28 U
4-Nitrophenol			1400 U	1300 U	140 U	140 U	99 U	120 U	140 U
Aniline			270 UJ	260 UJ	28 UJ	28 UJ	20 UJ	23 UJ	28 UJ
Azobenzene			140 U	130 U	14 U	14 U	9.9 U	12 U	14 U
Benzoic acid			2700 UJ	**1600 J**	**300 J**	**300 J**	**160 J**	**190 J**	**200 J**
Benzyl alcohol			270 U	260 U	28 U	28 U	20 U	23 U	28 U
bis(2-Chloroethoxy)methane			140 U	130 U	14 U	14 U	9.9 U	12 U	14 U
bis(2-Chloroethyl)ether			140 U	130 U	14 U	14 U	9.9 U	12 U	14 U
bis(2-Chloroisopropyl) ether			140 UJ	130 UJ	14 UJ	14 UJ	9.9 UJ	12 UJ	14 UJ
Bis(2-ethylhexyl) phthalate	330	800	**160 J**	**230 J**	**140**	**140**	**83 J**	**93 J**	**180**
Diethyl phthalate		600	140 U	130 U	14 U	14 U	9.9 U	12 U	14 U
Butylbenzyl phthalate			140 U	130 U	14 U	14 U	**11**	12 U	**71**
Dimethyl phthalate			140 U	130 U	14 U	14 U	9.9 U	12 U	14 U
Di-n-butyl phthalate		100	270 U	260 U	**12 J**	28 U	20 U	23 U	28 U
Carbazole		1600	**210**	**130**	**47**	**70**	**23**	**14**	**91**
Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)			1400 U	1300 U	140 U	140 U	99 U	120 U	140 U
Di-n-octyl phthalate			140 U	130 U	14 U	14 U	9.9 U	12 U	14 U
Hexachlorobenzene		100	1.4 U	1.3 U	1.4 U	1.4 U	0.99 U	**1.1 J**	1.4 U
Hexachlorobutadiene		600	1.4 U	1.3 U	1.4 U	1.4 U	0.99 U	1.2 UJ	1.4 U
Dibenzofuran			**170**	**67**	**31**	**41**	**13**	**11**	**27**
Hexachlorocyclopentadiene		400	660 UJ	640 UJ	68 UJ	68 UJ	50 UJ	56 UJ	69 UJ
Hexachloroethane			140 UJ	130 UJ	14 UJ	14 UJ	9.9 UJ	12 UJ	14 UJ
Isophorone			140 U	130 U	14 U	14 U	9.9 U	12 U	14 U
Nitrobenzene			140 UJ	130 UJ	14 UJ	14 UJ	9.9 UJ	12 UJ	14 UJ
N-Nitrosodi-N-propylamine			140 U	130 U	14 U	14 U	9.9 U	12 U	14 UJ
N-Nitrosodiphenylamine			140 U	**45 J**	14 U	**33**	9.9 U	12 U	**40**
Pentachlorophenol		1000	1400 UJ	1300 UJ	140 UJ	140 UJ	99 UJ	120 UJ	140 UJ
Phenol		50	400 UJ	390 UJ	**11 J**	**9.5 J**	**5.9 J**	**7.3 J**	**9.1 J**
PCB Aroclors (µg/kg)									
Aroclor 1016	420	530	14 U	13 U	14 U	14 U	9.9 U	12 U	14 U
Aroclor 1221			27 U	26 U	28 U	28 U	20 U	23 U	28 U
Aroclor 1232			14 U	13 U	14 U	14 U	9.9 U	12 U	14 U
Aroclor 1242	2		14 U	13 U	14 U	14 U	9.9 U	12 U	14 U
Aroclor 1248	4	1500	14 U	13 U	14 U	14 U	9.9 U	12 U	14 U
Aroclor 1254	10	300	310 U	35 U	24 U	22 U	11 U	12 U	35 U
Aroclor 1260		200	14 U	13 U	14 U	14 U	9.9 U	12 U	14 U
Aroclor 1262			14 U	13 U	14 U	14 U	9.9 U	12 U	14 U
Aroclor 1268			14 U	13 U	14 U	14 U	9.9 U	12 U	14 U
Total PCB Aroclors (U = 0)		676	310 U	35 U	28 U	28 U	20 U	23 U	35 U

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Pesticides (µg/kg)									
2,4'-DDD (o,p'-DDD)			**86**	**4.7**	**3.3**	**2.9**	**1.5**	**1.7**	**4.1**
2,4'-DDE (o,p'-DDE)			1.6 U	1.3 U	1.4 U	1.4 U	0.99 U	1.2 U	1.4 U
2,4'-DDT (o,p'-DDT)			3.5 U	**1.9**	**1.5 J**	**2.9 J**	**0.73 J**	**0.63 J**	1.4 U
4,4'-DDD (p,p'-DDD)	0.3	28	**240**	**11**	**7.5**	**7.5**	**3.2**	**4.1 J**	**9.8**
4,4'-DDE (p,p'-DDE)	0.3	31.3	**13 J**	**3.6**	**3.6**	**3.6**	**1.7**	**2.7 J**	**3.2**
4,4'-DDT (p,p'-DDT)	0.3	62.9	**310**	**4.2**	**25**	**25**	**1.1 J**	**2.1**	**3.3**
Total DDx (U = 0)			**649**	**25.4**	**40.9**	**41.9**	**8.23**	**11.23**	**20.4**
Aldrin		40	1.4 U	1.3 U	1.4 U	1.4 U	0.99 U	1.2 U	1.4 U
alpha-BHC			1.4 U	1.3 U	1.4 U	1.4 U	0.99 U	1.2 U	1.4 U
beta-BHC			1.4 U	1.3 U	1.4 U	1.4 U	0.99 U	1.2 U	1.4 U
alpha-Chlordane (cis-Chlordane)			1.4 U	1.3 U	1.4 U	1.4 U	0.99 U	1.2 U	1.4 U
beta-Chlordane (trans-Chlordane)			1.4 U	1.3 U	1.4 U	1.4 U	0.99 U	1.2 U	1.4 U
cis-Nonachlor			1.4 U	**0.82 J**	1.4 U	1.4 U	0.99 U	1.2 U	1.4 U
trans-Nonachlor			1.4 U	**0.62 J**	1.4 U	1.4 U	0.99 U	1.2 U	1.4 U
delta-BHC			**0.36 J**	1.3 U	1.4 U	1.4 U	0.99 U	1.2 U	1.4 U
Dieldrin		61.8	1.4 U	1.3 U	1.4 U	1.4 U	0.99 U	1.2 U	1.4 U
Endosulfan-alpha (I)			**1.1 J**	1.3 U	1.4 U	1.4 U	0.99 U	1.2 U	1.4 U
Endosulfan-beta (II)			1.4 U	1.3 U	1.4 U	1.4 U	0.99 U	1.2 U	1.4 U
Endosulfan sulfate			2 U	1.5 U	1.4 U	1.4 U	0.99 U	1.2 U	1.4 U
Endrin		207	1.4 U	1.3 U	1.4 U	1.4 U	0.99 U	1.2 U	1.4 U
Endrin aldehyde			1.4 U	1.6 U	1.4 U	1.4 U	0.99 U	1.2 U	1.4 U
Endrin ketone			1.4 U	1.3 U	1.4 U	1.4 U	0.99 U	1.2 U	1.4 U
gamma-BHC (Lindane)		4.99	**1.2 J**	**2.1**	**1.7 J**	1.4 U	**0.64 J**	1.2 U	**2.3 J**
Heptachlor		10	1.4 U	1.3 U	1.4 U	1.4 U	0.99 U	1.2 U	1.4 U
Heptachlor epoxide		16	**1.1 J**	**2.3**	1.7 U	1.4 U	0.99 U	1.2 U	**0.92 J**
Hexachloroethane			1.4 U	1.3 U	1.4 U	1.4 U	0.99 U	1.2 UJ	1.4 U
Methoxychlor			2.5 U	1.3 U	1.4 U	1.4 U	0.99 U	1.2 U	1.4 U
Mirex			1.5 U	**0.86 J**	1.4 U	1.4 U	0.99 U	1.2 U	1.4 U
Oxychlordane			**1.3 J**	1.3 U	2.4 U	1.4 U	0.99 U	1.2 U	1.4 U
Toxaphene			160 U	120 U	97 U	68 U	50 U	56 U	69 U
Herbicides (µg/kg)									
2,4-D (2,4-Dichlorophenoxyacetic acid)			330 U	320 U	340 U	340 U	250 U	280 U	350 U
2,4-DB (2,4-D derivative)			330 U	320 U	340 U	340 U	250 U	280 U	350 U
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)			330 U	320 U	340 U	340 U	250 U	280 U	350 U
2,4,5-TP (Silvex)			330 U	320 U	340 U	340 U	250 U	280 U	350 U
2,4,6-Trichlorophenol			13 U	13 U	14 U	14 U	8.6 U	11 U	13 U
2,2-Dichloropropionic acid (Dalapon)			330 UJ	320 UJ	340 UJ	340 UJ	250 UJ	280 UJ	350 UJ
Dicamba			330 U	320 U	340 U	340 U	250 U	280 U	350 U
Dichlorprop			330 U	320 U	340 U	340 U	250 U	280 U	350 U
Dinoseb			330 U	320 U	340 U	340 U	250 U	280 U	350 U
MCPA			66000 U	64000 U	68000 U	68000 U	49000 U	56000 U	69000 U
Mecoprop (MCPP)			66000 U	64000 U	68000 U	68000 U	49000 U	56000 U	69000 U
Pentachlorophenol		1000	13 U	13 U	14 U	14 U	8.6 U	11 U	13 U

Table 2
Depositional Surface Sediment Analytical Results–Year 3 Event 1 Long-term Monitoring

Location ID: Sample ID: Sample Date: Monitoring Event:	ODEQ (2001) Bioaccumulative Level II Screening	MacDonald et al. (2000) Consensus Based	PCM-02 PCM-02DS-090806 08/06/2009 Year 3 Event 1	PCM-04 PCM-04DS-090806 08/06/2009 Year 3 Event 1	PCM-06 PCM-06DS-090806 08/06/2009 Year 3 Event 1	PCM-09 PCM-09DS-090806 08/06/2009 Year 3 Event 1	PCM-14 PCM-14DS-090806 08/06/2009 Year 3 Event 1	PCM-15 PCM-15DS-090806 08/06/2009 Year 3 Event 1	PCM-22 PCM-22DS-090806 08/06/2009 Year 3 Event 1
Total Petroleum Hydrocarbons (mg/kg)									
Diesel Range Hydrocarbons			**440**	**270**	**150**	**130**	**83**	**92**	**320**
Gasoline Range Hydrocarbons			**10 J**	17 U	17 U	18 U	12 U	14 U	18 U
Residual Range Hydrocarbons			**1100**	**720**	**690**	**520**	**250**	**380**	**620**

Notes:

ODEQ Oregon Department of Environmental Quality

Detected concentration is greater than Oregon Department of Environmental Quality (ODEQ) Level II SLVs.

Detected concentration is greater than MacDonald PECs.

Non-detected concentration is above one or more identified screening levels

Bold Detected result

J Estimated value

U Compound analyzed, but not detected above detection limit

UJ Compound analyzed, but not detected above estimated detection limit

R Rejected

Total 6 of 16 LPAH (Low PAH) are the total of Naphthalene, Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene and Anthracene

Total 10 of 16 HPAH (High PAH) are the total of Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzofluoranthenes, Benzo(a)pyrene, Indeno(1,2,3-c,d)pyrene, Dibenzo(a,h)anthracene and Benzo(g,h,i)perylene

Totals are calculated as the sum of all detected results (U=0). If all results are not detected, the highest reporting limit value is reported as the sum.

Level III validation applied to data.

Table 3

Discrete Near-bottom Surface Water Analytical Results–Year 3 Event 1 Long-term Monitoring

Monitoring Event:	Ecological			Human Health	Year 3 Event 1	Year 3 Event 1	Year 3 Event 1	Year 3 Event 1	Year 3 Event 1
Location ID:	ODEQ 2004 Chronic Ambient Water Quality Criteria (AWQC)	EPA 2004 National Recommended Water Quality Criteria (NRWQC) Criterion Continous Concentration (CCC)	Oakridge Nat. Lab 1996 Tier II Sediment Concentration Values (SCV)	EPA 2004 Drinking Water Region 9 PRGs	PCM-01	PCM-02	PCM-03	PCM-04	PCM-05
Sample ID:					PCM-01DSW-090806	PCM-02DSW-090806	PCM-03DSW-090806	PCM-04DSW-090806	PCM-05DSW-090806
Sample Date:					08/06/2009	08/06/2009	08/06/2009	08/06/2009	08/06/2009
Conventional Parameters (mg/L)									
Amenable Cyanide					0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Cyanide	0.0052				0.01 UJ	0.01 UJ	**0.003 J**	0.01 UJ	0.01 UJ
Free Cyanide		0.0052		0.73	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ
Sulfide					0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Conventional Parameters (pct)									
Dissolved organic carbon					**0.00019**	**0.00016**	**0.00016**	**0.00019**	**0.00019**
Total organic carbon					**0.00019**	**0.00018**	**0.00019**	**0.00018**	**0.00019**
Total Suspended Solids					**0.001**	**0.0008**	**0.0009**	**0.0009**	**0.0007**
Dissolved Metals (µg/L)									
Iron					20 U	20 U	20 U	20 U	20 U
Metals (µg/L)									
Iron					**312**	**264**	**250**	**249**	**250**
BTEX (µg/L)									
Benzene			130	0.35	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene			7.3	1300	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene			9.8	720	**0.06 J**	0.5 U	0.5 U	0.5 U	0.5 U
m,p-Xylene			1.8		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene			13		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Total Xylene					0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Aromatic Hydrocarbons (µg/L)									
Total LPAH					**0.0243**	**0.0086**	**0.0213**	**0.0161**	**0.021**
Naphthalene	620		12	6.2	**0.013 J**	**0.0086 J**	**0.0091 J**	**0.0081 J**	**0.011 J**
Acenaphthylene					0.019 UJ	0.022 UJ	0.02 UJ	0.02 UJ	0.022 UJ
Acenaphthene	520			370	0.019 U	0.022 U	0.02 U	0.02 U	0.022 U
Fluorene			3.9	240	**0.0039 J**	0.022 U	**0.0039 J**	0.02 U	0.022 U
Phenanthrene					**0.0074 J**	0.022 UJ	**0.0083 J**	**0.008 J**	**0.01 J**
Anthracene			0.73	1800	0.019 U	0.022 U	0.02 U	0.02 U	0.022 U
2-Methylnaphthalene			2.1		0.019 UJ	0.022 UJ	0.02 UJ	0.02 UJ	0.022 UJ
Total HPAH					**0.0811**	**0.0556**	**0.0822**	**0.0599**	**0.0682**
Fluoranthene				1500	**0.025 J**	**0.02 J**	**0.024 J**	**0.019 J**	**0.021 J**
Pyrene				180	**0.027**	**0.02 J**	**0.025**	**0.018 J**	**0.022 J**
Benzo(a)anthracene			0.027	0.092	**0.0082 J**	**0.0076 J**	**0.0074 J**	**0.0061 J**	**0.0072 J**
Chrysene				9.2	**0.0066 J**	**0.0046 J**	**0.0045 J**	**0.0048 J**	**0.005 J**
Benzo(b)fluoranthene				0.092	**0.0064 J**	**0.0034 J**	**0.0056 J**	**0.0049 J**	**0.0049 J**
Benzo(k)fluoranthene				0.92	0.019 U	0.022 U	0.02 U	0.02 U	0.022 U
Total Benzofluoranthenes					**0.0064**	**0.0034**	**0.0056**	**0.0049**	**0.0049**
Benzo(a)pyrene			0.014	0.0092	0.019 U	0.022 U	**0.0048 J**	0.02 U	0.022 U
Benzo(g,h,i)perylene					**0.0045 J**	0.022 U	**0.0062 J**	**0.0038 J**	**0.0042 J**
Indeno(1,2,3-c,d)pyrene				0.092	**0.0034 J**	0.022 UJ	**0.0047 J**	**0.0033 J**	**0.0039 J**
Dibenzo(a,h)anthracene				0.0092	0.019 U	0.022 U	0.02 U	0.02 U	0.022 U
Total PAH	0.014		0.14		**0.1054**	**0.0642**	**0.1035**	**0.076**	**0.0892**

Table 3

Discrete Near-bottom Surface Water Analytical Results–Year 3 Event 1 Long-term Monitoring

Monitoring Event:	Year 3 Event 1	Year 3 Event 1	Year 3 Event 1	Year 3 Event 1	Year 3 Event 1	Year 3 Event 1	Year 3 Event 1	Year 3 Event 1
Location ID:	PCM-06	PCM-08	PCM-09	PCM-10	PCM-13	PCM-19	PCM-20	PCM-21
Sample ID:	PCM-06DSW-090806	PCM-08DSW-090806	PCM-09DSW-090806	PCM-10DSW-090806	PCM-13DSW-090806	PCM-19DSW-090806	PCM-20DSW-090806	PCM-21DSW-090806
Sample Date:	08/06/2009	08/06/2009	08/06/2009	08/06/2009	08/06/2009	08/06/2009	08/06/2009	08/06/2009
Conventional Parameters (mg/L)								
Amenable Cyanide	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Cyanide	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ
Free Cyanide	0.01 UJ	0.01 UJ	0.01 UJ	0.01 U	0.01 UJ	0.01 UJ	0.01 UJ	0.01 UJ
Sulfide	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Conventional Parameters (pct)								
Dissolved organic carbon	**0.00017**	**0.00016**	**0.00019**	**0.00016**	**0.00016**	**0.00016**	**0.00019**	**0.00019**
Total organic carbon	**0.00019**	**0.00019**	**0.00018**	**0.00018**	**0.00016**	**0.00019**	**0.00019**	**0.00019**
Total Suspended Solids	**0.0008**	**0.0009**	**0.0011**	**0.0008**	**0.0009**	**0.0008**	**0.0009**	**0.0009**
Dissolved Metals (µg/L)								
Iron	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Metals (µg/L)								
Iron	**239**	**361**	**286**	**274**	**283**	**256**	**299**	**255**
BTEX (µg/L)								
Benzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
m,p-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Total Xylene	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Aromatic Hydrocarbons (µg/L)								
Total LPAH	**0.0231**	**0.0579 J**	**0.0869**	**0.0601 J**	**0.008**	**0.0067**	**0.0056**	**0.0535 J**
Naphthalene	**0.012 J**	**0.016 J**	**0.019 J**	**0.011 J**	**0.008 J**	**0.0067 J**	**0.0056 J**	**0.017 J**
Acenaphthylene	0.02 UJ	**0.0037 J**	**0.0074 J**	**0.011 J**	0.02 UJ	0.02 UJ	0.02 UJ	**0.0042 J**
Acenaphthene	0.02 U	**0.012 J**	**0.025**	**0.014 J**	0.02 U	0.02 U	0.02 U	**0.0083 J**
Fluorene	**0.0055 J**	**0.0077 J**	**0.0075 J**	**0.0052 J**	0.02 U	0.02 U	0.02 U	**0.0081 J**
Phenanthrene	**0.0056 J**	**0.012 J**	**0.016 J**	**0.012 J**	0.02 UJ	0.02 UJ	0.02 UJ	**0.011 J**
Anthracene	0.02 U	**0.0065 J**	**0.012 J**	**0.0069 J**	0.02 U	0.02 U	0.02 U	**0.0049 J**
2-Methylnaphthalene	0.02 UJ	**0.0026 J**	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ	**0.0035 J**
Total HPAH	**0.0447**	**0.1291**	**0.2286**	**0.3331**	**0.0294**	**0.0265**	**0.0242**	**0.1234**
Fluoranthene	**0.016 J**	**0.037 J**	**0.055 J**	**0.074 J**	**0.013 J**	**0.013 J**	**0.011 J**	**0.04 J**
Pyrene	**0.02**	**0.053**	**0.065**	**0.087**	**0.011 J**	**0.0099 J**	**0.0091 J**	**0.052**
Benzo(a)anthracene	**0.0087 J**	**0.0077 J**	**0.015 J**	**0.027 J**	**0.0054 J**	**0.0036 J**	**0.0041 J**	**0.0094 J**
Chrysene	0.02 U	**0.015 J**	**0.02**	**0.027**	0.02 U	0.02 U	0.02 U	**0.012 J**
Benzo(b)fluoranthene	0.02 U	**0.013 J**	**0.018 J**	**0.031**	0.02 U	0.02 U	0.02 U	**0.01 J**
Benzo(k)fluoranthene	0.02 U	0.02 U	**0.0056 J**	**0.011 J**	0.02 U	0.02 U	0.02 U	0.02 U
Total Benzofluoranthenes	0.02 U	**0.013**	**0.0236 J**	**0.042**	0.02 U	0.02 U	0.02 U	**0.01**
Benzo(a)pyrene	0.02 U	0.02 U	**0.016 J**	**0.025**	0.02 U	0.02 U	0.02 U	0.02 U
Benzo(g,h,i)perylene	0.02 U	**0.0034 J**	**0.018 J**	**0.026**	0.02 U	0.02 U	0.02 U	0.02 U
Indeno(1,2,3-c,d)pyrene	0.02 UJ	0.02 UJ	**0.016 J**	**0.022 J**	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ
Dibenzo(a,h)anthracene	0.02 U	0.02 U	0.02 U	**0.0031 J**	0.02 U	0.02 U	0.02 U	0.02 U
Total PAH	**0.0678**	**0.187**	**0.3155**	**0.3932**	**0.0374**	**0.0332**	**0.0298**	**0.1769**

Table 3
Discrete Near-bottom Surface Water Analytical Results–Year 3 Event 1 Long-term Monitoring

Notes:

ODEQ Oregon Department of Environmental Quality

Detected concentration is greater than AWQC_CH_2004 screening level

Detected concentration is greater than AWQC 2004 screening level

Detected concentration is greater than CCC 2006 screening level

Detected concentration is greater than SCV R9 2004 screening level

Non-detected concentration above one or more ecological or human health screening level values

Bold Detected result

J Estimated value

U Compound analyzed, but not detected above detection limit

UJ Compound analyzed, but not detected above estimated detection limit

Total 6 of 16 LPAH (Low PAH) are the total of Naphthalene, Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene and Anthracene

Total 10 of 16 HPAH (High PAH) are the total of Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzofluoranthenes, Benzo(a)pyrene, Indeno(1,2,3-c,d)pyrene, Dibenzo(a,h)anthracene and Benzo(g,h,i)perylene

Totals are calculated as the sum of all detected results (U=0). If all results are not detected, the highest reporting limit value is reported as the sum.

Level III validation applied to data.

Table 4
Quality Assurance/Quality Control Analytical Results –Year 3 Event 1 Long-term Monitoring

Monitoring Event: Location ID: Sample ID: Sample Date:	Year 3 Event 1 Field QC PCM-TB-090806 08/06/2009	Year 3 Event 1 Field QC PCM-FB-090806 08/07/2009	Year 3 Event 1 Field QC PCM-DSRB-090806 08/07/2009	Year 3 Event 1 Field QC PCM-DSB-090806 08/07/2009
Conventional Parameters (mg/l)				
Amenable Cyanide	--	--	--	0.01 U
Cyanide	--	--	--	0.01 U
Free Cyanide	--	--	--	0.01 U
Metals (µg/l)				
Aluminum	--	**1.4 J**	**1.7 J**	--
Antimony	--	0.05 U	0.05 U	--
Arsenic	--	0.5 U	0.5 U	--
Cadmium	--	0.02 U	0.02 U	--
Chromium	--	**0.15 J**	**0.07 J**	--
Copper	--	0.1 U	**0.03 J**	--
Iron	--	20 U	20 U	**3 J**
Lead	--	0.02 U	0.02 U	--
Mercury	--	0.2 U	0.2 U	--
Nickel	--	**0.06 J**	**0.07 J**	--
Silver	--	0.02 U	0.02 U	--
Zinc	--	**0.6**	**1.1**	--
Organometallic Compounds (µg/l)				
Butyltin (ion)	--	0.05 U	0.05 U	--
Dibutyltin (ion)	--	0.05 U	0.05 U	--
Tributyltin (ion)	--	0.05 U	0.05 U	--
Tetrabutyltin	--	0.05 U	0.05 U	--
BTEX (µg/l)				
Benzene	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	0.5 U	**0.12 J**	**0.14 J**	**0.15 J**
m,p-Xylene	0.5 U	0.5 U	0.5 U	0.5 U
o-Xylene	0.5 U	0.5 U	0.5 U	0.5 U
Total Xylene (U = 0)	0.5 U	0.5 U	0.5 U	0.5 U
Volatile Organics (µg/l)				
1,1'-Dichloroethane	0.5 U	--	--	--
1,1'-Dichloroethene	0.5 U	--	--	--
1,1,1-Trichloroethane	0.5 U	--	--	--
1,1,1,2-Tetrachloroethane	0.5 U	--	--	--
1,1,2-Trichloroethane	0.5 U	--	--	--
1,1,2,2-Tetrachloroethane	0.5 U	--	--	--
1,2-Dibromoethane (Ethylene dibromide)	2 U	--	--	--
1,2-Dichloroethane	0.5 U	--	--	--
1,2-Dichloroethene, trans-	0.5 U	--	--	--
1,2-Dichloropropane	0.5 U	--	--	--
1,2,3-Trichloropropane	0.5 U	--	--	--
1,3-Dichloropropene, cis-	0.5 U	--	--	--
1,3-Dichloropropene, trans-	0.5 U	--	--	--
1,4-Dichlorobenzene	0.5 U	--	--	--
2-Butanone (MEK)	20 U	--	--	--
2-Chloroethylvinyl ether	5 U	--	--	--
2-Hexanone (Methyl butyl ketone)	20 U	--	--	--
Acetone	20 U	--	--	--
Acrolein	20 UJ	--	--	--
Acrylonitrile	5 U	--	--	--
Bromochloromethane	0.5 U	--	--	--
Bromodichloromethane	0.5 U	--	--	--
Bromoform	0.5 U	--	--	--
Bromomethane	0.5 UJ	--	--	--
Carbon disulfide	0.5 U	--	--	--
Carbon tetrachloride (Tetrachloromethane)	0.5 U	--	--	--
Chlorobenzene	0.5 U	--	--	--
Chloroethane	0.5 U	--	--	--
Chloroform	0.5 U	--	--	--
Chloromethane	**1.2**	--	--	--
Dibromochloromethane	0.5 U	--	--	--
Dibromomethane	0.5 U	--	--	--
Dichlorodifluoromethane	0.5 UJ	--	--	--
Dichloromethane (Methylene chloride)	2 U	--	--	--
Iodomethane (Methyl iodide)	5 U	--	--	--
Isopropylbenzene (Cumene)	2 U	--	--	--
Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	20 U	--	--	--
Methyl tert-butyl ether (MTBE)	0.5 U	--	--	--
Styrene	0.5 U	--	--	--
Tetrachloroethene (PCE)	0.5 U	--	--	--
trans-1,4-Dichloro-2-butene	10 U	--	--	--
Trichloroethene (TCE)	0.5 U	--	--	--
Trichlorofluoromethane (Fluorotrichloromethane)	0.5 U	--	--	--
Vinyl acetate	5 UJ	--	--	--
Vinyl chloride	0.5 U	--	--	--

Table 4
Quality Assurance/Quality Control Analytical Results –Year 3 Event 1 Long-term Monitoring

Monitoring Event: Location ID: Sample ID: Sample Date:	Year 3 Event 1 Field QC PCM-TB-090806 08/06/2009	Year 3 Event 1 Field QC PCM-FB-090806 08/07/2009	Year 3 Event 1 Field QC PCM-DSRB-090806 08/07/2009	Year 3 Event 1 Field QC PCM-DSB-090806 08/07/2009
Aromatic Hydrocarbons (µg/l)				
Total 6 of 16 LPAH (U = 0)	--	**0.029**	**0.036**	**0.042**
Naphthalene	--	**0.029 J**	**0.036 J**	**0.042 J**
Acenaphthylene	--	0.2 U	0.23 U	0.02 UJ
Acenaphthene	--	0.2 U	0.23 U	0.02 U
Fluorene	--	0.2 U	0.23 U	0.02 U
Phenanthrene	--	0.2 U	0.23 U	0.02 UJ
Anthracene	--	0.2 U	0.23 U	0.02 U
2-Methylnaphthalene	--	--	--	**0.01 J**
Total 10 of 16 HPAH (U = 0)	--	0.2 U	0.23 U	**0.0029**
Fluoranthene	--	0.2 U	0.23 U	0.02 UJ
Pyrene	--	0.2 U	0.23 U	0.02 U
Benzo(a)anthracene	--	0.2 U	0.23 U	**0.0029 J**
Chrysene	--	0.2 U	0.23 U	0.02 U
Benzo(b)fluoranthene	--	0.2 U	0.23 U	0.02 U
Benzo(k)fluoranthene	--	0.2 U	0.23 U	0.02 U
Total Benzofluoranthenes (U = 0)	--	0.2 U	0.23 U	0.02 U
Benzo(a)pyrene	--	0.2 U	0.23 U	0.02 U
Indeno(1,2,3-c,d)pyrene	--	0.2 U	0.23 U	0.02 UJ
Dibenzo(a,h)anthracene	--	0.2 U	0.23 U	0.02 U
Benzo(g,h,i)perylene	--	0.2 U	0.23 U	0.02 U
Total 16 PAH (U = 0)	--	**0.029**	**0.036**	**0.0449**
Semi-Volatile Organics (µg/l)				
1,2,4-Trichlorobenzene	--	0.2 UJ	0.23 UJ	--
1,2-Dichlorobenzene	--	0.2 UJ	0.23 UJ	--
1,3-Dichlorobenzene	--	0.2 UJ	0.23 UJ	--
1,4-Dichlorobenzene	--	0.2 UJ	0.23 UJ	--
2,3,4,5-Tetrachlorophenol	--	0.5 U	0.5 U	--
2,3,5,6-Tetrachlorophenol	--	0.5 U	0.5 U	--
2,4,5-Trichlorophenol	--	0.5 U	0.56 U	--
2,4,6-Trichlorophenol	--	0.5 U	0.56 U	--
2,4-Dichlorophenol	--	0.5 U	0.56 U	--
2,4-Dimethylphenol	--	4 UJ	4.5 UJ	--
2,4-Dinitrophenol	--	4 U	4.5 U	--
2,4-Dinitrotoluene	--	0.2 U	0.23 U	--
2,6-Dinitrotoluene	--	0.2 U	0.23 U	--
2-Chloronaphthalene	--	0.2 U	0.23 U	--
2-Chlorophenol	--	0.5 U	0.56 U	--
2-Methylphenol (o-Cresol)	--	0.5 U	0.56 U	--
2-Nitroaniline	--	0.2 U	0.23 U	--
2-Nitrophenol	--	0.5 U	0.56 U	--
3,3'-Dichlorobenzidine	--	2 UJ	2.3 UJ	--
3-Nitroaniline	--	1 U	1.2 U	--
4-Bromophenyl-phenyl ether	--	0.2 U	0.23 U	--
4-Chloro-3-methylphenol	--	0.5 U	0.56 U	--
4-Chloroaniline	--	0.2 U	0.23 U	--
4-Chlorophenyl phenyl ether	--	0.2 U	0.23 U	--
4-Methylphenol (p-Cresol)	--	0.5 U	0.56 U	--
4-Nitroaniline	--	1 U	1.2 U	--
4-Nitrophenol	--	2 U	2.3 U	--
Aniline	--	1 U	1.2 U	--
Azobenzene	--	0.2 U	0.23 U	--
Benzoic acid	--	5 UJ	5.6 UJ	--
Benzyl alcohol	--	0.5 U	0.56 U	--
bis(2-Chloroethoxy)methane	--	0.2 U	0.23 U	--
bis(2-Chloroethyl)ether	--	0.2 U	0.23 U	--
bis(2-Chloroisopropyl) ether	--	0.2 U	0.23 U	--
Bis(2-ethylhexyl) phthalate	--	6.4 U	1.6 U	--
Diethyl phthalate	--	**0.29**	0.2 U	--
Butylbenzyl phthalate	--	0.2 U	0.23 U	--
Dimethyl phthalate	--	0.2 U	0.23 U	--
Di-n-butyl phthalate	--	0.2 U	0.2 U	--
Carbazole	--	0.2 U	0.23 U	--
Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)	--	2 U	2.3 U	--
Di-n-octyl phthalate	--	0.2 U	0.23 U	--
Hexachlorobenzene	--	0.2 U	0.23 U	--
Hexachlorobutadiene	--	0.2 UJ	0.23 UJ	--
Dibenzofuran	--	0.2 U	0.23 U	--
Hexachlorocyclopentadiene	--	1 UJ	1.2 UJ	--
Hexachloroethane	--	0.2 UJ	0.23 UJ	--
Isophorone	--	0.2 U	0.23 U	--
Nitrobenzene	--	0.2 U	0.23 U	--
N-Nitrosodi-N-propylamine	--	0.2 U	0.23 U	--
N-Nitrosodiphenylamine	--	0.2 U	0.23 U	--
Phenol	--	0.5 U	0.6 U	--

Table 4
Quality Assurance/Quality Control Analytical Results –Year 3 Event 1 Long-term Monitoring

Monitoring Event:	Year 3 Event 1	Year 3 Event 1	Year 3 Event 1	Year 3 Event 1
Location ID:	Field QC	Field QC	Field QC	Field QC
Sample ID:	PCM-TB-090806	PCM-FB-090806	PCM-DSRB-090806	PCM-DSB-090806
Sample Date:	08/06/2009	08/07/2009	08/07/2009	08/07/2009
PCB Aroclors (µg/l)				
Aroclor 1016	--	0.2 U	0.2 U	--
Aroclor 1221	--	0.4 U	0.4 U	--
Aroclor 1232	--	0.2 U	0.2 U	--
Aroclor 1242	--	0.2 U	0.2 U	--
Aroclor 1248	--	0.2 U	0.2 U	--
Aroclor 1254	--	0.2 U	0.2 U	--
Aroclor 1260	--	0.2 U	0.2 U	--
Aroclor 1262	--	0.2 U	0.2 U	--
Aroclor 1268	--	0.2 U	0.2 U	--
Total PCB Aroclors (U = 0)	--	0.4 U	0.4 U	--
Pesticides (µg/l)				
2,4'-DDD (o,p'-DDD)	--	0.01 U	0.01 U	--
2,4'-DDE (o,p'-DDE)	--	0.01 U	0.01 U	--
2,4'-DDT (o,p'-DDT)	--	0.01 U	0.01 U	--
4,4'-DDD (p,p'-DDD)	--	**0.0029 J**	0.01 U	--
4,4'-DDE (p,p'-DDE)	--	0.01 U	0.01 U	--
4,4'-DDT (p,p'-DDT)	--	0.01 U	0.01 U	--
Total DDx (U = 0)	--	**0.0029**	0.01 U	--
Aldrin	--	0.01 U	0.01 U	--
alpha-BHC	--	0.01 U	0.01 U	--
beta-BHC	--	0.01 U	0.01 U	--
alpha-Chlordane (cis-Chlordane)	--	0.01 U	0.01 U	--
beta-Chlordane (trans-Chlordane)	--	0.01 U	0.01 U	--
cis-Nonachlor	--	0.01 U	0.01 U	--
trans-Nonachlor	--	0.01 U	0.01 U	--
delta-BHC	--	0.01 U	0.01 U	--
Dieldrin	--	0.01 U	0.01 U	--
Endosulfan-alpha (I)	--	0.01 U	0.01 U	--
Endosulfan-beta (II)	--	0.01 U	0.01 U	--
Endosulfan sulfate	--	0.01 U	0.01 U	--
Endrin	--	0.01 U	0.01 U	--
Endrin aldehyde	--	**0.0022 J**	**0.0012 J**	--
Endrin ketone	--	0.01 U	0.01 U	--
gamma-BHC (Lindane)	--	0.01 U	0.01 U	--
Heptachlor	--	0.01 U	0.01 U	--
Heptachlor epoxide	--	0.01 U	0.01 U	--
Hexachlorobenzene	--	0.01 U	0.01 U	--
Hexachlorobutadiene	--	0.01 U	0.01 U	--
Hexachloroethane	--	0.01 U	0.01 U	--
Oxychlordane	--	0.01 U	0.01 U	--
Methoxychlor	--	0.01 U	0.01 U	--
Mirex	--	0.01 U	0.01 U	--
Toxaphene	--	0.5 U	0.5 U	--
Herbicides (µg/l)				
2,4-D (2,4-Dichlorophenoxyacetic acid)	--	0.4 U	0.41 U	--
2,4-DB (2,4-D derivative)	--	0.4 U	0.41 U	--
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	--	0.2 U	0.21 U	--
2,4,5-TP (Silvex)	--	0.2 U	0.21 U	--
2,4,6-Trichlorophenol	--	0.5 U	0.5 U	--
2,2-Dichloropropionic acid (Dalapon)	--	0.4 U	0.41 U	--
Dicamba	--	0.2 U	0.21 U	--
Dichlorprop	--	0.4 U	0.41 U	--
Dinoseb	--	0.2 U	0.21 U	--
MCPA	--	100 U	110 U	--
Mecoprop (MCPP)	--	100 U	110 U	--
Pentachlorophenol	--	0.5 U	0.5 U	--
Total Petroleum Hydrocarbons (mg/l)				
Diesel Range Hydrocarbons	--	**0.11 J**	**0.17 J**	--
Gasoline Range Hydrocarbons	--	0.25 U	0.25 U	--
Residual Range Hydrocarbons	--	**0.14 J**	**0.2 J**	--

Notes:

Bold Detected result

J Estimated value

U Compound analyzed, but not detected above detection limit

UJ Compound analyzed, but not detected above estimated detection limit

Total 6 of 16 LPAH (Low PAH) are the total of Naphthalene, Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene and Anthracene

Total 10 of 16 HPAH (High PAH) are the total of Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzofluoranthenes, Benzo(a)pyrene, Indeno(1,2,3-c,d)pyrene, Dibenzo(a,h)anthracene and Benzo(g,h,i)perylene

Totals are calculated as the sum of all detected results (U=0). If all results are not detected, the highest reporting limit value is reported as the sum.

Level III validation applied to data.

Table 5
Target Analytes with Laboratory Reporting Limits Above the Target Reporting Limits

Location ID	Sample ID	Analytic method	Chemical Name	Target Method Reporting Limit	Reporting Limit	Method Detection Limit	Units
PCM-02	PCM-02DS-090806	Krone	Tetrabutyltin	1	2.6	1.2	µg/kg
PCM-04	PCM-04DS-090806	Krone	Tetrabutyltin	1	2.6	1.2	µg/kg
PCM-04	PCM-04DS-090806	Krone	Tributyltin (ion)	1	2.6	1.1	µg/kg
PCM-06	PCM-06DS-090806	Krone	Tetrabutyltin	1	2.7	1.2	µg/kg
PCM-09	PCM-09DS-090806	Krone	Tetrabutyltin	1	2.7	1.2	µg/kg
PCM-09	PCM-09DS-090806	Krone	Tributyltin (ion)	1	2.7	1.2	µg/kg
PCM-14	PCM-14DS-090806	Krone	Tetrabutyltin	1	2	0.85	µg/kg
PCM-15	PCM-15DS-090806	Krone	Tetrabutyltin	1	2.3	0.98	µg/kg
PCM-22	PCM-22DS-090806	Krone	Tetrabutyltin	1	2.8	1.2	µg/kg
PCM-02	PCM-02DS-090806	SW7196	Chromium VI	0.5	1.4	0.21	µg/kg
PCM-04	PCM-04DS-090806	SW7196	Chromium VI	0.5	1.3	0.21	µg/kg
PCM-06	PCM-06DS-090806	SW7196	Chromium VI	0.5	1.4	0.22	µg/kg
PCM-09	PCM-09DS-090806	SW7196	Chromium VI	0.5	1.4	0.22	µg/kg
PCM-14	PCM-14DS-090806	SW7196	Chromium VI	0.5	1	0.16	µg/kg
PCM-15	PCM-15DS-090806	SW7196	Chromium VI	0.5	1.2	0.18	µg/kg
PCM-02	PCM-02DS-090806	SW8081	2,4'-DDE (o,p'-DDE)	1	1.6	1.6	µg/kg
PCM-02	PCM-02DS-090806	SW8081	2,4'-DDT (o,p'-DDT)	1	3.5	3.5	µg/kg
PCM-02	PCM-02DS-090806	SW8081	Aldrin	1	1.4	0.21	µg/kg
PCM-02	PCM-02DS-090806	SW8081	alpha-BHC	1	1.4	0.23	µg/kg
PCM-02	PCM-02DS-090806	SW8081	alpha-Chlordane (cis-Chlordane)	1	1.4	0.14	µg/kg
PCM-02	PCM-02DS-090806	SW8081	beta-BHC	1	1.4	1.4	µg/kg
PCM-02	PCM-02DS-090806	SW8081	cis-Nonachlor	1	1.4	1.4	µg/kg
PCM-02	PCM-02DS-090806	SW8081	Dieldrin	1	1.4	1.4	µg/kg
PCM-02	PCM-02DS-090806	SW8081	Endosulfan sulfate	1	2	2	µg/kg
PCM-02	PCM-02DS-090806	SW8081	Endosulfan-beta (II)	1	1.4	1.4	µg/kg
PCM-02	PCM-02DS-090806	SW8081	Endrin	1	1.4	1.4	µg/kg
PCM-02	PCM-02DS-090806	SW8081	Endrin aldehyde	1	1.4	1.4	µg/kg
PCM-02	PCM-02DS-090806	SW8081	Endrin ketone	1	1.4	0.48	µg/kg
PCM-02	PCM-02DS-090806	SW8081	Heptachlor	1	1.4	1.4	µg/kg
PCM-02	PCM-02DS-090806	SW8081	Methoxychlor	1	2.5	2.5	µg/kg
PCM-02	PCM-02DS-090806	SW8081	Mirex	1	1.5	1.5	µg/kg
PCM-02	PCM-02DS-090806	SW8081	Toxaphene	50	160	160	µg/kg
PCM-02	PCM-02DS-090806	SW8081	trans-Nonachlor	1	1.4	1.4	µg/kg
PCM-04	PCM-04DS-090806	SW8081	2,4'-DDE (o,p'-DDE)	1	1.3	0.21	µg/kg
PCM-04	PCM-04DS-090806	SW8081	Aldrin	1	1.3	0.74	µg/kg
PCM-04	PCM-04DS-090806	SW8081	alpha-BHC	1	1.3	0.34	µg/kg
PCM-04	PCM-04DS-090806	SW8081	alpha-Chlordane (cis-Chlordane)	1	1.3	0.13	µg/kg
PCM-04	PCM-04DS-090806	SW8081	beta-BHC	1	1.3	1.3	µg/kg
PCM-04	PCM-04DS-090806	SW8081	delta-BHC	1	1.3	0.17	µg/kg
PCM-04	PCM-04DS-090806	SW8081	Dieldrin	1	1.3	1.3	µg/kg
PCM-04	PCM-04DS-090806	SW8081	Endosulfan sulfate	1	1.5	1.5	µg/kg
PCM-04	PCM-04DS-090806	SW8081	Endosulfan-alpha (I)	1	1.3	0.19	µg/kg
PCM-04	PCM-04DS-090806	SW8081	Endosulfan-beta (II)	1	1.3	1.3	µg/kg
PCM-04	PCM-04DS-090806	SW8081	Endrin	1	1.3	1.3	µg/kg
PCM-04	PCM-04DS-090806	SW8081	Endrin aldehyde	1	1.6	1.6	µg/kg
PCM-04	PCM-04DS-090806	SW8081	Endrin ketone	1	1.3	0.12	µg/kg
PCM-04	PCM-04DS-090806	SW8081	Heptachlor	1	1.3	1.3	µg/kg
PCM-04	PCM-04DS-090806	SW8081	Methoxychlor	1	1.3	0.96	µg/kg
PCM-04	PCM-04DS-090806	SW8081	Oxychlordane	1	1.3	0.71	µg/kg
PCM-04	PCM-04DS-090806	SW8081	Toxaphene	50	120	120	µg/kg
PCM-06	PCM-06DS-090806	SW8081	2,4'-DDE (o,p'-DDE)	1	1.4	1.4	µg/kg
PCM-06	PCM-06DS-090806	SW8081	Aldrin	1	1.4	1.4	µg/kg
PCM-06	PCM-06DS-090806	SW8081	alpha-BHC	1	1.4	0.15	µg/kg
PCM-06	PCM-06DS-090806	SW8081	alpha-Chlordane (cis-Chlordane)	1	1.4	0.14	µg/kg
PCM-06	PCM-06DS-090806	SW8081	beta-BHC	1	1.4	0.25	µg/kg
PCM-06	PCM-06DS-090806	SW8081	cis-Nonachlor	1	1.4	0.34	µg/kg
PCM-06	PCM-06DS-090806	SW8081	delta-BHC	1	1.4	0.11	µg/kg
PCM-06	PCM-06DS-090806	SW8081	Dieldrin	1	1.4	1.4	µg/kg
PCM-06	PCM-06DS-090806	SW8081	Endosulfan sulfate	1	1.4	1.4	µg/kg
PCM-06	PCM-06DS-090806	SW8081	Endosulfan-alpha (I)	1	1.4	0.086	µg/kg
PCM-06	PCM-06DS-090806	SW8081	Endosulfan-beta (II)	1	1.4	0.19	µg/kg
PCM-06	PCM-06DS-090806	SW8081	Endrin	1	1.4	0.13	µg/kg
PCM-06	PCM-06DS-090806	SW8081	Endrin aldehyde	1	1.4	0.17	µg/kg
PCM-06	PCM-06DS-090806	SW8081	Endrin ketone	1	1.4	0.5	µg/kg
PCM-06	PCM-06DS-090806	SW8081	Heptachlor	1	1.4	0.17	µg/kg
PCM-06	PCM-06DS-090806	SW8081	Heptachlor epoxide	1	1.7	1.7	µg/kg
PCM-06	PCM-06DS-090806	SW8081	Methoxychlor	1	1.4	1.4	µg/kg
PCM-06	PCM-06DS-090806	SW8081	Mirex	1	1.4	0.14	µg/kg
PCM-06	PCM-06DS-090806	SW8081	Oxychlordane	1	2.4	2.4	µg/kg
PCM-06	PCM-06DS-090806	SW8081	Toxaphene	50	97	97	µg/kg
PCM-06	PCM-06DS-090806	SW8081	trans-Nonachlor	1	1.4	1.4	µg/kg
PCM-09	PCM-09DS-090806	SW8081	2,4'-DDE (o,p'-DDE)	1	1.4	0.55	µg/kg
PCM-09	PCM-09DS-090806	SW8081	Aldrin	1	1.4	0.22	µg/kg
PCM-09	PCM-09DS-090806	SW8081	alpha-BHC	1	1.4	0.15	µg/kg

Table 5
Target Analytes with Laboratory Reporting Limits Above the Target Reporting Limits

Location ID	Sample ID	Analytic method	Chemical Name	Target Method Reporting Limit	Reporting Limit	Method Detection Limit	Units
PCM-09	PCM-09DS-090806	SW8081	alpha-Chlordane (cis-Chlordane)	1	1.4	0.14	µg/kg
PCM-09	PCM-09DS-090806	SW8081	beta-BHC	1	1.4	0.25	µg/kg
PCM-09	PCM-09DS-090806	SW8081	cis-Nonachlor	1	1.4	0.56	µg/kg
PCM-09	PCM-09DS-090806	SW8081	delta-BHC	1	1.4	0.11	µg/kg
PCM-09	PCM-09DS-090806	SW8081	Dieldrin	1	1.4	1.4	µg/kg
PCM-09	PCM-09DS-090806	SW8081	Endosulfan sulfate	1	1.4	1.4	µg/kg
PCM-09	PCM-09DS-090806	SW8081	Endosulfan-alpha (I)	1	1.4	0.12	µg/kg
PCM-09	PCM-09DS-090806	SW8081	Endosulfan-beta (II)	1	1.4	0.24	µg/kg
PCM-09	PCM-09DS-090806	SW8081	Endrin	1	1.4	0.13	µg/kg
PCM-09	PCM-09DS-090806	SW8081	Endrin aldehyde	1	1.4	0.17	µg/kg
PCM-09	PCM-09DS-090806	SW8081	Endrin ketone	1	1.4	0.2	µg/kg
PCM-09	PCM-09DS-090806	SW8081	gamma-BHC (Lindane)	1	1.4	1.4	µg/kg
PCM-09	PCM-09DS-090806	SW8081	Heptachlor	1	1.4	1.4	µg/kg
PCM-09	PCM-09DS-090806	SW8081	Heptachlor epoxide	1	1.4	1.4	µg/kg
PCM-09	PCM-09DS-090806	SW8081	Methoxychlor	1	1.4	0.56	µg/kg
PCM-09	PCM-09DS-090806	SW8081	Mirex	1	1.4	0.14	µg/kg
PCM-09	PCM-09DS-090806	SW8081	Oxychlordane	1	1.4	1.4	µg/kg
PCM-09	PCM-09DS-090806	SW8081	Toxaphene	50	68	49	µg/kg
PCM-09	PCM-09DS-090806	SW8081	trans-Nonachlor	1	1.4	0.12	µg/kg
PCM-15	PCM-15DS-090806	SW8081	2,4'-DDE (o,p'-DDE)	1	1.2	1.2	µg/kg
PCM-15	PCM-15DS-090806	SW8081	Aldrin	1	1.2	0.2	µg/kg
PCM-15	PCM-15DS-090806	SW8081	alpha-BHC	1	1.2	0.13	µg/kg
PCM-15	PCM-15DS-090806	SW8081	alpha-Chlordane (cis-Chlordane)	1	1.2	0.19	µg/kg
PCM-15	PCM-15DS-090806	SW8081	beta-BHC	1	1.2	0.2	µg/kg
PCM-15	PCM-15DS-090806	SW8081	cis-Nonachlor	1	1.2	0.14	µg/kg
PCM-15	PCM-15DS-090806	SW8081	delta-BHC	1	1.2	0.083	µg/kg
PCM-15	PCM-15DS-090806	SW8081	Dieldrin	1	1.2	0.16	µg/kg
PCM-15	PCM-15DS-090806	SW8081	Endosulfan sulfate	1	1.2	1.2	µg/kg
PCM-15	PCM-15DS-090806	SW8081	Endosulfan-alpha (I)	1	1.2	0.07	µg/kg
PCM-15	PCM-15DS-090806	SW8081	Endosulfan-beta (II)	1	1.2	0.16	µg/kg
PCM-15	PCM-15DS-090806	SW8081	Endrin	1	1.2	0.11	µg/kg
PCM-15	PCM-15DS-090806	SW8081	Endrin aldehyde	1	1.2	0.2	µg/kg
PCM-15	PCM-15DS-090806	SW8081	Endrin ketone	1	1.2	0.11	µg/kg
PCM-15	PCM-15DS-090806	SW8081	gamma-BHC (Lindane)	1	1.2	0.24	µg/kg
PCM-15	PCM-15DS-090806	SW8081	Heptachlor	1	1.2	0.14	µg/kg
PCM-15	PCM-15DS-090806	SW8081	Heptachlor epoxide	1	1.2	0.37	µg/kg
PCM-15	PCM-15DS-090806	SW8081	Methoxychlor	1	1.2	1.2	µg/kg
PCM-15	PCM-15DS-090806	SW8081	Mirex	1	1.2	0.11	µg/kg
PCM-15	PCM-15DS-090806	SW8081	Oxychlordane	1	1.2	0.73	µg/kg
PCM-15	PCM-15DS-090806	SW8081	Toxaphene	50	56	29	µg/kg
PCM-15	PCM-15DS-090806	SW8081	trans-Nonachlor	1	1.2	0.097	µg/kg
PCM-22	PCM-22DS-090806	SW8081	2,4'-DDE (o,p'-DDE)	1	1.4	0.32	µg/kg
PCM-22	PCM-22DS-090806	SW8081	2,4'-DDT (o,p'-DDT)	1	1.4	1.4	µg/kg
PCM-22	PCM-22DS-090806	SW8081	Aldrin	1	1.4	0.25	µg/kg
PCM-22	PCM-22DS-090806	SW8081	alpha-BHC	1	1.4	0.16	µg/kg
PCM-22	PCM-22DS-090806	SW8081	alpha-Chlordane (cis-Chlordane)	1	1.4	0.14	µg/kg
PCM-22	PCM-22DS-090806	SW8081	beta-BHC	1	1.4	0.25	µg/kg
PCM-22	PCM-22DS-090806	SW8081	cis-Nonachlor	1	1.4	0.34	µg/kg
PCM-22	PCM-22DS-090806	SW8081	delta-BHC	1	1.4	0.11	µg/kg
PCM-22	PCM-22DS-090806	SW8081	Dieldrin	1	1.4	0.2	µg/kg
PCM-22	PCM-22DS-090806	SW8081	Endosulfan sulfate	1	1.4	1.4	µg/kg
PCM-22	PCM-22DS-090806	SW8081	Endosulfan-alpha (I)	1	1.4	0.087	µg/kg
PCM-22	PCM-22DS-090806	SW8081	Endosulfan-beta (II)	1	1.4	0.23	µg/kg
PCM-22	PCM-22DS-090806	SW8081	Endrin	1	1.4	0.13	µg/kg
PCM-22	PCM-22DS-090806	SW8081	Endrin aldehyde	1	1.4	0.56	µg/kg
PCM-22	PCM-22DS-090806	SW8081	Endrin ketone	1	1.4	0.25	µg/kg
PCM-22	PCM-22DS-090806	SW8081	Heptachlor	1	1.4	0.17	µg/kg
PCM-22	PCM-22DS-090806	SW8081	Methoxychlor	1	1.4	0.54	µg/kg
PCM-22	PCM-22DS-090806	SW8081	Mirex	1	1.4	0.14	µg/kg
PCM-22	PCM-22DS-090806	SW8081	Oxychlordane	1	1.4	0.93	µg/kg
PCM-22	PCM-22DS-090806	SW8081	Toxaphene	50	69	45	µg/kg
PCM-22	PCM-22DS-090806	SW8081	trans-Nonachlor	1	1.4	0.12	µg/kg
PCM-02	PCM-02DS-090806	SW8082	Aroclor 1016	10	14	2.8	µg/kg
PCM-02	PCM-02DS-090806	SW8082	Aroclor 1221	10	27	2.8	µg/kg
PCM-02	PCM-02DS-090806	SW8082	Aroclor 1232	10	14	2.8	µg/kg
PCM-02	PCM-02DS-090806	SW8082	Aroclor 1242	10	14	2.8	µg/kg
PCM-02	PCM-02DS-090806	SW8082	Aroclor 1248	10	14	6.1	µg/kg
PCM-02	PCM-02DS-090806	SW8082	Aroclor 1254	10	310	310	µg/kg
PCM-02	PCM-02DS-090806	SW8082	Aroclor 1260	10	14	2.8	µg/kg
PCM-02	PCM-02DS-090806	SW8082	Aroclor 1262	10	14	2.8	µg/kg
PCM-02	PCM-02DS-090806	SW8082	Aroclor 1268	10	14	2.8	µg/kg
PCM-04	PCM-04DS-090806	SW8082	Aroclor 1016	10	13	2.7	µg/kg
PCM-04	PCM-04DS-090806	SW8082	Aroclor 1221	10	26	2.7	µg/kg
PCM-04	PCM-04DS-090806	SW8082	Aroclor 1232	10	13	2.7	µg/kg

Table 5
Target Analytes with Laboratory Reporting Limits Above the Target Reporting Limits

Location ID	Sample ID	Analytic method	Chemical Name	Target Method Reporting Limit	Reporting Limit	Method Detection Limit	Units
PCM-04	PCM-04DS-090806	SW8082	Aroclor 1242	10	13	2.7	µg/kg
PCM-04	PCM-04DS-090806	SW8082	Aroclor 1248	10	13	2.7	µg/kg
PCM-04	PCM-04DS-090806	SW8082	Aroclor 1254	10	35	35	µg/kg
PCM-04	PCM-04DS-090806	SW8082	Aroclor 1260	10	13	2.7	µg/kg
PCM-04	PCM-04DS-090806	SW8082	Aroclor 1262	10	13	2.7	µg/kg
PCM-04	PCM-04DS-090806	SW8082	Aroclor 1268	10	13	2.7	µg/kg
PCM-06	PCM-06DS-090806	SW8082	Aroclor 1016	10	14	2.9	µg/kg
PCM-06	PCM-06DS-090806	SW8082	Aroclor 1221	10	28	2.9	µg/kg
PCM-06	PCM-06DS-090806	SW8082	Aroclor 1232	10	14	2.9	µg/kg
PCM-06	PCM-06DS-090806	SW8082	Aroclor 1242	10	14	2.9	µg/kg
PCM-06	PCM-06DS-090806	SW8082	Aroclor 1248	10	14	2.9	µg/kg
PCM-06	PCM-06DS-090806	SW8082	Aroclor 1254	10	24	24	µg/kg
PCM-06	PCM-06DS-090806	SW8082	Aroclor 1260	10	14	7.7	µg/kg
PCM-06	PCM-06DS-090806	SW8082	Aroclor 1262	10	14	2.9	µg/kg
PCM-06	PCM-06DS-090806	SW8082	Aroclor 1268	10	14	2.9	µg/kg
PCM-09	PCM-09DS-090806	SW8082	Aroclor 1016	10	14	2.9	µg/kg
PCM-09	PCM-09DS-090806	SW8082	Aroclor 1221	10	28	2.9	µg/kg
PCM-09	PCM-09DS-090806	SW8082	Aroclor 1232	10	14	2.9	µg/kg
PCM-09	PCM-09DS-090806	SW8082	Aroclor 1242	10	14	2.9	µg/kg
PCM-09	PCM-09DS-090806	SW8082	Aroclor 1248	10	14	2.9	µg/kg
PCM-09	PCM-09DS-090806	SW8082	Aroclor 1254	10	22	22	µg/kg
PCM-09	PCM-09DS-090806	SW8082	Aroclor 1260	10	14	8.1	µg/kg
PCM-09	PCM-09DS-090806	SW8082	Aroclor 1262	10	14	2.9	µg/kg
PCM-09	PCM-09DS-090806	SW8082	Aroclor 1268	10	14	2.9	µg/kg
PCM-14	PCM-14DS-090806	SW8082	Aroclor 1221	10	20	2.1	µg/kg
PCM-14	PCM-14DS-090806	SW8082	Aroclor 1254	10	11	11	µg/kg
PCM-15	PCM-15DS-090806	SW8082	Aroclor 1016	10	12	2.4	µg/kg
PCM-15	PCM-15DS-090806	SW8082	Aroclor 1221	10	23	2.4	µg/kg
PCM-15	PCM-15DS-090806	SW8082	Aroclor 1232	10	12	2.4	µg/kg
PCM-15	PCM-15DS-090806	SW8082	Aroclor 1242	10	12	2.4	µg/kg
PCM-15	PCM-15DS-090806	SW8082	Aroclor 1248	10	12	2.4	µg/kg
PCM-15	PCM-15DS-090806	SW8082	Aroclor 1254	10	12	12	µg/kg
PCM-15	PCM-15DS-090806	SW8082	Aroclor 1260	10	12	4.8	µg/kg
PCM-15	PCM-15DS-090806	SW8082	Aroclor 1262	10	12	2.4	µg/kg
PCM-15	PCM-15DS-090806	SW8082	Aroclor 1268	10	12	2.4	µg/kg
PCM-22	PCM-22DS-090806	SW8082	Aroclor 1016	10	14	2.9	µg/kg
PCM-22	PCM-22DS-090806	SW8082	Aroclor 1221	10	28	2.9	µg/kg
PCM-22	PCM-22DS-090806	SW8082	Aroclor 1232	10	14	2.9	µg/kg
PCM-22	PCM-22DS-090806	SW8082	Aroclor 1242	10	14	2.9	µg/kg
PCM-22	PCM-22DS-090806	SW8082	Aroclor 1248	10	14	2.9	µg/kg
PCM-22	PCM-22DS-090806	SW8082	Aroclor 1254	10	35	35	µg/kg
PCM-22	PCM-22DS-090806	SW8082	Aroclor 1260	10	14	7.5	µg/kg
PCM-22	PCM-22DS-090806	SW8082	Aroclor 1262	10	14	2.9	µg/kg
PCM-22	PCM-22DS-090806	SW8082	Aroclor 1268	10	14	2.9	µg/kg
PCM-02	PCM-02DS-090806	SW8151A	2,2-Dichloropropionic acid (Dalapon)	50	330	40	µg/kg
PCM-02	PCM-02DS-090806	SW8151A	2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	50	330	27	µg/kg
PCM-02	PCM-02DS-090806	SW8151A	2,4,5-TP (Silvex)	50	330	30	µg/kg
PCM-02	PCM-02DS-090806	SW8151A	2,4-D (2,4-Dichlorophenoxyacetic acid)	50	330	27	µg/kg
PCM-02	PCM-02DS-090806	SW8151A	2,4-DB (2,4-D derivative)	50	330	25	µg/kg
PCM-02	PCM-02DS-090806	SW8151A	Dicamba	50	330	29	µg/kg
PCM-02	PCM-02DS-090806	SW8151A	Dichlorprop	50	330	60	µg/kg
PCM-02	PCM-02DS-090806	SW8151A	Dinoseb	80	330	18	µg/kg
PCM-02	PCM-02DS-090806	SW8151A	MCPA	10000	66000	17000	µg/kg
PCM-02	PCM-02DS-090806	SW8151A	Mecoprop (MCPP)	10000	66000	17000	µg/kg
PCM-04	PCM-04DS-090806	SW8151A	2,2-Dichloropropionic acid (Dalapon)	50	320	39	µg/kg
PCM-04	PCM-04DS-090806	SW8151A	2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	50	320	26	µg/kg
PCM-04	PCM-04DS-090806	SW8151A	2,4,5-TP (Silvex)	50	320	29	µg/kg
PCM-04	PCM-04DS-090806	SW8151A	2,4-D (2,4-Dichlorophenoxyacetic acid)	50	320	26	µg/kg
PCM-04	PCM-04DS-090806	SW8151A	2,4-DB (2,4-D derivative)	50	320	24	µg/kg
PCM-04	PCM-04DS-090806	SW8151A	Dicamba	50	320	28	µg/kg
PCM-04	PCM-04DS-090806	SW8151A	Dichlorprop	50	320	58	µg/kg
PCM-04	PCM-04DS-090806	SW8151A	Dinoseb	80	320	18	µg/kg
PCM-04	PCM-04DS-090806	SW8151A	MCPA	10000	64000	17000	µg/kg
PCM-04	PCM-04DS-090806	SW8151A	Mecoprop (MCPP)	10000	64000	17000	µg/kg
PCM-06	PCM-06DS-090806	SW8151A	2,2-Dichloropropionic acid (Dalapon)	50	340	42	µg/kg
PCM-06	PCM-06DS-090806	SW8151A	2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	50	340	27	µg/kg
PCM-06	PCM-06DS-090806	SW8151A	2,4,5-TP (Silvex)	50	340	31	µg/kg
PCM-06	PCM-06DS-090806	SW8151A	2,4-D (2,4-Dichlorophenoxyacetic acid)	50	340	27	µg/kg
PCM-06	PCM-06DS-090806	SW8151A	2,4-DB (2,4-D derivative)	50	340	25	µg/kg
PCM-06	PCM-06DS-090806	SW8151A	Dicamba	50	340	30	µg/kg
PCM-06	PCM-06DS-090806	SW8151A	Dichlorprop	50	340	62	µg/kg
PCM-06	PCM-06DS-090806	SW8151A	Dinoseb	80	340	19	µg/kg
PCM-06	PCM-06DS-090806	SW8151A	MCPA	10000	68000	18000	µg/kg
PCM-06	PCM-06DS-090806	SW8151A	Mecoprop (MCPP)	10000	68000	18000	µg/kg

Table 5
Target Analytes with Laboratory Reporting Limits Above the Target Reporting Limits

Location ID	Sample ID	Analytic method	Chemical Name	Target Method Reporting Limit	Reporting Limit	Method Detection Limit	Units
PCM-09	PCM-09DS-090806	SW8151A	2,2-Dichloropropionic acid (Dalapon)	50	340	42	µg/kg
PCM-09	PCM-09DS-090806	SW8151A	2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	50	340	28	µg/kg
PCM-09	PCM-09DS-090806	SW8151A	2,4,5-TP (Silvex)	50	340	31	µg/kg
PCM-09	PCM-09DS-090806	SW8151A	2,4-D (2,4-Dichlorophenoxyacetic acid)	50	340	28	µg/kg
PCM-09	PCM-09DS-090806	SW8151A	2,4-DB (2,4-D derivative)	50	340	26	µg/kg
PCM-09	PCM-09DS-090806	SW8151A	Dicamba	50	340	30	µg/kg
PCM-09	PCM-09DS-090806	SW8151A	Dichlorprop	50	340	62	µg/kg
PCM-09	PCM-09DS-090806	SW8151A	Dinoseb	80	340	19	µg/kg
PCM-09	PCM-09DS-090806	SW8151A	MCPA	10000	68000	18000	µg/kg
PCM-09	PCM-09DS-090806	SW8151A	Mecoprop (MCPP)	10000	68000	18000	µg/kg
PCM-14	PCM-14DS-090806	SW8151A	2,2-Dichloropropionic acid (Dalapon)	50	250	31	µg/kg
PCM-14	PCM-14DS-090806	SW8151A	2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	50	250	20	µg/kg
PCM-14	PCM-14DS-090806	SW8151A	2,4,5-TP (Silvex)	50	250	23	µg/kg
PCM-14	PCM-14DS-090806	SW8151A	2,4-D (2,4-Dichlorophenoxyacetic acid)	50	250	20	µg/kg
PCM-14	PCM-14DS-090806	SW8151A	2,4-DB (2,4-D derivative)	50	250	19	µg/kg
PCM-14	PCM-14DS-090806	SW8151A	Dicamba	50	250	22	µg/kg
PCM-14	PCM-14DS-090806	SW8151A	Dichlorprop	50	250	46	µg/kg
PCM-14	PCM-14DS-090806	SW8151A	Dinoseb	80	250	14	µg/kg
PCM-14	PCM-14DS-090806	SW8151A	MCPA	10000	49000	13000	µg/kg
PCM-14	PCM-14DS-090806	SW8151A	Mecoprop (MCPP)	10000	49000	13000	µg/kg
PCM-15	PCM-15DS-090806	SW8151A	2,2-Dichloropropionic acid (Dalapon)	50	280	34	µg/kg
PCM-15	PCM-15DS-090806	SW8151A	2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	50	280	23	µg/kg
PCM-15	PCM-15DS-090806	SW8151A	2,4,5-TP (Silvex)	50	280	26	µg/kg
PCM-15	PCM-15DS-090806	SW8151A	2,4-D (2,4-Dichlorophenoxyacetic acid)	50	280	23	µg/kg
PCM-15	PCM-15DS-090806	SW8151A	2,4-DB (2,4-D derivative)	50	280	21	µg/kg
PCM-15	PCM-15DS-090806	SW8151A	Dicamba	50	280	25	µg/kg
PCM-15	PCM-15DS-090806	SW8151A	Dichlorprop	50	280	51	µg/kg
PCM-15	PCM-15DS-090806	SW8151A	Dinoseb	80	280	16	µg/kg
PCM-15	PCM-15DS-090806	SW8151A	MCPA	10000	56000	15000	µg/kg
PCM-15	PCM-15DS-090806	SW8151A	Mecoprop (MCPP)	10000	56000	15000	µg/kg
PCM-22	PCM-22DS-090806	SW8151A	2,2-Dichloropropionic acid (Dalapon)	50	350	42	µg/kg
PCM-22	PCM-22DS-090806	SW8151A	2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	50	350	28	µg/kg
PCM-22	PCM-22DS-090806	SW8151A	2,4,5-TP (Silvex)	50	350	31	µg/kg
PCM-22	PCM-22DS-090806	SW8151A	2,4-D (2,4-Dichlorophenoxyacetic acid)	50	350	28	µg/kg
PCM-22	PCM-22DS-090806	SW8151A	2,4-DB (2,4-D derivative)	50	350	26	µg/kg
PCM-22	PCM-22DS-090806	SW8151A	Dicamba	50	350	31	µg/kg
PCM-22	PCM-22DS-090806	SW8151A	Dichlorprop	50	350	63	µg/kg
PCM-22	PCM-22DS-090806	SW8151A	Dinoseb	80	350	19	µg/kg
PCM-22	PCM-22DS-090806	SW8151A	MCPA	10000	69000	18000	µg/kg
PCM-22	PCM-22DS-090806	SW8151A	Mecoprop (MCPP)	10000	69000	18000	µg/kg
PCM-02	PCM-02DS-090806	SW8151M	2,3,4,5-Tetrachlorophenol	5	13	0.98	µg/kg
PCM-02	PCM-02DS-090806	SW8151M	2,3,5,6-Tetrachlorophenol	5	13	0.85	µg/kg
PCM-02	PCM-02DS-090806	SW8151M	2,4,6-Trichlorophenol	5	13	1.1	µg/kg
PCM-02	PCM-02DS-090806	SW8151M	Pentachlorophenol	5	13	1.8	µg/kg
PCM-04	PCM-04DS-090806	SW8151M	2,3,4,5-Tetrachlorophenol	5	13	0.96	µg/kg
PCM-04	PCM-04DS-090806	SW8151M	2,3,5,6-Tetrachlorophenol	5	13	0.84	µg/kg
PCM-04	PCM-04DS-090806	SW8151M	2,4,6-Trichlorophenol	5	13	1.1	µg/kg
PCM-04	PCM-04DS-090806	SW8151M	Pentachlorophenol	5	13	1.8	µg/kg
PCM-06	PCM-06DS-090806	SW8151M	2,3,4,5-Tetrachlorophenol	5	14	1.1	µg/kg
PCM-06	PCM-06DS-090806	SW8151M	2,3,5,6-Tetrachlorophenol	5	14	0.92	µg/kg
PCM-06	PCM-06DS-090806	SW8151M	2,4,6-Trichlorophenol	5	14	1.2	µg/kg
PCM-06	PCM-06DS-090806	SW8151M	Pentachlorophenol	5	14	2	µg/kg
PCM-09	PCM-09DS-090806	SW8151M	2,3,4,5-Tetrachlorophenol	5	14	1.1	µg/kg
PCM-09	PCM-09DS-090806	SW8151M	2,3,5,6-Tetrachlorophenol	5	14	0.92	µg/kg
PCM-09	PCM-09DS-090806	SW8151M	2,4,6-Trichlorophenol	5	14	1.2	µg/kg
PCM-09	PCM-09DS-090806	SW8151M	Pentachlorophenol	5	14	2	µg/kg
PCM-14	PCM-14DS-090806	SW8151M	2,3,4,5-Tetrachlorophenol	5	8.6	0.67	µg/kg
PCM-14	PCM-14DS-090806	SW8151M	2,3,5,6-Tetrachlorophenol	5	8.6	0.59	µg/kg
PCM-14	PCM-14DS-090806	SW8151M	2,4,6-Trichlorophenol	5	8.6	0.76	µg/kg
PCM-14	PCM-14DS-090806	SW8151M	Pentachlorophenol	5	8.6	1.3	µg/kg
PCM-15	PCM-15DS-090806	SW8151M	2,3,4,5-Tetrachlorophenol	5	11	0.84	µg/kg
PCM-15	PCM-15DS-090806	SW8151M	2,3,5,6-Tetrachlorophenol	5	11	0.74	µg/kg
PCM-15	PCM-15DS-090806	SW8151M	2,4,6-Trichlorophenol	5	11	0.95	µg/kg
PCM-15	PCM-15DS-090806	SW8151M	Pentachlorophenol	5	11	1.6	µg/kg
PCM-22	PCM-22DS-090806	SW8151M	2,3,4,5-Tetrachlorophenol	5	13	1.1	µg/kg
PCM-22	PCM-22DS-090806	SW8151M	2,3,5,6-Tetrachlorophenol	5	13	0.88	µg/kg
PCM-22	PCM-22DS-090806	SW8151M	2,4,6-Trichlorophenol	5	13	1.2	µg/kg
PCM-22	PCM-22DS-090806	SW8151M	Pentachlorophenol	5	13	1.9	µg/kg
PCM-02	PCM-02DS-090806	SW8260	1,1,1,2-Tetrachloroethane	1	1.3	0.32	µg/kg
PCM-02	PCM-02DS-090806	SW8260	1,1,1-Trichloroethane	1	1.3	0.45	µg/kg
PCM-02	PCM-02DS-090806	SW8260	1,1,2,2-Tetrachloroethane	1	1.3	0.46	µg/kg
PCM-02	PCM-02DS-090806	SW8260	1,1'-Dichloroethane	1	1.3	0.26	µg/kg
PCM-02	PCM-02DS-090806	SW8260	1,1'-Dichloroethene	1	1.3	0.3	µg/kg
PCM-02	PCM-02DS-090806	SW8260	1,2,3-Trichloropropane	1	2.6	0.46	µg/kg

Table 5
Target Analytes with Laboratory Reporting Limits Above the Target Reporting Limits

Location ID	Sample ID	Analytic method	Chemical Name	Target Method Reporting Limit	Reporting Limit	Method Detection Limit	Units
PCM-02	PCM-02DS-090806	SW8260	1,2-Dibromoethane (Ethylene dibromide)	1	1.3	0.35	µg/kg
PCM-02	PCM-02DS-090806	SW8260	1,2-Dichloroethane	1	1.3	0.076	µg/kg
PCM-02	PCM-02DS-090806	SW8260	1,2-Dichloroethene, trans-	1	1.3	0.45	µg/kg
PCM-02	PCM-02DS-090806	SW8260	1,2-Dichloropropane	1	1.3	0.28	µg/kg
PCM-02	PCM-02DS-090806	SW8260	1,3-Dichloropropene, cis-	1	1.3	0.28	µg/kg
PCM-02	PCM-02DS-090806	SW8260	1,3-Dichloropropene, trans-	1	1.3	0.43	µg/kg
PCM-02	PCM-02DS-090806	SW8260	2-Butanone (MEK)	4	5.1	1.3	µg/kg
PCM-02	PCM-02DS-090806	SW8260	2-Chloroethylvinyl ether	2	2.6	0.61	µg/kg
PCM-02	PCM-02DS-090806	SW8260	2-Hexanone (Methyl butyl ketone)	2	5.1	0.9	µg/kg
PCM-02	PCM-02DS-090806	SW8260	Acrolein	2.5	6.4	3.3	µg/kg
PCM-02	PCM-02DS-090806	SW8260	Acrylonitrile	2	2.6	1.6	µg/kg
PCM-02	PCM-02DS-090806	SW8260	Benzene	1	1.3	0.28	µg/kg
PCM-02	PCM-02DS-090806	SW8260	Bromochloromethane	1	1.3	0.18	µg/kg
PCM-02	PCM-02DS-090806	SW8260	Bromodichloromethane	1	1.3	0.19	µg/kg
PCM-02	PCM-02DS-090806	SW8260	Bromoform	1	2.6	0.38	µg/kg
PCM-02	PCM-02DS-090806	SW8260	Bromomethane	1	1.3	0.79	µg/kg
PCM-02	PCM-02DS-090806	SW8260	Carbon disulfide	1	1.3	0.33	µg/kg
PCM-02	PCM-02DS-090806	SW8260	Carbon tetrachloride (Tetrachloromethane)	1	1.3	0.46	µg/kg
PCM-02	PCM-02DS-090806	SW8260	Chlorobenzene	1	1.3	0.32	µg/kg
PCM-02	PCM-02DS-090806	SW8260	Chloroethane	1	1.3	0.3	µg/kg
PCM-02	PCM-02DS-090806	SW8260	Chloroform	1	1.3	0.28	µg/kg
PCM-02	PCM-02DS-090806	SW8260	Chloromethane	1	1.3	0.47	µg/kg
PCM-02	PCM-02DS-090806	SW8260	Dibromochloromethane	1	1.3	0.24	µg/kg
PCM-02	PCM-02DS-090806	SW8260	Dibromomethane	1	1.3	0.31	µg/kg
PCM-02	PCM-02DS-090806	SW8260	Dichlorodifluoromethane	1	1.3	0.28	µg/kg
PCM-02	PCM-02DS-090806	SW8260	Dichloromethane (Methylene chloride)	5	6.4	0.16	µg/kg
PCM-02	PCM-02DS-090806	SW8260	Iodomethane (Methyl iodide)	2	26	0.72	µg/kg
PCM-02	PCM-02DS-090806	SW8260	Isopropylbenzene (Cumene)	1	1.3	0.17	µg/kg
PCM-02	PCM-02DS-090806	SW8260	m,p-Xylene	1	2.6	0.47	µg/kg
PCM-02	PCM-02DS-090806	SW8260	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	2	2.6	0.94	µg/kg
PCM-02	PCM-02DS-090806	SW8260	Methyl tert-butyl ether (MTBE)	1	2.6	0.23	µg/kg
PCM-02	PCM-02DS-090806	SW8260	o-Xylene	1	1.3	0.17	µg/kg
PCM-02	PCM-02DS-090806	SW8260	Styrene	1	1.3	0.17	µg/kg
PCM-02	PCM-02DS-090806	SW8260	Tetrachloroethene (PCE)	1	1.3	0.33	µg/kg
PCM-02	PCM-02DS-090806	SW8260	trans-1,4-Dichloro-2-butene	2	2.6	0.35	µg/kg
PCM-02	PCM-02DS-090806	SW8260	Trichloroethene (TCE)	1	1.3	0.35	µg/kg
PCM-02	PCM-02DS-090806	SW8260	Trichlorofluoromethane (Fluorotrichloromethane)	1	1.3	0.27	µg/kg
PCM-02	PCM-02DS-090806	SW8260	Vinyl acetate	1	2.6	1.2	µg/kg
PCM-02	PCM-02DS-090806	SW8260	Vinyl chloride	1	1.3	0.18	µg/kg
PCM-04	PCM-04DS-090806	SW8260	1,1,1,2-Tetrachloroethane	1	1.3	0.32	µg/kg
PCM-04	PCM-04DS-090806	SW8260	1,1,1-Trichloroethane	1	1.3	0.44	µg/kg
PCM-04	PCM-04DS-090806	SW8260	1,1,2,2-Tetrachloroethane	1	1.3	0.45	µg/kg
PCM-04	PCM-04DS-090806	SW8260	1,1'-Dichloroethane	1	1.3	0.25	µg/kg
PCM-04	PCM-04DS-090806	SW8260	1,1'-Dichloroethene	1	1.3	0.29	µg/kg
PCM-04	PCM-04DS-090806	SW8260	1,2,3-Trichloropropane	1	2.5	0.45	µg/kg
PCM-04	PCM-04DS-090806	SW8260	1,2-Dibromoethane (Ethylene dibromide)	1	1.3	0.34	µg/kg
PCM-04	PCM-04DS-090806	SW8260	1,2-Dichloroethane	1	1.3	0.075	µg/kg
PCM-04	PCM-04DS-090806	SW8260	1,2-Dichloroethene, trans-	1	1.3	0.44	µg/kg
PCM-04	PCM-04DS-090806	SW8260	1,2-Dichloropropane	1	1.3	0.28	µg/kg
PCM-04	PCM-04DS-090806	SW8260	1,3-Dichloropropene, cis-	1	1.3	0.28	µg/kg
PCM-04	PCM-04DS-090806	SW8260	1,3-Dichloropropene, trans-	1	1.3	0.43	µg/kg
PCM-04	PCM-04DS-090806	SW8260	2-Butanone (MEK)	4	5	1.3	µg/kg
PCM-04	PCM-04DS-090806	SW8260	2-Chloroethylvinyl ether	2	2.5	0.6	µg/kg
PCM-04	PCM-04DS-090806	SW8260	2-Hexanone (Methyl butyl ketone)	2	5	0.89	µg/kg
PCM-04	PCM-04DS-090806	SW8260	Acetone	10	13	2.2	µg/kg
PCM-04	PCM-04DS-090806	SW8260	Acrolein	2.5	6.3	3.3	µg/kg
PCM-04	PCM-04DS-090806	SW8260	Acrylonitrile	2	2.5	1.5	µg/kg
PCM-04	PCM-04DS-090806	SW8260	Bromochloromethane	1	1.3	0.18	µg/kg
PCM-04	PCM-04DS-090806	SW8260	Bromodichloromethane	1	1.3	0.19	µg/kg
PCM-04	PCM-04DS-090806	SW8260	Bromoform	1	2.5	0.38	µg/kg
PCM-04	PCM-04DS-090806	SW8260	Bromomethane	1	1.3	0.78	µg/kg
PCM-04	PCM-04DS-090806	SW8260	Carbon disulfide	1	1.3	0.33	µg/kg
PCM-04	PCM-04DS-090806	SW8260	Carbon tetrachloride (Tetrachloromethane)	1	1.3	0.45	µg/kg
PCM-04	PCM-04DS-090806	SW8260	Chlorobenzene	1	1.3	0.32	µg/kg
PCM-04	PCM-04DS-090806	SW8260	Chloroethane	1	1.3	0.29	µg/kg
PCM-04	PCM-04DS-090806	SW8260	Chloroform	1	1.3	0.28	µg/kg
PCM-04	PCM-04DS-090806	SW8260	Chloromethane	1	1.3	0.47	µg/kg
PCM-04	PCM-04DS-090806	SW8260	Dibromochloromethane	1	1.3	0.24	µg/kg
PCM-04	PCM-04DS-090806	SW8260	Dibromomethane	1	1.3	0.3	µg/kg
PCM-04	PCM-04DS-090806	SW8260	Dichlorodifluoromethane	1	1.3	0.28	µg/kg
PCM-04	PCM-04DS-090806	SW8260	Dichloromethane (Methylene chloride)	5	6.3	0.15	µg/kg
PCM-04	PCM-04DS-090806	SW8260	Iodomethane (Methyl iodide)	2	25	0.72	µg/kg
PCM-04	PCM-04DS-090806	SW8260	Isopropylbenzene (Cumene)	1	1.3	0.17	µg/kg
PCM-04	PCM-04DS-090806	SW8260	m,p-Xylene	1	2.5	0.47	µg/kg

Table 5
Target Analytes with Laboratory Reporting Limits Above the Target Reporting Limits

Location ID	Sample ID	Analytic method	Chemical Name	Target Method Reporting Limit	Reporting Limit	Method Detection Limit	Units
PCM-04	PCM-04DS-090806	SW8260	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	2	2.5	0.93	µg/kg
PCM-04	PCM-04DS-090806	SW8260	Methyl tert-butyl ether (MTBE)	1	2.5	0.23	µg/kg
PCM-04	PCM-04DS-090806	SW8260	o-Xylene	1	1.3	0.17	µg/kg
PCM-04	PCM-04DS-090806	SW8260	Styrene	1	1.3	0.17	µg/kg
PCM-04	PCM-04DS-090806	SW8260	Tetrachloroethene (PCE)	1	1.3	0.33	µg/kg
PCM-04	PCM-04DS-090806	SW8260	Toluene	1	1.3	0.23	µg/kg
PCM-04	PCM-04DS-090806	SW8260	trans-1,4-Dichloro-2-butene	2	2.5	0.34	µg/kg
PCM-04	PCM-04DS-090806	SW8260	Trichloroethene (TCE)	1	1.3	0.34	µg/kg
PCM-04	PCM-04DS-090806	SW8260	Trichlorofluoromethane (Fluorotrichloromethane)	1	1.3	0.27	µg/kg
PCM-04	PCM-04DS-090806	SW8260	Vinyl acetate	1	2.5	1.2	µg/kg
PCM-04	PCM-04DS-090806	SW8260	Vinyl chloride	1	1.3	0.18	µg/kg
PCM-06	PCM-06DS-090806	SW8260	1,1,1,2-Tetrachloroethane	1	1.3	0.32	µg/kg
PCM-06	PCM-06DS-090806	SW8260	1,1,1-Trichloroethane	1	1.3	0.44	µg/kg
PCM-06	PCM-06DS-090806	SW8260	1,1,2,2-Tetrachloroethane	1	1.3	0.46	µg/kg
PCM-06	PCM-06DS-090806	SW8260	1,1'-Dichloroethane	1	1.3	0.26	µg/kg
PCM-06	PCM-06DS-090806	SW8260	1,1'-Dichloroethene	1	1.3	0.29	µg/kg
PCM-06	PCM-06DS-090806	SW8260	1,2,3-Trichloropropane	1	2.6	0.46	µg/kg
PCM-06	PCM-06DS-090806	SW8260	1,2-Dibromoethane (Ethylene dibromide)	1	1.3	0.34	µg/kg
PCM-06	PCM-06DS-090806	SW8260	1,2-Dichloroethane	1	1.3	0.076	µg/kg
PCM-06	PCM-06DS-090806	SW8260	1,2-Dichloroethene, trans-	1	1.3	0.44	µg/kg
PCM-06	PCM-06DS-090806	SW8260	1,2-Dichloropropane	1	1.3	0.28	µg/kg
PCM-06	PCM-06DS-090806	SW8260	1,3-Dichloropropene, cis-	1	1.3	0.28	µg/kg
PCM-06	PCM-06DS-090806	SW8260	1,3-Dichloropropene, trans-	1	1.3	0.43	µg/kg
PCM-06	PCM-06DS-090806	SW8260	2-Chloroethylvinyl ether	2	2.6	0.61	µg/kg
PCM-06	PCM-06DS-090806	SW8260	2-Hexanone (Methyl butyl ketone)	2	5.1	0.89	µg/kg
PCM-06	PCM-06DS-090806	SW8260	Acrolein	2.5	6.3	3.3	µg/kg
PCM-06	PCM-06DS-090806	SW8260	Acrylonitrile	2	2.6	1.6	µg/kg
PCM-06	PCM-06DS-090806	SW8260	Bromochloromethane	1	1.3	0.18	µg/kg
PCM-06	PCM-06DS-090806	SW8260	Bromodichloromethane	1	1.3	0.19	µg/kg
PCM-06	PCM-06DS-090806	SW8260	Bromoform	1	2.6	0.38	µg/kg
PCM-06	PCM-06DS-090806	SW8260	Bromomethane	1	1.3	0.78	µg/kg
PCM-06	PCM-06DS-090806	SW8260	Carbon disulfide	1	1.3	0.33	µg/kg
PCM-06	PCM-06DS-090806	SW8260	Carbon tetrachloride (Tetrachloromethane)	1	1.3	0.46	µg/kg
PCM-06	PCM-06DS-090806	SW8260	Chlorobenzene	1	1.3	0.32	µg/kg
PCM-06	PCM-06DS-090806	SW8260	Chloroethane	1	1.3	0.29	µg/kg
PCM-06	PCM-06DS-090806	SW8260	Chloroform	1	1.3	0.28	µg/kg
PCM-06	PCM-06DS-090806	SW8260	Chloromethane	1	1.3	0.47	µg/kg
PCM-06	PCM-06DS-090806	SW8260	Dibromochloromethane	1	1.3	0.24	µg/kg
PCM-06	PCM-06DS-090806	SW8260	Dibromomethane	1	1.3	0.31	µg/kg
PCM-06	PCM-06DS-090806	SW8260	Dichlorodifluoromethane	1	1.3	0.28	µg/kg
PCM-06	PCM-06DS-090806	SW8260	Dichloromethane (Methylene chloride)	5	6.3	0.16	µg/kg
PCM-06	PCM-06DS-090806	SW8260	Iodomethane (Methyl iodide)	2	26	0.72	µg/kg
PCM-06	PCM-06DS-090806	SW8260	Isopropylbenzene (Cumene)	1	1.3	0.17	µg/kg
PCM-06	PCM-06DS-090806	SW8260	m,p-Xylene	1	2.6	0.47	µg/kg
PCM-06	PCM-06DS-090806	SW8260	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	2	2.6	0.93	µg/kg
PCM-06	PCM-06DS-090806	SW8260	Methyl tert-butyl ether (MTBE)	1	2.6	0.23	µg/kg
PCM-06	PCM-06DS-090806	SW8260	o-Xylene	1	1.3	0.17	µg/kg
PCM-06	PCM-06DS-090806	SW8260	Styrene	1	1.3	0.17	µg/kg
PCM-06	PCM-06DS-090806	SW8260	Tetrachloroethene (PCE)	1	1.3	0.33	µg/kg
PCM-06	PCM-06DS-090806	SW8260	Toluene	1	1.3	0.23	µg/kg
PCM-06	PCM-06DS-090806	SW8260	trans-1,4-Dichloro-2-butene	2	2.6	0.34	µg/kg
PCM-06	PCM-06DS-090806	SW8260	Trichloroethene (TCE)	1	1.3	0.34	µg/kg
PCM-06	PCM-06DS-090806	SW8260	Trichlorofluoromethane (Fluorotrichloromethane)	1	1.3	0.27	µg/kg
PCM-06	PCM-06DS-090806	SW8260	Vinyl acetate	1	2.6	1.2	µg/kg
PCM-06	PCM-06DS-090806	SW8260	Vinyl chloride	1	1.3	0.18	µg/kg
PCM-09	PCM-09DS-090806	SW8260	1,1,1,2-Tetrachloroethane	1	1.4	0.33	µg/kg
PCM-09	PCM-09DS-090806	SW8260	1,1,1-Trichloroethane	1	1.4	0.46	µg/kg
PCM-09	PCM-09DS-090806	SW8260	1,1,2,2-Tetrachloroethane	1	1.4	0.48	µg/kg
PCM-09	PCM-09DS-090806	SW8260	1,1'-Dichloroethane	1	1.4	0.27	µg/kg
PCM-09	PCM-09DS-090806	SW8260	1,1'-Dichloroethene	1	1.4	0.31	µg/kg
PCM-09	PCM-09DS-090806	SW8260	1,2,3-Trichloropropane	1	2.7	0.48	µg/kg
PCM-09	PCM-09DS-090806	SW8260	1,2-Dibromoethane (Ethylene dibromide)	1	1.4	0.36	µg/kg
PCM-09	PCM-09DS-090806	SW8260	1,2-Dichloroethane	1	1.4	0.079	µg/kg
PCM-09	PCM-09DS-090806	SW8260	1,2-Dichloroethene, trans-	1	1.4	0.46	µg/kg
PCM-09	PCM-09DS-090806	SW8260	1,2-Dichloropropane	1	1.4	0.29	µg/kg
PCM-09	PCM-09DS-090806	SW8260	1,3-Dichloropropene, cis-	1	1.4	0.29	µg/kg
PCM-09	PCM-09DS-090806	SW8260	1,3-Dichloropropene, trans-	1	1.4	0.45	µg/kg
PCM-09	PCM-09DS-090806	SW8260	2-Chloroethylvinyl ether	2	2.7	0.64	µg/kg
PCM-09	PCM-09DS-090806	SW8260	2-Hexanone (Methyl butyl ketone)	2	5.3	0.94	µg/kg
PCM-09	PCM-09DS-090806	SW8260	Acrolein	2.5	6.6	3.5	µg/kg
PCM-09	PCM-09DS-090806	SW8260	Acrylonitrile	2	2.7	1.6	µg/kg
PCM-09	PCM-09DS-090806	SW8260	Benzene	1	1.4	0.29	µg/kg
PCM-09	PCM-09DS-090806	SW8260	Bromochloromethane	1	1.4	0.19	µg/kg

Table 5
Target Analytes with Laboratory Reporting Limits Above the Target Reporting Limits

Location ID	Sample ID	Analytic method	Chemical Name	Target Method Reporting Limit	Reporting Limit	Method Detection Limit	Units
PCM-09	PCM-09DS-090806	SW8260	Bromodichloromethane	1	1.4	0.2	µg/kg
PCM-09	PCM-09DS-090806	SW8260	Bromoform	1	2.7	0.4	µg/kg
PCM-09	PCM-09DS-090806	SW8260	Bromomethane	1	1.4	0.82	µg/kg
PCM-09	PCM-09DS-090806	SW8260	Carbon disulfide	1	1.4	0.35	µg/kg
PCM-09	PCM-09DS-090806	SW8260	Carbon tetrachloride (Tetrachloromethane)	1	1.4	0.48	µg/kg
PCM-09	PCM-09DS-090806	SW8260	Chlorobenzene	1	1.4	0.33	µg/kg
PCM-09	PCM-09DS-090806	SW8260	Chloroethane	1	1.4	0.31	µg/kg
PCM-09	PCM-09DS-090806	SW8260	Chloroform	1	1.4	0.29	µg/kg
PCM-09	PCM-09DS-090806	SW8260	Chloromethane	1	1.4	0.49	µg/kg
PCM-09	PCM-09DS-090806	SW8260	Dibromochloromethane	1	1.4	0.25	µg/kg
PCM-09	PCM-09DS-090806	SW8260	Dibromomethane	1	1.4	0.32	µg/kg
PCM-09	PCM-09DS-090806	SW8260	Dichlorodifluoromethane	1	1.4	0.29	µg/kg
PCM-09	PCM-09DS-090806	SW8260	Dichloromethane (Methylene chloride)	5	6.6	0.16	µg/kg
PCM-09	PCM-09DS-090806	SW8260	Iodomethane (Methyl iodide)	2	27	0.75	µg/kg
PCM-09	PCM-09DS-090806	SW8260	Isopropylbenzene (Cumene)	1	1.4	0.18	µg/kg
PCM-09	PCM-09DS-090806	SW8260	m,p-Xylene	1	2.7	0.49	µg/kg
PCM-09	PCM-09DS-090806	SW8260	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	2	2.7	0.98	µg/kg
PCM-09	PCM-09DS-090806	SW8260	Methyl tert-butyl ether (MTBE)	1	2.7	0.24	µg/kg
PCM-09	PCM-09DS-090806	SW8260	o-Xylene	1	1.4	0.18	µg/kg
PCM-09	PCM-09DS-090806	SW8260	Styrene	1	1.4	0.18	µg/kg
PCM-09	PCM-09DS-090806	SW8260	Tetrachloroethene (PCE)	1	1.4	0.35	µg/kg
PCM-09	PCM-09DS-090806	SW8260	Toluene	1	1.4	0.24	µg/kg
PCM-09	PCM-09DS-090806	SW8260	trans-1,4-Dichloro-2-butene	2	2.7	0.36	µg/kg
PCM-09	PCM-09DS-090806	SW8260	Trichloroethene (TCE)	1	1.4	0.36	µg/kg
PCM-09	PCM-09DS-090806	SW8260	Trichlorofluoromethane (Fluorotrichloromethane)	1	1.4	0.28	µg/kg
PCM-09	PCM-09DS-090806	SW8260	Vinyl acetate	1	2.7	1.3	µg/kg
PCM-09	PCM-09DS-090806	SW8260	Vinyl chloride	1	1.4	0.19	µg/kg
PCM-14	PCM-14DS-090806	SW8260	1,2,3-Trichloropropane	1	1.9	0.36	µg/kg
PCM-14	PCM-14DS-090806	SW8260	2-Hexanone (Methyl butyl ketone)	2	3.7	0.71	µg/kg
PCM-14	PCM-14DS-090806	SW8260	Acrolein	2.5	4.6	2.6	µg/kg
PCM-14	PCM-14DS-090806	SW8260	Bromoform	1	1.9	0.3	µg/kg
PCM-14	PCM-14DS-090806	SW8260	Iodomethane (Methyl iodide)	2	19	0.57	µg/kg
PCM-14	PCM-14DS-090806	SW8260	m,p-Xylene	1	1.9	0.37	µg/kg
PCM-14	PCM-14DS-090806	SW8260	Methyl tert-butyl ether (MTBE)	1	1.9	0.18	µg/kg
PCM-14	PCM-14DS-090806	SW8260	Vinyl acetate	1	1.9	0.92	µg/kg
PCM-15	PCM-15DS-090806	SW8260	1,1,1,2-Tetrachloroethane	1	1.1	0.28	µg/kg
PCM-15	PCM-15DS-090806	SW8260	1,1,1-Trichloroethane	1	1.1	0.39	µg/kg
PCM-15	PCM-15DS-090806	SW8260	1,1,2,2-Tetrachloroethane	1	1.1	0.4	µg/kg
PCM-15	PCM-15DS-090806	SW8260	1,1'-Dichloroethane	1	1.1	0.22	µg/kg
PCM-15	PCM-15DS-090806	SW8260	1,1'-Dichloroethene	1	1.1	0.25	µg/kg
PCM-15	PCM-15DS-090806	SW8260	1,2,3-Trichloropropane	1	2.2	0.4	µg/kg
PCM-15	PCM-15DS-090806	SW8260	1,2-Dibromoethane (Ethylene dibromide)	1	1.1	0.3	µg/kg
PCM-15	PCM-15DS-090806	SW8260	1,2-Dichloroethane	1	1.1	0.066	µg/kg
PCM-15	PCM-15DS-090806	SW8260	1,2-Dichloroethene, trans-	1	1.1	0.39	µg/kg
PCM-15	PCM-15DS-090806	SW8260	1,2-Dichloropropane	1	1.1	0.24	µg/kg
PCM-15	PCM-15DS-090806	SW8260	1,3-Dichloropropene, cis-	1	1.1	0.24	µg/kg
PCM-15	PCM-15DS-090806	SW8260	1,3-Dichloropropene, trans-	1	1.1	0.37	µg/kg
PCM-15	PCM-15DS-090806	SW8260	2-Butanone (MEK)	4	4.4	1.1	µg/kg
PCM-15	PCM-15DS-090806	SW8260	2-Chloroethylvinyl ether	2	2.2	0.53	µg/kg
PCM-15	PCM-15DS-090806	SW8260	2-Hexanone (Methyl butyl ketone)	2	4.4	0.78	µg/kg
PCM-15	PCM-15DS-090806	SW8260	Acetone	10	11	1.9	µg/kg
PCM-15	PCM-15DS-090806	SW8260	Acrolein	2.5	5.5	2.9	µg/kg
PCM-15	PCM-15DS-090806	SW8260	Acrylonitrile	2	2.2	1.4	µg/kg
PCM-15	PCM-15DS-090806	SW8260	Benzene	1	1.1	0.24	µg/kg
PCM-15	PCM-15DS-090806	SW8260	Bromochloromethane	1	1.1	0.16	µg/kg
PCM-15	PCM-15DS-090806	SW8260	Bromodichloromethane	1	1.1	0.17	µg/kg
PCM-15	PCM-15DS-090806	SW8260	Bromoform	1	2.2	0.33	µg/kg
PCM-15	PCM-15DS-090806	SW8260	Bromomethane	1	1.1	0.68	µg/kg
PCM-15	PCM-15DS-090806	SW8260	Carbon disulfide	1	1.1	0.29	µg/kg
PCM-15	PCM-15DS-090806	SW8260	Carbon tetrachloride (Tetrachloromethane)	1	1.1	0.4	µg/kg
PCM-15	PCM-15DS-090806	SW8260	Chlorobenzene	1	1.1	0.28	µg/kg
PCM-15	PCM-15DS-090806	SW8260	Chloroethane	1	1.1	0.25	µg/kg
PCM-15	PCM-15DS-090806	SW8260	Chloroform	1	1.1	0.24	µg/kg
PCM-15	PCM-15DS-090806	SW8260	Chloromethane	1	1.1	0.41	µg/kg
PCM-15	PCM-15DS-090806	SW8260	Dibromochloromethane	1	1.1	0.21	µg/kg
PCM-15	PCM-15DS-090806	SW8260	Dibromomethane	1	1.1	0.27	µg/kg
PCM-15	PCM-15DS-090806	SW8260	Dichlorodifluoromethane	1	1.1	0.24	µg/kg
PCM-15	PCM-15DS-090806	SW8260	Dichloromethane (Methylene chloride)	5	5.5	0.14	µg/kg
PCM-15	PCM-15DS-090806	SW8260	Ethylbenzene	1	1.1	0.24	µg/kg
PCM-15	PCM-15DS-090806	SW8260	Iodomethane (Methyl iodide)	2	22	0.62	µg/kg
PCM-15	PCM-15DS-090806	SW8260	Isopropylbenzene (Cumene)	1	1.1	0.15	µg/kg
PCM-15	PCM-15DS-090806	SW8260	m,p-Xylene	1	2.2	0.41	µg/kg
PCM-15	PCM-15DS-090806	SW8260	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	2	2.2	0.81	µg/kg

Table 5
Target Analytes with Laboratory Reporting Limits Above the Target Reporting Limits

Location ID	Sample ID	Analytic method	Chemical Name	Target Method Reporting Limit	Reporting Limit	Method Detection Limit	Units
PCM-15	PCM-15DS-090806	SW8260	Methyl tert-butyl ether (MTBE)	1	2.2	0.2	µg/kg
PCM-15	PCM-15DS-090806	SW8260	o-Xylene	1	1.1	0.15	µg/kg
PCM-15	PCM-15DS-090806	SW8260	Styrene	1	1.1	0.15	µg/kg
PCM-15	PCM-15DS-090806	SW8260	Tetrachloroethene (PCE)	1	1.1	0.29	µg/kg
PCM-15	PCM-15DS-090806	SW8260	Toluene	1	1.1	0.2	µg/kg
PCM-15	PCM-15DS-090806	SW8260	trans-1,4-Dichloro-2-butene	2	2.2	0.3	µg/kg
PCM-15	PCM-15DS-090806	SW8260	Trichloroethene (TCE)	1	1.1	0.3	µg/kg
PCM-15	PCM-15DS-090806	SW8260	Trichlorofluoromethane (Fluorotrichloromethane)	1	1.1	0.23	µg/kg
PCM-15	PCM-15DS-090806	SW8260	Vinyl acetate	1	2.2	1	µg/kg
PCM-15	PCM-15DS-090806	SW8260	Vinyl chloride	1	1.1	0.16	µg/kg
PCM-22	PCM-22DS-090806	SW8260	1,1,1,2-Tetrachloroethane	1	1.3	0.33	µg/kg
PCM-22	PCM-22DS-090806	SW8260	1,1,1-Trichloroethane	1	1.3	0.46	µg/kg
PCM-22	PCM-22DS-090806	SW8260	1,1,2,2-Tetrachloroethane	1	1.3	0.47	µg/kg
PCM-22	PCM-22DS-090806	SW8260	1,1'-Dichloroethane	1	1.3	0.26	µg/kg
PCM-22	PCM-22DS-090806	SW8260	1,1'-Dichloroethene	1	1.3	0.3	µg/kg
PCM-22	PCM-22DS-090806	SW8260	1,2,3-Trichloropropane	1	2.6	0.47	µg/kg
PCM-22	PCM-22DS-090806	SW8260	1,2-Dibromoethane (Ethylene dibromide)	1	1.3	0.35	µg/kg
PCM-22	PCM-22DS-090806	SW8260	1,2-Dichloroethane	1	1.3	0.078	µg/kg
PCM-22	PCM-22DS-090806	SW8260	1,2-Dichloroethene, trans-	1	1.3	0.46	µg/kg
PCM-22	PCM-22DS-090806	SW8260	1,2-Dichloropropane	1	1.3	0.29	µg/kg
PCM-22	PCM-22DS-090806	SW8260	1,3-Dichloropropene, cis-	1	1.3	0.29	µg/kg
PCM-22	PCM-22DS-090806	SW8260	1,3-Dichloropropene, trans-	1	1.3	0.44	µg/kg
PCM-22	PCM-22DS-090806	SW8260	2-Butanone (MEK)	4	5.2	1.3	µg/kg
PCM-22	PCM-22DS-090806	SW8260	2-Chloroethylvinyl ether	2	2.6	0.62	µg/kg
PCM-22	PCM-22DS-090806	SW8260	2-Hexanone (Methyl butyl ketone)	2	5.2	0.92	µg/kg
PCM-22	PCM-22DS-090806	SW8260	Acrolein	2.5	6.5	3.4	µg/kg
PCM-22	PCM-22DS-090806	SW8260	Acrylonitrile	2	2.6	1.6	µg/kg
PCM-22	PCM-22DS-090806	SW8260	Bromochloromethane	1	1.3	0.19	µg/kg
PCM-22	PCM-22DS-090806	SW8260	Bromodichloromethane	1	1.3	0.2	µg/kg
PCM-22	PCM-22DS-090806	SW8260	Bromoform	1	2.6	0.39	µg/kg
PCM-22	PCM-22DS-090806	SW8260	Bromomethane	1	1.3	0.81	µg/kg
PCM-22	PCM-22DS-090806	SW8260	Carbon disulfide	1	1.3	0.34	µg/kg
PCM-22	PCM-22DS-090806	SW8260	Carbon tetrachloride (Tetrachloromethane)	1	1.3	0.47	µg/kg
PCM-22	PCM-22DS-090806	SW8260	Chlorobenzene	1	1.3	0.33	µg/kg
PCM-22	PCM-22DS-090806	SW8260	Chloroethane	1	1.3	0.3	µg/kg
PCM-22	PCM-22DS-090806	SW8260	Chloroform	1	1.3	0.29	µg/kg
PCM-22	PCM-22DS-090806	SW8260	Chloromethane	1	1.3	0.48	µg/kg
PCM-22	PCM-22DS-090806	SW8260	Dibromochloromethane	1	1.3	0.25	µg/kg
PCM-22	PCM-22DS-090806	SW8260	Dibromomethane	1	1.3	0.31	µg/kg
PCM-22	PCM-22DS-090806	SW8260	Dichlorodifluoromethane	1	1.3	0.29	µg/kg
PCM-22	PCM-22DS-090806	SW8260	Dichloromethane (Methylene chloride)	5	6.5	0.16	µg/kg
PCM-22	PCM-22DS-090806	SW8260	Iodomethane (Methyl iodide)	2	26	0.74	µg/kg
PCM-22	PCM-22DS-090806	SW8260	Methyl isobutyl ketone (4-Methyl-2-pentanone or (MIBK))	2	2.6	0.96	µg/kg
PCM-22	PCM-22DS-090806	SW8260	Methyl tert-butyl ether (MTBE)	1	2.6	0.24	µg/kg
PCM-22	PCM-22DS-090806	SW8260	Styrene	1	1.3	0.17	µg/kg
PCM-22	PCM-22DS-090806	SW8260	Tetrachloroethene (PCE)	1	1.3	0.34	µg/kg
PCM-22	PCM-22DS-090806	SW8260	trans-1,4-Dichloro-2-butene	2	2.6	0.35	µg/kg
PCM-22	PCM-22DS-090806	SW8260	Trichloroethene (TCE)	1	1.3	0.35	µg/kg
PCM-22	PCM-22DS-090806	SW8260	Trichlorofluoromethane (Fluorotrichloromethane)	1	1.3	0.28	µg/kg
PCM-22	PCM-22DS-090806	SW8260	Vinyl acetate	1	2.6	1.2	µg/kg
PCM-22	PCM-22DS-090806	SW8260	Vinyl chloride	1	1.3	0.19	µg/kg
PCM-02	PCM-02DS-090806	SW8270	1,2,4-Trichlorobenzene	10	140	35	µg/kg
PCM-02	PCM-02DS-090806	SW8270	1,2-Dichlorobenzene	10	140	38	µg/kg
PCM-02	PCM-02DS-090806	SW8270	1,3-Dichlorobenzene	10	140	40	µg/kg
PCM-02	PCM-02DS-090806	SW8270	1,4-Dichlorobenzene	10	140	38	µg/kg
PCM-02	PCM-02DS-090806	SW8270	2,4,5-Trichlorophenol	5	140	20	µg/kg
PCM-02	PCM-02DS-090806	SW8270	2,4,6-Trichlorophenol	5	140	19	µg/kg
PCM-02	PCM-02DS-090806	SW8270	2,4-Dichlorophenol	10	140	14	µg/kg
PCM-02	PCM-02DS-090806	SW8270	2,4-Dimethylphenol	20	660	72	µg/kg
PCM-02	PCM-02DS-090806	SW8270	2,4-Dinitrophenol	200	2700	230	µg/kg
PCM-02	PCM-02DS-090806	SW8270	2,4-Dinitrotoluene	10	140	20	µg/kg
PCM-02	PCM-02DS-090806	SW8270	2,6-Dinitrotoluene	10	140	27	µg/kg
PCM-02	PCM-02DS-090806	SW8270	2-Chloronaphthalene	10	140	21	µg/kg
PCM-02	PCM-02DS-090806	SW8270	2-Chlorophenol	10	140	27	µg/kg
PCM-02	PCM-02DS-090806	SW8270	2-Methylphenol (o-Cresol)	10	140	20	µg/kg
PCM-02	PCM-02DS-090806	SW8270	2-Nitroaniline	20	270	42	µg/kg
PCM-02	PCM-02DS-090806	SW8270	2-Nitrophenol	10	140	20	µg/kg
PCM-02	PCM-02DS-090806	SW8270	3,3'-Dichlorobenzidine	100	1400	49	µg/kg
PCM-02	PCM-02DS-090806	SW8270	3-Nitroaniline	20	270	33	µg/kg
PCM-02	PCM-02DS-090806	SW8270	4-Bromophenyl-phenyl ether	10	140	21	µg/kg
PCM-02	PCM-02DS-090806	SW8270	4-Chloro-3-methylphenol	10	140	19	µg/kg
PCM-02	PCM-02DS-090806	SW8270	4-Chloroaniline	10	140	25	µg/kg
PCM-02	PCM-02DS-090806	SW8270	4-Chlorophenyl phenyl ether	10	140	19	µg/kg

Table 5
Target Analytes with Laboratory Reporting Limits Above the Target Reporting Limits

Location ID	Sample ID	Analytic method	Chemical Name	Target Method Reporting Limit	Reporting Limit	Method Detection Limit	Units
PCM-02	PCM-02DS-090806	SW8270	4-Methylphenol (p-Cresol)	10	140	20	µg/kg
PCM-02	PCM-02DS-090806	SW8270	4-Nitroaniline	20	270	24	µg/kg
PCM-02	PCM-02DS-090806	SW8270	4-Nitrophenol	100	1400	240	µg/kg
PCM-02	PCM-02DS-090806	SW8270	Aniline	20	270	20	µg/kg
PCM-02	PCM-02DS-090806	SW8270	Benzoic acid	200	2700	1300	µg/kg
PCM-02	PCM-02DS-090806	SW8270	Benzyl alcohol	10	270	28	µg/kg
PCM-02	PCM-02DS-090806	SW8270	bis(2-Chloroethoxy)methane	10	140	20	µg/kg
PCM-02	PCM-02DS-090806	SW8270	bis(2-Chloroethyl)ether	10	140	25	µg/kg
PCM-02	PCM-02DS-090806	SW8270	Butylbenzyl phthalate	10	140	42	µg/kg
PCM-02	PCM-02DS-090806	SW8270	Diethyl phthalate	10	140	18	µg/kg
PCM-02	PCM-02DS-090806	SW8270	Dimethyl phthalate	10	140	14	µg/kg
PCM-02	PCM-02DS-090806	SW8270	Di-n-butyl phthalate	10	270	110	µg/kg
PCM-02	PCM-02DS-090806	SW8270	Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)	100	1400	19	µg/kg
PCM-02	PCM-02DS-090806	SW8270	Di-n-octyl phthalate	10	140	23	µg/kg
PCM-02	PCM-02DS-090806	SW8270	Hexachlorobenzene	10	140	16	µg/kg
PCM-02	PCM-02DS-090806	SW8270	Hexachlorobutadiene	10	140	33	µg/kg
PCM-02	PCM-02DS-090806	SW8270	Hexachlorocyclopentadiene	50	660	380	µg/kg
PCM-02	PCM-02DS-090806	SW8270	Hexachloroethane	10	140	41	µg/kg
PCM-02	PCM-02DS-090806	SW8270	Isophorone	10	140	14	µg/kg
PCM-02	PCM-02DS-090806	SW8270	Nitrobenzene	10	140	29	µg/kg
PCM-02	PCM-02DS-090806	SW8270	N-Nitrosodi-N-propylamine	10	140	32	µg/kg
PCM-02	PCM-02DS-090806	SW8270	N-Nitrosodiphenylamine	10	140	21	µg/kg
PCM-02	PCM-02DS-090806	SW8270	Pentachlorophenol	5	1400	270	µg/kg
PCM-02	PCM-02DS-090806	SW8270	Phenol	30	400	27	µg/kg
PCM-04	PCM-04DS-090806	SW8270	1,2,4-Trichlorobenzene	10	130	34	µg/kg
PCM-04	PCM-04DS-090806	SW8270	1,2-Dichlorobenzene	10	130	37	µg/kg
PCM-04	PCM-04DS-090806	SW8270	1,3-Dichlorobenzene	10	130	39	µg/kg
PCM-04	PCM-04DS-090806	SW8270	1,4-Dichlorobenzene	10	130	37	µg/kg
PCM-04	PCM-04DS-090806	SW8270	2,4,5-Trichlorophenol	5	130	20	µg/kg
PCM-04	PCM-04DS-090806	SW8270	2,4,6-Trichlorophenol	5	130	18	µg/kg
PCM-04	PCM-04DS-090806	SW8270	2,4-Dichlorophenol	10	130	13	µg/kg
PCM-04	PCM-04DS-090806	SW8270	2,4-Dimethylphenol	20	640	70	µg/kg
PCM-04	PCM-04DS-090806	SW8270	2,4-Dinitrophenol	200	2600	220	µg/kg
PCM-04	PCM-04DS-090806	SW8270	2,4-Dinitrotoluene	10	130	20	µg/kg
PCM-04	PCM-04DS-090806	SW8270	2,6-Dinitrotoluene	10	130	26	µg/kg
PCM-04	PCM-04DS-090806	SW8270	2-Chloronaphthalene	10	130	21	µg/kg
PCM-04	PCM-04DS-090806	SW8270	2-Chlorophenol	10	130	26	µg/kg
PCM-04	PCM-04DS-090806	SW8270	2-Methylphenol (o-Cresol)	10	130	20	µg/kg
PCM-04	PCM-04DS-090806	SW8270	2-Nitroaniline	20	260	41	µg/kg
PCM-04	PCM-04DS-090806	SW8270	2-Nitrophenol	10	130	20	µg/kg
PCM-04	PCM-04DS-090806	SW8270	3,3'-Dichlorobenzidine	100	1300	48	µg/kg
PCM-04	PCM-04DS-090806	SW8270	3-Nitroaniline	20	260	32	µg/kg
PCM-04	PCM-04DS-090806	SW8270	4-Bromophenyl-phenyl ether	10	130	21	µg/kg
PCM-04	PCM-04DS-090806	SW8270	4-Chloro-3-methylphenol	10	130	18	µg/kg
PCM-04	PCM-04DS-090806	SW8270	4-Chloroaniline	10	130	25	µg/kg
PCM-04	PCM-04DS-090806	SW8270	4-Chlorophenyl phenyl ether	10	130	18	µg/kg
PCM-04	PCM-04DS-090806	SW8270	4-Methylphenol (p-Cresol)	10	130	20	µg/kg
PCM-04	PCM-04DS-090806	SW8270	4-Nitroaniline	20	260	23	µg/kg
PCM-04	PCM-04DS-090806	SW8270	4-Nitrophenol	100	1300	230	µg/kg
PCM-04	PCM-04DS-090806	SW8270	Aniline	20	260	20	µg/kg
PCM-04	PCM-04DS-090806	SW8270	Benzyl alcohol	10	260	27	µg/kg
PCM-04	PCM-04DS-090806	SW8270	bis(2-Chloroethoxy)methane	10	130	20	µg/kg
PCM-04	PCM-04DS-090806	SW8270	bis(2-Chloroethyl)ether	10	130	25	µg/kg
PCM-04	PCM-04DS-090806	SW8270	Butylbenzyl phthalate	10	130	41	µg/kg
PCM-04	PCM-04DS-090806	SW8270	Diethyl phthalate	10	130	17	µg/kg
PCM-04	PCM-04DS-090806	SW8270	Dimethyl phthalate	10	130	13	µg/kg
PCM-04	PCM-04DS-090806	SW8270	Di-n-butyl phthalate	10	260	110	µg/kg
PCM-04	PCM-04DS-090806	SW8270	Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)	100	1300	18	µg/kg
PCM-04	PCM-04DS-090806	SW8270	Di-n-octyl phthalate	10	130	22	µg/kg
PCM-04	PCM-04DS-090806	SW8270	Hexachlorobenzene	10	130	16	µg/kg
PCM-04	PCM-04DS-090806	SW8270	Hexachlorobutadiene	10	130	32	µg/kg
PCM-04	PCM-04DS-090806	SW8270	Hexachlorocyclopentadiene	50	640	370	µg/kg
PCM-04	PCM-04DS-090806	SW8270	Hexachloroethane	10	130	40	µg/kg
PCM-04	PCM-04DS-090806	SW8270	Isophorone	10	130	13	µg/kg
PCM-04	PCM-04DS-090806	SW8270	Nitrobenzene	10	130	28	µg/kg
PCM-04	PCM-04DS-090806	SW8270	N-Nitrosodi-N-propylamine	10	130	31	µg/kg
PCM-04	PCM-04DS-090806	SW8270	Pentachlorophenol	5	1300	260	µg/kg
PCM-04	PCM-04DS-090806	SW8270	Phenol	30	390	26	µg/kg
PCM-06	PCM-06DS-090806	SW8270	1,2,4-Trichlorobenzene	10	14	3.6	µg/kg
PCM-06	PCM-06DS-090806	SW8270	1,2-Dichlorobenzene	10	14	4	µg/kg
PCM-06	PCM-06DS-090806	SW8270	1,3-Dichlorobenzene	10	14	4.1	µg/kg
PCM-06	PCM-06DS-090806	SW8270	1,4-Dichlorobenzene	10	14	4	µg/kg
PCM-06	PCM-06DS-090806	SW8270	2,4,5-Trichlorophenol	5	14	2.1	µg/kg
PCM-06	PCM-06DS-090806	SW8270	2,4,6-Trichlorophenol	5	14	1.9	µg/kg

Table 5
Target Analytes with Laboratory Reporting Limits Above the Target Reporting Limits

Location ID	Sample ID	Analytic method	Chemical Name	Target Method Reporting Limit	Reporting Limit	Method Detection Limit	Units
PCM-06	PCM-06DS-090806	SW8270	2,4-Dichlorophenol	10	14	1.4	µg/kg
PCM-06	PCM-06DS-090806	SW8270	2,4-Dimethylphenol	20	68	7.5	µg/kg
PCM-06	PCM-06DS-090806	SW8270	2,4-Dinitrophenol	200	280	23	µg/kg
PCM-06	PCM-06DS-090806	SW8270	2,4-Dinitrotoluene	10	14	2.1	µg/kg
PCM-06	PCM-06DS-090806	SW8270	2,6-Dinitrotoluene	10	14	2.8	µg/kg
PCM-06	PCM-06DS-090806	SW8270	2-Chloronaphthalene	10	14	2.2	µg/kg
PCM-06	PCM-06DS-090806	SW8270	2-Chlorophenol	10	14	2.8	µg/kg
PCM-06	PCM-06DS-090806	SW8270	2-Methylphenol (o-Cresol)	10	14	2.1	µg/kg
PCM-06	PCM-06DS-090806	SW8270	2-Nitroaniline	20	28	4.4	µg/kg
PCM-06	PCM-06DS-090806	SW8270	2-Nitrophenol	10	14	2.1	µg/kg
PCM-06	PCM-06DS-090806	SW8270	3,3'-Dichlorobenzidine	100	140	5.1	µg/kg
PCM-06	PCM-06DS-090806	SW8270	3-Nitroaniline	20	28	3.4	µg/kg
PCM-06	PCM-06DS-090806	SW8270	4-Bromophenyl-phenyl ether	10	14	2.2	µg/kg
PCM-06	PCM-06DS-090806	SW8270	4-Chloro-3-methylphenol	10	14	1.9	µg/kg
PCM-06	PCM-06DS-090806	SW8270	4-Chloroaniline	10	14	2.6	µg/kg
PCM-06	PCM-06DS-090806	SW8270	4-Chlorophenyl phenyl ether	10	14	1.9	µg/kg
PCM-06	PCM-06DS-090806	SW8270	4-Nitroaniline	20	28	2.5	µg/kg
PCM-06	PCM-06DS-090806	SW8270	4-Nitrophenol	100	140	25	µg/kg
PCM-06	PCM-06DS-090806	SW8270	Aniline	20	28	2.1	µg/kg
PCM-06	PCM-06DS-090806	SW8270	Benzyl alcohol	10	28	2.9	µg/kg
PCM-06	PCM-06DS-090806	SW8270	bis(2-Chloroethoxy)methane	10	14	2.1	µg/kg
PCM-06	PCM-06DS-090806	SW8270	bis(2-Chloroethyl)ether	10	14	2.6	µg/kg
PCM-06	PCM-06DS-090806	SW8270	Butylbenzyl phthalate	10	14	4.4	µg/kg
PCM-06	PCM-06DS-090806	SW8270	Diethyl phthalate	10	14	1.8	µg/kg
PCM-06	PCM-06DS-090806	SW8270	Dimethyl phthalate	10	14	1.4	µg/kg
PCM-06	PCM-06DS-090806	SW8270	Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)	100	140	1.9	µg/kg
PCM-06	PCM-06DS-090806	SW8270	Di-n-octyl phthalate	10	14	2.3	µg/kg
PCM-06	PCM-06DS-090806	SW8270	Hexachlorobenzene	10	14	1.7	µg/kg
PCM-06	PCM-06DS-090806	SW8270	Hexachlorobutadiene	10	14	3.4	µg/kg
PCM-06	PCM-06DS-090806	SW8270	Hexachlorocyclopentadiene	50	68	40	µg/kg
PCM-06	PCM-06DS-090806	SW8270	Hexachloroethane	10	14	4.2	µg/kg
PCM-06	PCM-06DS-090806	SW8270	Isophorone	10	14	1.4	µg/kg
PCM-06	PCM-06DS-090806	SW8270	Nitrobenzene	10	14	3	µg/kg
PCM-06	PCM-06DS-090806	SW8270	N-Nitrosodi-N-propylamine	10	14	3.3	µg/kg
PCM-06	PCM-06DS-090806	SW8270	N-Nitrosodiphenylamine	10	14	2.2	µg/kg
PCM-06	PCM-06DS-090806	SW8270	Pentachlorophenol	5	140	28	µg/kg
PCM-09	PCM-09DS-090806	SW8270	1,2,4-Trichlorobenzene	10	14	3.6	µg/kg
PCM-09	PCM-09DS-090806	SW8270	1,2-Dichlorobenzene	10	14	4	µg/kg
PCM-09	PCM-09DS-090806	SW8270	1,3-Dichlorobenzene	10	14	4.1	µg/kg
PCM-09	PCM-09DS-090806	SW8270	1,4-Dichlorobenzene	10	14	4	µg/kg
PCM-09	PCM-09DS-090806	SW8270	2,4,5-Trichlorophenol	5	14	2.1	µg/kg
PCM-09	PCM-09DS-090806	SW8270	2,4,6-Trichlorophenol	5	14	1.9	µg/kg
PCM-09	PCM-09DS-090806	SW8270	2,4-Dichlorophenol	10	14	1.4	µg/kg
PCM-09	PCM-09DS-090806	SW8270	2,4-Dimethylphenol	20	68	7.5	µg/kg
PCM-09	PCM-09DS-090806	SW8270	2,4-Dinitrophenol	200	280	23	µg/kg
PCM-09	PCM-09DS-090806	SW8270	2,4-Dinitrotoluene	10	14	2.1	µg/kg
PCM-09	PCM-09DS-090806	SW8270	2,6-Dinitrotoluene	10	14	2.8	µg/kg
PCM-09	PCM-09DS-090806	SW8270	2-Chloronaphthalene	10	14	2.2	µg/kg
PCM-09	PCM-09DS-090806	SW8270	2-Chlorophenol	10	14	2.8	µg/kg
PCM-09	PCM-09DS-090806	SW8270	2-Methylphenol (o-Cresol)	10	14	2.1	µg/kg
PCM-09	PCM-09DS-090806	SW8270	2-Nitroaniline	20	28	4.4	µg/kg
PCM-09	PCM-09DS-090806	SW8270	2-Nitrophenol	10	14	2.1	µg/kg
PCM-09	PCM-09DS-090806	SW8270	3,3'-Dichlorobenzidine	100	140	5.1	µg/kg
PCM-09	PCM-09DS-090806	SW8270	3-Nitroaniline	20	28	3.4	µg/kg
PCM-09	PCM-09DS-090806	SW8270	4-Bromophenyl-phenyl ether	10	14	2.2	µg/kg
PCM-09	PCM-09DS-090806	SW8270	4-Chloro-3-methylphenol	10	14	1.9	µg/kg
PCM-09	PCM-09DS-090806	SW8270	4-Chloroaniline	10	14	2.6	µg/kg
PCM-09	PCM-09DS-090806	SW8270	4-Chlorophenyl phenyl ether	10	14	1.9	µg/kg
PCM-09	PCM-09DS-090806	SW8270	4-Nitroaniline	20	28	2.5	µg/kg
PCM-09	PCM-09DS-090806	SW8270	4-Nitrophenol	100	140	25	µg/kg
PCM-09	PCM-09DS-090806	SW8270	Aniline	20	28	2.1	µg/kg
PCM-09	PCM-09DS-090806	SW8270	Benzyl alcohol	10	28	2.9	µg/kg
PCM-09	PCM-09DS-090806	SW8270	bis(2-Chloroethoxy)methane	10	14	2.1	µg/kg
PCM-09	PCM-09DS-090806	SW8270	bis(2-Chloroethyl)ether	10	14	2.6	µg/kg
PCM-09	PCM-09DS-090806	SW8270	Butylbenzyl phthalate	10	14	4.4	µg/kg
PCM-09	PCM-09DS-090806	SW8270	Diethyl phthalate	10	14	1.8	µg/kg
PCM-09	PCM-09DS-090806	SW8270	Dimethyl phthalate	10	14	1.4	µg/kg
PCM-09	PCM-09DS-090806	SW8270	Di-n-butyl phthalate	10	28	11	µg/kg
PCM-09	PCM-09DS-090806	SW8270	Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)	100	140	1.9	µg/kg
PCM-09	PCM-09DS-090806	SW8270	Di-n-octyl phthalate	10	14	2.3	µg/kg
PCM-09	PCM-09DS-090806	SW8270	Hexachlorobenzene	10	14	1.7	µg/kg
PCM-09	PCM-09DS-090806	SW8270	Hexachlorobutadiene	10	14	3.4	µg/kg
PCM-09	PCM-09DS-090806	SW8270	Hexachlorocyclopentadiene	50	68	40	µg/kg
PCM-09	PCM-09DS-090806	SW8270	Hexachloroethane	10	14	4.2	µg/kg

Table 5
Target Analytes with Laboratory Reporting Limits Above the Target Reporting Limits

Location ID	Sample ID	Analytic method	Chemical Name	Target Method Reporting Limit	Reporting Limit	Method Detection Limit	Units
PCM-09	PCM-09DS-090806	SW8270	Isophorone	10	14	1.4	µg/kg
PCM-09	PCM-09DS-090806	SW8270	Nitrobenzene	10	14	3	µg/kg
PCM-09	PCM-09DS-090806	SW8270	N-Nitrosodi-N-propylamine	10	14	3.3	µg/kg
PCM-09	PCM-09DS-090806	SW8270	Pentachlorophenol	5	140	28	µg/kg
PCM-14	PCM-14DS-090806	SW8270	2,4,5-Trichlorophenol	5	9.9	1.5	µg/kg
PCM-14	PCM-14DS-090806	SW8270	2,4,6-Trichlorophenol	5	9.9	1.4	µg/kg
PCM-14	PCM-14DS-090806	SW8270	2,4-Dimethylphenol	20	50	5.5	µg/kg
PCM-14	PCM-14DS-090806	SW8270	Benzyl alcohol	10	20	2.1	µg/kg
PCM-14	PCM-14DS-090806	SW8270	Di-n-butyl phthalate	10	20	7.9	µg/kg
PCM-14	PCM-14DS-090806	SW8270	Pentachlorophenol	5	99	20	µg/kg
PCM-15	PCM-15DS-090806	SW8270	1,2,4-Trichlorobenzene	10	12	2.9	µg/kg
PCM-15	PCM-15DS-090806	SW8270	1,2-Dichlorobenzene	10	12	3.3	µg/kg
PCM-15	PCM-15DS-090806	SW8270	1,3-Dichlorobenzene	10	12	3.4	µg/kg
PCM-15	PCM-15DS-090806	SW8270	1,4-Dichlorobenzene	10	12	3.3	µg/kg
PCM-15	PCM-15DS-090806	SW8270	2,4,5-Trichlorophenol	5	12	1.7	µg/kg
PCM-15	PCM-15DS-090806	SW8270	2,4,6-Trichlorophenol	5	12	1.6	µg/kg
PCM-15	PCM-15DS-090806	SW8270	2,4-Dichlorophenol	10	12	1.2	µg/kg
PCM-15	PCM-15DS-090806	SW8270	2,4-Dimethylphenol	20	56	6.2	µg/kg
PCM-15	PCM-15DS-090806	SW8270	2,4-Dinitrophenol	200	230	19	µg/kg
PCM-15	PCM-15DS-090806	SW8270	2,4-Dinitrotoluene	10	12	1.7	µg/kg
PCM-15	PCM-15DS-090806	SW8270	2,6-Dinitrotoluene	10	12	2.3	µg/kg
PCM-15	PCM-15DS-090806	SW8270	2-Chloronaphthalene	10	12	1.8	µg/kg
PCM-15	PCM-15DS-090806	SW8270	2-Chlorophenol	10	12	2.3	µg/kg
PCM-15	PCM-15DS-090806	SW8270	2-Methylphenol (o-Cresol)	10	12	1.7	µg/kg
PCM-15	PCM-15DS-090806	SW8270	2-Nitroaniline	20	23	3.6	µg/kg
PCM-15	PCM-15DS-090806	SW8270	2-Nitrophenol	10	12	1.7	µg/kg
PCM-15	PCM-15DS-090806	SW8270	3,3'-Dichlorobenzidine	100	120	4.2	µg/kg
PCM-15	PCM-15DS-090806	SW8270	3-Nitroaniline	20	23	2.8	µg/kg
PCM-15	PCM-15DS-090806	SW8270	4-Bromophenyl-phenyl ether	10	12	1.8	µg/kg
PCM-15	PCM-15DS-090806	SW8270	4-Chloro-3-methylphenol	10	12	1.6	µg/kg
PCM-15	PCM-15DS-090806	SW8270	4-Chloroaniline	10	12	2.2	µg/kg
PCM-15	PCM-15DS-090806	SW8270	4-Chlorophenyl phenyl ether	10	12	1.6	µg/kg
PCM-15	PCM-15DS-090806	SW8270	4-Nitroaniline	20	23	2.1	µg/kg
PCM-15	PCM-15DS-090806	SW8270	4-Nitrophenol	100	120	21	µg/kg
PCM-15	PCM-15DS-090806	SW8270	Aniline	20	23	1.7	µg/kg
PCM-15	PCM-15DS-090806	SW8270	Benzyl alcohol	10	23	2.4	µg/kg
PCM-15	PCM-15DS-090806	SW8270	bis(2-Chloroethoxy)methane	10	12	1.7	µg/kg
PCM-15	PCM-15DS-090806	SW8270	bis(2-Chloroethyl)ether	10	12	2.2	µg/kg
PCM-15	PCM-15DS-090806	SW8270	Butylbenzyl phthalate	10	12	3.6	µg/kg
PCM-15	PCM-15DS-090806	SW8270	Diethyl phthalate	10	12	1.5	µg/kg
PCM-15	PCM-15DS-090806	SW8270	Dimethyl phthalate	10	12	1.2	µg/kg
PCM-15	PCM-15DS-090806	SW8270	Di-n-butyl phthalate	10	23	8.8	µg/kg
PCM-15	PCM-15DS-090806	SW8270	Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)	100	120	1.6	µg/kg
PCM-15	PCM-15DS-090806	SW8270	Di-n-octyl phthalate	10	12	1.9	µg/kg
PCM-15	PCM-15DS-090806	SW8270	Hexachlorobenzene	10	12	1.4	µg/kg
PCM-15	PCM-15DS-090806	SW8270	Hexachlorobutadiene	10	12	2.8	µg/kg
PCM-15	PCM-15DS-090806	SW8270	Hexachlorocyclopentadiene	50	56	33	µg/kg
PCM-15	PCM-15DS-090806	SW8270	Hexachloroethane	10	12	3.5	µg/kg
PCM-15	PCM-15DS-090806	SW8270	Isophorone	10	12	1.2	µg/kg
PCM-15	PCM-15DS-090806	SW8270	Nitrobenzene	10	12	2.5	µg/kg
PCM-15	PCM-15DS-090806	SW8270	N-Nitrosodi-N-propylamine	10	12	2.7	µg/kg
PCM-15	PCM-15DS-090806	SW8270	N-Nitrosodiphenylamine	10	12	1.8	µg/kg
PCM-15	PCM-15DS-090806	SW8270	Pentachlorophenol	5	120	23	µg/kg
PCM-22	PCM-22DS-090806	SW8270	1,2,4-Trichlorobenzene	10	14	3.6	µg/kg
PCM-22	PCM-22DS-090806	SW8270	1,2-Dichlorobenzene	10	14	4	µg/kg
PCM-22	PCM-22DS-090806	SW8270	1,3-Dichlorobenzene	10	14	4.2	µg/kg
PCM-22	PCM-22DS-090806	SW8270	1,4-Dichlorobenzene	10	14	4	µg/kg
PCM-22	PCM-22DS-090806	SW8270	2,4,5-Trichlorophenol	5	14	2.1	µg/kg
PCM-22	PCM-22DS-090806	SW8270	2,4,6-Trichlorophenol	5	14	2	µg/kg
PCM-22	PCM-22DS-090806	SW8270	2,4-Dichlorophenol	10	14	1.4	µg/kg
PCM-22	PCM-22DS-090806	SW8270	2,4-Dimethylphenol	20	69	7.6	µg/kg
PCM-22	PCM-22DS-090806	SW8270	2,4-Dinitrophenol	200	280	24	µg/kg
PCM-22	PCM-22DS-090806	SW8270	2,4-Dinitrotoluene	10	14	2.1	µg/kg
PCM-22	PCM-22DS-090806	SW8270	2,6-Dinitrotoluene	10	14	2.8	µg/kg
PCM-22	PCM-22DS-090806	SW8270	2-Chloronaphthalene	10	14	2.3	µg/kg
PCM-22	PCM-22DS-090806	SW8270	2-Chlorophenol	10	14	2.8	µg/kg
PCM-22	PCM-22DS-090806	SW8270	2-Methylphenol (o-Cresol)	10	14	2.1	µg/kg
PCM-22	PCM-22DS-090806	SW8270	2-Nitroaniline	20	28	4.5	µg/kg
PCM-22	PCM-22DS-090806	SW8270	2-Nitrophenol	10	14	2.1	µg/kg
PCM-22	PCM-22DS-090806	SW8270	3,3'-Dichlorobenzidine	100	140	5.1	µg/kg
PCM-22	PCM-22DS-090806	SW8270	3-Nitroaniline	20	28	3.5	µg/kg
PCM-22	PCM-22DS-090806	SW8270	4-Bromophenyl-phenyl ether	10	14	2.3	µg/kg
PCM-22	PCM-22DS-090806	SW8270	4-Chloro-3-methylphenol	10	14	2	µg/kg
PCM-22	PCM-22DS-090806	SW8270	4-Chloroaniline	10	14	2.7	µg/kg

Table 5
Target Analytes with Laboratory Reporting Limits Above the Target Reporting Limits

Location ID	Sample ID	Analytic method	Chemical Name	Target Method Reporting Limit	Reporting Limit	Method Detection Limit	Units
PCM-22	PCM-22DS-090806	SW8270	4-Chlorophenyl phenyl ether	10	14	2	µg/kg
PCM-22	PCM-22DS-090806	SW8270	4-Methylphenol (p-Cresol)	10	14	2.1	µg/kg
PCM-22	PCM-22DS-090806	SW8270	4-Nitroaniline	20	28	2.5	µg/kg
PCM-22	PCM-22DS-090806	SW8270	4-Nitrophenol	100	140	25	µg/kg
PCM-22	PCM-22DS-090806	SW8270	Aniline	20	28	2.1	µg/kg
PCM-22	PCM-22DS-090806	SW8270	Benzyl alcohol	10	28	2.9	µg/kg
PCM-22	PCM-22DS-090806	SW8270	bis(2-Chloroethoxy)methane	10	14	2.1	µg/kg
PCM-22	PCM-22DS-090806	SW8270	bis(2-Chloroethyl)ether	10	14	2.7	µg/kg
PCM-22	PCM-22DS-090806	SW8270	Diethyl phthalate	10	14	1.8	µg/kg
PCM-22	PCM-22DS-090806	SW8270	Dimethyl phthalate	10	14	1.4	µg/kg
PCM-22	PCM-22DS-090806	SW8270	Di-n-butyl phthalate	10	28	11	µg/kg
PCM-22	PCM-22DS-090806	SW8270	Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)	100	140	2	µg/kg
PCM-22	PCM-22DS-090806	SW8270	Di-n-octyl phthalate	10	14	2.4	µg/kg
PCM-22	PCM-22DS-090806	SW8270	Hexachlorobenzene	10	14	1.7	µg/kg
PCM-22	PCM-22DS-090806	SW8270	Hexachlorobutadiene	10	14	3.5	µg/kg
PCM-22	PCM-22DS-090806	SW8270	Hexachlorocyclopentadiene	50	69	40	µg/kg
PCM-22	PCM-22DS-090806	SW8270	Hexachloroethane	10	14	4.3	µg/kg
PCM-22	PCM-22DS-090806	SW8270	Isophorone	10	14	1.4	µg/kg
PCM-22	PCM-22DS-090806	SW8270	Nitrobenzene	10	14	3.1	µg/kg
PCM-22	PCM-22DS-090806	SW8270	N-Nitrosodi-N-propylamine	10	14	3.4	µg/kg
PCM-22	PCM-22DS-090806	SW8270	Pentachlorophenol	5	140	28	µg/kg
PCM-01	PCM-01DSW-090806	A4500CN-E	Amenable Cyanide	0.0052	0.01	0.003	mg/L
PCM-01	PCM-01DSW-090806	A4500CN-E	Cyanide	0.0052	0.01	0.003	mg/L
PCM-02	PCM-02DSW-090806	A4500CN-E	Amenable Cyanide	0.0052	0.01	0.003	mg/L
PCM-02	PCM-02DSW-090806	A4500CN-E	Cyanide	0.0052	0.01	0.003	mg/L
PCM-03	PCM-03DSW-090806	A4500CN-E	Amenable Cyanide	0.0052	0.01	0.003	mg/L
PCM-04	PCM-04DSW-090806	A4500CN-E	Amenable Cyanide	0.0052	0.01	0.003	mg/L
PCM-04	PCM-04DSW-090806	A4500CN-E	Cyanide	0.0052	0.01	0.003	mg/L
PCM-05	PCM-05DSW-090806	A4500CN-E	Amenable Cyanide	0.0052	0.01	0.003	mg/L
PCM-05	PCM-05DSW-090806	A4500CN-E	Cyanide	0.0052	0.01	0.003	mg/L
PCM-06	PCM-06DSW-090806	A4500CN-E	Amenable Cyanide	0.0052	0.01	0.003	mg/L
PCM-06	PCM-06DSW-090806	A4500CN-E	Cyanide	0.0052	0.01	0.003	mg/L
PCM-08	PCM-08DSW-090806	A4500CN-E	Amenable Cyanide	0.0052	0.01	0.003	mg/L
PCM-08	PCM-08DSW-090806	A4500CN-E	Cyanide	0.0052	0.01	0.003	mg/L
PCM-09	PCM-09DSW-090806	A4500CN-E	Amenable Cyanide	0.0052	0.01	0.003	mg/L
PCM-09	PCM-09DSW-090806	A4500CN-E	Cyanide	0.0052	0.01	0.003	mg/L
PCM-10	PCM-10DSW-090806	A4500CN-E	Amenable Cyanide	0.0052	0.01	0.003	mg/L
PCM-10	PCM-10DSW-090806	A4500CN-E	Cyanide	0.0052	0.01	0.003	mg/L
PCM-13	PCM-13DSW-090806	A4500CN-E	Amenable Cyanide	0.0052	0.01	0.003	mg/L
PCM-13	PCM-13DSW-090806	A4500CN-E	Cyanide	0.0052	0.01	0.003	mg/L
PCM-19	PCM-19DSW-090806	A4500CN-E	Amenable Cyanide	0.0052	0.01	0.003	mg/L
PCM-19	PCM-19DSW-090806	A4500CN-E	Cyanide	0.0052	0.01	0.003	mg/L
PCM-20	PCM-20DSW-090806	A4500CN-E	Amenable Cyanide	0.0052	0.01	0.003	mg/L
PCM-20	PCM-20DSW-090806	A4500CN-E	Cyanide	0.0052	0.01	0.003	mg/L
PCM-21	PCM-21DSW-090806	A4500CN-E	Amenable Cyanide	0.0052	0.01	0.003	mg/L
PCM-21	PCM-21DSW-090806	A4500CN-E	Cyanide	0.0052	0.01	0.003	mg/L
PCM-01	PCM-01DSW-090806	D4282-02	Free Cyanide	5.2	10	5	µg/L

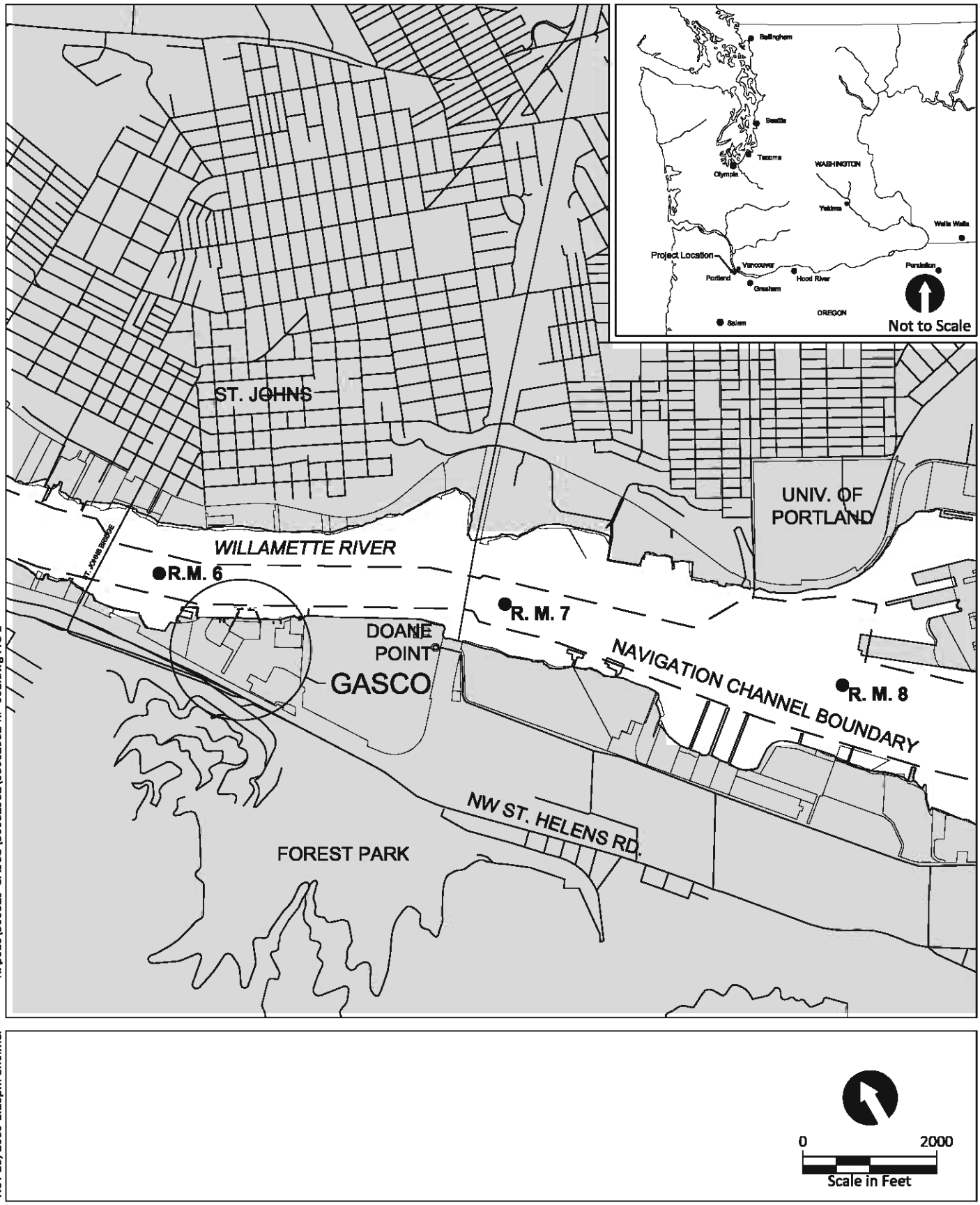
Table 5
Target Analytes with Laboratory Reporting Limits Above the Target Reporting Limits

Location ID	Sample ID	Analytic method	Chemical Name	Target Method Reporting Limit	Reporting Limit	Method Detection Limit	Units
PCM-02	PCM-02DSW-090806	D4282-02	Free Cyanide	5.2	10	5	µg/L
PCM-03	PCM-03DSW-090806	D4282-02	Free Cyanide	5.2	10	5	µg/L
PCM-04	PCM-04DSW-090806	D4282-02	Free Cyanide	5.2	10	5	µg/L
PCM-05	PCM-05DSW-090806	D4282-02	Free Cyanide	5.2	10	5	µg/L
PCM-06	PCM-06DSW-090806	D4282-02	Free Cyanide	5.2	10	5	µg/L
PCM-08	PCM-08DSW-090806	D4282-02	Free Cyanide	5.2	10	5	µg/L
PCM-09	PCM-09DSW-090806	D4282-02	Free Cyanide	5.2	10	5	µg/L
PCM-10	PCM-10DSW-090806	D4282-02	Free Cyanide	5.2	10	5	µg/L
PCM-13	PCM-13DSW-090806	D4282-02	Free Cyanide	5.2	10	5	µg/L
PCM-19	PCM-19DSW-090806	D4282-02	Free Cyanide	5.2	10	5	µg/L
PCM-20	PCM-20DSW-090806	D4282-02	Free Cyanide	5.2	10	5	µg/L
PCM-21	PCM-21DSW-090806	D4282-02	Free Cyanide	5.2	10	5	µg/L
PCM-02	PCM-02DSW-090806	SW8270CSIM	2-Methylnaphthalene	0.02	0.022	0.0025	µg/L
PCM-02	PCM-02DSW-090806	SW8270CSIM	Acenaphthene	0.02	0.022	0.0047	µg/L
PCM-02	PCM-02DSW-090806	SW8270CSIM	Acenaphthylene	0.02	0.022	0.0036	µg/L
PCM-02	PCM-02DSW-090806	SW8270CSIM	Anthracene	0.02	0.022	0.0038	µg/L
PCM-02	PCM-02DSW-090806	SW8270CSIM	Benzo(a)pyrene	0.02	0.022	0.0046	µg/L
PCM-02	PCM-02DSW-090806	SW8270CSIM	Benzo(g,h,i)perylene	0.02	0.022	0.0031	µg/L
PCM-02	PCM-02DSW-090806	SW8270CSIM	Benzo(k)fluoranthene	0.02	0.022	0.0027	µg/L
PCM-02	PCM-02DSW-090806	SW8270CSIM	Dibenzo(a,h)anthracene	0.02	0.022	0.0027	µg/L
PCM-02	PCM-02DSW-090806	SW8270CSIM	Fluorene	0.02	0.022	0.004	µg/L
PCM-02	PCM-02DSW-090806	SW8270CSIM	Indeno(1,2,3-c,d)pyrene	0.02	0.022	0.0028	µg/L
PCM-02	PCM-02DSW-090806	SW8270CSIM	Phenanthrene	0.02	0.022	0.0053	µg/L
PCM-05	PCM-05DSW-090806	SW8270CSIM	2-Methylnaphthalene	0.02	0.022	0.0025	µg/L
PCM-05	PCM-05DSW-090806	SW8270CSIM	Acenaphthene	0.02	0.022	0.0047	µg/L
PCM-05	PCM-05DSW-090806	SW8270CSIM	Acenaphthylene	0.02	0.022	0.0036	µg/L
PCM-05	PCM-05DSW-090806	SW8270CSIM	Anthracene	0.02	0.022	0.0038	µg/L
PCM-05	PCM-05DSW-090806	SW8270CSIM	Benzo(a)pyrene	0.02	0.022	0.0046	µg/L
PCM-05	PCM-05DSW-090806	SW8270CSIM	Benzo(k)fluoranthene	0.02	0.022	0.0027	µg/L
PCM-05	PCM-05DSW-090806	SW8270CSIM	Dibenzo(a,h)anthracene	0.02	0.022	0.0027	µg/L
PCM-05	PCM-05DSW-090806	SW8270CSIM	Fluorene	0.02	0.022	0.004	µg/L

Notes:

µg	microgram
kg	kilogram
mg	millogram
L	liter

FIGURES



K:\Jobs\000029-GASCO\00002902\00002902-RP-001.dwg FIG 1

Nov 23, 2009 1:18pm dholmer

Figure 1
Vicinity Map
NW Natural Gasco Site
Portland, OR

ANCHOR QEA

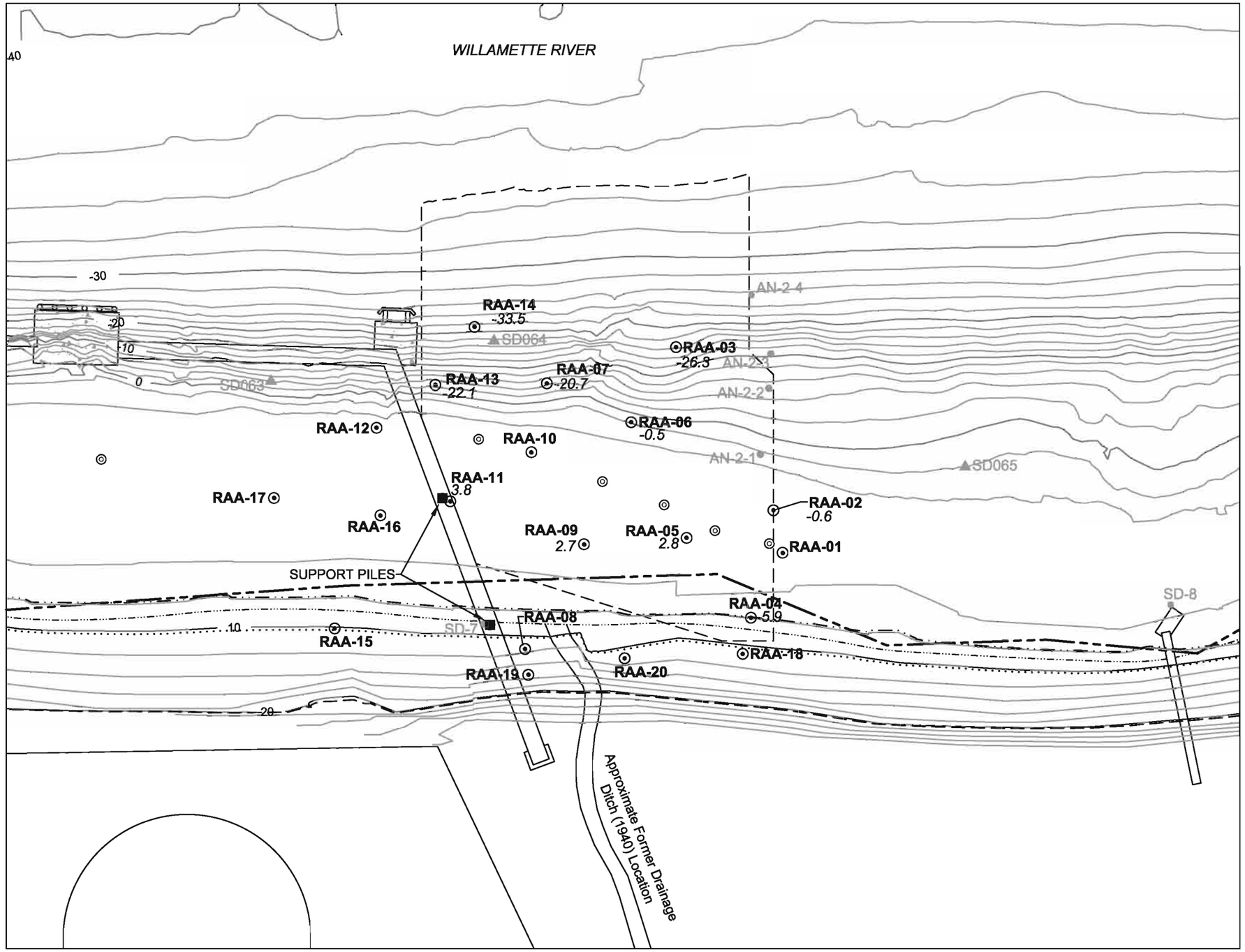
Legend:

- Lateral Extents of Suface Tar Body in Removal Action Area
- RAA-01 — Design Characterization Sediment Core Location (Anchor 2004)
- -33.5 — Bottom Elevation of Surface Tar Body in Removal Action Area (ft NAVD 88)
- Pile Location (surveyed August 2004)
- AN-2-1 — Previous Sediment Core Location (Anchor 2002)
- SD063 — Previous Sediment Core Location (Weston 1998)
- SD-7 — Previous Sediment Core Location (HAI 1996)
- Support Pile Locations (to be protected during dredging)
- Property Line
- OHW = 20.41 ft NAVD 88
- OLW = 7.91 ft NAVD 88
- 50% River Stage Elevation = 10.23 ft NAVD 88
- Topographic and Bathymetric Contours (2 ft. Interval)

0 50
Scale in Feet

HORIZONTAL DATUM: Oregon State Plane North NAD 83 (Int. Feet).
VERTICAL DATUM: NAVD 88 (ft).

NOTES:
1. Bathymetric contours provided by the Lower Willamette Group as part of the Portland Harbor Superfund Site study (2003).
2. Former Drainage Ditch location from Phase 1 Remedial Investigation Summary Report (HAI 1998).

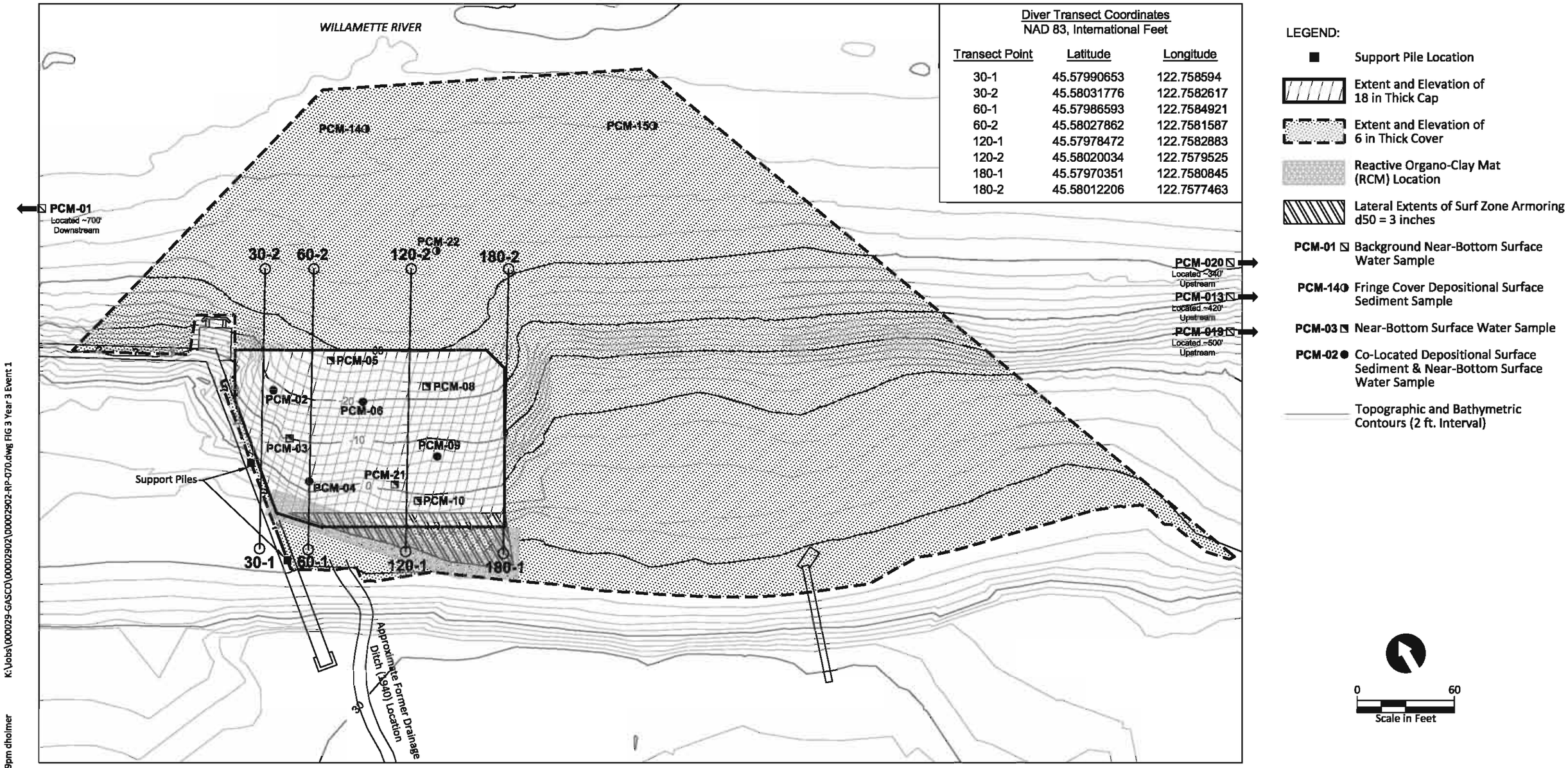


K:\Jobs\000029-GASCO\00002902\00002902-RP-002.dwg FIG 2

Nov 23, 2009 1:35pm dholmer

ANCHOR QEA

Figure 2
Former Pre-Removal Lateral and Vertical Extents of Surface Tar Body
NW Natural "Gasco" Site



SOURCE: Post-cap bathymetric contours produced from survey provide by Blue Water Engineering dated August 2009. Former Drainage Ditch location from Phase Remedial Investigation Summary Report (HAI 1998).
HORIZONTAL DATUM: Oregon State Plane North NAD 83 (International Feet).
VERTICAL DATUM: NAVD 88 (ft).

K:\Jobs\000029-GASCO\00002902\00002902-RP-070.dwg FIG 3 Year 3 Event 1
Oct 09, 2009 3:19pm dholmer

ANCHOR QEA

Figure 3
Actual Year 3 Event 1 Diver Transect Surveys
NW Natural "Gasco" Site

SOURCE: Post-cap bathymetric contours produced from survey provide by Blue Water Engineering dated August 2009. Former Drainage Ditch location from Phase Remedial Investigation Summary Report (HAI 1998).
HORIZONTAL DATUM: Oregon State Plane North NAD 83 (International Feet).
VERTICAL DATUM: NAVD 88 (ft).

K:\Jobs\000029-GASCO\00002902\00002902-RP-070.dwg FIG 4 Year 3 Event 1

Oct 21, 2009 10:33am dholmer

ANCHOR QEA

Figure 4
Actual Year 3 Event 1 Long-Term Monitoring Stations
NW Natural "Gasco" Site

K:\Jobs\000029-GASCO\00002902\00002902-RP-071.dwg Year 3 Event 1

Oct 09, 2009 3:31pm dholmer

SOURCE: Post-cap bathymetric contours produced from survey provide by Blue Water Engineering dated August 2009.
HORIZONTAL DATUM: Oregon State Plane North NAD 83 (International Feet).
VERTICAL DATUM: NAVD 88 (ft).

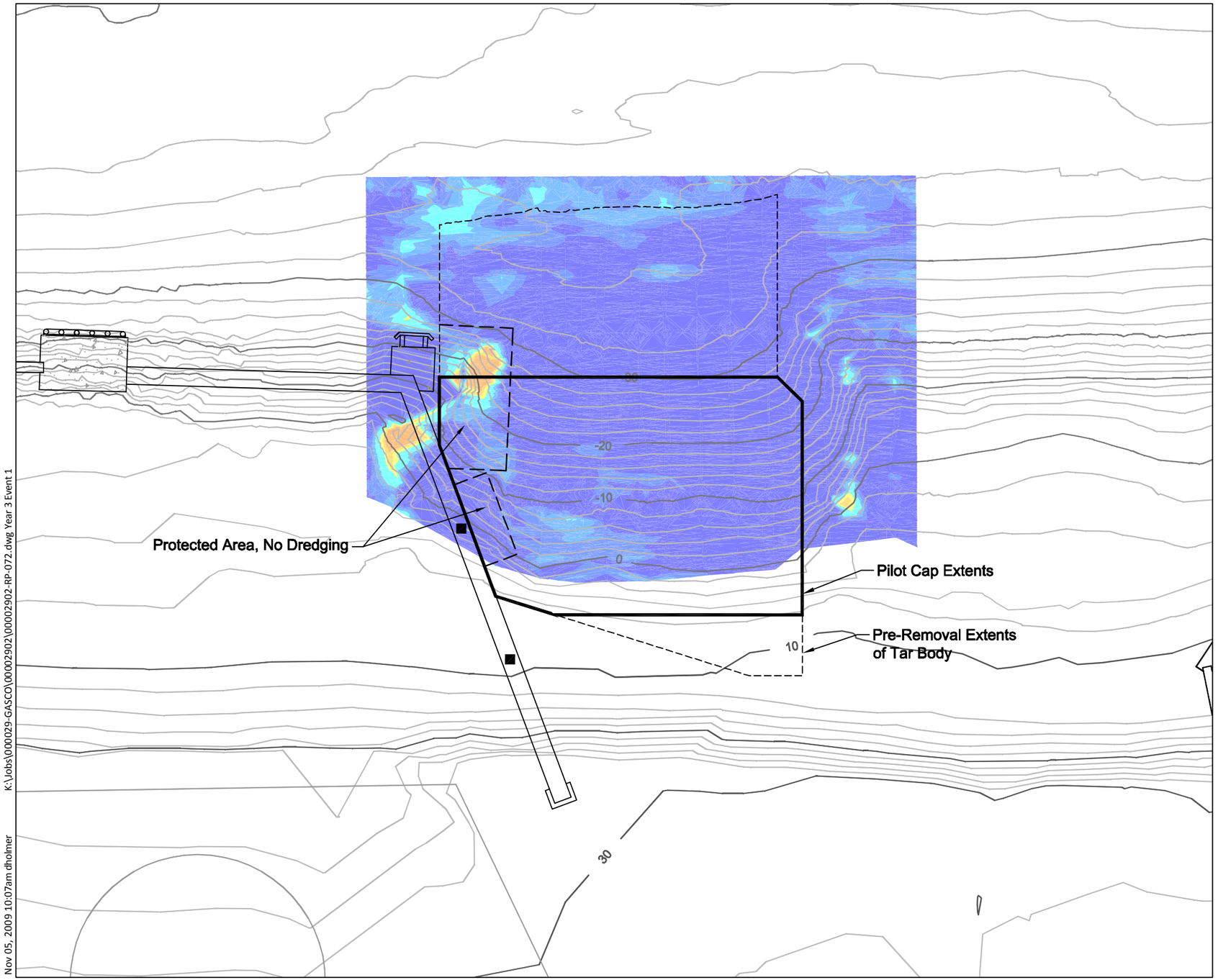
Legend:

- Extent and Elevation of 18 in Thick Cap
- Extent and Elevation of 6 in Thick Cover
- Topographic and Bathymetric Contours (2 ft. Interval)
- Property Line

0 150
Scale in Feet

ANCHOR QEA

Figure 5
Year 3 Event 1 Bathymetry
NW Natural "Gasco" Site



Legend:

Topographic and Bathymetric Contours
(2 ft. Interval)

Color	Range Beg.	Range End
	<-2.00	-1.50
	-1.50	-1.00
	-1.00	-0.50
	-0.50	0.50
	0.50	1.00
	1.00	1.50
	1.50	>2.00

0 50
Scale in Feet

SOURCE: Post-cap bathymetric contours produced from survey provide by Blue Water Engineering dated October 2005 and August 2009.
HORIZONTAL DATUM: Oregon State Plane North NAD 83 (International Feet).
VERTICAL DATUM: NAVD 88 (ft).

K:\Jobs\000029-GASCO\00002902\00002902-RP-072.dwg Year 3 Event 1

Nov 05, 2009 10:07am dholmer

ANCHOR QEA

Figure 6
Isopach Comparing Post-Cap October 2005 and August 2009 Bathymetry Surveys
NW Natural "Gasco" Site

APPENDIX A
CHAIN-OF-CUSTODY FORMS

Chain of Custody Record & Laboratory Analysis Request

COC#

ANCHOR QEA

Date: August 7, 2009
Laboratory : Columbia Analytical Services
Project Name: Gasco Long-Term Monitoring Year 3 Event 1
Project Number: 000029-02
Project Manager: Ryan Barth
Phone Number: 206-719-3605
Shipment Method: Hand Delivery

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	Surface Waters: BTEX	PAHs	Iron total/ dissolved	Cyanide (total, free & amenable)	TOC/DOC	Sulfide	TSS	Full Portland Harbor List: Pesticides[1]	PCB Aroclors	Herbicides[1]	SVOCs with PCPs[1]	VOCs	Butyltins	TPH-Gx and TPH-DX	Metals[1] w/ hexavalent chromium	Ammonia, Sulfide, TOC, Cyanide	Grainsize, TS	Archive	Comments
1	PCM-01DSW-090806	8/6/09 1000	H_2O	12	X	X	X	X	X	X	X												
2	PCM-02DSW-090806	1055																					
3	PCM-03DSW-090806	1110																					
4	PCM-04DSW-090806	1125																					
5	PCM-05DSW-090806	1140																					
6	PCM-06DSW-090806	1300																					
7	PCM-21DSW-090806	1400																					
8	PCM-08DSW-090806	1340																					
9	PCM-09DSW-090806	1415																					
10	PCM-10DSW-090806	1430																					
11	PCM-13DSW-090806	1015																					
12	PCM-19DSW-090806	1030																					

1 See WO# JD-073109 for analyte lists and test methods

2 email sample confirmation report to labdata@anchorqea.com

Additional notes/comments:

Relinquished By:	Company:	Received By:	Company:
Ryan Barth	Anchor QEA LLC.	Dwight	CAS
Signature/Printed Name	Date/Time 8/7/09 1300	Signature/Printed Name	Date/Time 8/7/09 1335
Relinquished By:	Company:	Received By:	Company:
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Container Supply Number

14242

Container Supply Number

14241

Chain of Custody Record & Laboratory Analysis Request

COC#

ANCHOR QEA

Date: August 7, 2009
Laboratory : Columbia Analytical Services
Project Name: Gasco Long-Term Monitoring Year 3 Event 1
Project Number: 000029-02
Project Manager: Ryan Barth
Phone Number: 206-719-3605
Shipment Method: Hand Delivery

Line	Field Sample ID	Collection Date/Time	Matrix	No. of Containers	BTEX	PAHs	Iron total/ dissolved	Cyanide (total, free & amenable)	TOC/DOC	Sulfide	TSS	Pesticides[1]	PCB Aroclors	Herbicides[1]	SVOCs with PCPs[1]	VOCs	Butyltins	TPH-Gx and TPH-DX	Metals[1] w/ hexavalent chromium	Ammonia, Sulfide, TOC, Cyanide	Grainsize, TS	Archive	Comments
				Surface Waters								Full Portland Harbor List											
1	PCM-20DSW-090806	8/6/09 1045	H_2O	12	X	X	X	X	X	X	X												
2	PCM-TB-090806	8/6/09 1800	H_2O	3	~~X~~ RB 8/7/09					8/7/09	RB 8/7/09	~~X~~	~~X~~	~~X~~		X							VOCs (not BTEX)
3	PCM-02DS-090806		1600	SED	7							X	X	X	X	X	X	X	X	X	X	X	
4	PCM-06DS-090806		1610																				
5	PCM-09DS-090806		1620																				
6	PCM-04DS-090806		1630																				
7	PCM-14DS-090806		1715																				
8	PCM-15DS-090806		1740																				
9	PCM-22DS-090806		1820																				
10	PCM-DSRB-090806	8/7/09 RB 9/1/09	1215 ~~1200~~	H_2O	16							X	X	X	X	X	X	X	X				
11	PCM-DSR-090806		1230		8	X	X	X	X	~~X~~	~~X~~	RB 8/7/09											Only total RB 8/7/09
12	PCM-FB-090806		1200		16							X	X	X	X	X	X	X	X				

1 See WO# JD-073109 for analyte lists and test methods

2 email sample confirmation report to labdata@anchorqea.com

Additional notes/comments: (No dissolved Fe, no TOC/DOC, SO4)

Relinquished By:	Company:	Received By:	Company:
Ryan Barth — Ryan Barth	Anchor QEA LLC.		
Signature/Printed Name	Date/Time 8/7/09 1300	Signature/Printed Name	Date/Time
Relinquished By:	Company:	Received By:	Company: 8/7/09 13:35
Signature/Printed Name	Date/Time	Signature/Printed Name	Date/Time

Distribution: A copy will be made for the laboratory and client. The Project file will retain the original.

APPENDIX B
DIVER RECONNAISSANCE SURVEY VIDEO (ON DVD)

APPENDIX C
VISUAL MONITORING COLLECTION FORMS

Visual Observations Log Form

Date	January 28, 2009		
Location:	NW Natural "Gasco" Site		
Project Name:	NW Natural – Gasco	**Project Number:**	000029-02 BG17 T4
Monitoring Period:	Monthly(Year 2)—January 2009		
Time Observations Started:	January 26, 2009 @ 1000	**Time Observation Concluded:**	January 26, 2009 @ 1100
Weather Conditions:	Clear, approx. 32 degrees F, light wind from the east		
Wave Action Observations:	Calm with small wind-generated waves (0.0-0.1 feet in height), limited boat traffic		
Photographs Taken:	(Yes) No		

Tidal Conditions:

River level elevation on 1/26/09 ranged from 4.82 to 7.07 ft (City of Portland Datum)

The water level elevation allowed visual observation of the shoreward extent the pilot cap.

Observations of Erosion/Deposition:

No erosion/deposition is evident along the shoreline; however, the organo-clay mat material and associated staking is visible at multiple locations along the shoreward extent of the cap area (Photo 1 and Photo 2). Exposed mat appears to be in similar condition to December's observation.

Observations of Long-term Controls (i.e., oil booms, organo-clay mat, etc.)

During the Monitoring event, the Fuel and Marine Marketing (FAMM) oil boom was positioned across the cap area, between the upriver corner of the ship dock and the wooden dolphin (near the upriver extent of the site and near the Siltronic Corporation outfall). Buoys that identify the area to mariners have been installed to protect the sediment cap from prop wash and other disturbances (anchors) that may be caused by marine traffic in the cap vicinity. The position of the boom, warning buoys, and a general overview of the site shoreline are shown in Photo 3.

Other Comments:
No sheen is evident in the vicinity of the cap area. Photo 4 shows the water surface and shoreline immediately upriver of the FAMM dock structure.

Recorded by: **Timothy Stone**

Photo 1—*exposed segments of the organo-clay mat material (1/26/09)*

Photo 2— *exposed segments of the organo-clay mat material (1/26/09)*

Photo3—*overview of cap area from shoreline (1/26/09*

Photo4—*conditions immediately downriver of cap area (1/26/09)*

Visual Observations Log Form

Date	February 11, 2009		
Location:	NW Natural "Gasco" Site		
Project Name:	NW Natural – Gasco	**Project Number:**	000029-02 BG17 T4
Monitoring Period:	Monthly(Year 2)—February 2009		
Time Observations Started:	February 11, 2009 @ 0830	**Time Observation Concluded:**	February 11, 2009 @1330
Weather Conditions:	Partly cloudy, high 30s degrees F, light wind from the west		
Wave Action Observations:	Calm with small wind-generated waves (0.0-0.3 feet in height), moderate boat traffic causing occasional larger wakes.		
Photographs Taken:	(Yes) No		

Tidal Conditions:

River level elevation on 2/11/09 ranged from 2.53 to 6.32 ft (City of Portland Datum)

The water level elevation allowed visual observation of the shoreward extent the pilot cap.

Observations of Erosion/Deposition:

No erosion/deposition is evident along the shoreline; however, the organo-clay mat material and associated staking is visible at multiple locations along the shoreward extent of the cap area (Photo 1 and Photo 2). Exposed mat appears to be slightly more exposed as compared to January's observation.

Observations of Long-term Controls (i.e., oil booms, organo-clay mat, etc.)

During the Monitoring event, the Fuel and Marine Marketing (FAMM) oil boom was positioned across the cap area, between the upriver corner of the ship dock and the wooden dolphin (near the upriver extent of the site and near the Siltronic Corporation outfall). Buoys that identify the area to mariners have been installed to protect the sediment cap from prop wash and other disturbances (anchors) that may be caused by marine traffic in the cap vicinity. The position of the boom, warning buoys, and a general overview of the site shoreline are shown in Photo 3.

Other Comments:
No sheen is evident in the vicinity of the cap area. Photo 4 shows the water surface immediately upriver of the FAMM dock structure.

Recorded by: **Doug Laffoon**

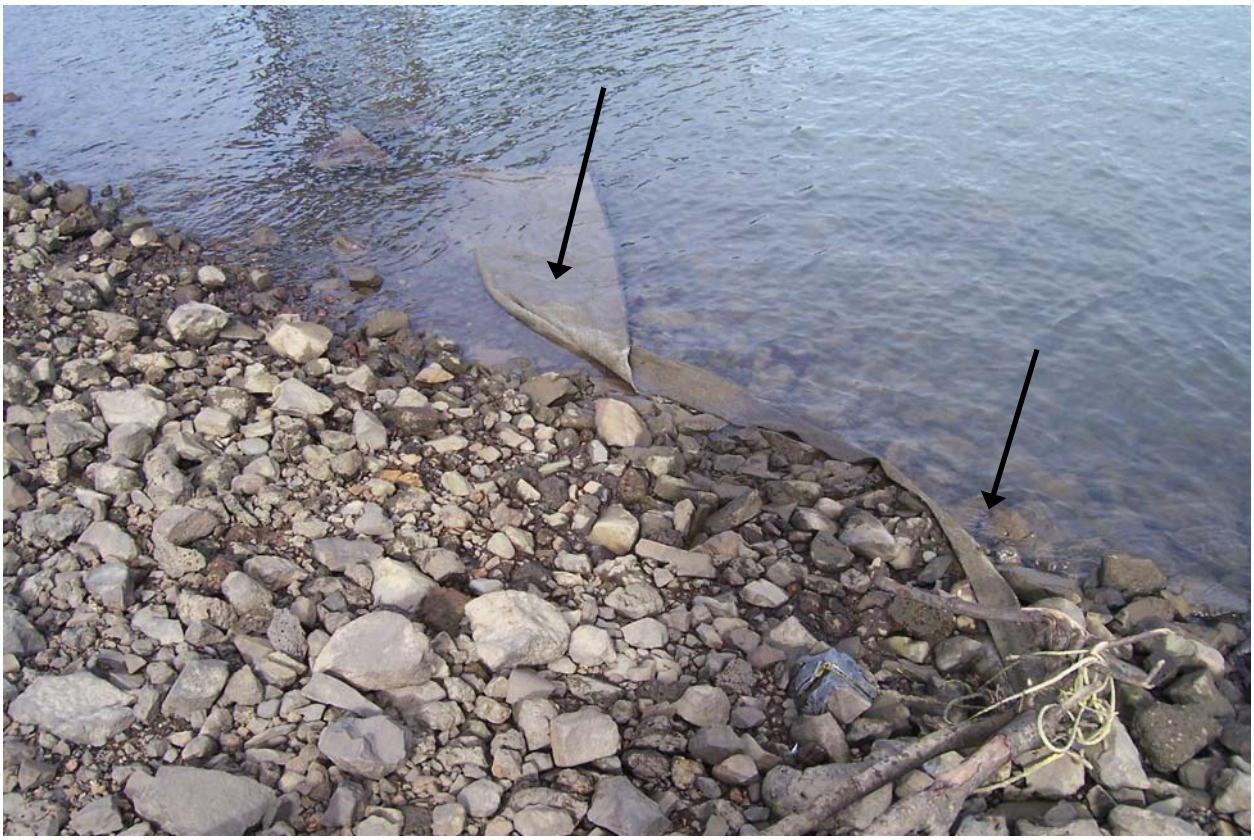


Photo 1—*exposed segments of the organo-clay mat material (2/11/09)*

Photo 2— *exposed segments of the organo-clay mat material (2/11/09)*

Photo3—*overview of cap area from shoreline (2/11/09*

Photo4—*conditions at cap area (2/11/09)*

Visual Observations Log Form

Date	March 23, 2009		
Location:	NW Natural "Gasco" Site		
Project Name:	NW Natural – Gasco	**Project Number:**	000029-02 BG17 T4
Monitoring Period:	Monthly(Year 2)—March 2009		
Time Observations Started:	March 23, 2009 @ 1500	**Time Observation Concluded:**	March 23, 2009 @1700
Weather Conditions:	Cloudy/rain, low 40s (degrees F), moderate wind from the east		
Wave Action Observations:	Moderate wind and marine traffic generating waves (0.3-0.6 feet in height)		
Photographs Taken:	(Yes) No		

Tidal Conditions:

River level elevation on 3/23/09 ranged from 2.40 to 4.84 ft; and approximately 4.70 feet during observation (City of Portland Datum)

The water level elevation allowed visual observation of the shoreward extent the pilot cap.

Observations of Erosion/Deposition:

No erosion/deposition is evident along the shoreline; however, the organo-clay mat material and associated staking is visible at multiple locations along the shoreward extent of the cap area (Photo 1 and Photo 2). A portion of the exposed mat appears to be floating in approximately 1 foot of water.

Observations of Long-term Controls (i.e., oil booms, organo-clay mat, etc.)

During the Monitoring event, the Fuel and Marine Marketing (FAMM) oil boom was positioned across the cap area, between the upriver corner of the ship dock and the wooden dolphin (near the upriver extent of the site and near the Siltronic Corporation outfall). Buoys that identify the cap area to mariners were in place as installed. The position of the boom, warning buoys, and a general overview of the site shoreline are shown in Photo 3.

Other Comments:
No sheen is evident in the vicinity of the cap area. Photo 4 shows the water surface immediately upriver of the FAMM dock structure.

Recorded by: **Doug Laffoon**

Photo 1—*exposed segments of the organo-clay mat material (3/23/09)*

Photo 2— *exposed segments of the organo-clay mat material (3/23/09)*

Photo3—*overview of cap area from shoreline (3/23/09)*

Photo4—*conditions at cap area (3/23/09)*

Visual Observations Log Form

Date	April 9, 2009		
Location:	NW Natural "Gasco" Site		
Project Name:	NW Natural – Gasco	**Project Number:**	000029-02 BG21 T4
Monitoring Period:	Monthly (Year 3)—April 2009		
Time Observations Started:	April 9, 2009 @ 1430	**Time Observation Concluded:**	April 9, 2009 @1700
Weather Conditions:	Cloudy, low 50s (degrees F), light wind from the east		
Wave Action Observations:	Light wind generating waves (0.0-0.1 feet in height) with numerous larger waves generated by recreational watercraft (0.5-1.5 feet in height)		
Photographs Taken:	(Yes) No		

Tidal Conditions:

River level elevation on 4/9/09 ranged from 6.64 to 9.41 ft; and approximately 7.10 feet during observations (City of Portland Datum)

The water level elevation allowed visual observation of the shoreward extent the pilot cap.

Observations of Erosion/Deposition:

No erosion/deposition is evident along the shoreline; however, the organo-clay mat material and associated staking is visible at multiple locations along the shoreward extent of the cap area (Photo 1 and Photo 2). A portion of the exposed mat appears to be floating in approximately 1-3 feet of water.

Observations of Long-term Controls (i.e., oil booms, organo-clay mat, etc.)

During the Monitoring event, the Fuel and Marine Marketing (FAMM) oil boom was positioned across the cap area, between the upriver corner of the ship dock and the wooden dolphin (near the upriver extent of the site and near the Siltronic Corporation outfall). Buoys that identify the cap area to mariners were in place as installed with the exception of the downriver buoy which had moved to behind the ship bumper on the upriver corner of the FAMM ship dock (Photo 3). The position of the boom and a general overview of the site shoreline are shown in Photo 4.

Other Comments:
No sheen is evident in the vicinity of the cap area. Photo 5 shows the water surface immediately upriver of the FAMM dock structure.

Recorded by: **Timothy Stone**

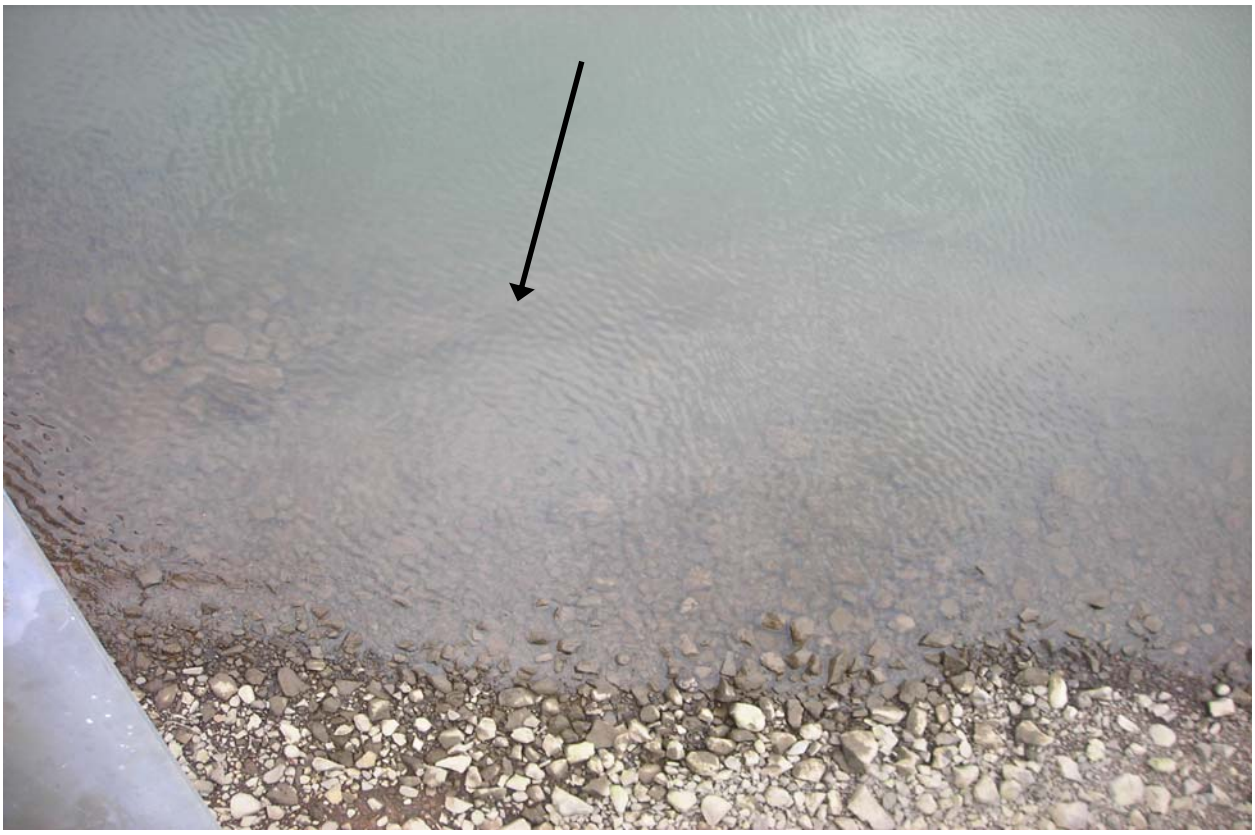


Photo 1—*exposed segments of the organo-clay mat material (4/9/09)*

Photo 2— *exposed segments of the organo-clay mat material (4/9/09)*

Photo 3— *downriver marker buoy out-of-position/behind dock bumper (4/9/09)*

Photo 4— *overview of cap area from shoreline (4/9/09)*

Photo 5 — *overview of area immediately downriver of cap (4/9/09)*

Visual Observations Log Form

Date	May 18, 2009		
Location:	NW Natural "Gasco" Site		
Project Name:	NW Natural – Gasco	**Project Number:**	000029-02 BG21 T4
Monitoring Period:	Monthly (Year 3)—May 2009		
Time Observations Started:	May 18, 2009 @ 1300	**Time Observation Concluded:**	May 18, 2009 @1700
Weather Conditions:	Cloudy, low 50s (degrees F), light wind from the east		
Wave Action Observations:	Light wind generating waves (0.0-0.2 feet in height) with numerous larger waves generated by recreational and commercial watercraft (0.5-1.5 feet in height)		
Photographs Taken:	(Yes) No		

Tidal Conditions:

River level elevation on 5/18/09 ranged from 9.46 to 10.38 ft; and approximately 9.85 feet during observations (City of Portland Datum)

The water level elevation did not allow visual observation of the shoreward extent the pilot cap.

Observations of Erosion/Deposition:

No erosion/deposition is evident along the shoreline and the organo-clay mat material and associated staking is not visible along the shoreward extent of the cap area (Photo 1).

Observations of Long-term Controls (i.e., oil booms, organo-clay mat, etc.)

During the Monitoring event, the Fuel and Marine Marketing (FAMM) oil boom was positioned across the cap area, between the upriver corner of the ship dock and the wooden dolphin (near the upriver extent of the site and near the Siltronic Corporation outfall). Buoys that identify the cap area to mariners were in place as installed (Photo 2). The position of the boom and a general overview of the site shoreline are shown in Photo 3.

Other Comments:
No sheen is evident in the vicinity of the cap area. Photo 4 shows the water surface immediately downriver of the sediment cap.

Recorded by: **Timothy Stone**

Photo 1—*shoreline shoreward of sediment cap (5/18/09/09)*

Photo 2—*"no wake" buoys at riverward extent of cap (5/18/09)*

Photo 3— *FAMM oil boom in place across extent of Gasco shoreline (5/18/09)*

Photo 4—*conditions immediately downriver of sediment cap (5/18/09)*

Visual Observations Log Form

Date	June 17, 2009		
Location:	NW Natural "Gasco" Site		
Project Name:	NW Natural – Gasco	**Project Number:**	000029-02 BG21 T4
Monitoring Period:	Monthly(Year 4)—June 2009		
Time Observations Started:	June 17, 2009 @ 0700	**Time Observation Concluded:**	June 17, 2009 @1530
Weather Conditions:	Cloudy, 70 degrees Fahrenheit, light wind from the west		
Wave Action Observations:	Light wind generating waves (0.0-0.3 feet in height)		
Photographs Taken:	(Yes) No		

Tidal Conditions:	River level elevation on 6/17/09 ranged from 5.12 to 6.96 ft; and approximately 5.78 feet during observations (Morrison Gage Height)
Observations of Erosion/Deposition:	No erosion/deposition is evident along the shoreline and the shoreward edge of the organo-clay mat material and associated staking is visible in approximately 1 foot of water along the shoreward extent of the cap area (Photo 1).
Observations of Long-term Controls (i.e., oil booms, organo-clay mat, etc.)	During the Monitoring event, the Fuel and Marine Marketing (FAMM) oil boom was positioned across the cap area, between the upriver corner of the ship dock and the wooden dolphin (near the upriver extent of the site and near the Siltronic Corporation outfall). Buoys that identify the cap area to mariners were in place as installed. The position of the FAMM oil boom, warning buoys, and a general overview of the site shoreline are shown in Photo 2.

Other Comments:
No sheen is evident in the vicinity of the cap area. Photo 3 shows the water surface immediately downriver of the sediment cap.

Recorded by: **Douglas Laffooon**

Photo 1—*shoreline shoreward of sediment cap (06/17/09/09)*

Photo 2— *FAMM oil boom and mariner warning buoys in place across extent of pilot cap area (06/17/09)*

Photo 3—*conditions immediately downriver of sediment cap (06/17/09)*

Visual Observations Log Form

Date	July 14, 2009		
Location:	NW Natural "Gasco" Site		
Project Name:	NW Natural – Gasco	**Project Number:**	000029-02 BG21 T4
Monitoring Period:	Monthly(Year 4)—July 2009		
Time Observations Started:	July 14, 2009 @ 0730	**Time Observation Concluded:**	July 14, 2009 @1030
Weather Conditions:	Cloudy, 50-60 degrees Fahrenheit, light to moderate wind from the north		
Wave Action Observations:	Light wind generating waves (0.2-0.4 feet in height)		
Photographs Taken:	(Yes) No		

Tidal Conditions:	River level elevation on 7/14/09 ranged from 2.24 to 5.46 ft; and approximately 2.77 feet during observations (Morrison Gage Height)
Observations of Erosion/Deposition:	No erosion/deposition is evident along the shoreline and the shoreward edge of the organo-clay mat material; and associated staking is visible along the shoreward extent of the cap area and perpendicular to the shoreline at the upriver extent of the cap area (Photo 1 and Photo 2).
Observations of Long-term Controls (i.e., oil booms, organo-clay mat, etc.)	During the Monitoring event, the Fuel and Marine Marketing (FAMM) oil boom was positioned across the cap area, between the upriver corner of the ship dock and the wooden dolphin (near the upriver extent of the site and near the Siltronic Corporation outfall). Buoys that identify the cap area to mariners were in place as installed. The position of the FAMM oil boom, warning buoys, and a general overview of the site shoreline are shown in Photo 3.

Other Comments:
No sheen is evident in the vicinity of the cap area. Photo 4 shows an overview of the shoreline along the cap area.

Recorded by: **Douglas Laffooon**

Photo 1—*shoreline shoreward of sediment cap (07/14/09)*

Photo 2—*exposed organo-clay mat material at upriver extent of cap area (07/14/09)*

Photo 3— *FAMM oil boom and mariner warning buoys in place across extent of Gasco shoreline (07/14/09)*

Photo 4—*overview of the shoreline along the cap area (07/14/09)*

APPENDIX D
DEPOSITIONAL SURFACE SEDIMENT COLLECTION FORMS

ANCHOR QEA

Surface Sediment Field Sample Record

Project Name: Y3E1 LT Cap Monitoring **Project No:** 000029-02 BG17 **Station ID:** PCM-02

Sampling Crew: R. Barth and R. Pickering
Sample Date: 6-Aug-09 Sampling Method: Diver slide sampler
Sampling Vessel: RSS 36' Aluminum Boat
Subcontractor(s): Research Support Services Weather: Overcast, Mid 70's, Calm
Station Coordinates: N / Lat. ON STN
E / Long. ON STN
Datum: NAD 83 / WGS 84 zone: Oregon N.

Sample ID: PCM-02DS-090806
Analysis: Metals / TBT / SVOCs / VOCs / PCBs / Pest Other:
TS / TVS / Grain Size / TOC / Ammonia / Sulfides Other:
(Circle Appropriate Analyses) Full Portland Harbor List

Grab Number: 1 Water Depth: 26 ft. Grab Recovery: 11cm cm Time: 1600
Tide Level: ft. Sample Interval: 10cm cm
Bioassay / Chemistry Depth MLLW: ft.

Sediment Type:	Sediment Color:	Density:	Sediment Odor:		Sheen:	Moisture:
cobble	D.O.	Very soft/Loose	none	H2S	none	Dry
gravel	gray	soft/loose	slight Marine	Petroleum	trace Spotty on surf.	Damp
sand C M F ~5%	black	mod dense/stiff	moderate	other:	slight Prior to mixing	Moist
silt clay	brown	dense/stiff	strong		moderate	Wet
organic matter scattered strands	brown surface ~2mm	very dense/stiff	overwhelming		heavy	

Comments: Some worm tubes & live worms present in surface. No pilot cap sands present in grab.

Grab Number: Water Depth: ft. Grab Recovery: cm Time:
Tide Level: ft. Sample Interval: cm
Bioassay / Chemistry Depth MLLW: ft.

Sediment Type:	Sediment Color:	Density:	Sediment Odor:		Sheen:	Moisture:
cobble	D.O.	Very soft/Loose	none	H2S	none	Dry
gravel	gray	soft/loose	slight	Petroleum	trace	Damp
sand C M F	black	mod dense/stiff	moderate	other:	slight	Moist
silt clay	brown	dense/stiff	strong		moderate	Wet
organic matter	brown surface	very dense/stiff	overwhelming		heavy	

Comments:

Grab Number: Water Depth: ft. Grab Recovery: cm Time:
Tide Level: ft. Sample Interval: cm
Bioassay / Chemistry Depth MLLW: ft.

Sediment Type:	Sediment Color:	Density:	Sediment Odor:		Sheen:	Moisture:
cobble	D.O.	Very soft/Loose	none	H2S	none	Dry
gravel	gray	soft/loose	slight	Petroleum	trace	Damp
sand C M F	black	mod dense/stiff	moderate	other:	slight	Moist
silt clay	brown	dense/stiff	strong		moderate	Wet
organic matter	brown surface	very dense/stiff	overwhelming		heavy	

Comments:

Date/Time Lab Drop Off:

Recorded by: Ryan Barth

ANCHOR QEA

Surface Sediment Field Sample Record

Project Name: Y3E1 LT Cap Monitoring **Project No:** 000029-02 BG17 **Station ID:** PCM-04

Sampling Crew: R. Barth and R. Pickering
Sample Date: 6-Aug-09 Sampling Method: Diver slide sampler
Sampling Vessel: RSS 36' Aluminum Boat
Subcontractor(s): Research Support Services Weather: Calm, Mid 70's, Overcast
Station Coordinates: N / Lat. ON STN
E / Long. ON STN
Datum: NAD 83 / WGS 84 zone:

Sample ID: PCM-04DS-090806
Analysis: Metals / TBT / SVOCs / VOCs / PCBs / Pest Other:
TS / TVS / Grain Size / TOC / Ammonia / Sulfides Other:
(Circle Appropriate Analyses) Full Portland Harbor List

Grab Number: 1 Water Depth: 11 ft. Grab Recovery: 8cm cm Time: 1630
Tide Level: ft. Sample Interval: 6-8 cm
Bioassay / Chemistry Depth MLLW: ft.

Sediment Type:	Sediment Color:	Density:	Sediment Odor:		Sheen:	Moisture:
cobble	D.O.	Very soft/Loose	none	H2S	none	Dry
gravel	gray	soft/loose	slight Marine	Petroleum	trace	Damp
sand C M F < 5% Top	black	mod dense/stiff	moderate	other:	slight	Moist
silt clay grades greater	brown	dense/stiff	strong		moderate	Wet
organic matter % bottom	brown surface 1mm	very dense/stiff	overwhelming		heavy	

Comments: Bottom few cm's contained cap sand (not sampled). No worms present.

Grab Number: Water Depth: ft. Grab Recovery: cm Time:
Tide Level: ft. Sample Interval: cm
Bioassay / Chemistry Depth MLLW: ft.

Sediment Type:	Sediment Color:	Density:	Sediment Odor:		Sheen:	Moisture:
cobble	D.O.	Very soft/Loose	none	H2S	none	Dry
gravel	gray	soft/loose	slight	Petroleum	trace	Damp
sand C M F	black	mod dense/stiff	moderate	other:	slight	Moist
silt clay	brown	dense/stiff	strong		moderate	Wet
organic matter	brown surface	very dense/stiff	overwhelming		heavy	

Comments:

Grab Number: Water Depth: ft. Grab Recovery: cm Time:
Tide Level: ft. Sample Interval: cm
Bioassay / Chemistry Depth MLLW: ft.

Sediment Type:	Sediment Color:	Density:	Sediment Odor:		Sheen:	Moisture:
cobble	D.O.	Very soft/Loose	none	H2S	none	Dry
gravel	gray	soft/loose	slight	Petroleum	trace	Damp
sand C M F	black	mod dense/stiff	moderate	other:	slight	Moist
silt clay	brown	dense/stiff	strong		moderate	Wet
organic matter	brown surface	very dense/stiff	overwhelming		heavy	

Comments:

Date/Time Lab Drop Off:

Recorded by: Ryan Barth

ANCHOR QEA

Surface Sediment Field Sample Record

Project Name: Y3E1 LT Cap Monitoring **Project No:** 000029-02 BG17 **Station ID:** PCM-06

Sampling Crew: R. Barth and R. Pickering
Sample Date: 6-Aug-09 Sampling Method: Diver slide sampler
Sampling Vessel: RSS 36' Aluminum Boat
Subcontractor(s): Research Support Services Weather: Overcast, Mid 70's, Calm
Station Coordinates: N / Lat. ON STN
E / Long. ON STN
Datum: NAD 83 / WGS 84 zone:

Sample ID: PCM-06DS-090806
Analysis: Metals / TBT / SVOCs / VOCs / PCBs / Pest Other:
TS / TVS / Grain Size / TOC / Ammonia / Sulfides Other:
(Circle Appropriate Analyses) Full Portland Harbor List

Grab Number: 1 Water Depth: 27 ft. Grab Recovery: 12 cm Time: 1410
Tide Level: ft. Sample Interval: 10 cm
Bioassay / Chemistry Depth MLLW: ft.

Sediment Type:	Sediment Color:	Density:	Sediment Odor:		Sheen:	Moisture:
cobble	D.O.	Very soft/Loose	none	H2S	none	Dry
gravel	gray	soft/loose	slight Marine	Petroleum	trace	Damp
sand C M F <5%	black	mod dense/stiff	moderate	other:	slight	Moist
silt clay	brown	dense/stiff	strong		moderate	Wet
organic matter some fibers	brown surface few mm's	very dense/stiff	overwhelming		heavy	

Comments: No cap sands present. Some worm tubes & worms present in surface.

Grab Number: Water Depth: ft. Grab Recovery: cm Time:
Tide Level: ft. Sample Interval: cm
Bioassay / Chemistry Depth MLLW: ft.

Sediment Type:	Sediment Color:	Density:	Sediment Odor:		Sheen:	Moisture:
cobble	D.O.	Very soft/Loose	none	H2S	none	Dry
gravel	gray	soft/loose	slight	Petroleum	trace	Damp
sand C M F	black	mod dense/stiff	moderate	other:	slight	Moist
silt clay	brown	dense/stiff	strong		moderate	Wet
organic matter	brown surface	very dense/stiff	overwhelming		heavy	

Comments:

Grab Number: Water Depth: ft. Grab Recovery: cm Time:
Tide Level: ft. Sample Interval: cm
Bioassay / Chemistry Depth MLLW: ft.

Sediment Type:	Sediment Color:	Density:	Sediment Odor:		Sheen:	Moisture:
cobble	D.O.	Very soft/Loose	none	H2S	none	Dry
gravel	gray	soft/loose	slight	Petroleum	trace	Damp
sand C M F	black	mod dense/stiff	moderate	other:	slight	Moist
silt clay	brown	dense/stiff	strong		moderate	Wet
organic matter	brown surface	very dense/stiff	overwhelming		heavy	

Comments:

Date/Time Lab Drop Off:

Recorded by: Ryan Barth

ANCHOR QEA

Surface Sediment Field Sample Record

Project Name: Y3E1 LT Cap Monitoring **Project No:** 000029-02 BG17 **Station ID:** PCM-09

Sampling Crew: R. Barth and R. Pickering
Sample Date: 6-Aug-09 Sampling Method: Diver slide sampler
Sampling Vessel: RSS 36' Aluminum Boat
Subcontractor(s): Research Support Services Weather: Calm, Mid 70's, Overcast
Station Coordinates: N / Lat. ON STN
E / Long. ON STN
Datum: NAD 83 / WGS 84 zone:

Sample ID: PCM-09DS-090806
Analysis: Metals / TBT / SVOCs / VOCs / PCBs / Pest Other:
TS / TVS / Grain Size / TOC / Ammonia / Sulfides Other:
(Circle Appropriate Analyses) Full Portland Harbor List

Grab Number: 1 Water Depth: 16 ft. Grab Recovery: 10 cm Time: 1620
Tide Level: ft. Sample Interval: 10 cm
Bioassay / Chemistry Depth MLLW: ft.

Sediment Type:	Sediment Color:	Density:	Sediment Odor:		Sheen:	Moisture:
cobble	D.O.	Very soft/Loose	none	H2S	none	Dry
gravel	gray	soft/loose	slight Marine	Petroleum	trace	Damp
sand C M F ~5%	black	mod dense/stiff	moderate	other:	slight	Moist
silt clay	brown	dense/stiff	strong		moderate	Wet
organic matter some fibers/strands	brown surface few mm's	very dense/stiff	overwhelming		heavy	

Comments: No cap sands present. Some worm tubes & worms present.

Grab Number: Water Depth: ft. Grab Recovery: cm Time:
Tide Level: ft. Sample Interval: cm
Bioassay / Chemistry Depth MLLW: ft.

Sediment Type:	Sediment Color:	Density:	Sediment Odor:		Sheen:	Moisture:
cobble	D.O.	Very soft/Loose	none	H2S	none	Dry
gravel	gray	soft/loose	slight	Petroleum	trace	Damp
sand C M F	black	mod dense/stiff	moderate	other:	slight	Moist
silt clay	brown	dense/stiff	strong		moderate	Wet
organic matter	brown surface	very dense/stiff	overwhelming		heavy	

Comments:

Grab Number: Water Depth: ft. Grab Recovery: cm Time:
Tide Level: ft. Sample Interval: cm
Bioassay / Chemistry Depth MLLW: ft.

Sediment Type:	Sediment Color:	Density:	Sediment Odor:		Sheen:	Moisture:
cobble	D.O.	Very soft/Loose	none	H2S	none	Dry
gravel	gray	soft/loose	slight	Petroleum	trace	Damp
sand C M F	black	mod dense/stiff	moderate	other:	slight	Moist
silt clay	brown	dense/stiff	strong		moderate	Wet
organic matter	brown surface	very dense/stiff	overwhelming		heavy	

Comments:

Date/Time Lab Drop Off:

Recorded by: Ryan Barth

ANCHOR QEA

Surface Sediment Field Sample Record

Project Name: Y3E1 LT Cap Monitoring **Project No:** 000029-02 BG17 **Station ID:** PCM-14

Sampling Crew: R. Barth and R. Pickering
Sample Date: 6-Aug-09 Sampling Method: Diver slide sampler
Sampling Vessel: RSS 36' Aluminum Boat
Subcontractor(s): Research Support Services Weather: Overcast, Mid 70's,
Station Coordinates: N / Lat. ON STN
E / Long. ON STN
Datum: NAD 83 / WGS 84 zone:

Sample ID: PCM-14DS-090806
Analysis: Metals / TBT / SVOCs / VOCs / PCBs / Pest Other:
TS / TVS / Grain Size / TOC / Ammonia / Sulfides Other:
(Circle Appropriate Analyses) Full Portland Harbor List

Grab Number: 1 Water Depth: 43 ft. Grab Recovery: 18cm cm Time: 1715
Tide Level: ft. Sample Interval: 5cm cm
Bioassay / Chemistry Depth MLLW: ft.

Sediment Type:	Sediment Color:	Density:	Sediment Odor:		Sheen:	Moisture:
cobble	D.O.	Very soft/Loose silt	none	H2S	none See	Dry
gravel Cap sand	gray Cap sand	soft/loose sand	slight Marine	Petroleum	trace Comment	Damp
sand C M F below 5cm	black	mod dense/stiff	moderate	other:	slight	Moist
silt clay silt overly	brown ~5cm	dense/stiff	strong		moderate	Wet
organic matter	brown surface 1mm	very dense/stiff	overwhelming		heavy	

Comments: Cap sand beneath ~5cm very soft silt. Upon skimming off silt a bleb of NAPL w/in cap sand became visible creating sheen. Bleb ~2mm diameter = small. Upon digging into sand in other area no additional blebs seen. Photos of bleb taken.

Grab Number: 2 Water Depth: ft. Grab Recovery: 12cm cm Time: 1715
Tide Level: ft. Sample Interval: 2cm cm
Bioassay / Chemistry Depth MLLW: ft.

Sediment Type:	Sediment Color:	Density:	Sediment Odor:		Sheen:	Moisture:
cobble	D.O.	Very soft/Loose	none	H2S	none	Dry
gravel	gray	soft/loose	slight	Petroleum	trace	Damp
sand C M F	black	mod dense/stiff	moderate	other:	slight	Moist
silt clay	brown	dense/stiff	strong		moderate	Wet
organic matter	brown surface	very dense/stiff	overwhelming		heavy	

Comments: 2 grabs were taken to collect suff. sample volume. 2ND grab had thinner layer overlying silt, No sheen/blebs identified in sands. No biological activity (worms/tubes) in either grab.

Grab Number: Water Depth: ft. Grab Recovery: cm Time:
Tide Level: ft. Sample Interval: cm
Bioassay / Chemistry Depth MLLW: ft.

Sediment Type:	Sediment Color:	Density:	Sediment Odor:		Sheen:	Moisture:
cobble	D.O.	Very soft/Loose	none	H2S	none	Dry
gravel	gray	soft/loose	slight	Petroleum	trace	Damp
sand C M F	black	mod dense/stiff	moderate	other:	slight	Moist
silt clay	brown	dense/stiff	strong		moderate	Wet
organic matter	brown surface	very dense/stiff	overwhelming		heavy	

Comments:

R. Barth

Date/Time Lab Drop Off:

Recorded by: Ryan Barth

ANCHOR QEA

Surface Sediment Field Sample Record

Project Name: Y3E1 LT Cap Monitoring **Project No:** 000029-02 BG17 **Station ID:** PCM-15

Sampling Crew: R. Barth and R. Pickering
Sample Date: 6-Aug-09 Sampling Method: Diver slide sampler
Sampling Vessel: RSS 36' Aluminum Boat
Subcontractor(s): Research Support Services Weather: Overcast, calm, mid 70's
Station Coordinates: N / Lat. ON STN
E / Long. ON STN
Datum: NAD 83 / WGS 84 zone:

Sample ID: PCM-15DS-090806
Analysis: Metals / TBT / SVOCs / VOCs / PCBs / Pest Other:
TS / TVS / Grain Size / TOC / Ammonia / Sulfides Other:
(Circle Appropriate Analyses) Full Portland Harbor List

Grab Number: 1 Water Depth: 43 ft. Grab Recovery: 11 cm Time: 1820
Tide Level: ft. Sample Interval: 4 cm
Bioassay / Chemistry Depth MLLW: ft.

Sediment Type:	Sediment Color:	Density:	Sediment Odor:		Sheen:	Moisture:
cobble	D.O.	Very soft/Loose	none	H2S	none	Dry
gravel	gray Sand	soft/loose	slight marine	Petroleum	trace Small spots upon mixing	Damp
sand C M F	black	mod dense/stiff	moderate	other:	slight	Moist
silt clay	brown silt	dense/stiff	strong		moderate	Wet
organic matter	brown surface ~1mm	very dense/stiff	overwhelming		heavy	

cap sand beneath dep. silt
chunk of Bank on top

Comments: Dep. silt overlying cap sand.

Grab Number: 2 Water Depth: ft. Grab Recovery: 12 cm Time: 1820
Tide Level: ft. Sample Interval: 3 cm
Bioassay / Chemistry Depth MLLW: ft.

Sediment Type:	Sediment Color:	Density:	Sediment Odor:		Sheen:	Moisture:
cobble	D.O.	Very soft/Loose	none	H2S	none	Dry
gravel	gray Sand	soft/loose	slight marine	Petroleum	trace small spots upon mixing	Damp
sand C M F	black	mod dense/stiff	moderate	other:	slight	Moist
silt clay	brown silt	dense/stiff	strong		moderate	Wet
organic matter	brown surface ~1mm	very dense/stiff	overwhelming		heavy	

Comments: Dep. silt overlying cap sand.

Grab Number: Water Depth: ft. Grab Recovery: cm Time:
Tide Level: ft. Sample Interval: cm
Bioassay / Chemistry Depth MLLW: ft.

Sediment Type:	Sediment Color:	Density:	Sediment Odor:		Sheen:	Moisture:
cobble	D.O.	Very soft/Loose	none	H2S	none	Dry
gravel	gray	soft/loose	slight	Petroleum	trace	Damp
sand C M F	black	mod dense/stiff	moderate	other:	slight	Moist
silt clay	brown	dense/stiff	strong		moderate	Wet
organic matter	brown surface	very dense/stiff	overwhelming		heavy	

Comments:

Date/Time Lab Drop Off:

Recorded by: Ryan Barth

ANCHOR QEA

Surface Sediment Field Sample Record

Project Name: Y3E1 LT Cap Monitoring **Project No:** 000029-02 BG17 **Station ID:** PCM-22

Sampling Crew: R. Barth and R. Pickering
Sample Date: 6-Aug-09 Sampling Method: Diver slide sampler
Sampling Vessel: RSS 36' Aluminum Boat
Subcontractor(s): Research Support Services Weather: Overcast, Mid 70's, Calm
Station Coordinates: N / Lat. ON STN
E / Long. ON STN
Datum: NAD 83 / WGS 84 zone:

Sample ID: PCM-22DS-090806
Analysis: Metals / TBT / SVOCs / VOCs / PCBs / Pest Other:
TS / TVS / Grain Size / TOC / Ammonia / Sulfides Other:
(Circle Appropriate Analyses) Full Portland Harbor list

Grab Number: 1 Water Depth: 41 ft. Grab Recovery: 11 cm Time: 1740
Tide Level: ft. Sample Interval: 10 cm
Bioassay / Chemistry Depth MLLW: ft.

Sediment Type:	Sediment Color:	Density:	Sediment Odor:		Sheen:	Moisture:
cobble	D.O.	Very soft/Loose	none	H2S	none	Dry
gravel	gray	soft/loose	slight	Petroleum	trace	Damp
sand C M F <5%	black	mod dense/stiff	moderate	other:	slight	Moist
silt clay	brown	dense/stiff	strong		moderate	Wet
organic matter	brown surface ~1mm	very dense/stiff	overwhelming		heavy	

Hydrocarbon odor; few spots upon mixing

Comments: No biological activity (worms/tubes) No cap sand present.

Grab Number: Water Depth: ft. Grab Recovery: cm Time:
Tide Level: ft. Sample Interval: cm
Bioassay / Chemistry Depth MLLW: ft.

Sediment Type:	Sediment Color:	Density:	Sediment Odor:		Sheen:	Moisture:
cobble	D.O.	Very soft/Loose	none	H2S	none	Dry
gravel	gray	soft/loose	slight	Petroleum	trace	Damp
sand C M F	black	mod dense/stiff	moderate	other:	slight	Moist
silt clay	brown	dense/stiff	strong		moderate	Wet
organic matter	brown surface	very dense/stiff	overwhelming		heavy	

Comments:

Grab Number: Water Depth: ft. Grab Recovery: cm Time:
Tide Level: ft. Sample Interval: cm
Bioassay / Chemistry Depth MLLW: ft.

Sediment Type:	Sediment Color:	Density:	Sediment Odor:		Sheen:	Moisture:
cobble	D.O.	Very soft/Loose	none	H2S	none	Dry
gravel	gray	soft/loose	slight	Petroleum	trace	Damp
sand C M F	black	mod dense/stiff	moderate	other:	slight	Moist
silt clay	brown	dense/stiff	strong		moderate	Wet
organic matter	brown surface	very dense/stiff	overwhelming		heavy	

Comments:

Date/Time Lab Drop Off:

Recorded by: Ryan Barth

APPENDIX E
DATA VALIDATION REPORTS
(ON CD)