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**DATA USABILITY SUMMARY REPORT**

**ONONDAGA LAKE PRE-DESIGN INVESTIGATION**

**PHASE VI**

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## **SECTION A1**

### **DATA USABILITY SUMMARY**

Sediment samples, porewater centrifuge samples, porewater sediment samples, and groundwater vibracore samples were collected from the Onondaga Lake Pre-Design Investigation (PDI) sites in Solvay, New York from May 12, 2010 through November 2, 2010. Analytical results from these samples were validated and reviewed by Parsons for usability with respect to the following requirements:

- Onondaga Lake PDI Phase VI Work Plan,
- July 2005 NYSDEC Analytical Services Protocol (ASP), and
- USEPA Region II Standard Operating Procedures (SOPs) for organic and inorganic data review.

The analytical laboratory for this project was Accutest Laboratories, Inc. (Accutest). This laboratory is certified to conduct project analyses through the New York State Department of Health (NYSDOH) and the National Environmental Laboratory Accreditation Program (NELAP).

#### **A1.1 LABORATORY DATA PACKAGES**

The laboratory data package turnaround time, defined as the time from sample receipt by the laboratory to receipt of the analytical data packages by Parsons, was 21-49 days for the project samples.

The laboratory data packages received from Accutest were paginated, complete, and overall were of good quality. Comments on specific quality control (QC) and other requirements are discussed in detail in the attached data validation report which is summarized by sample media in Section A2.

#### **A1.2 SAMPLING AND CHAIN-OF-CUSTODY**

The samples were collected, properly preserved, shipped under a COC record, and received at Accutest within one to two days of sampling. All samples were received intact and in good condition at Accutest.

#### **A1.3 LABORATORY ANALYTICAL METHODS**

The sediment samples, the Addendum 5 SMU-8 PECQ sediment samples, and the Follow-Up sediment samples were collected from the site and analyzed for the chemical parameter of interest (CPOI) volatile organic compounds (VOCs); the CPOI semivolatile organic compounds (SVOCs) of polynuclear aromatic hydrocarbons (PAHs) and/or phenol; polychlorinated

biphenyls (PCBs); mercury; pH; and/or total organic carbon (TOC). The SMU-5 sediment samples were collected from the site and analyzed for mercury. Certain sediment and vibracore sediment samples were collected and analyzed for molybdenum. The porewater centrifuge samples were collected and analyzed for the CPOI VOCs, mercury, dissolved organic carbon (DOC), pH, and/or sulfide. The porewater sediment samples were collected and analyzed for the CPOI VOCs, mercury, TOC, pH, and/or specific gravity. The groundwater vibracore samples were collected and analyzed for the cations calcium, iron, magnesium, manganese, potassium, and sodium; the anions chloride, sulfate, nitrate, nitrite, nitrate-nitrite, and orthophosphate; pH; and/or conductivity. The Habitat samples were collected and analyzed for TOC. Summaries of issues concerning these laboratory analyses are presented in Subsections A1.3.1 through A1.3.5. The data qualifications resulting from the data validation review and statements on the laboratory analytical precision, accuracy, representativeness, completeness, and comparability (PARCC) are discussed for each analytical method in Section A2. The laboratory data were reviewed and may be qualified with the following validation flags:

- "U" - not detected at the value given,
- "UJ" - estimated and not detected at the value given,
- "J" - estimated at the value given,
- "N" - presumptive evidence at the value given, and
- "R" - unusable value.

The validated laboratory data were tabulated and are presented by media in Attachment A.

### **A1.3.1 Volatile Organic Analysis**

Sediment, Addendum 5 SMU-8 PECQ sediment, Follow-Up sediment, porewater, and porewater sediment samples collected from the site were analyzed for the CPOI VOCs using the USEPA SW-846 8260B analytical method. Certain reported results for the VOC samples were qualified as estimated based upon sample holding times, surrogate recoveries, matrix spike/matrix spike duplicate (MS/MSD) recoveries, field duplicate precision, and sediment sample moisture content. Certain reported results for the VOC samples were considered unusable and qualified "R" based upon poor MS/MSD recoveries. The reported VOC analytical results were 99.3% to 100% complete (i.e., usable) for the data presented by Accutest. PARCC requirements were met overall.

### **A1.3.2 Semivolatile Organic Analysis**

Sediment, Addendum 5 SMU-8 PECQ sediment, Follow-Up sediment samples collected from the site were analyzed for the CPOI SVOCs of PAHs and/or phenol using the USEPA SW-846 8270C SIM analytical method. Certain reported results for these samples were qualified as estimated based upon holding times, MS/MSD recoveries, laboratory control sample (LCS) recoveries, instrument performance, instrument calibrations, internal standard responses, field duplicate precision, and sediment sample moisture content. The reported SVOC analytical

results were 100% complete (i.e., usable) for the data presented by Accutest. PARCC requirements were met.

### **A1.3.3 PCB Organic Analysis**

Sediment, Addendum 5 SMU-8 PECQ sediment, and Follow-Up sediment samples collected from the site were analyzed for PCBs using the USEPA SW-846 8082 analytical method. Certain reported results for the PCB samples were qualified as estimated based upon sample identification, field duplicate precision and sediment sample moisture content. The reported PCB analytical results were considered 100% complete (i.e., usable) for the data presented by Accutest. PARCC requirements were met.

### **A1.3.4 Metals Analysis**

Sediment, Addendum 5 SMU-8 PECQ sediment, Follow-Up sediment, porewater, porewater sediment, and SMU-5 sediment samples collected from the site were analyzed for mercury using the USEPA SW-846 7470A/7471A analytical methods. Certain sediment and vibracore sediment collected from the site were analyzed for molybdenum using the USEPA SW-846 6010B analytical method. The groundwater vibracore samples collected from the site were analyzed for the cations calcium, iron, magnesium, manganese, potassium, and sodium using the USEPA SW-846 6010B analytical method. Certain reported results for these samples were qualified as estimated based upon MS/MSD recoveries, laboratory duplicate precision, serial dilutions, field duplicate precision, and sediment sample moisture content. The reported metals data were considered 100% complete (i.e., usable) for the data presented by Accutest. PARCC requirements were met.

### **A1.3.5 Wet Chemistry Analysis**

Sediment, Addendum 5 SMU-8 PECQ sediment, Follow-Up sediment, and porewater sediment samples collected from the site were analyzed for TOC and/or pH using the USEPA approved Lloyd Kahn and USEPA SW-846 9045 analytical methods, respectively. Porewater sediment samples were also analyzed for specific gravity using the ASTM D1429-86 analytical method. Porewater samples collected from the site were analyzed for DOC, pH, and/or sulfide using the USEPA SW-846 9060, SM20-4500-HB, and SM4500 analytical methods, respectively. The groundwater vibracore samples collected from the site were analyzed for the anions chloride and sulfate using the USEPA 300.0 analytical method; nitrate and nitrate-nitrite using the USEPA 353.2 analytical method; nitrite and orthophosphate using the SM4500 analytical method; pH using the SM20-4500-HB analytical method; and/or conductivity using the USEPA SW-846 9050 analytical method. The Habitat samples collected from the site were analyzed for TOC using the USEPA approved Lloyd Kahn analytical method. Certain reported results for these samples were qualified as estimated based upon sample holding times, MS/MSD recoveries, laboratory duplicate precision, instrument calibrations, field duplicate precision, and sediment sample moisture content. Certain reported results for these samples were considered unusable and qualified "R" based upon poor matrix spike recoveries. The reported wet chemistry analytical results for these samples were 99.9% to 100% complete (i.e., usable) for the data presented by Accutest. PARCC requirements were met overall.

## **SECTION A2**

### **DATA VALIDATION REPORT**

#### **A2.1 SEDIMENT, SMU-5 SEDIMENT, AND FOLLOW-UP SEDIMENT SAMPLES**

Data review has been completed for data packages generated by Accutest containing sediment samples collected from the site. These samples were contained within sample delivery groups (SDGs) JA46717, JA48094R, JA48261R, JA48331, JA48332R, JA48614, JA48615, JA48616, JA48746, JA48747, JA48748R, JA48749R, JA48776, JA48910, JA48911, JA48912R, JA48913R, JA48914, JA48915, JA48916R, JA49021, JA49021R, JA49022, JA49064, JA49065, JA49066, JA49067R, JA49209, and JA60497. All of these samples were properly preserved, shipped under a COC record, and received intact by the analytical laboratory. The validated laboratory data were tabulated and are presented in Attachment A-1.

Data validation was performed for all samples in accordance with the project work plan, QAPP, NYSDEC ASP, and the USEPA Region II SOPs for organic and inorganic data review. This data validation and usability report is presented by analysis type.

##### **A2.1.1 CPOI Volatiles**

The following items were reviewed for compliancy in the volatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Laboratory control sample (LCS) recoveries
- Laboratory method blank contamination
- GC/MS instrument performance
- Sample result verification and identification
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of surrogate recoveries, MS/MSD precision and accuracy, LCS recoveries, and field duplicate precision as discussed below.

### Surrogate Recoveries

All sample surrogate recoveries were considered acceptable, within QC limits, and did not require sample qualification with the exception of the low dibromofluoromethane recovery in samples OL-1298-19, -20, OL-1377-16, and -17. Reanalyses of these samples yielded similar recoveries confirming the presence of matrix effects in these samples. The results for these samples were considered estimated, possibly biased low, with positive results qualified “J” and nondetected results qualified “UJ”.

### MS/MSD Precision and Accuracy

All MS/MSD precision (relative percent difference; RPD) and accuracy (percent recovery, %R) measurements were compliant, within QC acceptance limits for designated spiked project samples, and did not require qualification with the exception of the low MS/MSD accuracy results for 1,3,5-trichlorobenzene during the spiked analyses of samples OL-1285-04, OL-1297-05, -08, OL-1298-04, -19, OL-1300-01, -07, OL-1292-12, OL-1277-14, OL-1276-15, -19, OL-1284-09, -11, OL-1278-04, OL-1282-02, -10, -12, OL-1294-09, and OL-1290-09; the low MS/MSD accuracy results for benzene and 1,3,5-trichlorobenzene during the spiked analyses of samples OL-1298-16; the low MS/MSD accuracy results for ethylbenzene, o-xylene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, and 1,3,5-trichlorobenzene during the spiked analyses of sample OL-1288-06; and the low MS/MSD accuracy results for 1,3,5-trichlorobenzene, naphthalene, benzene, m,p-xylene, o-xylene, and total xylenes during the spiked analyses of sample OL-1377-10. The results for these compounds were considered estimated, possibly biased low, with positive results qualified “J” and nondetected results qualified “UJ” for the affected unspiked parent sample.

### LCS Recoveries

All LCS recoveries were considered acceptable and within QC limits with the exception of the high LCS recoveries for 1,2,4-trichlorobenzene associated with samples OL-1297-12 through -16 and 1,2,3-trichlorobenzene and 1,3,5-trichlorobenzene associated with sample OL-1297-12. Since these compounds were not detected in the associated samples, validation qualification was not required.

### Field Duplicate Precision

Field duplicate precision (RPD) results were considered acceptable with the exception of the precision for ethylbenzene, naphthalene, m,p-xylene, o-xylene, and total xylenes associated with the field duplicate pair OL-1282-14/-15; and ethylbenzene, toluene, m,p-xylene, and total xylene associated with the field duplicate pair OL-1288-03/-04. Therefore, the results for these



compounds were considered estimated with positive results qualified “J” and nondetected results qualified “UJ” for the affected field duplicate pair.

### Usability

All volatile results for the sediment samples were considered usable following data validation.

### Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The volatile sediment data presented by Accutest were 100% complete (i.e., usable). The validated volatile laboratory data are tabulated and presented in Table A1 of Attachment A-1.

It was noted that many sediment samples contained less than 50% solids. The volatile sample results for these samples were considered estimated with positive results qualified “J” and nondetected results qualified “UJ”.

#### **A2.1.2 CPOI Semivolatiles (Phenol and PAHs)**

The following items were reviewed for compliancy in the semivolatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- LCS recoveries
- Laboratory method blank contamination
- GC/MS instrument performance
- Sample result verification and identification
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of surrogate recoveries, MS/MSD precision and accuracy, LCS recoveries, GC/MS instrument performance, initial and continuing calibrations, internal standard responses, and field duplicate precision as discussed below.

## Surrogate Recoveries

All sample surrogate recoveries were considered acceptable, within QC limits, and did not require sample qualification with the exception of the less than 10% recovery of 2-fluorophenol in sample OL-1377-02. Therefore, the positive phenol result for this sample was considered estimated, possibly biased low, and qualified “J”.

## MS/MSD Precision and Accuracy

All MS/MSD precision and accuracy measurements were within QC acceptance limits for designated spiked project samples with the exception of the many high MS/MSD accuracy results during the spiked analyses of samples OL-1285-02, OL-1294-09, and OL-1288-20; the high MS/MSD accuracy results for acenaphthene and dibenzo(a,h)anthracene during the spiked analyses of sample OL-1297-15; the high MS/MSD accuracy results for phenol during the spiked analyses of sample OL-1300-07; the high MS/MSD accuracy results for pyrene during the spiked analyses of sample OL-1276-15; low MS/MSD accuracy results for phenol during the spiked analyses of sample OL-1278-10; and the high MS/MSD accuracy results for benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, and fluorine during the spiked analyses of sample OL-1377-10. Therefore, the results for those compounds where MS/MSD accuracy results exceeded the QC limit were considered estimated, possibly biased high, and qualified “J” for the affected unspiked parent sample. Results for those compounds where MS/MSD accuracy results fell below the QC limit were considered estimated, possibly biased low, with positive results qualified “J” and nondetected results qualified “UJ” for the affected unspiked parent sample.

## LCS Recoveries

All LCS recoveries were considered acceptable and within QC limits for all compounds with the exception of the high LCS recovery for chrysene associated with samples in SDG JA49064; and the high LCS recovery for benzo(a)anthracene associated with samples in SDG JA48912R. Therefore, positive results for these compounds were considered estimated, possibly biased high, and qualified “J” for the affected samples.

In addition, phenol experienced a 0% recovery in the LCS associated with samples in SDG JA60497. Therefore, the phenol results which were detects were considered estimated, possibly biased low, and qualified “J” for these samples.

## GC/MS Instrument Performance

All GC/MS instruments were tuned and calibrated at the appropriate frequency and within QC acceptance limits. All samples were injected and analyzed within 12 hours from the instrument tuning standard with the exception of sample OL-1297-01 which exceeded the criteria by 12 minutes. All results for this sample which were detected above method detection limits were considered estimated and qualified “J”.

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### Initial and Continuing Calibrations

All initial calibration compounds were compliant with a minimum mean relative response factor (RRF) of 0.05 and a maximum percent relative standard deviation (%RSD) of 30% with the exception of benzo(b)fluoranthene (33.46%RSD) in the initial calibration associated with samples in SDGs JA48776 and JA49066 and with samples OL-1297-05 through -10, -16 through -19, OL-1298-11, and -13 through -20; and benzo(a)anthracene (37.46%RSD) in the initial calibration associated with samples in SDGs JA48748R, JA48749R, JA48912R, JA48913R, JA48916R, and JA49067R. Therefore, the results for these compounds were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples.

All continuing calibration compounds were complaint with a minimum RRF of 0.05 and a maximum percent difference (%D) within  $\pm 25\%$  with the exception of chrysene (-29.4%D), benzo(b)fluoranthene (27%D), and benzo(k)fluoranthene (-25.1%D) in the continuing calibration associated with samples OL-1284-01 through -15; benzo(b)fluoranthene (-25.9%D) and benzo(k)fluoranthene (30.1%D) in the continuing calibration associated with samples OL-1284-05, -06, and -07; benzo(a)anthracene (-35.5%D) in the continuing calibration associated with samples OL-1282-01 through -16, and -20; benzo(a)anthracene (-30.2%D) and benzo(k)fluoranthene (28%D) in the continuing calibration associated with OL-1282-18 and -19, OL-1290-01 through -06, -20, and samples in SDG JA48916R; benzo(a)anthracene (-40.8%D) and benzo(b)fluoranthene (-32.4%D) in the continuing calibration associated with OL-1282-16, OL-1288-01, -02, -20, OL-1290-07 through -19; and benzo(k)fluoranthene (25.8%D) in the continuing calibration associated with samples OL-1288-01, -03 through -19. Therefore, the sample results for these compounds were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples.

It was noted that compounds exceeded instrument calibration ranges in SDGs JA48748R, JA48749R, JA48912R, JA48913R, JA48916R, and JA49067R. Since these samples were not diluted and reanalyzed, the results for these compounds were considered estimated and qualified "J" for these samples.

### Internal Standard Responses

All internal standard (IS) responses and retention times were within specified QC ranges based on associated calibration standards (i.e., sample's area counts within -50% to +100% and retention times within  $\pm 0.5$  minutes of the standard) with the exception of the high IS responses for 1-methylnaphthalene-d10, fluorene-d10, and fluoranthene-d10 in sample OL-1297-15; the low IS response for perylene-d12 in samples OL-1297-13, -14, and -15; and all low IS responses in sample OL-1284-14. Therefore, positive results associated with those ISs which exceeded the QC limit were considered estimated, possibly biased high, and qualified "J" for the affected samples. Sample results associated with those ISs which fell below the QC limit were considered estimated, possibly biased low, with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples.

## Field Duplicate Precision

All field duplicate precision results were considered acceptable with the exception of all PAHs except acenaphthylene and dibenzo(a,h)fluoranthene for the field duplicate pair OL-1285-01/-02; all results for the field duplicate pair OL-1298-13/-14 and OL-1294-07/-08; and benzo(g,h,i)perylene and indeno(1,2,3-cd)pyrene for the field duplicate pair OL-1300-05/-06. These results were considered estimated with positive results qualified “J” and nondetected results qualified “UJ” for the affected samples.

## Usability

All semivolatile results for the sediment samples were considered usable following data validation.

## Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The semivolatile sediment data presented by Accutest were 100% complete (i.e., usable). The validated semivolatile laboratory data are tabulated and presented in Table A1 of Attachment A-1.

It was noted that many sediment samples contained less than 50% solids. The semivolatile sample results for these samples were considered estimated with positive results qualified “J” and nondetected results qualified “UJ”.

### **A2.1.3 PCBs**

The following items were reviewed for compliancy in the PCB analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- LCS recoveries
- Laboratory method blank contamination
- Initial calibrations
- Verification calibrations
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of sample result identification and field duplicate precision as discussed below.

### Sample Result Identification

All positive PCB sample results were within retention time windows and verified present using secondary column confirmation. The precision between the PCB results on the quantitation and confirmation columns were less than 25%RPD with the exception of the precision results for PCB-1232 in sample OL-1297-11; PCB-1242 in samples OL-1298-09, OL-1300-02, -03, -08, OL-1277-20, and OL-1278-09; PCB-1248 in samples OL-1282-01, OL-1377-03, and -11; PCB-1254 in samples OL-1297-11, -12, OL-1298-09, -11, -12, OL-1300-01, -02, -03, -04, -08, -10, OL-1276-11, -16, OL-1284-06, -16, OL-1278-01, -02, -03, -09, and OL-1282-01; PCB-1260 in samples OL-1297-11, OL-1300-03, -04, -08, -09, -10, OL-1284-16, OL-1278-01, -03, -07, -08, -09, and OL-1282-14; PCB-1268 in samples OL-1298-01, -09, -10, -11, OL-1300-01, and -02; and total PCBs in samples OL-1297-11, -12, OL-1298-01, -09, -10, -11, -12, OL-1300-02, -03, -04, -08, -10, OL-1276-16, OL-1284-16, OL-1278-01, -02, -03, -09, OL-1282-01, OL-1377-03, and -11. The results for these PCBs were considered estimated and qualified “J” for the affected samples. However, PCB results where the precision between the quantitation and confirmation columns was greater than 90%RPD were considered estimated, tentatively identified, and qualified “JN” for the affected samples.

### Field Duplicate Precision

All field duplicate precision results were considered acceptable with the exception of the PCB-1232 and total PCBs results for the field duplicate pair OL-1297-13/-14; PCB-1268 for the field duplicate pair OL-1284-05/-06; and PCB-1248, PCB-1260, and total PCBs for the field duplicate pair OL-1282-14/-15. These results were considered estimated with the positive results qualified “J” and the nondetected result qualified “UJ” for the samples and their field duplicates.

### Usability

All PCB results for the sediment samples were considered usable following data validation.

### Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The PCB sediment data presented by Accutest were 100% complete with all data considered usable and valid. The validated data are tabulated and presented in Table A1 of Attachment A-1.

It was noted that many sediment samples contained less than 50% solids. The PCB sample results for these samples were considered estimated with positive results qualified “J” and nondetected results qualified “UJ”.

## A2.1.4 Molybdenum and Mercury

The following items were reviewed for compliancy in the molybdenum and mercury analysis:

- Custody documentation
- Holding times
- Initial and continuing calibration verifications
- Initial and continuing calibration, and laboratory preparation blank contamination
- MS/MSD recoveries
- Laboratory duplicate precision
- LCS recoveries
- Serial dilutions
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of MS/MSD recoveries, serial dilutions, and field duplicate precision as discussed below.

### MS/MSD Recoveries

All matrix spike recoveries were considered acceptable and within the 75-125%R QC limit with the exception of the high MS/MSD recoveries for mercury (168%R/128%R) associated with samples in SDG JA48616. Therefore, positive mercury results were considered estimated, possibly biased high, and qualified “J” for the affected samples.

### Serial Dilutions

All serial dilutions for molybdenum analysis were within QC limits for designated project samples with the exception the serial dilutions during the molybdenum analysis associated with samples OL-1251-11 and OL-1296-11. Therefore, the positive molybdenum results for these samples were considered estimated and qualified “J”.

### Field Duplicate Precision

All field duplicate precision results were considered acceptable with the exception of the mercury duplicate precision for the field duplicate pairs OL-1284-05/-06 (84%RPD) and OL-

1278-08/-09 (96%RPD). The mercury results for these field duplicate samples were considered estimated and qualified “J”.

### Usability

All molybdenum and mercury results for the sediment samples were considered usable following data validation.

### Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The molybdenum and mercury data for the sediment samples presented by Accutest were 100% complete (i.e., usable). The validated mercury laboratory data are tabulated and presented in Table A1 of Attachment A-1.

It was noted that many sediment samples contained less than 50% solids. The molybdenum and mercury sample results for these samples were considered estimated with positive results qualified “J” and nondetected results qualified “UJ”.

### **A2.1.5 TOC and pH**

All custody documentation, holding times, laboratory blanks, matrix spikes, duplicates, calibrations, quantitation limits, control samples, and instrumentation were reviewed for compliance. The reported results for these samples did not require qualification resulting from data validation with the exception of the following:

- The TOC results for samples in SDGs JA48776, JA49065, and JA48614 were considered estimated and qualified “J” based upon laboratory duplicate precision (39.7%RPD, 41.9%RPD, and 33%RPD, respectively; QC limit 0-32%RPD);
- The TOC results for the samples in SDGs JA48615 and JA60497 were considered estimated, possibly biased low, and qualified “J” based upon low matrix spike recoveries (48%R and 53.1%R, respectively; QC limit 54-133%R); and
- The TOC results for the field duplicate samples OL-1292-01/-02, OL-1276-13/-14, OL-1284-05/-06, and OL-1282-14/-15 were considered estimated and qualified “J” based upon poor field duplicate precision (77%RPD, 56%RPD, 141%RPD, and 81%RPD, respectively; QC limit 0-50%RPD).

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The sediment data for these analyses presented by Accutest were 100% complete (i.e., usable). The validated laboratory data are tabulated and presented in Table A1 of Attachment A-1.



It was noted that many sediment samples contained less than 50% solids. The TOC and pH sample results for these samples were considered estimated with positive results qualified “J” and nondetected results qualified “UJ”.

## **A2.2 ADDENDUM 5 SMU-8 PECQ SEDIMENT SAMPLES**

Data review has been completed for data packages generated by Accutest containing sediment samples collected from the site. These samples were contained within SDGs JA47063, JA47302, JA47432, JA47433, JA47521, JA47522, JA53813, JA53814, JA53847, and JA53848. All of these samples were properly preserved, shipped under a COC record, and received intact by the analytical laboratory. The validated laboratory data were tabulated and are presented in Attachment A-2.

Data validation was performed for all samples in accordance with the project work plan, QAPP, NYSDEC ASP, and the USEPA Region II SOPs for organic and inorganic data review. This data validation and usability report is presented by analysis type.

### **A2.2.1 CPOI Volatiles**

The following items were reviewed for compliancy in the volatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Laboratory control sample (LCS) recoveries
- Laboratory method blank contamination
- GC/MS instrument performance
- Sample result verification and identification
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of surrogate recoveries, MS/MSD precision and accuracy, and field duplicate precision as discussed below.



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### Surrogate Recoveries

All sample surrogate recoveries were considered acceptable, within QC limits, and did not require sample qualification with the exception of the high dibromofluoromethane and 1,2-dichloroethane-d4 recoveries in sample OL-1206-15; and the high 1,2-dichloroethane-d4 recovery in sample OL-1213-13. Reanalyses of these samples yielded similar recoveries confirming the presence of matrix effects in these samples. Positive results for these samples were considered estimated, possibly biased high, and qualified “J”.

### MS/MSD Precision and Accuracy

All MS/MSD precision (relative percent difference; RPD) and accuracy (percent recovery, %R) measurements were compliant, within QC acceptance limits for designated spiked project samples, and did not require qualification with the exception of the less than 10% MS/MSD accuracy results for 1,2,4-trichlorobenzene and 1,3,5-trichlorobenzene during the spiked analyses of sample OL-1204-02; the less than 10% MS/MSD accuracy results for naphthalene during the spiked analyses of sample OL-1205-02; the low MS/MSD accuracy results for 1,3,5-trichlorobenzene during the spiked analyses of samples OL-1205-02, OL-1213-07, -09, OL-1210-03, OL-1342-01, OL-1341-08, OL-1343-12, -17, and -18; the less than 10% MS/MSD accuracy results for 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, and 1,3,5-trichlorobenzene during the spiked analyses of samples OL-1206-03, OL-1213-02, and OL-1210-11; the low MS/MSD accuracy results for all compounds except naphthalene during the spiked analyses of sample OL-1206-03; the low MS/MSD accuracy results for 1,2-dichlorobenzene and 1,3-dichlorobenzene during the spiked analyses of samples OL-1213-02 and OL-1210-11; the less than 10% MS/MSD accuracy results for 1,2,3-trichlorobenzene and 1,2,4-trichlorobenzene during the spiked analyses of sample OL-1213-09; the less than 10% MS/MSD accuracy results for 1,2,3-trichlorobenzene during the spiked analyses of sample OL-1213-07; the less than 10% MS/MSD accuracy result for 1,3,5-trichlorobenzene during the spiked analyses of sample OL-1341-07; and the low MS/MSD accuracy results for 1,2-dichlorobenzene, 1,3-dichlorobenzene, and 1,4-dichlorobenzene during the spiked analyses of sample OL-1341-07. The results for these compounds were considered estimated, possibly biased low, with positive results qualified “J” and nondetected results qualified “UJ” for the affected unspiked parent sample. However, the nondetected result for those compounds where MS/MSD accuracy results were less than 10% were considered unusable and qualified “R” for the affected unspiked parent sample.

### Field Duplicate Precision

Field duplicate precision (RPD) results were considered acceptable with the exception of the precision for chlorobenzene and total xylenes for the field duplicate pair OL-1205-02/OL-1213-02; and chlorobenzene, 1,4-dichlorobenzene, and total xylenes for the field duplicate pair OL-1343-12/-13. Therefore, the results for these compounds were considered estimated with positive results qualified “J” and nondetected results qualified “UJ” for the affected field duplicate pair.

## Usability

All volatile results for the Addendum 5 SMU-8 PECQ sediment samples were considered usable following data validation with the exception of certain nondetected results based upon poor MS/MSD accuracy results.

## Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The volatile Addendum 5 SMU-8 PECQ sediment data presented by Accutest were 99.3% complete (i.e., usable). The validated volatile laboratory data are tabulated and presented in Table A2 of Attachment A-2.

It was noted that many sediment samples contained less than 50% solids. The volatile sample results for these samples were considered estimated with positive results qualified “J” and nondetected results qualified “UJ”.

### **A2.2.2 PAHs**

The following items were reviewed for compliancy in the semivolatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- LCS recoveries
- Laboratory method blank contamination
- GC/MS instrument performance
- Sample result verification and identification
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of holding times, MS/MSD precision and accuracy, LCS recoveries, initial calibrations, and field duplicate precision as discussed below.

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### Holding Times

All extraction and analytical sample holding times met requirements with the exception of the reanalyzed samples OL-1343-15, -16, -17, -18, -19, and -20 which exceeded the 14-day extraction holding time requirement by four days. Therefore, the PAH results which were reported for these samples were considered estimated, possibly biased low, with positive results qualified “J” and nondetected results qualified “UJ”.

### MS/MSD Precision and Accuracy

All MS/MSD precision and accuracy measurements were within QC acceptance limits for designated spiked project samples with the exception of the low MS/MSD accuracy results for anthracene, phenanthrene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene, and pyrene during the spiked analyses of sample OL-1204-02; high MS/MSD accuracy results for many compounds during the spiked analyses of sample OL-1205-20; high MS/MSD accuracy results for benzo(b)fluoranthene, fluoranthene, and indeno(1,2,3-cd)pyrene during the spiked analyses of sample OL-1206-20; low MS/MSD accuracy results for all compounds during the spiked analyses of sample OL-1210-20; high MS/MSD accuracy results for benzo(k)fluoranthene, fluoranthene, and pyrene during the spiked analyses of sample OL-1341-07; high MS/MSD accuracy results for benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene during the spiked analyses of sample OL-1341-08; high MS/MSD accuracy results for dibenzo(a,h)anthracene during the spiked analyses of sample OL-1343-12; and low MS/MSD accuracy results for benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, fluoranthene, phenanthrene, and pyrene during the spiked analyses of sample OL-1343-19. Therefore, the results for those compounds where MS/MSD accuracy results exceeded the QC limit were considered estimated, possibly biased high, and qualified “J” for the affected unspiked parent sample. Results for those compounds where MS/MSD accuracy results fell below the QC limit were considered estimated, possibly biased low, with positive results qualified “J” and nondetected results qualified “UJ” for the affected unspiked parent sample.

### LCS Recoveries

All LCS recoveries were considered acceptable and within QC limits for all compounds with the exception of the high LCS recovery for benzo(k)fluoranthene associated with samples in SDG JA47522; the high LCS recoveries for benzo(g,h,i)perylene and indeno(1,2,3-cd)pyrene associated with samples in SDG JA53814; and the high LCS recovery for fluoranthene associated with samples in SDG JA53848. Therefore, positive results for these compounds were considered estimated, possibly biased high, and qualified “J” for the affected samples.

### Initial Calibrations

All initial calibration compounds were compliant with a minimum mean relative response factor (RRF) of 0.05 and a maximum percent relative standard deviation (%RSD) of 30% with the exception of benzo(b)fluoranthene (33.46%RSD) in the initial calibration associated with

samples in SDGs JA47432 and JA47521. Therefore, the results for this compound were considered estimated with positive results qualified “J” and nondetected results qualified “UJ” for the affected samples.

### Field Duplicate Precision

All field duplicate precision results were considered acceptable with the exception of acenaphthene for the field duplicate pair OL-1341-02/-04; all compounds for the field duplicate pair OL-1076-01/OL-1213-13; acenaphthylene, dibenzo(a,h)anthracene, and fluorine for the field duplicate pair OL-1076-02/OL-1213-14; all compounds for the field duplicate pair OL-1205-01/OL-1213-01; acenaphthylene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, fluorene, phenanthrene, and pyrene for the field duplicate pair OL-1205-02/OL-1213-02; and all compounds for the field duplicate pair OL-1213-10/-12 except acenaphthene and fluorene. These results were considered estimated with positive results qualified “J” and nondetected results qualified “UJ” for the affected samples.

### Usability

All semivolatile results for the Addendum 5 SMU-8 PECQ sediment samples were considered usable following data validation.

### Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The PAH Addendum 5 SMU-8 PECQ sediment data presented by Accutest were 100% complete (i.e., usable). The validated PAH laboratory data are tabulated and presented in Table A2 of Attachment A-2.

It was noted that many sediment samples contained less than 50% solids. The PAH sample results for these samples were considered estimated with positive results qualified “J” and nondetected results qualified “UJ”.

### **A2.2.3 PCBs**

The following items were reviewed for compliancy in the PCB analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- LCS recoveries
- Laboratory method blank contamination

- Initial calibrations
- Verification calibrations
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of sample result identification and field duplicate precision as discussed below.

### Sample Result Identification

All positive PCB sample results were within retention time windows and verified present using secondary column confirmation. The precision between the PCB results on the quantitation and confirmation columns were less than 25%RPD with the exception of the precision results for PCB-1232 in samples OL-1204-01, -05, OL-1205-04, -09, -18, OL-1213-03, -05, -13, OL-1210-04, -07, -08, -15, -16, and -17; PCB-1242 in samples OL-1076-01, -02, -04, OL-1213-08, OL-1343-01 through -06, -09 through -13, -15, -17, -19, and -20; PCB-1248 in sample OL-1076-03; PCB-1254 in samples OL-1076-01, -02, -04, OL-1204-11, OL-1206-02, OL-1210-16, -17, -19, OL-1341-10, -16, -20, OL-1344-02, OL-1343-01, -02, -04, -05, -06, -08, -09, -10, -12, -14, -15, -17, and -18; PCB-1260 in samples OL-1076-02, OL-1205-04, -06, -07, -20, OL-1206-04, -05, -08, OL-1210-08, -18, -19, -20, OL-1342-03, -04, -06, -08, -10, OL-1341-02, -03, -04, -06, -08, -09, -10, -12 through -18, -20, OL-1344-01, OL-1343-02, -04, -06, -08, -19, and -20; and total PCBs in samples OL-1076-01, -02, -04, OL-1204-01, OL-1205-04, -09, -18, OL-1206-04, OL-1213-03, -05, -13, OL-1210-04, -08, -15, -16, -17, -19, OL-1344-02, OL-1343-01 through -06, -08, -09, -10, -12, -13, -15, -17, and -19. The results for these PCBs were considered estimated and qualified “J” for the affected samples. However, PCB results where the precision between the quantitation and confirmation columns was greater than 90%RPD were considered estimated, tentatively identified, and qualified “JN” for the affected samples.

### Field Duplicate Precision

All field duplicate precision results were considered acceptable with the exception of the PCB-1232 results for the field duplicate pair OL-1076-01/OL-1213-13 (nondetect/125 µg/kg) and OL-1205-02/OL-1213-02 (nondetect/190 µg/kg); PCB-1242 results for the field duplicate pair OL-1076-01/OL-1213-13 (436 µg/kg/nondetect), OL-1205-02/OL-1213-02 (644 µg/kg/nondetect), and OL-1341-02/-04 (112%RPD); PCB-1254 precision for the field duplicate pair OL-1076-01/OL-1213-13 (120%RPD), OL-1076-02/OL-1213-14 (65%RPD), OL-1205-02/OL-1213-02 (132%RPD), OL-1213-10/OL-1213-12 (15.3 µg/kg/nondetect), and OL-1341-02/-04 (114%RPD); PCB-1260 precision for the field duplicate pair OL-1076-01/OL-1213-13 (123%RPD), OL-1076-02/OL-1213-14 (77%RPD), OL-1205-02/OL-1213-02 (128%RPD), OL-1213-10/OL-1213-12 (11 µg/kg/nondetect), and OL-1341-02/-04 (118%RPD); PCB-1268

precision for the field duplicate pair OL-1213-09/OL-1213-11 (46.5 µg/kg/nondetect); and the total PCB precision for the field duplicate pair OL-1076-01/OL-1213-13 (116%RPD), OL-1076-02/OL-1213-14 (56%RPD), OL-1205-02/OL-1213-02 (119%RPD), OL-1213-09/OL-1213-11 (87%RPD), OL-1213-10/OL-1213-12 (92%RPD), and OL-1341-02/-04 (114%RPD). These results were considered estimated with the positive results qualified “J” and the nondetected result qualified “UJ” for the samples and their field duplicates.

### Usability

All PCB results for the Addendum 5 SMU-8 PECQ sediment samples were considered usable following data validation.

### Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The PCB Addendum 5 SMU-8 PECQ sediment data presented by Accutest were 100% complete with all data considered usable and valid. The validated data are tabulated and presented in Table A2 of Attachment A-2.

It was noted that many sediment samples contained less than 50% solids. The PCB sample results for these samples were considered estimated with positive results qualified “J” and nondetected results qualified “UJ”.

### **A2.2.4 Mercury**

The following items were reviewed for compliancy in the mercury analysis:

- Custody documentation
- Holding times
- Initial and continuing calibration verifications
- Initial and continuing calibration, and laboratory preparation blank contamination
- MS/MSD recoveries
- Laboratory duplicate precision
- LCS recoveries
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of MS/MSD recoveries and field duplicate precision as discussed below.

### MS/MSD Recoveries

All matrix spike recoveries were considered acceptable and within the 75-125%R QC limit with the exception of the low MS recovery for mercury (74.6%R) associated with samples in SDGs JA53814 and JA53847. Therefore, the mercury results were considered estimated, possibly biased low, with positive results qualified “J” and nondetected results qualified “UJ” for the affected samples.

### Field Duplicate Precision

All field duplicate precision results were considered acceptable with the exception of the mercury duplicate precision for the field duplicate pair OL-1205-02/OL-1213-02 (196%RPD). The mercury results for these field duplicate samples were considered estimated and qualified “J”.

### Usability

All mercury results for the Addendum 5 SMU-8 PECQ sediment samples were considered usable following data validation.

### Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The mercury data for the Addendum 5 SMU-8 PECQ sediment samples presented by Accutest were 100% complete (i.e., usable). The validated mercury laboratory data are tabulated and presented in Table A2 of Attachment A-2.

It was noted that many sediment samples contained less than 50% solids. The mercury sample results for these samples were considered estimated with positive results qualified “J” and nondetected results qualified “UJ”.

## **A2.2.5 TOC**

All custody documentation, holding times, laboratory blanks, matrix spikes, duplicates, calibrations, quantitation limits, control samples, and instrumentation were reviewed for compliance. The reported results for these samples did not require qualification resulting from data validation with the exception of the following:

- The TOC results for samples in SDG JA53814 were considered estimated, possibly biased low, and qualified “J” based upon low matrix spike recoveries (53%R, 33.8%R; QC limit 54-133%R).



The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The Addendum 5 SMU-8 PECQ sediment data for these analyses presented by Accutest were 100% complete (i.e., usable). The validated laboratory data are tabulated and presented in Table A2 of Attachment A-2.

It was noted that many sediment samples contained less than 50% solids. The TOC sample results for these samples were considered estimated with positive results qualified “J” and nondetected results qualified “UJ”.

### **A2.3 POREWATER AND POREWATER SEDIMENT SAMPLES**

Data review has been completed for data packages generated by Accutest containing porewater and porewater sediment from vibracore samples collected from the site. These samples were contained within SDGs JA46549, JA46550, JA46551, JA46716, JA46717, JA46781, JA46871, JA46884, JA47081, JA47131, JA47315, JA48116, JA48331, JA48494, JA48638, JA48639, JA49021, and JA49022. All of these samples were properly preserved, shipped under a COC record, and received intact by the analytical laboratory. The validated laboratory data are presented in Attachment A-3.

Data validation was performed for all samples in accordance with the project work plan, QAPP, NYSDEC ASP, and the USEPA Region II SOPs for organic and inorganic data review. This data validation and usability report is presented by analysis type.

#### **A2.3.1 CPOI Volatiles**

The following items were reviewed for compliancy in the volatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Laboratory control sample (LCS) recoveries
- Laboratory method blank contamination
- GC/MS instrument performance
- Sample result verification and identification
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Quantitation limits
- Data completeness



These items were considered compliant and acceptable in accordance with the validation protocols with the exception of holding times, surrogate recoveries, MS/MSD precision and accuracy, and blank contamination as discussed below.

### Holding Times

All sample holding times met requirements for analysis with the exception of the reanalyzed samples OL-1071-14DP, OL-1268-02DP, and -04DP which exceeded the seven day holding time for unpreserved samples by three to four days. Therefore, the positive naphthalene result reported from the reanalysis of sample OL-1071-14DP and the positive benzene results reported from the reanalysis of samples OL-1268-02DP and -04DP were considered estimated, possibly biased low, and qualified “J”.

Samples OL-1079-03DP, -07DP, -08DP, -12DP, OL-1202-06DP, -07DP, -09DP, -14DP, OL-1295-04DP, -05DP, -06DP, and OL-1275-12DP also exceeded the seven day holding time for unpreserved samples by one to five days. All volatile results for these samples were considered estimated, possibly biased low, with positive results qualified “J” and nondetected results qualified “UJ”.

### Surrogate Recoveries

All sample surrogate recoveries were considered acceptable, within QC limits, and did not require qualification of sample results with the exception of the low dibromofluoromethane surrogate recovery in samples OL-1070-02, -04, -04DP, -05, -05DP, OL-1077-06, -08, -09, -10, -11DP, -13, -14, -15, -16, -16DP, -17, -17DP, -18, -18DP, -19, -20, OL-1237-02, -03, -04, -05, and -06 ; high 1,2-dichloroethane-d4 surrogate recovery in samples OL-1202-02, -03, and -05; and high dibromofluoromethane and 1,2-dichloroethane-d4 surrogate recoveries in samples OL-1203-06, -07, -08, -09, and -10. Therefore, the volatile results for those samples where surrogate recoveries were lower than QC limits were considered estimated, possibly biased low, with positive results qualified “J” and nondetected results qualified “UJ”. Positive volatile results for those samples where surrogate recoveries were higher than QC limits were considered estimated, possibly biased high, and qualified “J”.

### MS/MSD Precision and Accuracy

All MS/MSD precision (relative percent difference; RPD) and accuracy (percent recovery, %R) measurements were compliant, within QC acceptance limits for designated spiked project samples, and did not require sample qualification with the exception of the low accuracy outliers reported for 1,3,5-trichlorobenzene during the spiked analyses of porewater sediment samples OL-1070-04, -20, OL-1071-18, OL-1077-02, -14, -18, OL-1079-14, OL-1202-09, -11, OL-1203-03, -06, OL-1237-02, -04, OL-1251-03, OL-1268-09, OL-1274-04, and OL-1295-07; low accuracy outliers reported for 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, and 1,3,5-trichlorobenzene during the spiked analyses of porewater sediment sample OL-1071-19; low accuracy outliers reported for benzene and 1,3,5-trichlorobenzene during the spiked analyses of porewater sediment sample OL-1075-04; low accuracy outliers reported for 1,2-dichlorobenzene,

1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, and 1,3,5-trichlorobenzene during the spiked analyses of porewater sediment samples OL-1078-04 and -16; the low accuracy outliers reported for chlorobenzene, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,3,5-trichlorobenzene, and o-xylene during the spiked analyses of porewater sample OL-1296-05DP; the high accuracy outliers reported for naphthalene during the spiked analyses of porewater sediment sample OL-1295-03; and the low accuracy outliers reported for benzene during the spiked analyses of porewater sample OL-1295-12DP. Therefore, the results for those compounds where MS/MSD accuracy results were lower than QC limits were considered estimated, possibly biased low, with positive results qualified “J” and nondetected results qualified “UJ” for the affected parent samples. Positive results for those compounds where MS/MSD accuracy results were higher than QC limits were considered estimated, possibly biased high, and qualified “J” for the affected parent samples.

### Blank Contamination

The laboratory method blank associated with porewater samples in SDGs JA48638 and JA48639 and with samples OL-1268-06DP, -07DP, -08DP, -09DP, -10DP, -11DP, -12DP, -13DP, -14DP, -15DP, -16DP, -17DP, and -19DP contained toluene at a concentration of 1 µg/L. Therefore, the associated toluene results less than the validation action concentration were considered not detected and qualified “U” for the affected samples.

### Usability

All volatile results for the porewater and porewater sediment samples were considered usable following data validation.

### Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The volatile porewater and porewater sediment data presented by Accutest were 100% complete (i.e., usable). The validated volatile laboratory data are tabulated and presented in Tables A3-1 and A3-2 of Attachment A-3.

It was also noted that many porewater sediment samples contained less than 50% solids. The volatile sample results for these samples were considered estimated with positive results qualified “J” and nondetected results qualified “UJ”.

### **A2.3.2 Mercury**

The following items were reviewed for compliancy in the mercury analysis:

- Custody documentation
- Holding times
- Initial and continuing calibration verifications

- Initial and continuing calibration, laboratory preparation blank contamination
- MS/MSD recoveries
- Laboratory duplicate precision
- LCS recoveries
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of MS/MSD recoveries and laboratory duplicate precision as discussed below.

### MS/MSD Recoveries

All matrix spike recoveries were considered acceptable and within the 75-125%R QC limit with the exception of the high MS recovery for mercury (142%R) associated with porewater sediment samples in SDG JA46781; the low MS/MSD recoveries for mercury (40%R/60%R) associated with porewater sediment samples in SDG JA46884; and the high MSD recovery for mercury (232%R) associated with porewater sediment samples in SDG JA48639. Therefore, positive mercury results where spike recoveries exceeded the QC limit were considered estimated, possibly biased high, and qualified “J” for the affected samples. Mercury results where spike recoveries fell below the QC limit were considered estimated, possibly biased low, with positive results qualified “J” and nondetected results qualified “UJ” for the affected samples.

### Laboratory Duplicate Precision

All laboratory duplicate precision results were considered acceptable and within QC limits with the exception of the laboratory duplicate precision for mercury associated with porewater sediment samples in SDG JA48639. Therefore, the mercury results for the porewater sediment samples within this SDG were considered estimated with positive results qualified “J” and nondetected results qualified “UJ”.

### Usability

All mercury results for the porewater and the porewater sediment samples were considered usable following data validation.

### Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The mercury porewater and porewater sediment data presented by Accutest were 100% complete (i.e., usable).

The validated laboratory data are tabulated and presented in Tables A3-1 and A3-2 of Attachment A-3.

It was noted that many porewater sediment samples contained less than 50% solids. The mercury sample results for these samples were considered estimated with positive results qualified “J” and nondetected results qualified “UJ”.

### A2.3.3 DOC, TOC, pH, Sulfide, and Specific Gravity

All custody documentation, holding times, laboratory blanks, matrix spikes, duplicates, calibrations, quantitation limits, control samples, and instrumentation were reviewed for compliance. The reported results for these samples did not require qualification resulting from data validation with the exception of the following:

- DOC sample results contained within SDGs JA48638 and JA49022 were considered estimated, possibly biased low, and qualified “J” based upon a low matrix spike recovery (73%R and 76.6%R, respectively; 75-125%R);
- TOC sample results contained within SDGs JA46716, JA46884, JA48638, and JA49021 were considered estimated and qualified “J” based upon laboratory duplicate precision outliers; and
- Sulfide sample results contained within SDGs JA46884, JA47081, JA47315, JA48116, JA49021, and JA49022 were considered estimated, possibly biased low, with positive results qualified “J” and nondetected results qualified “UJ” based upon a low matrix spike recovery (43.8%R, 22%R, 39.6%R, 70%R, 35.3%R, 35.3%R, respectively; QC limit 75-125%R).

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The porewater and porewater sediment data for these analyses presented by Accutest were 100% complete (i.e., usable). The validated laboratory data are tabulated and presented in Tables A3-1 and A3-2 of Attachment A-3.

It was noted that many porewater sediment samples contained less than 50% solids. The TOC, pH, and specific gravity sample results for these samples were considered estimated with positive results qualified “J” and nondetected results qualified “UJ”.

## A2.4 GROUNDWATER VIBRACORE SAMPLES

Data review has been completed for data packages generated by Accutest containing groundwater vibracore samples collected from the site. These samples were contained within SDGs JA47416, JA47417, JA47418, JA47527, JA47528, JA47529, JA47530, JA47531, JA47532, JA47628, JA47629, JA47630, JA47631, JA47792, JA47793, JA47794, JA47795, JA47796, JA47797, JA47853, JA47860, JA47861, JA47862, JA47863, JA47864, JA47865, JA48267, JA48380, JA48381, JA48382, JA48383, JA48481, JA48482, JA48483, JA48484,

JA48092, JA48093, JA48094, JA48095, JA48096, JA48097, JA48261, JA48262, JA48263, JA48264, JA48265, JA48266, JA48303, JA48304, JA48308, JA48309, JA48332, JA48333, JA48334, JA48335, JA48376, JA48377, JA48378, JA48379, JA49017, JA49018, and JA49165. All of these samples were properly preserved, shipped under a COC record, and received intact by the analytical laboratory. The validated laboratory data are presented in Attachment A-4.

Data validation was performed for all samples in accordance with the project work plan, QAPP, NYSDEC ASP, and the USEPA Region II SOPs for organic and inorganic data review. This data validation and usability report is presented by analysis type.

## A2.4.1 Cations

The following items were reviewed for compliancy in the metals analysis:

- Custody documentation
- Holding times
- Initial and continuing calibration verifications
- Initial and continuing calibration, and laboratory preparation blank contamination
- MS/MSD recoveries
- Laboratory duplicate precision
- LCS recoveries
- Serial dilutions
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of field duplicate precision as discussed below.

### Field Duplicate Precision

All field duplicate precision results were considered acceptable for designated field duplicate samples with the exception of the precision for iron associated with the field duplicate samples OL-1214-01/-02 (80%RPD), OL-1216-06/-07 (81%RPD), OL-1235-03/-04 (85%RPD), and OL-1234-08/-09 (77%RPD); and the precision for manganese associated with the field duplicate samples OL-1216-06/-07 (53%RPD). Therefore, the associated iron and manganese results for these field duplicate samples were considered estimated and qualified “J”.

## Usability

All cations results for the groundwater vibracore samples were considered usable following data validation.

## Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The groundwater vibracore data presented by Accutest were 100% complete (i.e., usable). The validated cations laboratory data are tabulated and presented in Table A4 of Attachment A-4.

It was noted that many samples were not analyzed based upon insufficient porewater volume generated during core processing and centrifugation. In addition, sample OL-1225-01 was not analyzed due to an accidental spill at the laboratory.

### **A2.4.2 Anions, pH, and Conductivity**

All custody documentation, holding times, laboratory blanks, matrix spikes, duplicates, calibrations, quantitation limits, control samples, and instrumentation were reviewed for compliance. The reported results for these samples did not require qualification resulting from data validation with the exception of the following:

- The nitrite results for samples OL-1212-05, -06, -17, -18, -19, OL-1214-03, OL-1216-08, OL-1219-02, -03, OL-1232-01, -02, OL-1235-03, -04, -06, -07, -08, -09, OL-1241-07, -09, -10, -11, and -12 were considered estimated, possibly biased low, with positive results qualified “J” and nondetected results qualified “UJ” since the 48-hour holding time was exceeded by one to six days;
- The positive nitrite results for samples OL-1248-04 through -11, and -20 were considered estimated, possibly biased low, and qualified “J” while the nondetected nitrite result for sample OL-1248-19 was considered unusable and qualified “R” based upon an extremely low matrix spike recovery (-2.3%R; QC limit 60-120%R);
- The orthophosphate results for samples OL-1212-05, -06, -17, -18, -19, OL-1219-02, -03, OL-1232-01, -02, OL-1235-03, -04, -06, -07, -08, -09, OL-1241-07, -09, -10, -11, and -12 were considered estimated, possibly biased low, with positive results qualified “J” and nondetected results qualified “UJ” since the 48-hour holding time was exceeded by one to two days;
- The orthophosphate results for the field duplicate samples OL-1235-03/-04 were considered estimated and qualified “J” based upon a high field duplicate precision (63%RPD);
- The orthophosphate results for samples OL-1239-05, -06, -07, -08, -16, -17, and -18 were considered estimated with positive results qualified “J” and nondetected results

qualified “UJ” based upon a high laboratory duplicate precision (55.6%RPD; QC limit 0-21%RPD);

- The sulfate results for the field duplicate samples OL-1216-06/-07, OL-1217-01/-02, OL-1234-08/-09, OL-1256-01/-02, and OL-1257-09/-10 were considered estimated and qualified “J” based upon a high field duplicate precision (70%RPD, 84%RPD, 61%RPD, 161%RPD, 62%RPD, respectively);
- The sulfate results for samples contained within SDG JA47862 were considered estimated, possibly biased low, with positive results qualified “J” and nondetected results qualified “UJ” based upon low recovery in the associated matrix spike analysis (10.5%R; QC limit 80-120%R); and
- The nitrate and nitrate-nitrite results for the field duplicate samples OL-1249-13/-14 were considered estimated and qualified “J” based upon poor field duplicate precision.

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The groundwater vibracore data for these analyses presented by Accutest were 99.9% complete (i.e., usable). The anions, pH, and conductivity validated laboratory data are tabulated and presented in Table A4 of Attachment A-4.

It was noted that many samples were not analyzed based upon insufficient porewater volume generated during core processing and centrifugation. In addition, sample OL-1225-01 was not analyzed due to an accidental spill at the laboratory.

## A2.5 HABITAT SAMPLES

Data review has been completed for data packages generated by Accutest containing the Habitat samples collected from the site. These samples were contained within SDGs JA50863 and JA50864. All of these samples were properly preserved, shipped under a COC record, and received intact by the analytical laboratory. The validated laboratory data are presented in Attachment A-5.

Data validation was performed for all samples in accordance with the project work plan, QAPP, NYSDEC ASP, and the USEPA Region II SOPs for organic and inorganic data review. This data validation and usability report is presented by analysis type.

### A2.5.1 TOC

All custody documentation, holding times, laboratory blanks, matrix spikes, duplicates, calibrations, quantitation limits, control samples, and instrumentation were reviewed for compliance in the TOC analysis. The reported results for these samples did not require qualification resulting from data validation with the exception of the following:



- The TOC results for samples contained within SDG JA50863 were considered estimated, possibly biased low, and qualified “J” based upon a low TOC matrix spike recovery (45%R; QC limit 54-133%R); and
- The TOC results for samples contained within SDG JA50864 were considered estimated and qualified “J” based upon precision a precision exceedance in the associated laboratory duplicate (86.7%RPD; QC limit 0-54%RPD).

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, and comparability. The Habitat data presented by Accutest were 100% complete (i.e., usable). The validated laboratory data are tabulated and presented in Table A5 of Attachment A-5.



**ATTACHMENT A  
VALIDATED LABORATORY DATA**

**ATTACHMENT A-1**

**VALIDATED LABORATORY DATA FOR  
SEDIMENT, SMU-5 SEDIMENT, AND FOLLOW-UP SEDIMENT  
SAMPLES**

**Table A1  
Validated Sediment, SMU-5 Sediment, and Follow-Up Sediment Analytical Data**

		Location	OL-VC-20206	OL-VC-20206	OL-VC-20206	OL-VC-20206	OL-VC-20206	OL-VC-20206	OL-VC-20206	OL-VC-20206
		Sample Depth	0-1 Ft	1-2 Ft	2-3 Ft	3-4 Ft	4-5 Ft	5-6 Ft	6-7 Ft	7-8 Ft
		Field Sample ID	OL-1297-01	OL-1297-02	OL-1297-03	OL-1297-04	OL-1297-05	OL-1297-06	OL-1297-07	OL-1297-08
		Sample Date	6/14/2010	6/14/2010	6/14/2010	6/14/2010	6/14/2010	6/14/2010	6/14/2010	6/14/2010
		SDG	JA49064	JA49064	JA49064	JA49064	JA49064	JA49064	JA49064	JA49064
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Method	Parameter Name	Units								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	9710	7670	7400	7120	8350	6330	7730	7090
SM2540G	SOLIDS, PERCENT	%	59.6	57.1	60.5	60.6	64.8	61.1	60.8	60.2
SW7471	MERCURY	mg/kg	0.019 U	0.02 U	0.019 U	0.019 U	0.017 U	0.019 U	0.019 U	0.019 U
SW8082	AROCLOR-1016	ug/kg	5.6 U	5.8 U	5.4 U	5.5 U	5.1 U	5.4 U	5.4 U	5.5 U
SW8082	AROCLOR-1221	ug/kg	5.6 U	5.8 U	5.4 U	5.5 U	5.1 U	5.4 U	5.4 U	5.5 U
SW8082	AROCLOR-1232	ug/kg	5.6 U	5.8 U	5.4 U	5.5 U	5.1 U	5.4 U	5.4 U	5.5 U
SW8082	AROCLOR-1242	ug/kg	5.6 U	5.8 U	5.4 U	5.5 U	5.1 U	5.4 U	5.4 U	5.5 U
SW8082	AROCLOR-1248	ug/kg	5.6 U	5.8 U	5.4 U	5.5 U	5.1 U	5.4 U	5.4 U	5.5 U
SW8082	AROCLOR-1254	ug/kg	5.6 U	5.8 U	5.4 U	5.5 U	5.1 U	5.4 U	5.4 U	5.5 U
SW8082	AROCLOR-1260	ug/kg	5.6 U	5.8 U	5.4 U	5.5 U	5.1 U	5.4 U	5.4 U	5.5 U
SW8082	AROCLOR-1268	ug/kg	5.6 U	5.8 U	5.4 U	5.5 U	5.1 U	5.4 U	5.4 U	5.5 U
SW8082	PCBS, N.O.S.	ug/kg	5.6 U	5.8 U	5.4 U	5.5 U	5.1 U	5.4 U	5.4 U	5.5 U
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	8.9 U	8.8 U	8.8 U	8.4 U	8.4 U	8.5 U	9.1 U	8.5 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	8.9 U	8.8 U	8.8 U	8.4 U	8.4 U	8.5 U	9.1 U	8.5 U
SW8260	1,2-DICHLOROBENZENE	ug/kg	0.68 J	8.8 U	8.8 U	8.4 U	8.4 U	8.5 U	9.1 U	8.5 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	8.9 U	8.8 U	8.8 U	8.4 U	8.4 U	8.5 U	9.1 U	8.5 U
SW8260	1,3-DICHLOROBENZENE	ug/kg	8.9 U	8.8 U	8.8 U	8.4 U	8.4 U	8.5 U	9.1 U	8.5 U
SW8260	1,4-DICHLOROBENZENE	ug/kg	8.9 U	8.8 U	8.8 U	8.4 U	8.4 U	8.5 U	9.1 U	8.5 U
SW8260	BENZENE	ug/kg	7	0.7 J	4.5	5.4	21.9	31	24.8	10.3
SW8260	CHLOROBENZENE	ug/kg	8.9 U	8.8 U	8.8 U	8.4 U	8.4 U	8.5 U	9.1 U	8.5 U
SW8260	ETHYLBENZENE	ug/kg	10.9	0.82 J	1 J	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U
SW8260	NAPHTHALENE	ug/kg	98.3	22.7	23.5	4.7 J	3 J	8.5 U	9.1 U	8.5 U
SW8260	O-XYLENE	ug/kg	4.7	1.1 J	1.8	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U
SW8260	TOLUENE	ug/kg	0.71 J	1.8 U	1.8	1.7 U	0.61 J	0.62 J	0.79 J	0.5 J
SW8260	XYLENES, M & P	ug/kg	5.9	1.5 J	2.4 J	3.4 U	3.4 U	3.4 U	3.7 U	3.4 U
SW8260	XYLENES, TOTAL	ug/kg	10.6	2.6 J	4.2	3.4 U	3.4 U	3.4 U	3.7 U	3.4 U
SW8270	ACENAPHTHENE	ug/kg	1760	57.5	118	85.2	4.4 U	4.6 U	4.6 U	4.7 U
SW8270	ACENAPHTHYLENE	ug/kg	576	123	84.6	40.6	4.4 U	4.6 U	4.6 U	4.7 U
SW8270	ANTHRACENE	ug/kg	2050	186	329	177	4.4 U	4.6 U	4.6 U	4.7 U
SW8270	BENZO(A)ANTHRACENE	ug/kg	1630	121	236	152	8.87	4.6 U	4.6 U	4.7 U
SW8270	BENZO(A)PYRENE	ug/kg	878	42.2	100	61.3	4.4 U	4.6 U	4.6 U	4.7 U
SW8270	BENZO(B)FLUORANTHENE	ug/kg	876	61.5	148	102	4.4 U	4.6 U	4.6 U	4.7 U
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	201 J	16.2	35.9	21.8	4.4 U	4.6 U	4.6 U	4.7 U
SW8270	BENZO(K)FLUORANTHENE	ug/kg	918	73.9	154	91.5	4.4 U	4.6 U	4.6 U	4.7 U
SW8270	CHRYSENE	ug/kg	1180	83 J	150	105 J	6 J	4.6 U	4.6 U	4.7 U
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	105 J	4.9 U	18.1	12.1	4.4 U	4.6 U	4.6 U	4.7 U
SW8270	FLUORANTHENE	ug/kg	3320	222	715	446	10.4	4.6 U	4.6 U	4.7 U
SW8270	FLUORENE	ug/kg	2070	178	198	117	4.4 U	4.6 U	4.6 U	4.7 U
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	257	20.1	44.2	31.6	4.4 U	4.6 U	4.6 U	4.7 U
SW8270	PHENANTHRENE	ug/kg	4420	572	177	129	16.2	4.6 U	4.6 U	4.7 U
SW8270	PHENOL	ug/kg								
SW8270	PYRENE	ug/kg	1990	162	392	171	8.25	4.6 U	4.6 U	4.7 U
SW9045	pH	S.U.	8	7.62	7.92	7.65	7.5	7.37	7.41	7.37

**Table A1  
Validated Sediment, SMU-5 Sediment, and Follow-Up Sediment Analytical Data**

		Location	OL-VC-20206	OL-VC-20206	OL-VC-20207	OL-VC-20207	OL-VC-20207	OL-VC-20207	OL-VC-20207	OL-VC-20207
		Sample Depth	8-9 Ft	9-9.6 Ft	0-1 Ft	1-2 Ft	2-3 Ft	3-4 Ft	4-5 Ft	4-5 Ft
		Field Sample ID	OL-1297-09	OL-1297-10	OL-1294-03	OL-1294-04	OL-1294-05	OL-1294-06	OL-1294-07	OL-1294-08
		Sample Date	6/14/2010	6/14/2010	6/11/2010	6/11/2010	6/11/2010	6/11/2010	6/11/2010	6/11/2010
		SDG	JA49064	JA49064	JA48910	JA48910	JA48910	JA48910	JA48910	JA48910
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Field duplicate
		Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Method	Parameter Name	Units								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	8610	7640	6660	5500	5650	6450	5630	6210
SM2540G	SOLIDS, PERCENT	%	61	63.5	60.9	58.7	57.7	57.8	61.6	60.1
SW7471	MERCURY	mg/kg	0.019 U	0.018 U	0.019 U	0.019 U	0.019 U	0.019 U	0.018 U	0.02 U
SW8082	AROCLOR-1016	ug/kg	5.4 U	5.2 U	5.4 U	5.5 U	5.7 U	5.7 U	5.3 U	5.4 U
SW8082	AROCLOR-1221	ug/kg	5.4 U	5.2 U	5.4 U	5.5 U	5.7 U	5.7 U	5.3 U	5.4 U
SW8082	AROCLOR-1232	ug/kg	5.4 U	5.2 U	5.4 U	5.5 U	5.7 U	5.7 U	5.3 U	5.4 U
SW8082	AROCLOR-1242	ug/kg	5.4 U	5.2 U	5.4 U	5.5 U	5.7 U	5.7 U	5.3 U	5.4 U
SW8082	AROCLOR-1248	ug/kg	5.4 U	5.2 U	5.4 U	5.5 U	5.7 U	5.7 U	5.3 U	5.4 U
SW8082	AROCLOR-1254	ug/kg	5.4 U	5.2 U	5.4 U	5.5 U	5.7 U	5.7 U	5.3 U	5.4 U
SW8082	AROCLOR-1260	ug/kg	5.4 U	5.2 U	5.4 U	5.5 U	5.7 U	5.7 U	5.3 U	5.4 U
SW8082	AROCLOR-1268	ug/kg	5.4 U	5.2 U	5.4 U	5.5 U	5.7 U	5.7 U	5.3 U	5.4 U
SW8082	PCBS, N.O.S.	ug/kg	5.4 U	5.2 U	5.4 U	5.5 U	5.7 U	5.7 U	5.3 U	5.4 U
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	8.9 U	7.9 U	8.9 U	8.7 U	9.3 U	9.5 U	36 U	8.9 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	8.9 U	7.9 U	8.9 U	8.7 U	9.3 U	9.5 U	36 U	8.9 U
SW8260	1,2-DICHLOROBENZENE	ug/kg	8.9 U	7.9 U	8.9 U	8.7 U	9.3 U	9.5 U	36 U	8.9 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	8.9 U	7.9 U	8.9 U	8.7 U	9.3 U	9.5 U	36 U	8.9 U
SW8260	1,3-DICHLOROBENZENE	ug/kg	8.9 U	7.9 U	8.9 U	8.7 U	9.3 U	9.5 U	36 U	8.9 U
SW8260	1,4-DICHLOROBENZENE	ug/kg	8.9 U	7.9 U	8.9 U	8.7 U	9.3 U	9.5 U	36 U	8.9 U
SW8260	BENZENE	ug/kg	6.9	2.8	2290	3340	3010	1590	750	850
SW8260	CHLOROBENZENE	ug/kg	8.9 U	7.9 U	2.3 J	2.1 J	0.82 J	9.5 U	36 U	8.9 U
SW8260	ETHYLBENZENE	ug/kg	1.8 U	1.6 U	66	60	19.7	4.5	7.1 U	1.8
SW8260	NAPHTHALENE	ug/kg	8.9 U	7.9 U	1190	221	274	6.4 J	9.3 J	8 J
SW8260	O-XYLENE	ug/kg	1.8 U	1.6 U	41.8	24.1	24.1	1.9 U	7.1 U	1.8 U
SW8260	TOLUENE	ug/kg	1.8 U	1.6 U	75.2	37.9	49.9	2.3	3.1 J	1.8
SW8260	XYLENES, M & P	ug/kg	3.6 U	3.1 U	94.4	52.9	61	1.5 J	14 U	1.5 J
SW8260	XYLENES, TOTAL	ug/kg	3.6 U	3.1 U	136	77	85.1	2.1 J	14 U	2.1 J
SW8270	ACENAPHTHENE	ug/kg	4.6 U	4.4 U	919	333	90.4	25.8	104 J	18.6 J
SW8270	ACENAPHTHYLENE	ug/kg	4.6 U	4.4 U	2170	826	240	64.6	81.7 J	37.5 J
SW8270	ANTHRACENE	ug/kg	4.6 U	4.4 U	2760	1270	460	115	297 J	59.6 J
SW8270	BENZO(A)ANTHRACENE	ug/kg	4.6 U	4.4 U	2070	868	242	77.2	173 J	45.4 J
SW8270	BENZO(A)PYRENE	ug/kg	4.6 U	4.4 U	1100	457	91.6	29.6	65.3 J	19 J
SW8270	BENZO(B)FLUORANTHENE	ug/kg	4.6 U	4.4 U	1030	471	129	43.7	85.5 J	26.2 J
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	4.6 U	4.4 U	219	91.6	42.8	13.1	28.6 J	8.73 J
SW8270	BENZO(K)FLUORANTHENE	ug/kg	4.6 U	4.4 U	1130	420	80.9	19.8	61.6 J	15.2 J
SW8270	CHRYSENE	ug/kg	4.6 U	4.4 U	1540	672	163	50.5	119 J	30.9 J
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	4.6 U	4.4 U	141	86.2	22	5.79	12.2 J	4.84 J
SW8270	FLUORANTHENE	ug/kg	4.6 U	4.4 U	4150	1970	732	139	507 J	75.3 J
SW8270	FLUORENE	ug/kg	4.6 U	4.4 U	3030	1210	448	109	207 J	51.9 J
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	4.6 U	4.4 U	332	123	52	16.2	37.1 J	10.9 J
SW8270	PHENANTHRENE	ug/kg	4.6 U	4.4 U	8030	2820	1110	335	723 J	157 J
SW8270	PHENOL	ug/kg								
SW8270	PYRENE	ug/kg	4.6 U	4.4 U	2600	1140	436	94.6	215 J	54.9 J
SW9045	pH	S.U.	7.46	7.38	7.46	7.5	7.4	7.43	7.44	7.37

**Table A1  
Validated Sediment, SMU-5 Sediment, and Follow-Up Sediment Analytical Data**

		Location	OL-VC-20207	OL-VC-20207	OL-VC-20207	OL-VC-20207	OL-VC-20207	OL-VC-20208	OL-VC-20208	OL-VC-20208
		Sample Depth	5-6 Ft	6-7 Ft	7-8 Ft	8-9 Ft	9-10 Ft	0-1 Ft	1-2 Ft	2-3 Ft
		Field Sample ID	OL-1294-09	OL-1294-10	OL-1294-11	OL-1294-12	OL-1294-13	OL-1298-09	OL-1298-10	OL-1298-11
		Sample Date	6/11/2010	6/11/2010	6/11/2010	6/11/2010	6/11/2010	6/14/2010	6/14/2010	6/14/2010
		SDG	JA48910	JA48910	JA48910	JA48910	JA48910	JA49065	JA49065	JA49065
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Method	Parameter Name	Units								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	6900	6500	6140	6910	8620 J	3410 J	2090 J	3040 J
SM2540G	SOLIDS, PERCENT	%	58.9	57.7	55.6	60	45.3	89.5	93.8	93.6
SW7471	MERCURY	mg/kg	0.019 U	0.02 U	0.019 U	0.019 U	0.026 UJ	0.19	0.068	0.035
SW8082	AROCLOR-1016	ug/kg	5.6 U	5.7 U	5.9 U	5.5 U	7.2 UJ	3.7 U	3.6 U	3.5 U
SW8082	AROCLOR-1221	ug/kg	5.6 U	5.7 U	5.9 U	5.5 U	7.2 UJ	3.7 U	3.6 U	3.5 U
SW8082	AROCLOR-1232	ug/kg	5.6 U	5.7 U	5.9 U	5.5 U	7.2 UJ	3.7 U	3.6 U	3.5 U
SW8082	AROCLOR-1242	ug/kg	5.6 U	5.7 U	5.9 U	5.5 U	7.2 UJ	11.3 J	5.1	3.5 U
SW8082	AROCLOR-1248	ug/kg	5.6 U	5.7 U	5.9 U	5.5 U	7.2 UJ	3.7 U	3.6 U	3.5 U
SW8082	AROCLOR-1254	ug/kg	5.6 U	5.7 U	5.9 U	5.5 U	7.2 UJ	56 J	22.6	7.5 J
SW8082	AROCLOR-1260	ug/kg	5.6 U	5.7 U	5.9 U	5.5 U	7.2 UJ	3.7 U	3.6 U	3.5 U
SW8082	AROCLOR-1268	ug/kg	5.6 U	5.7 U	5.9 U	5.5 U	7.2 UJ	39.6 J	19.9 J	4.4 J
SW8082	PCBS, N.O.S.	ug/kg	5.6 U	5.7 U	5.9 U	5.5 U	7.2 UJ	107 J	47.6 J	12 J
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	8.9 U	9 U	9.9 U	8.9 U	11 UJ	5.6 U	5.6 U	5.9 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	8.9 U	9 U	9.9 U	8.9 U	11 UJ	5.6 U	5.6 U	5.9 U
SW8260	1,2-DICHLOROBENZENE	ug/kg	8.9 U	9 U	9.9 U	8.9 U	11 UJ	2.4 J	1.3 J	1 J
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	8.9 UJ	9 U	9.9 U	8.9 U	11 UJ	5.6 U	5.6 U	5.9 U
SW8260	1,3-DICHLOROBENZENE	ug/kg	8.9 U	9 U	9.9 U	8.9 U	11 UJ	5.6 U	5.6 U	5.9 U
SW8260	1,4-DICHLOROBENZENE	ug/kg	8.9 U	9 U	9.9 U	8.9 U	11 UJ	2 J	2.6 J	1.5 J
SW8260	BENZENE	ug/kg	618	238	173	75.7	49 J	2.6	8.6	23.3
SW8260	CHLOROBENZENE	ug/kg	8.9 U	9 U	9.9 U	8.9 U	11 UJ	16.8	35.5	7.7
SW8260	ETHYLBENZENE	ug/kg	1.8 U	1.8 U	2 U	1.8 U	2.2 UJ	1.1 U	1.1 U	0.72 J
SW8260	NAPHTHALENE	ug/kg	8.9 U	9 U	9.9 U	8.9 U	11 UJ	0.98 J	1.9 J	8.3
SW8260	O-XYLENE	ug/kg	1.8 U	1.8 U	2 U	1.8 U	2.2 UJ	1.1 U	1.1 U	1.2 U
SW8260	TOLUENE	ug/kg	1.8 U	1.8 U	2 U	1.8 U	2.2 UJ	1.1 U	0.45 J	1.2 U
SW8260	XYLENES, M & P	ug/kg	3.6 U	3.6 U	4 U	3.6 U	4.5 UJ	2.2 U	2.3 U	2.4 U
SW8260	XYLENES, TOTAL	ug/kg	3.6 U	3.6 U	4 U	3.6 U	4.5 UJ	2.2 U	2.3 U	2.4 U
SW8270	ACENAPHTHENE	ug/kg	4.8 U	4.9 U	5.1 U	4.7 U	6.3 UJ	193	39.7	32.7
SW8270	ACENAPHTHYLENE	ug/kg	16.6 J	4.9 U	5.1 U	4.7 U	6.3 UJ	88.8	42.3	47
SW8270	ANTHRACENE	ug/kg	24 J	4.9 U	5.1 U	4.7 U	6.3 UJ	582	125	103
SW8270	BENZO(A)ANTHRACENE	ug/kg	17.5 J	4.9 U	5.1 U	4.7 U	6.3 UJ	1200	298	78.9
SW8270	BENZO(A)PYRENE	ug/kg	8.12 J	4.9 U	5.1 U	4.7 U	6.3 UJ	928	238	65.9
SW8270	BENZO(B)FLUORANTHENE	ug/kg	9.02 J	4.9 U	5.1 U	4.7 U	6.3 UJ	786	224	84.8 J
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	4.8 U	4.9 U	5.1 U	4.7 U	6.3 UJ	561	109	42.8
SW8270	BENZO(K)FLUORANTHENE	ug/kg	7.71 J	4.9 U	5.1 U	4.7 U	6.3 UJ	841	187	63.7
SW8270	CHRYSENE	ug/kg	14.4 J	4.9 U	5.1 U	4.7 U	6.3 UJ	1240	149	65.6
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	4.8 U	4.9 U	5.1 U	4.7 U	6.3 UJ	234	55.5	16.1
SW8270	FLUORANTHENE	ug/kg	27.3 J	4.9 U	5.1 U	4.7 U	6.3 UJ	2110	585	288
SW8270	FLUORENE	ug/kg	22.7 J	4.9 U	5.1 U	4.7 U	6.3 UJ	195	58.3	54.8
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	4.65 J	4.9 U	5.1 U	4.7 U	6.3 UJ	577	116	41.7
SW8270	PHENANTHRENE	ug/kg	59.1 J	4.9 U	5.1 U	4.7 U	6.3 UJ	1910	515	235
SW8270	PHENOL	ug/kg								
SW8270	PYRENE	ug/kg	19.8 J	4.9 U	5.1 U	4.7 U	6.3 UJ	2130	564	269
SW9045	pH	S.U.	7.37	7.41	7.4	7.55	7.44 J	7.62	7.99	8.23

**Table A1  
Validated Sediment, SMU-5 Sediment, and Follow-Up Sediment Analytical Data**

		Location	OL-VC-20208	OL-VC-20208	OL-VC-20208	OL-VC-20208	OL-VC-20208	OL-VC-20208	OL-VC-20208	OL-VC-20209	OL-VC-20209
		Sample Depth	3-4 Ft	4-5 Ft	4-5 Ft	6-7 Ft	5-6 Ft	7-8 Ft	0-1 Ft	1-2 Ft	
		Field Sample ID	OL-1298-12	OL-1298-13	OL-1298-14	OL-1298-15	OL-1298-16	OL-1298-17	OL-1297-11	OL-1297-12	
		Sample Date	6/14/2010	6/14/2010	6/14/2010	6/14/2010	6/14/2010	6/14/2010	6/14/2010	6/14/2010	
		SDG	JA49065	JA49065	JA49065	JA49065	JA49065	JA49065	JA49064	JA49064	
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Sample Purpose	Regular sample	Regular sample	Field duplicate	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
		Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	
Method	Parameter Name	Units									
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	371000 J	8460 J	11800 J	6960 J	7520 J	10800 J	3040	9760	
SM2540G	SOLIDS, PERCENT	%	64.9	61.3	58.7	71.6	60.1	47.4	90.1	82.6	
SW7471	MERCURY	mg/kg	0.16	0.019 U	0.019 U	0.016 U	0.019 U	0.023 UJ	0.06	0.062	
SW8082	AROCLOR-1016	ug/kg	5.1 U	5.4 U	5.7 U	4.7 U	5.5 U	7 UJ	3.7 U	4 U	
SW8082	AROCLOR-1221	ug/kg	5.1 U	5.4 U	5.7 U	4.7 U	5.5 U	7 UJ	3.7 U	4 U	
SW8082	AROCLOR-1232	ug/kg	5.1 U	5.4 U	5.7 U	4.7 U	5.5 U	7 UJ	24.7 J	4 U	
SW8082	AROCLOR-1242	ug/kg	5.1 U	5.4 U	5.7 U	4.7 U	5.5 U	7 UJ	3.7 U	4 U	
SW8082	AROCLOR-1248	ug/kg	5.1 U	5.4 U	5.7 U	4.7 U	5.5 U	7 UJ	3.7 U	4 U	
SW8082	AROCLOR-1254	ug/kg	10.2 J	5.4 U	5.7 U	4.7 U	5.5 U	7 UJ	22 J	9.4 J	
SW8082	AROCLOR-1260	ug/kg	5.1 U	5.4 U	5.7 U	4.7 U	5.5 U	7 UJ	10.9 J	4 U	
SW8082	AROCLOR-1268	ug/kg	5.1 U	5.4 U	5.7 U	4.7 U	5.5 U	7 UJ	3.7 U	4 U	
SW8082	PCBS, N.O.S.	ug/kg	10.2 J	5.4 U	5.7 U	4.7 U	5.5 U	7 UJ	57.6 J	9.4 J	
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	35 U	8.6 U	8.5 U	7.1 U	8.5 U	10 UJ	5.9 U	850 U	
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	35 U	8.6 U	8.5 U	7.1 U	8.5 U	10 UJ	5.9 U	850 U	
SW8260	1,2-DICHLOROBENZENE	ug/kg	15.2 J	8.6 U	8.5 U	7.1 U	8.5 U	10 UJ	0.34 J	850 U	
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	35 U	8.6 U	8.5 U	7.1 U	8.5 UJ	10 UJ	5.9 U	850 U	
SW8260	1,3-DICHLOROBENZENE	ug/kg	35 U	8.6 U	8.5 U	7.1 U	8.5 U	10 UJ	5.9 U	850 U	
SW8260	1,4-DICHLOROBENZENE	ug/kg	20.7 J	8.6 U	8.5 U	7.1 U	8.5 U	10 UJ	0.65 J	84.5 J	
SW8260	BENZENE	ug/kg	134	60.4	56.5	12.3	44.1 J	10.6 J	2.1	8000	
SW8260	CHLOROBENZENE	ug/kg	25.6 J	1.5 J	1.1 J	7.1 U	8.5 U	10 UJ	5.9 U	173 J	
SW8260	ETHYLBENZENE	ug/kg	32.1	2	1.6 J	1.4 U	1.7 U	2 UJ	0.89 J	1860	
SW8260	NAPHTHALENE	ug/kg	76.1	11.2	7.9 J	7.1 U	8.5 U	10 UJ	0.87 J	38800	
SW8260	O-XYLENE	ug/kg	4.1 J	1.7 U	1.7 U	1.4 U	1.7 U	2 UJ	1.2 U	143 J	
SW8260	TOLUENE	ug/kg	3.9 J	1.7 U	1.7 U	1.4 U	1.7 U	2 UJ	1.2 U	80 J	
SW8260	XYLENES, M & P	ug/kg	4.4 J	3.5 U	3.4 U	2.9 U	3.4 U	4.1 UJ	0.96 J	293 J	
SW8260	XYLENES, TOTAL	ug/kg	8.5 J	3.5 U	3.4 U	2.9 U	3.4 U	4.1 UJ	0.96 J	436	
SW8270	ACENAPHTHENE	ug/kg	1280	43.1 J	11.4 J	4 U	4.7 U	6 UJ	56.9	668	
SW8270	ACENAPHTHYLENE	ug/kg	1710	44.3 J	4.9 UJ	4 U	4.7 U	6 UJ	93.5	283	
SW8270	ANTHRACENE	ug/kg	2920	130 J	4.9 UJ	4 U	4.7 U	12.2 J	77.7	752	
SW8270	BENZO(A)ANTHRACENE	ug/kg	2360	110 J	4.9 UJ	4 U	4.7 U	16.1 J	257	473	
SW8270	BENZO(A)PYRENE	ug/kg	1440	82.1 J	4.9 UJ	4 U	4.7 U	6 UJ	95.1	252	
SW8270	BENZO(B)FLUORANTHENE	ug/kg	1520	108 J	4.9 UJ	4 UJ	4.7 UJ	6 UJ	191	215	
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	825	51.1 J	4.9 UJ	4 U	4.7 U	6 UJ	44.1	56.2	
SW8270	BENZO(K)FLUORANTHENE	ug/kg	1070	82 J	4.9 UJ	4 U	4.7 U	6 UJ	157	286	
SW8270	CHRYSENE	ug/kg	2360	97.4 J	4.9 UJ	4 U	4.7 U	16.6 J	220	385	
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	320	17.5 J	4.9 UJ	4 U	4.7 U	6 UJ	21.7	29.2	
SW8270	FLUORANTHENE	ug/kg	5400	229 J	5.58 J	12.4	4.7 U	32.6 J	636	1200	
SW8270	FLUORENE	ug/kg	94.5	58.5 J	10.4 J	12	4.7 U	6 UJ	976	3250	
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	885	50.5 J	4.9 UJ	4 U	4.7 U	6 UJ	49.5	69.8	
SW8270	PHENANTHRENE	ug/kg	8960	406 J	13.4 J	10.5	4.7 U	45 J	116	1710	
SW8270	PHENOL	ug/kg									
SW8270	PYRENE	ug/kg	4080	180 J	4.9 J	10.4	4.7 U	27.9 J	449	671	
SW9045	pH	S.U.	7.98	7.69	7.48	7.69	7.6	7.65 J	7.64	7.93	

**Table A1  
Validated Sediment, SMU-5 Sediment, and Follow-Up Sediment Analytical Data**

		Location	OL-VC-20209	OL-VC-20209	OL-VC-20209	OL-VC-20209	OL-VC-20209	OL-VC-20209	OL-VC-20209	OL-VC-30157
		Sample Depth	2-3 Ft	2-3 Ft	3-4 Ft	4-5 Ft	5-6 Ft	6-7 Ft	7-8 Ft	0-1 Ft
		Field Sample ID	OL-1297-13	OL-1297-14	OL-1297-15	OL-1297-16	OL-1297-17	OL-1297-18	OL-1297-19	OL-1300-04
		Sample Date	6/14/2010	6/14/2010	6/14/2010	6/14/2010	6/14/2010	6/14/2010	6/14/2010	6/14/2010
		SDG	JA49064	JA49064	JA49064	JA49064	JA49064	JA49064	JA49064	JA49066
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Field duplicate	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Method	Parameter Name	Units								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	11300	27900	50800	9480	8160	9150	10700	25700 J
SM2540G	SOLIDS, PERCENT	%	65.6	65.2	69.9	59.9	60.6	64.9	54.6	39.1
SW7471	MERCURY	mg/kg	0.044 J	0.077	0.094	0.02 U	0.018 U	0.017 U	0.02 U	8.4 J
SW8082	AROCLOR-1016	ug/kg	5.1 U	5.1 U	4.8 U	5.5 U	5.5 U	5.1 U	6.1 U	8.3 U
SW8082	AROCLOR-1221	ug/kg	5.1 U	5.1 U	4.8 U	5.5 U	5.5 U	5.1 U	6.1 U	8.3 U
SW8082	AROCLOR-1232	ug/kg	11.9 J	5.1 U	4.8 U	5.5 U	5.5 U	5.1 U	6.1 U	8.3 U
SW8082	AROCLOR-1242	ug/kg	5.1 U	5.1 U	4.8 U	5.5 U	5.5 U	5.1 U	6.1 U	71.2 J
SW8082	AROCLOR-1248	ug/kg	5.1 U	5.1 U	4.8 U	5.5 U	5.5 U	5.1 U	6.1 U	8.3 U
SW8082	AROCLOR-1254	ug/kg	5.1 U	5.1 U	4.8 U	5.5 U	5.5 U	5.1 U	6.1 U	152 J
SW8082	AROCLOR-1260	ug/kg	5.1 U	5.1 U	4.8 U	5.5 U	5.5 U	5.1 U	6.1 U	57.1 J
SW8082	AROCLOR-1268	ug/kg	5.1 U	5.1 U	4.8 U	5.5 U	5.5 U	5.1 U	6.1 U	8.3 U
SW8082	PCBS, N.O.S.	ug/kg	11.9 J	5.1 U	4.8 U	5.5 U	5.5 U	5.1 U	6.1 U	280 J
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	9900 U	5500 U	9800 U	560 U	8.4 U	15 U	23 U	12 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	9900 U	5500 U	9800 U	560 U	8.4 U	15 U	23 U	12 U
SW8260	1,2-DICHLOROBENZENE	ug/kg	544 J	5500 U	9800 U	560 U	8.4 U	15 U	23 U	0.98 J
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	9900 U	5500 U	9800 U	560 U	8.4 U	15 U	23 U	1.3 J
SW8260	1,3-DICHLOROBENZENE	ug/kg	9900 U	5500 U	9800 U	560 U	8.4 U	15 U	23 U	1.4 J
SW8260	1,4-DICHLOROBENZENE	ug/kg	879 J	5500 U	9800 U	560 U	8.4 U	15 U	23 U	3.3 J
SW8260	BENZENE	ug/kg	212000 J	66300 J	60400	9170	3750	547	509	1.6 J
SW8260	CHLOROBENZENE	ug/kg	2370 J	1060 J	837 J	54 J	5 J	15 U	23 U	2.1 J
SW8260	ETHYLBENZENE	ug/kg	31900 J	17000 J	17700	865	70.1	7.7	13.3	2.4 U
SW8260	NAPHTHALENE	ug/kg	530000 J	292000 J	362000	17300	2940	35.9	181	12 U
SW8260	O-XYLENE	ug/kg	5030	2830	2020	85.4 J	12.4	4.6	2.7 J	2.4 U
SW8260	TOLUENE	ug/kg	1480 J	744 J	745 J	37.9 J	9.7	4.3	3.1 J	2.4 U
SW8260	XYLENES, M & P	ug/kg	14100	20700	61200	790	127	18.1	13.5	4.7 U
SW8260	XYLENES, TOTAL	ug/kg	19100	23500	63200	875	139	22.6	16.2	4.7 U
SW8270	ACENAPHTHENE	ug/kg	104	93.4	92.4 J	51.4	4.7 U	4.4 U	5.2 U	24 J
SW8270	ACENAPHTHYLENE	ug/kg	1820	2180	1030	170	4.7 U	4.4 U	5.2 U	22.5 J
SW8270	ANTHRACENE	ug/kg	2240	3070	1410	202	4.7 U	4.4 U	5.2 U	25.8 J
SW8270	BENZO(A)ANTHRACENE	ug/kg	1740	2470	1290	210	4.7 U	4.4 U	5.2 U	38.6 J
SW8270	BENZO(A)PYRENE	ug/kg	1140 J	1300	916 J	120	4.7 U	4.4 U	5.2 U	38 J
SW8270	BENZO(B)FLUORANTHENE	ug/kg	1250 J	1210	926 J	161 J	4.7 U	4.4 U	5.2 U	50.8 J
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	250 J	252 J	188 J	37.7	4.7 U	4.4 U	5.2 U	32.1 J
SW8270	BENZO(K)FLUORANTHENE	ug/kg	1280 J	1170	1020 J	104	4.7 U	4.4 U	5.2 U	46 J
SW8270	CHRYSENE	ug/kg	1480	2090	1170	179 J	4.7 U	4.4 U	5.2 U	49.1 J
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	134	144	127 J	26.7	4.7 U	4.4 U	5.2 U	12.7 J
SW8270	FLUORANTHENE	ug/kg	3940	5150	2900	746	4.7 U	4.4 U	6.92	127 J
SW8270	FLUORENE	ug/kg	30500	28500	31300	9520	11.3	4.4 U	32.2	15.6 J
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	312 J	320 J	234 J	41.9	4.7 U	4.4 U	5.2 U	23.1 J
SW8270	PHENANTHRENE	ug/kg	7820	8040	5230	1140	4.7 U	4.4 U	5.2 U	83.1 J
SW8270	PHENOL	ug/kg								866 J
SW8270	PYRENE	ug/kg	3300	3240	2340	483	4.7 U	4.4 U	6.18	169 J
SW9045	pH	S.U.	7.98	7.95	8.12	7.68	7.54	7.69	7.63	9.26 J

**Table A1  
Validated Sediment, SMU-5 Sediment, and Follow-Up Sediment Analytical Data**

		Location	OL-VC-30157	OL-VC-30157	OL-VC-30157	OL-VC-30158	OL-VC-30158	OL-VC-30158	OL-VC-30173	OL-VC-30173
		Sample Depth	1-2 Ft	1-2 Ft	2-3 Ft	0-1 Ft	1-2 Ft	2-3 Ft	0-1 Ft	1-2 Ft
		Field Sample ID	OL-1300-05	OL-1300-06	OL-1300-07	OL-1300-08	OL-1300-09	OL-1300-10	OL-1300-01	OL-1300-02
		Sample Date	6/14/2010	6/14/2010	6/14/2010	6/14/2010	6/14/2010	6/14/2010	6/14/2010	6/14/2010
		SDG	JA49066	JA49066	JA49066	JA49066	JA49066	JA49066	JA49066	JA49066
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Field duplicate	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Method	Parameter Name	Units								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	8940 J	7870 J	3490 J	29000 J	43200 J	17000 J	12000	18300
SM2540G	SOLIDS, PERCENT	%	28.8	34.7	43.5	45.7	39.6	43	59.6	58.4
SW7471	MERCURY	mg/kg	0.1 J	0.41 J	0.083 J	2.4 J	17.2 J	1.2 J	2.3	9.9
SW8082	AROCLOR-1016	ug/kg	11 UJ	9.4 UJ	7.5 UJ	7.1 UJ	8.4 UJ	7.6 UJ	5.6 U	5.6 U
SW8082	AROCLOR-1221	ug/kg	11 UJ	9.4 UJ	7.5 UJ	7.1 UJ	8.4 UJ	7.6 UJ	5.6 U	5.6 U
SW8082	AROCLOR-1232	ug/kg	11 UJ	9.4 UJ	7.5 UJ	7.1 UJ	8.4 UJ	7.6 UJ	5.6 U	5.6 U
SW8082	AROCLOR-1242	ug/kg	11 UJ	9.4 UJ	7.5 UJ	61.7 J	1060 J	16.2 J	82.3	109 J
SW8082	AROCLOR-1248	ug/kg	11 UJ	9.4 UJ	7.5 UJ	7.1 UJ	8.4 UJ	7.6 UJ	5.6 U	5.6 U
SW8082	AROCLOR-1254	ug/kg	11 UJ	9.4 UJ	7.5 UJ	45.7 J	489 J	21.3 J	36.4 J	115 J
SW8082	AROCLOR-1260	ug/kg	11 UJ	9.4 UJ	7.5 UJ	19.7 J	167 J	16.6 J	5.6 U	5.6 U
SW8082	AROCLOR-1268	ug/kg	11 UJ	9.4 UJ	7.5 UJ	7.1 UJ	8.4 UJ	7.6 UJ	34 J	34.8 J
SW8082	PCBS, N.O.S.	ug/kg	11 UJ	9.4 UJ	7.5 UJ	127 J	1720 J	54.1 J	153	259 J
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	19 UJ	16 UJ	12 UJ	12 UJ	14 UJ	13 UJ	8.6 U	8.9 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	19 UJ	16 UJ	12 UJ	12 UJ	14 UJ	13 UJ	8.6 U	8.9 U
SW8260	1,2-DICHLOROBENZENE	ug/kg	19 UJ	16 UJ	12 UJ	12 UJ	1.6 J	1.4 J	8.6 U	8.9 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	19 UJ	16 UJ	12 UJ	12 UJ	14 UJ	13 UJ	8.6 UJ	8.9 U
SW8260	1,3-DICHLOROBENZENE	ug/kg	19 UJ	16 UJ	12 UJ	1 J	2.8 J	13 UJ	1 J	1.9 J
SW8260	1,4-DICHLOROBENZENE	ug/kg	1.4 J	1.1 J	12 UJ	2.4 J	5.9 J	2.6 J	1.5 J	1.7 J
SW8260	BENZENE	ug/kg	7.2 J	7.9 J	5.9 J	2.3 UJ	20.5 J	475 J	1.7 U	1.8 U
SW8260	CHLOROBENZENE	ug/kg	19 UJ	16 UJ	12 UJ	2.2 J	2.3 J	1.8 J	0.79 J	0.85 J
SW8260	ETHYLBENZENE	ug/kg	3.8 UJ	3.2 UJ	2.4 UJ	2.3 UJ	2.7 UJ	4.3 J	1.7 U	1.8 U
SW8260	NAPHTHALENE	ug/kg	8.2 J	6.1 J	9.4 J	12 UJ	6.3 J	82.3 J	8.6 U	8.9 U
SW8260	O-XYLENE	ug/kg	3.8 UJ	3.2 UJ	1.6 J	2.3 UJ	4 J	21.5 J	1.7 U	1.8 U
SW8260	TOLUENE	ug/kg	3.6 J	3.5 J	2.9 J	2.3 UJ	1.9 J	211 J	1.3 J	0.94 J
SW8260	XYLENES, M & P	ug/kg	1.9 J	1.5 J	2 J	4.7 UJ	3.2 J	24.5 J	3.4 U	3.6 U
SW8260	XYLENES, TOTAL	ug/kg	3.4 J	2.8 J	3.6 J	1.2 J	7.3 J	46 J	3.4 U	3.6 U
SW8270	ACENAPHTHENE	ug/kg	9.9 UJ	8.2 UJ	6.6 UJ	6.2 UJ	33.3 J	21.1 J	4.8 U	12.6
SW8270	ACENAPHTHYLENE	ug/kg	33.7 J	8.2 UJ	6.6 UJ	16.1 J	19.7 J	33.4 J	7.77	15.9
SW8270	ANTHRACENE	ug/kg	54 J	25.4 J	6.6 UJ	11.2 J	44 J	45.4 J	17.7	36.6
SW8270	BENZO(A)ANTHRACENE	ug/kg	38.6 J	22.4 J	6.6 UJ	30.3 J	84.3 J	62.3 J	32	40.2
SW8270	BENZO(A)PYRENE	ug/kg	21.9 J	9.44 J	6.6 UJ	30.6 J	86.6 J	63.8 J	32.9	34.5
SW8270	BENZO(B)FLUORANTHENE	ug/kg	39 J	17.1 J	6.6 UJ	52.7 J	155 J	101 J	52.5 J	56.5 J
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	17.4 J	8.2 UJ	6.6 UJ	23.9 J	56.4 J	37.6 J	25.4	21.2
SW8270	BENZO(K)FLUORANTHENE	ug/kg	24.7 J	14.3 J	6.6 UJ	28.8 J	71.2 J	38.5 J	35.8	34.2
SW8270	CHRYSENE	ug/kg	34.3 J	23 J	6.6 UJ	35.9 J	104 J	59.6 J	32.2	50.1
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	9.9 UJ	8.2 UJ	6.6 UJ	8.8 J	23.9 J	25.8 J	10.3	7.89
SW8270	FLUORANTHENE	ug/kg	108 J	55.8 J	6.6 UJ	61.5 J	247 J	149 J	94.7	128
SW8270	FLUORENE	ug/kg	9.9 UJ	8.2 UJ	6.6 UJ	6.2 UJ	25.4 J	27.9 J	4.8 U	13.7
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	13.9 J	8.2 UJ	6.6 UJ	22.8 J	66 J	40.2 J	23.5	25.1
SW8270	PHENANTHRENE	ug/kg	46.1 J	30.6 J	6.6 UJ	25.2 J	156 J	115 J	30	94.1
SW8270	PHENOL	ug/kg	4430 J	3060 J	2080 J	62 UJ	72 UJ	1160 J	48 U	49 U
SW8270	PYRENE	ug/kg	101 J	47.8 J	6.6 UJ	64 J	257 J	179 J	90.2	143
SW9045	pH	S.U.	11.23 J	8.19 J	11.24 J	7.67 J	8.36 J	9.71 J	7.47	7.42



**Table A1  
Validated Sediment, SMU-5 Sediment, and Follow-Up Sediment Analytical Data**

		Location	OL-VC-30173	OL-VC-30174	OL-VC-30174	OL-VC-30174	OL-VC-30175	OL-VC-30175	OL-VC-30175	OL-VC-30181
		Sample Depth	2-3 Ft	0-1 Ft	1-2 Ft	2-3 Ft	0-1 Ft	1-2 Ft	2-3 Ft	0.00-1.00 Ft
		Field Sample ID	OL-1300-03	OL-1298-18	OL-1298-19	OL-1298-20	OL-1278-01	OL-1278-02	OL-1278-03	OL-1377-01
		Sample Date	6/14/2010	6/14/2010	6/14/2010	6/14/2010	6/9/2010	6/9/2010	6/9/2010	11/2/2010
		SDG	JA49066	JA49065	JA49065	JA49065	JA48616	JA48616	JA48616	JA60497
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Method	Parameter Name	Units								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	20300	10800 J	3730 J	8130 J	10700	14700	10700	14100 J
SM2540G	SOLIDS, PERCENT	%	60.4	30.8	25.3	36.4	56.7	56.1	58.1	60.6
SW7471	MERCURY	mg/kg	1.7	0.14 J	0.15 J	0.098 J	0.87 J	1.4 J	3.1 J	1.3
SW8082	AROCLOR-1016	ug/kg	5.5 U	11 UJ	13 UJ	9 UJ	5.8 U	5.9 U	5.7 U	5.5 U
SW8082	AROCLOR-1221	ug/kg	5.5 U	11 UJ	13 UJ	9 UJ	5.8 U	5.9 U	5.7 U	5.5 U
SW8082	AROCLOR-1232	ug/kg	5.5 U	11 UJ	13 UJ	9 UJ	5.8 U	5.9 U	5.7 U	5.5 U
SW8082	AROCLOR-1242	ug/kg	19 J	11 UJ	13 UJ	9 UJ	58.6	5.9 U	5.7 U	5.5 U
SW8082	AROCLOR-1248	ug/kg	5.5 U	11 UJ	13 UJ	9 UJ	5.8 U	5.9 U	5.7 U	111
SW8082	AROCLOR-1254	ug/kg	49.7 J	11 UJ	13 UJ	9 UJ	37.6 J	132 J	125 J	48.7
SW8082	AROCLOR-1260	ug/kg	17.7 J	11 UJ	13 UJ	9 UJ	16.6 J	37.7	71.3 J	20.7
SW8082	AROCLOR-1268	ug/kg	5.5 U	11 UJ	13 UJ	9 UJ	5.8 U	5.9 U	5.7 U	5.5 U
SW8082	PCBS, N.O.S.	ug/kg	86.4 J	11 UJ	13 UJ	9 UJ	113 J	170 J	196 J	180
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	8.1 U	17 UJ	23 UJ	16 UJ	9.2 U	630 U	600 U	610 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	8.1 U	17 UJ	23 UJ	16 UJ	9.2 U	630 U	600 U	610 U
SW8260	1,2-DICHLOROBENZENE	ug/kg	8.1 U	17 UJ	23 UJ	16 UJ	0.82 J	630 U	600 U	610 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	8.1 U	17 UJ	23 UJ	16 UJ	9.2 U	630 U	600 U	610 U
SW8260	1,3-DICHLOROBENZENE	ug/kg	8.1 U	17 UJ	23 UJ	16 UJ	1.1 J	630 U	600 U	610 U
SW8260	1,4-DICHLOROBENZENE	ug/kg	8.1 U	1.3 J	23 UJ	16 UJ	4.1 J	43.8 J	600 U	610 U
SW8260	BENZENE	ug/kg	1.6 U	16.3 J	20.1 J	12 J	295	3920	8940	3550
SW8260	CHLOROBENZENE	ug/kg	8.1 U	17 UJ	23 UJ	16 UJ	1.5 J	630 U	600 U	610 U
SW8260	ETHYLBENZENE	ug/kg	1.6 U	3.3 UJ	4.6 UJ	3.1 UJ	133	1830	2720	913
SW8260	NAPHTHALENE	ug/kg	8.1 U	9.8 J	16.4 J	7.2 J	297	15600	26300	46300
SW8260	O-XYLENE	ug/kg	1.6 U	2.9 J	4.7 J	2.3 J	144	3440	7840	3480
SW8260	TOLUENE	ug/kg	1.6 U	9.3 J	15.4 J	9.4 J	47.1	8480	28200	10900
SW8260	XYLENES, M & P	ug/kg	3.2 U	5.4 J	8.5 J	4.2 J	537	12600	29000	12500
SW8260	XYLENES, TOTAL	ug/kg	3.2 U	8.3 J	13.2 J	6.5 J	681	16000	36800	16000
SW8270	ACENAPHTHENE	ug/kg	10.1	22.9 J	24.5 J	7.8 UJ	22.4	28.5	52.6	19.8
SW8270	ACENAPHTHYLENE	ug/kg	15.3	31.7 J	11 UJ	7.8 UJ	25.4	36.8	68.1	32.7
SW8270	ANTHRACENE	ug/kg	22	24.2 J	12.7 J	7.8 UJ	28.9	26.8	114	55.9
SW8270	BENZO(A)ANTHRACENE	ug/kg	35.4	67.8 J	37.3 J	14.3 J	99	81.4	225	168
SW8270	BENZO(A)PYRENE	ug/kg	40.8	70 J	31.1 J	7.8 UJ	85.3	88.5	175	110
SW8270	BENZO(B)FLUORANTHENE	ug/kg	51.6 J	80.2 J	33.4 J	7.8 UJ	111	109	165	112
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	25.4	41.5 J	21.4 J	7.8 UJ	55.7	61.7	108	77
SW8270	BENZO(K)FLUORANTHENE	ug/kg	40.5	75.7 J	42 J	7.8 UJ	79.3	52.7	184	95.4
SW8270	CHRYSENE	ug/kg	46.4	66.2 J	37.8 J	17 J	101	94.3	338	145
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	9.5	25.8 J	11 UJ	7.8 UJ	17.2	7.74	41.6	37.9
SW8270	FLUORANTHENE	ug/kg	128	152 J	83.6 J	32.3 J	197	174	522	219
SW8270	FLUORENE	ug/kg	7.42	20.5 J	22.2 J	12.2 J	64.9	102	92.5	108
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	26.3	46.6 J	19.9 J	7.8 UJ	54.6	48.7	90.9	74
SW8270	PHENANTHRENE	ug/kg	76.9	77.1 J	69.3 J	7.8 UJ	130	201	503	153
SW8270	PHENOL	ug/kg	47 U	1190 J	2180 J	1250 J	53 U	54 U	202	117 J
SW8270	PYRENE	ug/kg	150	171 J	88.6 J	24.8 J	193	192	592	258
SW9045	pH	S.U.	7.27	11.15 J	11.62 J	11.74 J	7.34	7.73	7.84	9.05

**Table A1  
Validated Sediment, SMU-5 Sediment, and Follow-Up Sediment Analytical Data**

		Location	OL-VC-30181	OL-VC-30181	OL-VC-30182	OL-VC-30182	OL-VC-30182	OL-VC-30182	OL-VC-30183	OL-VC-30183
		Sample Depth	1.00-2.00 Ft	2.00-3.00 Ft	0.00-1.00 Ft	1.00-2.00 Ft	2.00-3.00 Ft	2.00-3.00 Ft	0.00-1.00 Ft	1.00-2.00 Ft
		Field Sample ID	OL-1377-02	OL-1377-03	OL-1377-04	OL-1377-05	OL-1377-06	OL-1377-07	OL-1377-08	OL-1377-09
		Sample Date	11/2/2010	11/2/2010	11/2/2010	11/2/2010	11/2/2010	11/2/2010	11/2/2010	11/2/2010
		SDG	JA60497	JA60497	JA60497	JA60497	JA60497	JA60497	JA60497	JA60497
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Field duplicate	Regular sample	Regular sample
		Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Method	Parameter Name	Units								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	10600 J	6810 J	15800 J	5280 J	7010 J	6220 J	32800 J	7490 J
SM2540G	SOLIDS, PERCENT	%	59.8	53.5	60.7	57.1	45.6	46.2	45.8	35.3
SW7471	MERCURY	mg/kg	2.1	1.5	0.83	0.061	0.021 UJ	0.027 J	0.72 J	0.33 J
SW8082	AROCLOR-1016	ug/kg	5.5 U	6.2 U	5.5 U	5.8 U	7.2 UJ	7.1 UJ	7.2 UJ	9.4 UJ
SW8082	AROCLOR-1221	ug/kg	5.5 U	6.2 U	5.5 U	5.8 U	7.2 UJ	7.1 UJ	7.2 UJ	9.4 UJ
SW8082	AROCLOR-1232	ug/kg	5.5 U	6.2 U	5.5 U	5.8 U	7.2 UJ	7.1 UJ	7.2 UJ	9.4 UJ
SW8082	AROCLOR-1242	ug/kg	5.5 U	6.2 U	5.5 U	5.8 U	7.2 UJ	7.1 UJ	7.2 UJ	9.4 UJ
SW8082	AROCLOR-1248	ug/kg	178	13.8 J	8.1	5.8 U	7.2 UJ	7.1 UJ	7.2 UJ	9.4 UJ
SW8082	AROCLOR-1254	ug/kg	92.7	9.4	5.5 U	5.8 U	7.2 UJ	7.1 UJ	7.2 UJ	9.4 UJ
SW8082	AROCLOR-1260	ug/kg	22.9	6.2 U	5.5 U	5.8 U	7.2 UJ	7.1 UJ	7.2 UJ	9.4 UJ
SW8082	AROCLOR-1268	ug/kg	5.5 U	6.2 U	5.5 U	5.8 U	7.2 UJ	7.1 UJ	7.2 UJ	9.4 UJ
SW8082	PCBS, N.O.S.	ug/kg	294	23.2 J	8.1	5.8 U	7.2 UJ	7.1 UJ	7.2 UJ	9.4 UJ
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	560 U	1700 U	1400 U	600 U	910 UJ	770 UJ	10 UJ	16 UJ
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	560 U	1700 U	1400 U	600 U	910 UJ	770 UJ	10 UJ	16 UJ
SW8260	1,2-DICHLOROBENZENE	ug/kg	560 U	1700 U	1400 U	600 U	910 UJ	770 UJ	10 UJ	16 UJ
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	560 U	1700 U	1400 U	600 U	910 UJ	770 UJ	10 UJ	16 UJ
SW8260	1,3-DICHLOROBENZENE	ug/kg	560 U	1700 U	1400 U	600 U	910 UJ	770 UJ	10 UJ	16 UJ
SW8260	1,4-DICHLOROBENZENE	ug/kg	560 U	1700 U	1400 U	600 U	910 UJ	770 UJ	1 J	1.7 J
SW8260	BENZENE	ug/kg	3390	3350	1670	657	3330 J	3900 J	144 J	191 J
SW8260	CHLOROBENZENE	ug/kg	560 U	1700 U	1400 U	600 U	910 UJ	770 UJ	10 UJ	16 UJ
SW8260	ETHYLBENZENE	ug/kg	991	1360	894	174	459 J	451 J	2.3 J	7.2 J
SW8260	NAPHTHALENE	ug/kg	88900	99400	105000	44500	57000 J	54000 J	45.2 J	68.8 J
SW8260	O-XYLENE	ug/kg	5520	7770	5100	1180	2890 J	2690 J	51 J	118 J
SW8260	TOLUENE	ug/kg	14500	18400	6270	1610	7100 J	7340 J	14.8 J	16.2 J
SW8260	XYLENES, M & P	ug/kg	19700	28200	19300	4090	10000 J	9840 J	39.5 J	154 J
SW8260	XYLENES, TOTAL	ug/kg	25200	35900	24400	5270	12900 J	12500 J	90.6 J	272 J
SW8270	ACENAPHTHENE	ug/kg	39.2	36.4	37.2	5 U	6.3 UJ	6.2 UJ	49.9 J	65.7 J
SW8270	ACENAPHTHYLENE	ug/kg	46.5	42.3	17.3	5.25	6.3 UJ	6.2 UJ	116 J	182 J
SW8270	ANTHRACENE	ug/kg	132	5.3 U	4.7 U	5 U	6.3 UJ	6.2 UJ	167 J	244 J
SW8270	BENZO(A)ANTHRACENE	ug/kg	205	141	150	28.3	6.3 UJ	6.2 UJ	377 J	510 J
SW8270	BENZO(A)PYRENE	ug/kg	129	63.3	32.5	13.7	6.3 UJ	6.2 UJ	407 J	523 J
SW8270	BENZO(B)FLUORANTHENE	ug/kg	132	86.6	105	25.3	6.3 UJ	6.2 UJ	427 J	585 J
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	78.5	38.4	21.8	15.5	6.3 UJ	6.2 UJ	208 J	304 J
SW8270	BENZO(K)FLUORANTHENE	ug/kg	122	65.5	30.2	14.4	6.3 UJ	6.2 UJ	289 J	331 J
SW8270	CHRYSENE	ug/kg	190	132	144	22	6.3 UJ	6.2 UJ	516 J	617 J
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	41.3	21.4	15.3	5 U	6.3 UJ	6.2 UJ	110 J	123 J
SW8270	FLUORANTHENE	ug/kg	488	59	196	63	6.3 UJ	6.2 UJ	801 J	955 J
SW8270	FLUORENE	ug/kg	216	117	659	17.1	6.3 UJ	6.2 UJ	118 J	194 J
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	93	40.8	25.7	12.6	6.3 UJ	6.2 UJ	206 J	323 J
SW8270	PHENANTHRENE	ug/kg	581	229	1270	37.9	6.3 UJ	6.2 UJ	432 J	607 J
SW8270	PHENOL	ug/kg	247 J	285 J	144 J	259 J	353 J	354 J	325 J	3440 J
SW8270	PYRENE	ug/kg	469	340	209	77.5	6.3 UJ	6.2 UJ	1040 J	1110 J
SW9045	pH	S.U.	10.96	11.08	11.38	11.3	11.28 J	11.2 J	9.8 J	11.02 J

**Table A1  
Validated Sediment, SMU-5 Sediment, and Follow-Up Sediment Analytical Data**

		Location	OL-VC-30183	OL-VC-30184	OL-VC-30184	OL-VC-30184	OL-VC-30185	OL-VC-30185	OL-VC-30185	OL-VC-30186
		Sample Depth	2.00-3.00 Ft	0.00-1.00 Ft	1.00-2.00 Ft	2.00-3.00 Ft	0.00-1.00 Ft	1.00-2.00 Ft	2.00-3.00 Ft	0.00-1.00 Ft
		Field Sample ID	OL-1377-10	OL-1377-11	OL-1377-12	OL-1377-13	OL-1377-14	OL-1377-15	OL-1377-16	OL-1377-17
		Sample Date	11/2/2010	11/2/2010	11/2/2010	11/2/2010	11/2/2010	11/2/2010	11/2/2010	11/2/2010
		SDG	JA60497	JA60497	JA60497	JA60497	JA60497	JA60497	JA60497	JA60497
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Method	Parameter Name	Units								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	9700 J	23000 J	2180 J	1490 J	7750 J	1210 J	4720 J	8350 J
SM2540G	SOLIDS, PERCENT	%	36.8	42.6	28.5	27.1	37.9	25.8	30.1	51.1
SW7471	MERCURY	mg/kg	0.35 J	1.6 J	0.18 J	0.1 J	0.39 J	0.14 J	0.097 J	0.11
SW8082	AROCLOR-1016	ug/kg	9.1 UJ	7.7 UJ	12 UJ	12 UJ	8.7 UJ	13 UJ	11 UJ	6.5 U
SW8082	AROCLOR-1221	ug/kg	9.1 UJ	7.7 UJ	12 UJ	12 UJ	8.7 UJ	13 UJ	11 UJ	6.5 U
SW8082	AROCLOR-1232	ug/kg	9.1 UJ	7.7 UJ	12 UJ	12 UJ	8.7 UJ	13 UJ	11 UJ	6.5 U
SW8082	AROCLOR-1242	ug/kg	9.1 UJ	7.7 UJ	12 UJ	12 UJ	8.7 UJ	13 UJ	11 UJ	6.5 U
SW8082	AROCLOR-1248	ug/kg	9.1 UJ	20.3 J	12 UJ	12 UJ	8.7 UJ	15.6 J	11 UJ	6.5 U
SW8082	AROCLOR-1254	ug/kg	9.1 UJ	11.9 J	12 UJ	12 UJ	8.7 UJ	13 UJ	11 UJ	6.5 U
SW8082	AROCLOR-1260	ug/kg	9.1 UJ	7.7 UJ	12 UJ	12 UJ	8.7 UJ	13 UJ	11 UJ	6.5 U
SW8082	AROCLOR-1268	ug/kg	9.1 UJ	7.7 UJ	12 UJ	12 UJ	8.7 UJ	13 UJ	11 UJ	6.5 U
SW8082	PCBS, N.O.S.	ug/kg	9.1 UJ	32.2 J	12 UJ	12 UJ	8.7 UJ	15.6 J	11 UJ	6.5 U
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	14 UJ	11 UJ	21 UJ	21 UJ	12 UJ	23 UJ	17 UJ	11 UJ
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	14 UJ	1.8 J	21 UJ	21 UJ	12 UJ	23 UJ	17 UJ	11 UJ
SW8260	1,2-DICHLOROBENZENE	ug/kg	1.9 J	10.6 J	2.1 J	21 UJ	4.4 J	23 UJ	1.4 J	11 UJ
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	14 UJ	11 UJ	21 UJ	21 UJ	12 UJ	23 UJ	17 UJ	11 UJ
SW8260	1,3-DICHLOROBENZENE	ug/kg	14 UJ	1.5 J	21 UJ	21 UJ	1.5 J	23 UJ	17 UJ	11 UJ
SW8260	1,4-DICHLOROBENZENE	ug/kg	4.6 J	4.2 J	1.9 J	21 UJ	3.2 J	23 UJ	1.8 J	11 UJ
SW8260	BENZENE	ug/kg	123 J	130 J	648 J	279 J	16.7 J	6.7 J	15.7 J	2450 J
SW8260	CHLOROBENZENE	ug/kg	14 UJ	2 J	21 UJ	21 UJ	3 J	23 UJ	17 UJ	3.9 J
SW8260	ETHYLBENZENE	ug/kg	28.1 J	8.1 J	6.6 J	9.6 J	2.7 J	4.6 UJ	3.3 J	5700
SW8260	NAPHTHALENE	ug/kg	203 J	64.8 J	68.9 J	96.3 J	29.1 J	23.4 J	50.4 J	536000
SW8260	O-XYLENE	ug/kg	350 J	112 J	102 J	169 J	30.5 J	12.8 J	45.4 J	32700
SW8260	TOLUENE	ug/kg	36.2 J	21.1 J	18.2 J	14 J	7.4 J	9.8 J	11.3 J	36100
SW8260	XYLENES, M & P	ug/kg	625 J	109 J	139 J	235 J	32.7 J	15.3 J	57.6 J	125000
SW8260	XYLENES, TOTAL	ug/kg	975 J	221 J	241 J	404 J	63.2 J	28.1 J	103 J	158000
SW8270	ACENAPHTHENE	ug/kg	49.1 J	126 J	30.1 J	23.7 J	50.5 J	11 UJ	15.2 J	350
SW8270	ACENAPHTHYLENE	ug/kg	180 J	151 J	28.8 J	17 J	115 J	11 UJ	24.8 J	712
SW8270	ANTHRACENE	ug/kg	236 J	277 J	69.5 J	39.3 J	154 J	32.1 J	103 J	1790
SW8270	BENZO(A)ANTHRACENE	ug/kg	526 J	424 J	134 J	70.6 J	316 J	40.8 J	162 J	1280
SW8270	BENZO(A)PYRENE	ug/kg	329 J	446 J	84.2 J	42.7 J	216 J	24.4 J	87.6 J	688
SW8270	BENZO(B)FLUORANTHENE	ug/kg	407 J	384 J	137 J	71.6 J	246 J	44.8 J	149 J	801
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	181 J	249 J	53.9 J	25.4 J	154 J	22.5 J	49.2 J	261
SW8270	BENZO(K)FLUORANTHENE	ug/kg	194 J	371 J	46.8 J	26.2 J	205 J	18.7 J	47.2 J	628
SW8270	CHRYSENE	ug/kg	585 J	557 J	118 J	66.2 J	291 J	37 J	133 J	1160
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	80 J	138 J	28.3 J	8.99 J	92.6 J	8.37 J	18.2 J	162
SW8270	FLUORANTHENE	ug/kg	865 J	972 J	257 J	136 J	545 J	103 J	431 J	4880
SW8270	FLUORENE	ug/kg	103 J	202 J	35.1 J	27.7 J	129 J	11 UJ	43.3 J	2020
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	193 J	256 J	55.1 J	25.2 J	168 J	21.2 J	56 J	347
SW8270	PHENANTHRENE	ug/kg	481 J	867 J	250 J	143 J	397 J	92.6 J	307 J	10200
SW8270	PHENOL	ug/kg	1760 J	257 J	3110 J	2280 J	1540 J	3690 J	3020 J	386 J
SW8270	PYRENE	ug/kg	1150 J	1100 J	253 J	128 J	603 J	95 J	379 J	4490
SW9045	pH	S.U.	11.44 J	10.18 J	11.39 J	11.7 J	11.18 J	11.69 J	11.97 J	11.53

**Table A1  
Validated Sediment, SMU-5 Sediment, and Follow-Up Sediment Analytical Data**

		Location	OL-VC-30186	OL-VC-30186	OL-VC-40269	OL-VC-40269	OL-VC-40269	OL-VC-40269	OL-VC-40269	OL-VC-40269
		Sample Depth	1.00-2.00 Ft	2.00-3.00 Ft	0-1 Ft	1-2 Ft	2-3 Ft	3-4 Ft	4-5 Ft	5-6 Ft
		Field Sample ID	OL-1377-18	OL-1377-19	OL-1276-20	OL-1277-02	OL-1277-03	OL-1277-04	OL-1277-05	OL-1277-06
		Sample Date	11/2/2010	11/2/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010
		SDG	JA60497	JA60497	JA48615	JA48614	JA48614	JA48614	JA48614	JA48614
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Method	Parameter Name	Units								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	5240 J	6240 J	13100 J	10000 J	10700 J	12700 J	8530 J	8790 J
SM2540G	SOLIDS, PERCENT	%	62.1	58.4	52.8	52	54	54.5	54.4	52.7
SW7471	MERCURY	mg/kg	0.015 U	0.019 J	0.14	0.12	0.021 U	0.02 U	0.019 U	0.02 U
SW8082	AROCLOR-1016	ug/kg	5.3 U	5.6 U	6.2 U	6.4 U	6.1 U	6.1 U	6 U	6.2 U
SW8082	AROCLOR-1221	ug/kg	5.3 U	5.6 U	6.2 U	6.4 U	6.1 U	6.1 U	6 U	6.2 U
SW8082	AROCLOR-1232	ug/kg	5.3 U	5.6 U	6.2 U	6.4 U	6.1 U	6.1 U	6 U	6.2 U
SW8082	AROCLOR-1242	ug/kg	5.3 U	5.6 U	6.2 U	6.4 U	6.1 U	6.1 U	6 U	6.2 U
SW8082	AROCLOR-1248	ug/kg	5.3 U	5.6 U	6.2 U	6.4 U	6.1 U	6.1 U	6 U	6.2 U
SW8082	AROCLOR-1254	ug/kg	5.3 U	5.6 U	6.2 U	6.4 U	6.1 U	6.1 U	6 U	6.2 U
SW8082	AROCLOR-1260	ug/kg	5.3 U	5.6 U	6.2 U	6.4 U	6.1 U	6.1 U	6 U	6.2 U
SW8082	AROCLOR-1268	ug/kg	5.3 U	5.6 U	6.2 U	6.4 U	6.1 U	6.1 U	6 U	6.2 U
SW8082	PCBS, N.O.S.	ug/kg	5.3 U	5.6 U	6.2 U	6.4 U	6.1 U	6.1 U	6 U	6.2 U
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	530 U	1400 U	10 U	10 U	9.4 U	9.6 U	9 U	11 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	530 U	1400 U	10 U	10 U	9.4 U	9.6 U	9 U	11 U
SW8260	1,2-DICHLOROBENZENE	ug/kg	530 U	1400 U	10 U	10 U	9.4 U	9.6 U	9 U	11 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	530 U	1400 U	10 U	10 U	9.4 U	9.6 U	9 U	11 U
SW8260	1,3-DICHLOROBENZENE	ug/kg	530 U	1400 U	10 U	10 U	9.4 U	9.6 U	9 U	11 U
SW8260	1,4-DICHLOROBENZENE	ug/kg	530 U	1400 U	10 U	10 U	9.4 U	9.6 U	9 U	11 U
SW8260	BENZENE	ug/kg	234	575	2.1 U	2 U	1.9 U	1.9 U	1.8 U	2.1 U
SW8260	CHLOROBENZENE	ug/kg	530 U	1400 U	10 U	10 U	9.4 U	9.6 U	9 U	11 U
SW8260	ETHYLBENZENE	ug/kg	201	391	2.1 U	2 U	1.9 U	1.9 U	1.8 U	2.1 U
SW8260	NAPHTHALENE	ug/kg	61500	62600	10 U	10 U	9.4 U	9.6 U	9 U	11 U
SW8260	O-XYLENE	ug/kg	1440	2600	2.1 U	2 U	1.9 U	1.9 U	1.8 U	2.1 U
SW8260	TOLUENE	ug/kg	1720	3460	0.97 J	0.73 J	1.9 U	1.2 J	0.85 J	0.72 J
SW8260	XYLENES, M & P	ug/kg	4880	8920	4.1 U	4.1 U	3.8 U	2 J	1.3 J	4.2 U
SW8260	XYLENES, TOTAL	ug/kg	6320	11500	4.1 U	4.1 U	3.8 U	2.7 J	1.7 J	4.2 U
SW8270	ACENAPHTHENE	ug/kg	57.1	4.9 U	5.4 U	5.4 U	5.3 U	5.2 U	5.3 U	5.4 U
SW8270	ACENAPHTHYLENE	ug/kg	4.6 U	4.9 U	5.4 U	5.4 U	5.3 U	5.2 U	5.3 U	5.4 U
SW8270	ANTHRACENE	ug/kg	62.1	4.9 U	5.4 U	5.4 U	5.3 U	5.2 U	5.3 U	5.4 U
SW8270	BENZO(A)ANTHRACENE	ug/kg	20.3	4.9 U	5.4 U	5.4 U	5.3 U	5.2 U	5.3 U	5.4 U
SW8270	BENZO(A)PYRENE	ug/kg	4.6 U	4.9 U	5.4 U	5.4 U	5.3 U	5.2 U	5.3 U	5.4 U
SW8270	BENZO(B)FLUORANTHENE	ug/kg	9.15	4.9 U	5.4 U	5.4 U	5.3 U	5.2 U	5.3 U	5.4 U
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	4.6 U	4.9 U	5.4 U	5.4 U	5.3 U	5.2 U	5.3 U	5.4 U
SW8270	BENZO(K)FLUORANTHENE	ug/kg	8.35	4.9 U	5.4 U	5.4 U	5.3 U	5.2 U	5.3 U	5.4 U
SW8270	CHRYSENE	ug/kg	13.7	4.9 U	5.4 U	5.4 U	5.3 U	5.2 U	5.3 U	5.4 U
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	4.6 U	4.9 U	5.4 U	5.4 U	5.3 U	5.2 U	5.3 U	5.4 U
SW8270	FLUORANTHENE	ug/kg	85.2	4.9 U	5.4 U	5.4 U	5.3 U	5.2 U	5.3 U	5.4 U
SW8270	FLUORENE	ug/kg	53.4	4.9 U	5.4 U	5.4 U	5.3 U	5.2 U	5.3 U	5.4 U
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	4.6 U	4.9 U	5.4 U	5.4 U	5.3 U	5.2 U	5.3 U	5.4 U
SW8270	PHENANTHRENE	ug/kg	196	4.9 U	5.4 U	5.4 U	5.3 U	5.2 U	5.3 U	5.4 U
SW8270	PHENOL	ug/kg	134 J	152 J	54 U	54 U	53 U	52 U	53 U	54 U
SW8270	PYRENE	ug/kg	74.3	4.9 U	5.4 U	5.4 U	5.3 U	5.2 U	5.3 U	5.4 U
SW9045	pH	S.U.	11.44	11.53	8.11	7.76	7.54	7.57	7.52	7.46

**Table A1  
Validated Sediment, SMU-5 Sediment, and Follow-Up Sediment Analytical Data**

		Location	OL-VC-40269	OL-VC-40269	OL-VC-40269	OL-VC-40269	OL-VC-40270	OL-VC-40270	OL-VC-40270	OL-VC-40270
		Sample Depth	6-7 Ft	7-8 Ft	8-9 Ft	9-10 Ft	0-1 Ft	1-2 Ft	2-3 Ft	3-4 Ft
		Field Sample ID	OL-1277-07	OL-1277-08	OL-1277-09	OL-1277-10	OL-1276-01	OL-1276-02	OL-1276-03	OL-1276-04
		Sample Date	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010
		SDG	JA48614	JA48614	JA48614	JA48614	JA48615	JA48615	JA48615	JA48615
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Method	Parameter Name	Units								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	7560 J	7250 J	7510 J	6560 J	13900 J	21100 J	16700 J	10100 J
SM2540G	SOLIDS, PERCENT	%	61.5	58	57.7	53.9	57.4	58.6	57.5	53.9
SW7471	MERCURY	mg/kg	0.019 U	0.018 U	0.02 U	0.02 U	21	18.1	0.38	0.33
SW8082	AROCLOR-1016	ug/kg	5.4 U	5.7 U	5.7 U	6.2 U	5.7 U	5.7 U	5.7 U	6.1 U
SW8082	AROCLOR-1221	ug/kg	5.4 U	5.7 U	5.7 U	6.2 U	5.7 U	5.7 U	5.7 U	6.1 U
SW8082	AROCLOR-1232	ug/kg	5.4 U	5.7 U	5.7 U	6.2 U	5.7 U	5.7 U	5.7 U	6.1 U
SW8082	AROCLOR-1242	ug/kg	5.4 U	5.7 U	5.7 U	6.2 U	22.4	33.6	5.7 U	6.1 U
SW8082	AROCLOR-1248	ug/kg	5.4 U	5.7 U	5.7 U	6.2 U	5.7 U	5.7 U	5.7 U	6.1 U
SW8082	AROCLOR-1254	ug/kg	5.4 U	5.7 U	5.7 U	6.2 U	46.7	19.4	5.7 U	6.1 U
SW8082	AROCLOR-1260	ug/kg	5.4 U	5.7 U	5.7 U	6.2 U	5.7 U	5.7 U	5.7 U	6.1 U
SW8082	AROCLOR-1268	ug/kg	5.4 U	5.7 U	5.7 U	6.2 U	26.5	25.1	5.7 U	6.1 U
SW8082	PCBS, N.O.S.	ug/kg	5.4 U	5.7 U	5.7 U	6.2 U	95.6	78.1	5.7 U	6.1 U
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	8.8 U	9.6 U	8.7 U	9.9 U	8.7 U	8.5 U	8.9 U	10 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	8.8 U	9.6 U	8.7 U	9.9 U	8.7 U	8.5 U	8.9 U	10 U
SW8260	1,2-DICHLOROBENZENE	ug/kg	8.8 U	9.6 U	8.7 U	9.9 U	7 J	2.4 J	8.9 U	10 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	8.8 U	9.6 U	8.7 U	9.9 U	3.9 J	8.5 U	8.9 U	10 U
SW8260	1,3-DICHLOROBENZENE	ug/kg	8.8 U	9.6 U	8.7 U	9.9 U	42	6.1 J	8.9 U	10 U
SW8260	1,4-DICHLOROBENZENE	ug/kg	8.8 U	9.6 U	8.7 U	9.9 U	7.1 J	5.1 J	8.9 U	10 U
SW8260	BENZENE	ug/kg	1.8 U	1.9 U	1.7 U	2 U	2.6	0.83 J	1.8 U	2 U
SW8260	CHLOROBENZENE	ug/kg	8.8 U	9.6 U	8.7 U	9.9 U	70.5	23.2	8.9 U	10 U
SW8260	ETHYLBENZENE	ug/kg	1.8 U	1.9 U	1.7 U	2 U	1.4 J	1.7 U	1.8 U	2 U
SW8260	NAPHTHALENE	ug/kg	8.8 U	9.6 U	8.7 U	9.9 U	1.7 J	8.5 U	8.9 U	10 U
SW8260	O-XYLENE	ug/kg	1.8 U	1.9 U	1.7 U	2 U	13.7	1.2 J	1.8 U	2 U
SW8260	TOLUENE	ug/kg	1.8 U	1.9 U	1.7 U	2 U	24.5	0.62 J	1.8 U	1.2 J
SW8260	XYLENES, M & P	ug/kg	3.5 U	3.8 U	3.5 U	3.9 U	218	14.1	3.5 U	1.9 J
SW8260	XYLENES, TOTAL	ug/kg	3.5 U	3.8 U	3.5 U	3.9 U	232	15.3	3.5 U	2.5 J
SW8270	ACENAPHTHENE	ug/kg	4.6 U	4.9 U	4.9 U	5.3 U	4.9 U	4.9 U	5 U	5.3 U
SW8270	ACENAPHTHYLENE	ug/kg	4.6 U	4.9 U	4.9 U	5.3 U	4.9 U	4.9 U	5 U	5.3 U
SW8270	ANTHRACENE	ug/kg	4.6 U	4.9 U	4.9 U	5.3 U	11.5	8.87	5 U	5.3 U
SW8270	BENZO(A)ANTHRACENE	ug/kg	4.6 U	4.9 U	4.9 U	5.3 U	38	23.9	5 U	5.3 U
SW8270	BENZO(A)PYRENE	ug/kg	4.6 U	4.9 U	4.9 U	5.3 U	29.2	25.4	5 U	5.3 U
SW8270	BENZO(B)FLUORANTHENE	ug/kg	4.6 U	4.9 U	4.9 U	5.3 U	36.8	26	5 U	5.3 U
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	4.6 U	4.9 U	4.9 U	5.3 U	21	16.2	5 U	5.3 U
SW8270	BENZO(K)FLUORANTHENE	ug/kg	4.6 U	4.9 U	4.9 U	5.3 U	29.9	23.6	5 U	5.3 U
SW8270	CHRYSENE	ug/kg	4.6 U	4.9 U	4.9 U	5.3 U	33.4	23	5 U	5.3 U
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	4.6 U	4.9 U	4.9 U	5.3 U	4.9 U	11.4	5 U	5.3 U
SW8270	FLUORANTHENE	ug/kg	4.6 U	4.9 U	4.9 U	5.3 U	72.4	49.2	5 U	5.3 U
SW8270	FLUORENE	ug/kg	4.6 U	4.9 U	4.9 U	5.3 U	4.9 U	4.9 U	5 U	5.3 U
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	4.6 U	4.9 U	4.9 U	5.3 U	23.7	15.2	5 U	5.3 U
SW8270	PHENANTHRENE	ug/kg	4.6 U	4.9 U	4.9 U	5.3 U	46	30.3	5 U	5.3 U
SW8270	PHENOL	ug/kg	46 U	49 U	49 U	53 U	49 U	49 U	50 U	53 U
SW8270	PYRENE	ug/kg	4.6 U	4.9 U	4.9 U	5.3 U	80.2	69.6	5 U	5.3 U
SW9045	pH	S.U.	7.73	7.5	7.68	7.52	7.57	7.81	7.76	7.6

**Table A1  
Validated Sediment, SMU-5 Sediment, and Follow-Up Sediment Analytical Data**

		Location	OL-VC-40270	OL-VC-40270	OL-VC-40270	OL-VC-40270	OL-VC-40270	OL-VC-40271	OL-VC-40271	OL-VC-40271
		Sample Depth	4-5 Ft	5-6 Ft	6-7 Ft	7-8 Ft	8-9 Ft	0-1 Ft	1-2 Ft	2-3 Ft
		Field Sample ID	OL-1276-05	OL-1276-06	OL-1276-07	OL-1276-08	OL-1276-09	OL-1276-11	OL-1276-12	OL-1276-13
		Sample Date	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010
		SDG	JA48615	JA48615	JA48615	JA48615	JA48615	JA48615	JA48615	JA48615
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Method	Parameter Name	Units								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	8800 J	9280 J	13600 J	6980 J	6530 J	8200 J	3950 J	6880 J
SM2540G	SOLIDS, PERCENT	%	55.4	57.4	60.9	61	61.4	62.3	59.2	57.4
SW7471	MERCURY	mg/kg	0.039 J	0.071	0.019 J	0.019 U	0.018 U	8.1	35.9	84.3
SW8082	AROCLOR-1016	ug/kg	6 U	5.8 U	5.5 U	5.4 U	5.4 U	5.3 U	5.6 U	5.7 U
SW8082	AROCLOR-1221	ug/kg	6 U	5.8 U	5.5 U	5.4 U	5.4 U	5.3 U	5.6 U	5.7 U
SW8082	AROCLOR-1232	ug/kg	6 U	5.8 U	5.5 U	5.4 U	5.4 U	5.3 U	5.6 U	5.7 U
SW8082	AROCLOR-1242	ug/kg	6 U	5.8 U	5.5 U	5.4 U	5.4 U	21.8	5.6 U	54.2
SW8082	AROCLOR-1248	ug/kg	6 U	5.8 U	5.5 U	5.4 U	5.4 U	5.3 U	5.6 U	5.7 U
SW8082	AROCLOR-1254	ug/kg	6 U	5.8 U	5.5 U	5.4 U	5.4 U	12.4 J	20.1	26.5
SW8082	AROCLOR-1260	ug/kg	6 U	5.8 U	5.5 U	5.4 U	5.4 U	5.3 U	5.6 U	5.7 U
SW8082	AROCLOR-1268	ug/kg	6 U	5.8 U	5.5 U	5.4 U	5.4 U	110	48	8.7
SW8082	PCBS, N.O.S.	ug/kg	6 U	5.8 U	5.5 U	5.4 U	5.4 U	144	68.1	89.4
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	9.8 U	9.3 U	8.7 U	8.7 U	8.9 U	8.4 U	8.8 U	9.3 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	9.8 U	9.3 U	8.7 U	8.7 U	8.9 U	8.4 U	8.8 U	9.3 U
SW8260	1,2-DICHLOROBENZENE	ug/kg	9.8 U	9.3 U	8.7 U	8.7 U	8.9 U	4.5 J	26.1	19.9
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	9.8 U	9.3 U	8.7 U	8.7 U	8.9 U	8.4 U	2.8 J	4.6 J
SW8260	1,3-DICHLOROBENZENE	ug/kg	9.8 U	9.3 U	8.7 U	8.7 U	8.9 U	5.1 J	24.2	34.1
SW8260	1,4-DICHLOROBENZENE	ug/kg	9.8 U	9.3 U	8.7 U	8.7 U	8.9 U	11.8	17.7	12
SW8260	BENZENE	ug/kg	2 U	1.9 U	1.7 U	1.7 U	1.8 U	1.4 J	5.4	12.7
SW8260	CHLOROBENZENE	ug/kg	9.8 U	9.3 U	8.7 U	8.7 U	8.9 U	46	149	336
SW8260	ETHYLBENZENE	ug/kg	2 U	1.9 U	1.7 U	1.7 U	1.8 U	2	20.8	72.5
SW8260	NAPHTHALENE	ug/kg	9.8 U	9.3 U	8.7 U	8.7 U	8.9 U	8.4 U	3.9 J	6.1 J
SW8260	O-XYLENE	ug/kg	2 U	1.9 U	1.7 U	1.7 U	1.8 U	5.2	48.1	169
SW8260	TOLUENE	ug/kg	1.3 J	0.6 J	1.7 U	1.7 U	1.8 U	1.2 J	7.4	6.6
SW8260	XYLENES, M & P	ug/kg	1.8 J	1.6 J	3.5 U	3.5 U	3.5 U	36	273	1360
SW8260	XYLENES, TOTAL	ug/kg	2.4 J	1.6 J	3.5 U	3.5 U	3.5 U	41.2	321	1530
SW8270	ACENAPHTHENE	ug/kg	5.1 U	5 U	4.7 U	4.7 U	4.7 U	4.6 U	4.8 U	5 U
SW8270	ACENAPHTHYLENE	ug/kg	5.1 U	5 U	4.7 U	4.7 U	4.7 U	4.6 U	4.8 U	5 U
SW8270	ANTHRACENE	ug/kg	5.1 U	5 U	4.7 U	4.7 U	4.7 U	4.6 U	4.8 U	5 U
SW8270	BENZO(A)ANTHRACENE	ug/kg	5.1 U	5 U	4.7 U	4.7 U	4.7 U	11.2	13.5	11.8
SW8270	BENZO(A)PYRENE	ug/kg	5.1 U	5 U	4.7 U	4.7 U	4.7 U	8.95	10	10.4
SW8270	BENZO(B)FLUORANTHENE	ug/kg	5.1 U	5 U	4.7 U	4.7 U	4.7 U	14.4	10	11
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	5.1 U	5 U	4.7 U	4.7 U	4.7 U	10.3	9.62	8.75
SW8270	BENZO(K)FLUORANTHENE	ug/kg	5.1 U	5 U	4.7 U	4.7 U	4.7 U	10.6	12.8	10.6
SW8270	CHRYSENE	ug/kg	5.1 U	5 U	4.7 U	4.7 U	4.7 U	14.4	11.4	11.1
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	5.1 U	5 U	4.7 U	4.7 U	4.7 U	4.6 U	4.8 U	5 U
SW8270	FLUORANTHENE	ug/kg	5.1 U	5 U	4.7 U	4.7 U	4.7 U	19.5	26.1	17.7
SW8270	FLUORENE	ug/kg	5.1 U	5 U	4.7 U	4.7 U	4.7 U	4.6 U	4.8 U	5 U
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	5.1 U	5 U	4.7 U	4.7 U	4.7 U	6.49	9.54	7.19
SW8270	PHENANTHRENE	ug/kg	5.1 U	5 U	4.7 U	4.7 U	4.7 U	4.6 U	17.1	12.3
SW8270	PHENOL	ug/kg	51 U	50 U	47 U	47 U	47 U	46 U	48 U	50 U
SW8270	PYRENE	ug/kg	5.1 U	5 U	4.7 U	4.7 U	4.7 U	19.3	35.3	38.3
SW9045	pH	S.U.	7.56	7.47	7.59	7.56	7.65	7.95	8.35	8.23

**Table A1  
Validated Sediment, SMU-5 Sediment, and Follow-Up Sediment Analytical Data**

		Location	OL-VC-40271	OL-VC-40271	OL-VC-40271	OL-VC-40271	OL-VC-40271	OL-VC-40271	OL-VC-40304	OL-VC-40304
		Sample Depth	2-3 Ft	3-4 Ft	4-5 Ft	5-6 Ft	6-7 Ft	7-8 Ft	0-1 Ft	1-2 Ft
		Field Sample ID	OL-1276-14	OL-1276-15	OL-1276-16	OL-1276-17	OL-1276-18	OL-1276-19	OL-1292-20	OL-1294-01
		Sample Date	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/11/2010	6/11/2010
		SDG	JA48615	JA48615	JA48615	JA48615	JA48615	JA48615	JA48915	JA48910
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Field duplicate	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Method	Parameter Name	Units								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	3880 J	19500 J	7630 J	24300 J	6680 J	6290 J	10600	6840
SM2540G	SOLIDS, PERCENT	%	63.3	58.1	60.5	57.3	55.5	56.7	50.7	53.2
SW7471	MERCURY	mg/kg	59.5	83.2	46.6	12.6	0.098	0.06	0.021 U	0.021 U
SW8082	AROCLOR-1016	ug/kg	5.2 U	5.7 U	5.4 U	5.7 U	6 U	5.8 U	6.4 U	6.1 U
SW8082	AROCLOR-1221	ug/kg	5.2 U	5.7 U	5.4 U	5.7 U	6 U	5.8 U	6.4 U	6.1 U
SW8082	AROCLOR-1232	ug/kg	5.2 U	5.7 U	5.4 U	5.7 U	6 U	5.8 U	6.4 U	6.1 U
SW8082	AROCLOR-1242	ug/kg	47.9	46.1	54.9	5.7 U	6 U	5.8 U	6.4 U	6.1 U
SW8082	AROCLOR-1248	ug/kg	5.2 U	5.7 U	5.4 U	11.4	6 U	5.8 U	6.4 U	6.1 U
SW8082	AROCLOR-1254	ug/kg	21.9	21	29.4 J	5.7 U	6 U	5.8 U	6.4 U	6.1 U
SW8082	AROCLOR-1260	ug/kg	5.2 U	5.7 U	5.4 U	5.7 U	6 U	5.8 U	6.4 U	6.1 U
SW8082	AROCLOR-1268	ug/kg	8.1	23.8	48.5	5.7 U	6 U	5.8 U	6.4 U	6.1 U
SW8082	PCBS, N.O.S.	ug/kg	77.8	90.9	133 J	11.4	6 U	5.8 U	6.4 U	6.1 U
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	8.6 U	9.2 U	9.2 U	9.7 U	10 U	9.8 U	11 U	10 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	8.6 U	9.2 U	9.2 U	9.7 U	10 U	9.8 U	11 U	10 U
SW8260	1,2-DICHLOROBENZENE	ug/kg	24.3	7.9 J	4.6 J	0.58 J	10 U	9.8 U	11 U	10 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	4.1 J	6.9 J	15.7	9.7 U	0.76 J	9.8 U	11 U	10 U
SW8260	1,3-DICHLOROBENZENE	ug/kg	29.8	89.4	77.9	5.1 J	4.6 J	0.84 J	11 U	10 U
SW8260	1,4-DICHLOROBENZENE	ug/kg	10.8	9.3	6.2 J	9.7 U	10 U	9.8 U	11 U	10 U
SW8260	BENZENE	ug/kg	9.9	10.6	8.7	1.8 J	0.96 J	1.9 J	2.2 U	2 U
SW8260	CHLOROBENZENE	ug/kg	269	223	77	2.1 J	10 U	9.8 U	11 U	10 U
SW8260	ETHYLBENZENE	ug/kg	54.3	66.6	60.4	3.3	0.83 J	0.75 J	2.2 U	2 U
SW8260	NAPHTHALENE	ug/kg	5.6 J	4.3 J	2.9 J	9.7 U	10 U	9.8 U	11 U	10 U
SW8260	O-XYLENE	ug/kg	129	155	143	1.6 J	2 U	1.1 J	2.2 U	2 U
SW8260	TOLUENE	ug/kg	6.9	4.4	8.5	0.76 J	1.3 J	0.63 J	2.2 U	2 U
SW8260	XYLENES, M & P	ug/kg	608	704	531	4	1.8 J	1.1 J	4.4 U	4.1 U
SW8260	XYLENES, TOTAL	ug/kg	737	859	674	5.6	2.7 J	2.2 J	4.4 U	4.1 U
SW8270	ACENAPHTHENE	ug/kg	4.5 U	4.9 U	4.7 U	5 U	5.1 U	5 U	5.6 U	5.3 U
SW8270	ACENAPHTHYLENE	ug/kg	4.5 U	4.9 U	4.7 U	5 U	5.1 U	5 U	5.6 U	5.3 U
SW8270	ANTHRACENE	ug/kg	4.5 U	4.9 U	6.36	5 U	5.1 U	5 U	5.6 U	5.3 U
SW8270	BENZO(A)ANTHRACENE	ug/kg	11.1	4.9 U	14.8	9.4	5.1 U	5 U	5.6 U	5.3 U
SW8270	BENZO(A)PYRENE	ug/kg	4.5 U	8.76	11	6.59	5.1 U	5 U	5.6 U	5.3 U
SW8270	BENZO(B)FLUORANTHENE	ug/kg	4.5 U	11.6	20.6	10.6	5.1 U	5 U	5.6 U	5.3 U
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	4.5 U	10.1	11	6.56	5.1 U	5 U	5.6 U	5.3 U
SW8270	BENZO(K)FLUORANTHENE	ug/kg	4.5 U	8.87	12	6.16	5.1 U	5 U	5.6 U	5.3 U
SW8270	CHRYSENE	ug/kg	10.1	4.9 U	18.8	8.22	5.1 U	5 U	5.6 U	5.3 U
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	4.5 U	4.9 U	7.32	5 U	5.1 U	5 U	5.6 U	5.3 U
SW8270	FLUORANTHENE	ug/kg	25.6	21.6	35.9	15.4	5.1 U	5 U	5.6 U	5.3 U
SW8270	FLUORENE	ug/kg	9.18	4.9 U	4.7 U	5 U	5.1 U	5 U	5.6 U	5.3 U
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	4.5 U	7.98	10.9	6.95	5.1 U	5 U	5.6 U	5.3 U
SW8270	PHENANTHRENE	ug/kg	17.1	17.9	25.2	5 U	5.1 U	5 U	5.6 U	5.3 U
SW8270	PHENOL	ug/kg	45 U	49 U	47 U	50 U	5.1 U	50 U	56 U	53 U
SW8270	PYRENE	ug/kg	52.7	41.2 J	79.1	15	5.1 U	5 U	5.6 U	5.3 U
SW9045	pH	S.U.	8.25	8.03	7.97	7.9	7.19	7.08	7.37	7.43

**Table A1  
Validated Sediment, SMU-5 Sediment, and Follow-Up Sediment Analytical Data**

		Location	OL-VC-40304	OL-VC-50080	OL-VC-50080	OL-VC-50080	OL-VC-50081	OL-VC-50081	OL-VC-50081	OL-VC-50082
		Sample Depth	2-3 Ft	0-1 Ft	1-2 Ft	2-3 Ft	0-1 Ft	1-2 Ft	2-3 Ft	0-1 Ft
		Field Sample ID	OL-1294-02	OL-1292-11	OL-1292-12	OL-1292-13	OL-1292-14	OL-1292-15	OL-1292-16	OL-1292-17
		Sample Date	6/11/2010	6/11/2010	6/11/2010	6/11/2010	6/11/2010	6/11/2010	6/11/2010	6/11/2010
		SDG	JA48910	JA48915	JA48915	JA48915	JA48915	JA48915	JA48915	JA48915
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Method	Parameter Name	Units								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	6440	9880	6600	6680	9400	9050	7450	6300
SM2540G	SOLIDS, PERCENT	%	56.9	58.6	58.9	55.6	52.4	50.4	53.8	54.8
SW7471	MERCURY	mg/kg	0.02 U	0.67	0.051 J	0.02 U	0.021 U	0.023 U	0.02 U	0.021 U
SW8082	AROCLOR-1016	ug/kg	5.7 U	5.5 U	5.5 U	6 U	6.2 U	6.5 U	6.1 U	5.9 U
SW8082	AROCLOR-1221	ug/kg	5.7 U	5.5 U	5.5 U	6 U	6.2 U	6.5 U	6.1 U	5.9 U
SW8082	AROCLOR-1232	ug/kg	5.7 U	5.5 U	5.5 U	6 U	6.2 U	6.5 U	6.1 U	5.9 U
SW8082	AROCLOR-1242	ug/kg	5.7 U	5.5 U	5.5 U	6 U	6.2 U	24.3	6.1 U	5.9 U
SW8082	AROCLOR-1248	ug/kg	5.7 U	5.5 U	5.5 U	6 U	6.2 U	6.5 U	6.1 U	5.9 U
SW8082	AROCLOR-1254	ug/kg	5.7 U	5.5 U	5.5 U	6 U	6.2 U	6.5 U	6.1 U	5.9 U
SW8082	AROCLOR-1260	ug/kg	5.7 U	5.5 U	5.5 U	6 U	6.2 U	6.5 U	6.1 U	5.9 U
SW8082	AROCLOR-1268	ug/kg	5.7 U	5.5 U	5.5 U	6 U	6.2 U	6.5 U	6.1 U	5.9 U
SW8082	PCBS, N.O.S.	ug/kg	5.7 U	5.5 U	5.5 U	6 U	6.2 U	24.3	6.1 U	5.9 U
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	8.2 U	9.5 U	9.4 U	9 U	9.7 U	9.9 U	9.3 U	10 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	8.2 U	9.5 U	9.4 U	9 U	9.7 U	9.9 U	9.3 U	10 U
SW8260	1,2-DICHLOROBENZENE	ug/kg	8.2 U	9.5 U	9.4 U	9 U	9.7 U	9.9 U	9.3 U	10 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	8.2 U	9.5 U	9.4 U	9 U	9.7 U	9.9 U	9.3 U	10 U
SW8260	1,3-DICHLOROBENZENE	ug/kg	8.2 U	9.5 U	9.4 U	9 U	9.7 U	9.9 U	9.3 U	10 U
SW8260	1,4-DICHLOROBENZENE	ug/kg	8.2 U	9.5 U	9.4 U	9 U	9.7 U	9.9 U	9.3 U	10 U
SW8260	BENZENE	ug/kg	1.6 U	1.9 U	1.9 U	1.8 U	1.9 U	2 U	1.9 U	2 U
SW8260	CHLOROBENZENE	ug/kg	8.2 U	9.5 U	9.4 U	9 U	9.7 U	9.9 U	9.3 U	10 U
SW8260	ETHYLBENZENE	ug/kg	1.6 U	1.9 U	1.9 U	1.8 U	1.9 U	2 U	1.9 U	2 U
SW8260	NAPHTHALENE	ug/kg	8.2 U	9.5 U	9.4 U	9 U	9.7 U	9.9 U	9.3 U	10 U
SW8260	O-XYLENE	ug/kg	1.6 U	1.9 U	1.9 U	1.8 U	1.9 U	2 U	1.9 U	2 U
SW8260	TOLUENE	ug/kg	1.6 U	1.9 U	1.9 U	1.8 U	1.9 U	2 U	1.9 U	2 U
SW8260	XYLENES, M & P	ug/kg	3.3 U	3.8 U	3.8 U	3.6 U	3.9 U	4 U	3.7 U	4.1 U
SW8260	XYLENES, TOTAL	ug/kg	3.3 U	3.8 U	3.8 U	3.6 U	3.9 U	4 U	3.7 U	4.1 U
SW8270	ACENAPHTHENE	ug/kg	5 U	4.9 U	4.8 U	5.1 U	5.5 U	5.7 U	5.3 U	5.2 U
SW8270	ACENAPHTHYLENE	ug/kg	5 U	4.9 U	4.8 U	5.1 U	5.5 U	5.7 U	5.3 U	5.2 U
SW8270	ANTHRACENE	ug/kg	5 U	4.9 U	4.8 U	5.1 U	5.5 U	5.7 U	5.3 U	5.2 U
SW8270	BENZO(A)ANTHRACENE	ug/kg	5 U	9.64	4.8 U	5.1 U	5.5 U	5.7 U	5.3 U	5.2 U
SW8270	BENZO(A)PYRENE	ug/kg	5 U	9.8	4.8 U	5.1 U	5.5 U	5.7 U	5.3 U	5.2 U
SW8270	BENZO(B)FLUORANTHENE	ug/kg	5 U	18.7	4.8 U	5.1 U	5.5 U	5.7 U	5.3 U	5.2 U
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	5 U	12	4.8 U	5.1 U	5.5 U	5.7 U	5.3 U	5.2 U
SW8270	BENZO(K)FLUORANTHENE	ug/kg	5 U	8	4.8 U	5.1 U	5.5 U	5.7 U	5.3 U	5.2 U
SW8270	CHRYSENE	ug/kg	5 U	13	4.8 U	5.1 U	5.5 U	5.7 U	5.3 U	5.2 U
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	5 U	4.9 U	4.8 U	5.1 U	5.5 U	5.7 U	5.3 U	5.2 U
SW8270	FLUORANTHENE	ug/kg	5 U	18.2	4.8 U	5.1 U	5.5 U	5.7 U	5.3 U	5.2 U
SW8270	FLUORENE	ug/kg	5 U	4.9 U	4.8 U	5.1 U	5.5 U	5.7 U	5.3 U	5.2 U
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	5 U	9.18	4.8 U	5.1 U	5.5 U	5.7 U	5.3 U	5.2 U
SW8270	PHENANTHRENE	ug/kg	5 U	4.9 U	4.8 U	5.1 U	5.5 U	5.7 U	5.3 U	5.2 U
SW8270	PHENOL	ug/kg	50 U	49 U	48 U	51 U	55 U	57 U	53 U	52 U
SW8270	PYRENE	ug/kg	5 U	23.2	4.8 U	5.1 U	5.5 U	5.7 U	5.3 U	5.2 U
SW9045	pH	S.U.	7.68	7.77	8.02	7.78	7.8	7.55	7.59	7.46



**Table A1  
Validated Sediment, SMU-5 Sediment, and Follow-Up Sediment Analytical Data**

		Location	OL-VC-50082	OL-VC-50082	OL-VC-50083	OL-VC-50083	OL-VC-50083
		Sample Depth	1-2 Ft	2-3 Ft	0-1 Ft	1-2 Ft	2-3 Ft
		Field Sample ID	OL-1292-18	OL-1292-19	OL-1277-15	OL-1277-16	OL-1277-17
		Sample Date	6/11/2010	6/11/2010	6/9/2010	6/9/2010	6/9/2010
		SDG	JA48915	JA48915	JA48614	JA48614	JA48614
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment
Method	Parameter Name	Units					
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	11000	9350	8990 J	13400 J	6870 J
SM2540G	SOLIDS, PERCENT	%	56.8	56.8	55.1	55.7	55.2
SW7471	MERCURY	mg/kg	0.019 U	0.02 U	0.02 U	0.02 U	0.021 U
SW8082	AROCLOR-1016	ug/kg	5.8 U	5.8 U	6 U	6 U	6 U
SW8082	AROCLOR-1221	ug/kg	5.8 U	5.8 U	6 U	6 U	6 U
SW8082	AROCLOR-1232	ug/kg	5.8 U	5.8 U	6 U	6 U	6 U
SW8082	AROCLOR-1242	ug/kg	5.8 U	5.8 U	6 U	6 U	6 U
SW8082	AROCLOR-1248	ug/kg	5.8 U	5.8 U	6 U	6 U	6 U
SW8082	AROCLOR-1254	ug/kg	5.8 U	5.8 U	6 U	6 U	6 U
SW8082	AROCLOR-1260	ug/kg	5.8 U	5.8 U	6 U	6 U	6 U
SW8082	AROCLOR-1268	ug/kg	5.8 U	5.8 U	6 U	6 U	6 U
SW8082	PCBS, N.O.S.	ug/kg	5.8 U	5.8 U	6 U	6 U	6 U
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	8.8 U	9.8 U	9.5 U	9.5 U	9.1 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	8.8 U	9.8 U	9.5 U	9.5 U	9.1 U
SW8260	1,2-DICHLOROBENZENE	ug/kg	8.8 U	9.8 U	9.5 U	9.5 U	9.1 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	8.8 U	9.8 U	9.5 U	9.5 U	9.1 U
SW8260	1,3-DICHLOROBENZENE	ug/kg	8.8 U	9.8 U	9.5 U	9.5 U	9.1 U
SW8260	1,4-DICHLOROBENZENE	ug/kg	8.8 U	9.8 U	9.5 U	9.5 U	9.1 U
SW8260	BENZENE	ug/kg	1.8 U	2 U	1.9 U	1.9 U	1.8 U
SW8260	CHLOROBENZENE	ug/kg	8.8 U	9.8 U	9.5 U	9.5 U	9.1 U
SW8260	ETHYLBENZENE	ug/kg	1.8 U	2 U	1.9 U	1.9 U	1.8 U
SW8260	NAPHTHALENE	ug/kg	8.8 U	9.8 U	9.5 U	9.5 U	9.1 U
SW8260	O-XYLENE	ug/kg	1.8 U	2 U	1.9 U	1.9 U	1.8 U
SW8260	TOLUENE	ug/kg	1.8 U	2 U	1.9 U	1.9 U	1.8 U
SW8260	XYLENES, M & P	ug/kg	3.5 U	3.9 U	3.8 U	3.8 U	3.6 U
SW8260	XYLENES, TOTAL	ug/kg	3.5 U	3.9 U	3.8 U	3.8 U	3.6 U
SW8270	ACENAPHTHENE	ug/kg	5 U	5 U	5.2 U	5.1 U	5.1 U
SW8270	ACENAPHTHYLENE	ug/kg	5 U	5 U	5.2 U	5.1 U	5.1 U
SW8270	ANTHRACENE	ug/kg	5 U	5 U	5.2 U	5.1 U	5.1 U
SW8270	BENZO(A)ANTHRACENE	ug/kg	5 U	5 U	5.2 U	5.1 U	5.1 U
SW8270	BENZO(A)PYRENE	ug/kg	5 U	5 U	5.2 U	5.1 U	5.1 U
SW8270	BENZO(B)FLUORANTHENE	ug/kg	5 U	5 U	5.2 U	5.1 U	5.1 U
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	5 U	5 U	5.2 U	5.1 U	5.1 U
SW8270	BENZO(K)FLUORANTHENE	ug/kg	5 U	5 U	5.2 U	5.1 U	5.1 U
SW8270	CHRYSENE	ug/kg	5 U	5 U	5.2 U	5.1 U	5.1 U
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	5 U	5 U	5.2 U	5.1 U	5.1 U
SW8270	FLUORANTHENE	ug/kg	5 U	5 U	5.2 U	5.1 U	5.1 U
SW8270	FLUORENE	ug/kg	5 U	5 U	5.2 U	5.1 U	5.1 U
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	5 U	5 U	5.2 U	5.1 U	5.1 U
SW8270	PHENANTHRENE	ug/kg	5 U	5 U	5.2 U	5.1 U	5.1 U
SW8270	PHENOL	ug/kg	50 U	50 U			
SW8270	PYRENE	ug/kg	5 U	5 U	5.2 U	5.1 U	5.1 U
SW9045	pH	S.U.	7.72	7.64	7.93	7.53	7.36

**Table A1  
Validated Sediment, SMU-5 Sediment, and Follow-Up Sediment Analytical Data**

		Location	OL-VC-50084	OL-VC-50084	OL-VC-50084	OL-VC-50085	OL-VC-50085	OL-VC-50085	OL-VC-50086	OL-VC-50086
		Sample Depth	0-1 Ft	1-2 Ft	2-3 Ft	0-1 Ft	1-2 Ft	2-3 Ft	0-1 Ft	1-2 Ft
		Field Sample ID	OL-1277-18	OL-1277-19	OL-1277-20	OL-1278-04	OL-1278-05	OL-1278-06	OL-1278-07	OL-1278-08
		Sample Date	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010
		SDG	JA48614	JA48614	JA48614	JA48616	JA48616	JA48616	JA48616	JA48616
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Method	Parameter Name	Units								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	42700 J	62400 J	48100 J	21100	32600 J	22300 J	27000 J	57000 J
SM2540G	SOLIDS, PERCENT	%	36.2	32.5	38.7	50.7	38.9	49.6	37.1	29.4
SW7471	MERCURY	mg/kg	2.7 J	13.8 J	6.6 J	0.022 U	0.038 J	0.024 J	1.6 J	8.6 J
SW8082	AROCLOR-1016	ug/kg	9.2 UJ	10 UJ	8.6 UJ	6.5 U	8.4 UJ	6.7 UJ	8.9 UJ	11 UJ
SW8082	AROCLOR-1221	ug/kg	9.2 UJ	10 UJ	8.6 UJ	6.5 U	8.4 UJ	6.7 UJ	8.9 UJ	11 UJ
SW8082	AROCLOR-1232	ug/kg	9.2 UJ	10 UJ	8.6 UJ	6.5 U	8.4 UJ	6.7 UJ	8.9 UJ	11 UJ
SW8082	AROCLOR-1242	ug/kg	2530 J	2610 J	283 J	6.5 U	8.4 UJ	6.7 UJ	125 J	2370 J
SW8082	AROCLOR-1248	ug/kg	9.2 UJ	10 UJ	8.6 UJ	6.5 U	8.4 UJ	6.7 UJ	8.9 UJ	11 UJ
SW8082	AROCLOR-1254	ug/kg	1040 J	2000 J	936 J	6.5 U	8.4 UJ	6.7 UJ	70.1 J	1130 J
SW8082	AROCLOR-1260	ug/kg	425 J	502 J	327 J	6.5 U	8.4 UJ	6.7 UJ	26.4 J	357 J
SW8082	AROCLOR-1268	ug/kg	9.2 UJ	10 UJ	8.6 UJ	6.5 U	8.4 UJ	6.7 UJ	8.9 UJ	11 UJ
SW8082	PCBS, N.O.S.	ug/kg	4000 J	5110 J	1550 J	6.5 U	8.4 UJ	6.7 UJ	222 J	3860 J
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	15 UJ	77 UJ	14 UJ	11 U	15 UJ	11 UJ	14 UJ	18 UJ
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	15 UJ	25 J	14 UJ	11 U	15 UJ	11 UJ	14 UJ	18 UJ
SW8260	1,2-DICHLOROBENZENE	ug/kg	15 UJ	65.8 J	2.1 J	11 U	15 UJ	0.58 J	14 UJ	10 J
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	1.7 J	39.2 J	14 UJ	11 UJ	15 UJ	11 UJ	14 UJ	8.1 J
SW8260	1,3-DICHLOROBENZENE	ug/kg	5 J	50.1 J	14 UJ	11 U	15 UJ	11 UJ	2.5 J	14.7 J
SW8260	1,4-DICHLOROBENZENE	ug/kg	13.1 J	144 J	1.9 J	11 U	15 UJ	11 UJ	6.5 J	29.7 J
SW8260	BENZENE	ug/kg	3 J	24.9 J	4.4 J	2.2 U	2.9 UJ	2.1 UJ	2.8 UJ	5 J
SW8260	CHLOROBENZENE	ug/kg	45.2 J	262 J	2.2 J	0.85 J	15 UJ	1.2 J	18.4 J	45.6 J
SW8260	ETHYLBENZENE	ug/kg	2.4 J	50.8 J	5.5 J	2.2 U	2.9 UJ	0.85 J	2.8 UJ	3.6 UJ
SW8260	NAPHTHALENE	ug/kg	9.4 J	392 J	51.9 J	11 U	15 UJ	11 UJ	14 UJ	3.6 J
SW8260	O-XYLENE	ug/kg	3.4 J	48 J	5.2 J	2.2 U	2.9 UJ	2.1 UJ	2.1 J	6.7 J
SW8260	TOLUENE	ug/kg	2.9 J	22.5 J	3.2 J	0.75 J	1 J	2.2 J	2.8 UJ	1.3 J
SW8260	XYLENES, M & P	ug/kg	4.9 J	81.8 J	4.4 J	4.4 U	5.8 UJ	2.9 J	2.7 J	10.3 J
SW8260	XYLENES, TOTAL	ug/kg	8.4 J	130 J	9.6 J	4.4 U	5.8 UJ	3.8 J	4.8 J	17 J
SW8270	ACENAPHTHENE	ug/kg	21.9 J	8.8 UJ	45 J	5.9 U	7.7 UJ	6 UJ	65 J	188 J
SW8270	ACENAPHTHYLENE	ug/kg	16.8 J	54.7 J	59.3 J	5.9 U	7.7 UJ	6 UJ	152 J	244 J
SW8270	ANTHRACENE	ug/kg	36.1 J	154 J	93.2 J	5.9 U	9.3 J	6 UJ	184 J	859 J
SW8270	BENZO(A)ANTHRACENE	ug/kg	102 J	253 J	171 J	5.9 U	7.7 UJ	6 UJ	421 J	1250 J
SW8270	BENZO(A)PYRENE	ug/kg	95.1 J	210 J	153 J	5.9 U	7.7 UJ	6 UJ	570 J	1280 J
SW8270	BENZO(B)FLUORANTHENE	ug/kg	97.3 J	262 J	144 J	5.9 U	7.7 UJ	6 UJ	484 J	1550 J
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	70.5 J	141 J	102 J	5.9 U	7.7 UJ	6 UJ	390 J	1000 J
SW8270	BENZO(K)FLUORANTHENE	ug/kg	96.3 J	188 J	163 J	5.9 U	7.7 UJ	6 UJ	334 J	809 J
SW8270	CHRYSENE	ug/kg	105 J	297 J	215 J	5.9 U	7.7 UJ	6 UJ	562 J	1670 J
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	23.7 J	58.7 J	34.6 J	5.9 U	7.7 UJ	6 UJ	138 J	219 J
SW8270	FLUORANTHENE	ug/kg	213 J	862 J	451 J	5.9 U	18.1 J	6 UJ	979 J	3710 J
SW8270	FLUORENE	ug/kg	7.9 UJ	8.8 UJ	53.8 J	5.9 U	7.7 UJ	6 UJ	79.4 J	1350 J
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	60.1 J	133 J	87.3 J	5.9 U	7.7 UJ	6 UJ	355 J	884 J
SW8270	PHENANTHRENE	ug/kg	135 J	873 J	357 J	5.9 U	19.8 J	6 UJ	396 J	2220 J
SW8270	PYRENE	ug/kg	218 J	854 J	541 J	5.9 U	9.82 J	6 UJ	891 J	3220 J
SW9045	pH	S.U.	7.7 J	7.53 J	7.71 J	7.66	7.2 J	7.51 J	6.89 J	7.35 J

**Table A1  
Validated Sediment, SMU-5 Sediment, and Follow-Up Sediment Analytical Data**

		Location	OL-VC-50086	OL-VC-50086	OL-VC-50091	OL-VC-50091	OL-VC-50091	OL-VC-50091	OL-VC-50091	OL-VC-60264	OL-VC-60264
		Sample Depth	1-2 Ft	2-3 Ft	0-1 Ft	1-2 Ft	1-2 Ft	2-3 Ft	2-3 Ft	0-1 Ft	1-2 Ft
		Field Sample ID	OL-1278-09	OL-1278-10	OL-1277-11	OL-1277-12	OL-1277-13	OL-1277-14	OL-1277-14	OL-1284-16	OL-1284-17
		Sample Date	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/10/2010	6/10/2010
		SDG	JA48616	JA48616	JA48614	JA48614	JA48614	JA48614	JA48614	JA48746	JA48746
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Field duplicate	Regular sample	Regular sample	Regular sample	Regular sample	Field duplicate	Regular sample	Regular sample	Regular sample
		Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Method	Parameter Name	Units									
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	71000 J	56200 J	8370 J	9740 J	9110 J	12200 J	45500	21400	
SM2540G	SOLIDS, PERCENT	%	29.1	34.5	59.3	55.5	57.6	55.5	81.3	75.6	
SW7471	MERCURY	mg/kg	24.5 J	16.6 J	0.061	0.02 U	0.02 U	0.021 U	0.89	0.5	
SW8082	AROCLOR-1016	ug/kg	11 UJ	48 UJ	5.6 U	6 U	5.8 U	6 U	3.5 U	3.8 U	
SW8082	AROCLOR-1221	ug/kg	11 UJ	48 UJ	5.6 U	6 U	5.8 U	6 U	3.5 U	3.8 U	
SW8082	AROCLOR-1232	ug/kg	11 UJ	48 UJ	5.6 U	6 U	5.8 U	6 U	3.5 U	3.8 U	
SW8082	AROCLOR-1242	ug/kg	3390 J	1500 J	5.6 U	6 U	5.8 U	6 U	3.5 U	3.8 U	
SW8082	AROCLOR-1248	ug/kg	11 UJ	48 UJ	5.6 U	6 U	5.8 U	6 U	3.5 U	3.8 U	
SW8082	AROCLOR-1254	ug/kg	1470 J	1800 J	5.6 U	6 U	5.8 U	6 U	34.8 J	3.8 U	
SW8082	AROCLOR-1260	ug/kg	443 J	501 J	5.6 U	6 U	5.8 U	6 U	17.8 J	3.8 U	
SW8082	AROCLOR-1268	ug/kg	11 UJ	48 UJ	5.6 U	6 U	5.8 U	6 U	3.5 U	3.8 U	
SW8082	PCBS, N.O.S.	ug/kg	5300 J	3800 J	5.6 U	6 U	5.8 U	6 U	52.6 J	3.8 U	
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	19 UJ	15 UJ	8.8 U	9.8 U	9.6 U	9.8 U	6.8 U	7.3 U	
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	19 UJ	15 UJ	8.8 U	9.8 U	9.6 U	9.8 U	6.8 U	7.3 U	
SW8260	1,2-DICHLOROBENZENE	ug/kg	11.9 J	12 J	8.8 U	9.8 U	9.6 U	9.8 U	6.8 U	7.3 U	
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	7.8 J	8.9 J	8.8 U	9.8 U	9.6 U	9.8 UJ	6.8 U	7.3 U	
SW8260	1,3-DICHLOROBENZENE	ug/kg	13.9 J	10.1 J	8.8 U	9.8 U	9.6 U	9.8 U	6.8 U	7.3 U	
SW8260	1,4-DICHLOROBENZENE	ug/kg	29.1 J	29.9 J	8.8 U	9.8 U	9.6 U	9.8 U	1.2 J	1 J	
SW8260	BENZENE	ug/kg	5.8 J	8.9 J	1.8 U	2 U	1.9 U	2 U	1.4 U	1.5 U	
SW8260	CHLOROBENZENE	ug/kg	44.9 J	31.2 J	8.8 U	9.8 U	9.6 U	9.8 U	0.81 J	7.3 U	
SW8260	ETHYLBENZENE	ug/kg	3.8 UJ	2.3 J	1.8 U	2 U	1.9 U	2 U	1.4 U	1.5 U	
SW8260	NAPHTHALENE	ug/kg	3 J	5.8 J	8.8 U	9.8 U	9.6 U	9.8 U	6.8 U	7.3 U	
SW8260	O-XYLENE	ug/kg	7.3 J	10.1 J	1.8 U	2 U	1.9 U	2 U	1.4 U	1.5 U	
SW8260	TOLUENE	ug/kg	1.3 J	1.8 J	1 J	1.3 J	1 J	2 U	1.4 U	1.5 U	
SW8260	XYLENES, M & P	ug/kg	11.5 J	14.7 J	1.2 J	2.2 J	1.4 J	3.9 U	2.7 U	2.9 U	
SW8260	XYLENES, TOTAL	ug/kg	18.9 J	24.8 J	1.6 J	2.9 J	2 J	3.9 U	2.7 U	2.9 U	
SW8270	ACENAPHTHENE	ug/kg	257 J	444 J	4.8 U	5.1 U	4.9 U	5.1 U	464	10900	
SW8270	ACENAPHTHYLENE	ug/kg	325 J	811 J	4.8 U	5.1 U	4.9 U	5.1 U	391	2050	
SW8270	ANTHRACENE	ug/kg	1340 J	1730 J	4.8 U	5.1 U	4.9 U	5.1 U	792	12600	
SW8270	BENZO(A)ANTHRACENE	ug/kg	1380 J	2110 J	4.8 U	5.1 U	4.9 U	5.1 U	1950	10800	
SW8270	BENZO(A)PYRENE	ug/kg	1250 J	2050 J	4.8 U	5.1 U	4.9 U	5.1 U	2000	8080	
SW8270	BENZO(B)FLUORANTHENE	ug/kg	1580 J	2690 J	4.8 U	5.1 U	4.9 U	5.1 U	1680	5440	
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	929 J	1350 J	4.8 U	5.1 U	4.9 U	5.1 U	534	2370	
SW8270	BENZO(K)FLUORANTHENE	ug/kg	629 J	655 J	4.8 U	5.1 U	4.9 U	5.1 U	1360	4350	
SW8270	CHRYSENE	ug/kg	1790 J	2850 J	4.8 U	5.1 U	4.9 U	5.1 U	1820	9840	
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	237 J	672 J	4.8 U	5.1 U	4.9 U	5.1 U	226	1110	
SW8270	FLUORANTHENE	ug/kg	4110 J	5910 J	4.8 U	5.1 U	4.9 U	5.1 U	2820	16100	
SW8270	FLUORENE	ug/kg	2970 J	2630 J	4.8 U	5.1 U	4.9 U	5.1 U	346	9040	
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	765 J	1210 J	4.8 U	5.1 U	4.9 U	5.1 U	587	2460	
SW8270	PHENANTHRENE	ug/kg	3170 J	4710 J	4.8 U	5.1 U	4.9 U	5.1 U	1400	48300	
SW8270	PYRENE	ug/kg	3710 J	6130 J	4.8 U	5.1 U	4.9 U	5.1 U	3080	19800	
SW9045	pH	S.U.	7.34 J	7.51 J	7.92	7.66	7.56	7.44	8.09	7.63	

**Table A1  
Validated Sediment, SMU-5 Sediment, and Follow-Up Sediment Analytical Data**

		Location	OL-VC-60264	OL-VC-60264	OL-VC-60264	OL-VC-60264	OL-VC-60264	OL-VC-60264	OL-VC-60264	OL-VC-60264
		Sample Depth	2-3 Ft	3-4 Ft	4-5 Ft	5-6 Ft	5-6 Ft	6-7 Ft	7-8 Ft	8-9 Ft
		Field Sample ID	OL-1284-18	OL-1284-19	OL-1284-20	OL-1285-01	OL-1285-02	OL-1285-03	OL-1285-04	OL-1285-05
		Sample Date	6/10/2010	6/10/2010	6/10/2010	6/10/2010	6/10/2010	6/10/2010	6/10/2010	6/10/2010
		SDG	JA48746	JA48746	JA48746	JA48776	JA48776	JA48776	JA48776	JA48776
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Field duplicate	Regular sample	Regular sample	Regular sample
		Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Method	Parameter Name	Units								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	45000	73600	91500	4080 J	4470 J	3800 J	4370 J	7260 J
SM2540G	SOLIDS, PERCENT	%	68.3	62.5	63.4	73.9	72.3	73.3	70.1	64.2
SW7471	MERCURY	mg/kg	0.93	1.6	0.085	0.015 U	0.016 U	0.015 U	0.017 U	0.017 U
SW8082	AROCLOR-1016	ug/kg	4.3 U	4.6 U	4.6 U	4.5 U	4.6 U	4.5 U	4.7 U	5.2 U
SW8082	AROCLOR-1221	ug/kg	4.3 U	4.6 U	4.6 U	4.5 U	4.6 U	4.5 U	4.7 U	5.2 U
SW8082	AROCLOR-1232	ug/kg	4.3 U	4.6 U	4.6 U	4.5 U	4.6 U	4.5 U	4.7 U	5.2 U
SW8082	AROCLOR-1242	ug/kg	4.3 U	4.6 U	4.6 U	4.5 U	4.6 U	4.5 U	4.7 U	5.2 U
SW8082	AROCLOR-1248	ug/kg	4.3 U	4.6 U	4.6 U	4.5 U	4.6 U	4.5 U	4.7 U	5.2 U
SW8082	AROCLOR-1254	ug/kg	4.3 U	4.6 U	4.6 U	4.5 U	4.6 U	4.5 U	4.7 U	5.2 U
SW8082	AROCLOR-1260	ug/kg	4.3 U	4.6 U	4.6 U	4.5 U	4.6 U	4.5 U	4.7 U	5.2 U
SW8082	AROCLOR-1268	ug/kg	4.3 U	4.6 U	4.6 U	4.5 U	4.6 U	4.5 U	4.7 U	5.2 U
SW8082	PCBS, N.O.S.	ug/kg	4.3 U	4.6 U	4.6 U	4.5 U	4.6 U	4.5 U	4.7 U	5.2 U
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	8.1 U	8.9 U	8.8 U	7.5 U	7.7 U	7.6 U	7.9 U	8.7 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	8.1 U	8.9 U	8.8 U	7.5 U	7.7 U	7.6 U	7.9 U	8.7 U
SW8260	1,2-DICHLOROBENZENE	ug/kg	8.1 U	8.9 U	8.8 U	7.5 U	7.7 U	7.6 U	7.9 U	8.7 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	8.1 U	8.9 U	8.8 U	7.5 U	7.7 U	7.6 U	7.9 U	8.7 U
SW8260	1,3-DICHLOROBENZENE	ug/kg	8.1 U	8.9 U	8.8 U	7.5 U	7.7 U	7.6 U	7.9 U	8.7 U
SW8260	1,4-DICHLOROBENZENE	ug/kg	8.1 U	8.9 U	8.8 U	7.5 U	7.7 U	7.6 U	7.9 U	8.7 U
SW8260	BENZENE	ug/kg	0.67 J	1.5 J	1.8 U	1.5 U	1.5 U	1.5 U	1.6 U	1.7 U
SW8260	CHLOROBENZENE	ug/kg	8.1 U	8.9 U	8.8 U	7.5 U	7.7 U	7.6 U	7.9 U	8.7 U
SW8260	ETHYLBENZENE	ug/kg	1.6 U	1.8 U	1.8 U	1.5 U	1.5 U	1.5 U	1.6 U	1.7 U
SW8260	NAPHTHALENE	ug/kg	25.9	82.3	2.4 J	7.5 U	7.7 U	7.6 U	7.9 U	8.7 U
SW8260	O-XYLENE	ug/kg	1.6 U	1.1 J	1.8 U	1.5 U	1.5 U	1.5 U	1.6 U	1.7 U
SW8260	TOLUENE	ug/kg	0.72 J	0.97 J	1.8 U	1.5 U	0.53 J	0.76 J	1.6 U	1.7 U
SW8260	XYLENES, M & P	ug/kg	1.6 J	2.8 J	3.5 U	3 U	3.1 U	3 U	3.2 U	3.5 U
SW8260	XYLENES, TOTAL	ug/kg	2.3 J	3.9	3.5 U	3 U	3.1 U	3 U	3.2 U	3.5 U
SW8270	ACENAPHTHENE	ug/kg	7030	2790	2500	19.8 J	80.5 J	4.1 U	4.3 U	4.7 U
SW8270	ACENAPHTHYLENE	ug/kg	2100	1180	1350	26.2 J	31.1 J	10	4.3 U	4.7 U
SW8270	ANTHRACENE	ug/kg	12100	10600	19800	93.7 J	362 J	24.5	12.2	4.7 U
SW8270	BENZO(A)ANTHRACENE	ug/kg	11600	14100	41600	138 J	473 J	42.6	39.3	35.7
SW8270	BENZO(A)PYRENE	ug/kg	9700	11800	23200	110 J	380 J	15.7	8.86	13
SW8270	BENZO(B)FLUORANTHENE	ug/kg	7200	10100	21700	77.2 J	278 J	14.8 J	16.3 J	18.2 J
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	2800	3410	5390	65.3 J	170 J	4.1 U	4.3 U	4.7 U
SW8270	BENZO(K)FLUORANTHENE	ug/kg	5250	7290	17200	83.7 J	237 J	14.7	9.15	12.3
SW8270	CHRYSENE	ug/kg	10500	12000	22900	119 J	424 J	36.5	32.9	26.4
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	1180	1460	2640	16.2 J	42.4 J	4.1 U	4.3 U	4.7 U
SW8270	FLUORANTHENE	ug/kg	17900	32000	80300	223 J	999 J	65	37.5	31.5
SW8270	FLUORENE	ug/kg	6610	3420	5330	27.4 J	93.5 J	4.1 U	4.3 U	4.7 U
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	2920	3870	6760	53 J	156 J	4.1 U	4.3 U	4.7 U
SW8270	PHENANTHRENE	ug/kg	35400	19400	53100	148 J	683 J	40.2	22	4.7 U
SW8270	PYRENE	ug/kg	20400	21100	62300	218 J	884 J	74.4	37.9	37
SW9045	pH	S.U.	8.22	8.29	8.23	8.33	8.24	8.01	7.92	7.71

**Table A1  
Validated Sediment, SMU-5 Sediment, and Follow-Up Sediment Analytical Data**

		Location	OL-VC-60264	OL-VC-60265	OL-VC-60265	OL-VC-60265	OL-VC-60265	OL-VC-60265	OL-VC-60265	OL-VC-60265
		Sample Depth	9-9.8 Ft	0-1 Ft	0-1 Ft	1-2 Ft	2-3 Ft	3-4 Ft	4-5 Ft	
		Field Sample ID	OL-1285-06	OL-1284-05	OL-1284-06	OL-1284-07	OL-1284-08	OL-1284-09	OL-1284-10	
		Sample Date	6/10/2010	6/10/2010	6/10/2010	6/10/2010	6/10/2010	6/10/2010	6/10/2010	
		SDG	JA48776	JA48746 JA48748R	JA48746 JA48748R	JA48746 JA48748R	JA48746 JA48748R	JA48746 JA48748R	JA48746 JA48748R	
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Sample Purpose	Regular sample	Regular sample	Field duplicate	Regular sample	Regular sample	Regular sample	Regular sample	
		Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	
Method	Parameter Name	Units								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	7750 J	72300 J	12600 J	48500	18200	9750	15900	
SM2540G	SOLIDS, PERCENT	%	61.2	75.3	79	61.2	65.1	66.7	60	
SW7471	MERCURY	mg/kg	0.019 U	0.91 J	0.37 J	0.79	0.75	0.017 U	0.037 J	
SW8082	AROCLOR-1016	ug/kg	5.4 U	3.9 U	3.7 U	4.7 U	4.4 U	4.3 U	4.9 U	
SW8082	AROCLOR-1221	ug/kg	5.4 U	3.9 U	3.7 U	4.7 U	4.4 U	4.3 U	4.9 U	
SW8082	AROCLOR-1232	ug/kg	5.4 U	3.9 U	3.7 U	4.7 U	4.4 U	4.3 U	4.9 U	
SW8082	AROCLOR-1242	ug/kg	5.4 U	3.9 U	3.7 U	4.7 U	4.4 U	4.3 U	4.9 U	
SW8082	AROCLOR-1248	ug/kg	5.4 U	3.9 U	3.7 U	4.7 U	4.4 U	4.3 U	4.9 U	
SW8082	AROCLOR-1254	ug/kg	5.4 U	3.9 U	23.5 J	4.7 U	4.4 U	4.3 U	4.9 U	
SW8082	AROCLOR-1260	ug/kg	5.4 U	3.9 U	3.7 U	4.7 U	4.4 U	4.3 U	4.9 U	
SW8082	AROCLOR-1268	ug/kg	5.4 U	298 J	114 J	4.7 U	4.4 U	4.3 U	4.9 U	
SW8082	PCBS, N.O.S.	ug/kg	5.4 U	298	148	4.7 U	4.4 U	4.3 U	4.9 U	
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	9.1 U	7.4 U	7 U	9.1 U	8 U	7.6 U	8.5 U	
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	9.1 U	7.4 U	7 U	9.1 U	8 U	7.6 U	8.5 U	
SW8260	1,2-DICHLOROBENZENE	ug/kg	9.1 U	7.4 U	7 U	9.1 U	8 U	7.6 U	8.5 U	
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	9.1 U	7.4 U	7 U	9.1 U	8 U	7.6 U	8.5 U	
SW8260	1,3-DICHLOROBENZENE	ug/kg	9.1 U	7.4 U	7 U	9.1 U	8 U	7.6 U	8.5 U	
SW8260	1,4-DICHLOROBENZENE	ug/kg	9.1 U	7.4 U	7 U	9.1 U	8 U	7.6 U	8.5 U	
SW8260	BENZENE	ug/kg	1.8 U	1.5 U	1.4 U	1.8 U	1.6 U	1.5 U	1.7 U	
SW8260	CHLOROBENZENE	ug/kg	9.1 U	7.4 U	7 U	9.1 U	8 U	7.6 U	8.5 U	
SW8260	ETHYLBENZENE	ug/kg	1.8 U	1.5 U	1.4 U	1.8 U	1.6 U	1.5 U	1.7 U	
SW8260	NAPHTHALENE	ug/kg	9.1 U	1.4 J	2.3 J	8 J	8 U	7.6 U	8.5 U	
SW8260	O-XYLENE	ug/kg	1.8 U	1.5 U	1.4 U	3.6	1.6 U	1.5 U	1.7 U	
SW8260	TOLUENE	ug/kg	1.8 U	1.5 U	1.4 U	1.8 U	1.6 U	1.5 U	1.7 U	
SW8260	XYLENES, M & P	ug/kg	3.6 U	3 U	2.8 U	1.7 J	3.2 U	3.1 U	3.4 U	
SW8260	XYLENES, TOTAL	ug/kg	3.6 U	3 U	2.8 U	5.3	3.2 U	3.1 U	3.4 U	
SW8270	ACENAPHTHENE	ug/kg	4.9 U	1720	1030	1650	84.8	4.1 U	4.7 U	
SW8270	ACENAPHTHYLENE	ug/kg	4.9 U	510	592	825	119	4.1 U	4.7 U	
SW8270	ANTHRACENE	ug/kg	18	4930 J	2630 J	1970	471	4.1 U	4.7 U	
SW8270	BENZO(A)ANTHRACENE	ug/kg	52.6	5030 J	4300 J	2680	1100	4.1 U	4.7 U	
SW8270	BENZO(A)PYRENE	ug/kg	29	4220 J	3470 J	1380	691	4.1 U	4.7 U	
SW8270	BENZO(B)FLUORANTHENE	ug/kg	25.4 J	6600 J	5430 J	1240 J	611	4.1 U	4.7 U	
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	10.7	1970 J	1730	689	444	4.1 U	4.7 U	
SW8270	BENZO(K)FLUORANTHENE	ug/kg	26.2	1860 J	1450 J	822 J	105 J	4.1 U	4.7 U	
SW8270	CHRYSENE	ug/kg	43.4	5300 J	4060 J	1720	558	4.1 U	4.7 U	
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	4.9 U	1490	1230	442	183	4.1 U	4.7 U	
SW8270	FLUORANTHENE	ug/kg	52.8	14200 J	9960 J	2840	1170	4.1 U	4.7 U	
SW8270	FLUORENE	ug/kg	4.9 U	2090 J	1160	1370	131	4.1 U	4.7 U	
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	13.9	2420 J	2050 J	732	427	4.1 U	4.7 U	
SW8270	PHENANTHRENE	ug/kg	37.5	16000 J	9380 J	5150 J	781	4.1 U	4.7 U	
SW8270	PYRENE	ug/kg	67.8	13700 J	9840 J	4750 J	1250 J	4.1 U	4.7 U	
SW9045	pH	S.U.	7.61	7.18	7.71	7.81	7.77	7.7	7.68	

**Table A1**  
**Validated Sediment, SMU-5 Sediment, and Follow-Up Sediment Analytical Data**

		Location	OL-VC-60265	OL-VC-60265	OL-VC-60265	OL-VC-60265	OL-VC-60265	OL-VC-60266	OL-VC-60266
		Sample Depth	5-6 Ft	6-7 Ft	7-8 Ft	9-9.7 Ft	8-9 Ft	0-1 Ft	1-2 Ft
		Field Sample ID	OL-1284-11	OL-1284-12	OL-1284-13	OL-1284-14	OL-1284-15	OL-1298-01	OL-1298-02
		Sample Date	6/10/2010	6/10/2010	6/10/2010	6/10/2010	6/10/2010	6/14/2010	6/14/2010
		SDG	JA48746 JA48748R	JA48746 JA48748R	JA48746 JA48748R	JA48746 JA48748R	JA48746 JA48748R	JA49067R JA49065	JA49067R JA49065
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Method	Parameter Name	Units							
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	18700	19800	9630	11400	8040	75600 J	58300 J
SM2540G	SOLIDS, PERCENT	%	65.3	62.4	64.1	66.2	64.7	78.7	59
SW7471	MERCURY	mg/kg	0.017 U	0.018 U	0.018 U	0.017 U	0.018 U	0.26	1.2
SW8082	AROCLOR-1016	ug/kg	4.5 U	5.3 U	4.6 U	4.4 U	4.5 U	4.2 U	5.6 U
SW8082	AROCLOR-1221	ug/kg	4.5 U	5.3 U	4.6 U	4.4 U	4.5 U	4.2 U	5.6 U
SW8082	AROCLOR-1232	ug/kg	4.5 U	5.3 U	4.6 U	4.4 U	4.5 U	17.1	5.6 U
SW8082	AROCLOR-1242	ug/kg	4.5 U	5.3 U	4.6 U	4.4 U	4.5 U	4.2 U	5.6 U
SW8082	AROCLOR-1248	ug/kg	4.5 U	5.3 U	4.6 U	4.4 U	4.5 U	4.2 U	5.6 U
SW8082	AROCLOR-1254	ug/kg	4.5 U	5.3 U	4.6 U	4.4 U	4.5 U	26.9	5.6 U
SW8082	AROCLOR-1260	ug/kg	4.5 U	5.3 U	4.6 U	4.4 U	4.5 U	4.2 U	5.6 U
SW8082	AROCLOR-1268	ug/kg	4.5 U	5.3 U	4.6 U	4.4 U	4.5 U	99.2 J	5.6 U
SW8082	PCBS, N.O.S.	ug/kg	4.5 U	5.3 U	4.6 U	4.4 U	4.5 U	143 J	5.6 U
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	8.5 U	8.9 U	8 U	7.4 U	8.6 U	33 U	9 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	8.5 U	8.9 U	8 U	7.4 U	8.6 U	33 U	9 U
SW8260	1,2-DICHLOROBENZENE	ug/kg	8.5 U	8.9 U	8 U	7.4 U	8.6 U	33 U	9 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	8.5 U	8.9 U	8 U	7.4 U	8.6 U	33 U	9 U
SW8260	1,3-DICHLOROBENZENE	ug/kg	8.5 U	8.9 U	8 U	7.4 U	8.6 U	33 U	9 U
SW8260	1,4-DICHLOROBENZENE	ug/kg	8.5 U	8.9 U	8 U	7.4 U	8.6 U	33 U	9 U
SW8260	BENZENE	ug/kg	1.7 U	1.8 U	1.6 U	1.5 U	1.7 U	6.7 U	0.97 J
SW8260	CHLOROBENZENE	ug/kg	8.5 U	8.9 U	8 U	7.4 U	8.6 U	33 U	9 U
SW8260	ETHYLBENZENE	ug/kg	1.7 U	1.8 U	1.6 U	1.5 U	1.7 U	6.7 U	1.8 U
SW8260	NAPHTHALENE	ug/kg	8.5 U	8.9 U	8 U	7.4 U	8.6 U	24.7 J	9.3
SW8260	O-XYLENE	ug/kg	1.7 U	1.8 U	1.6 U	1.5 U	1.7 U	4.5 J	2.5
SW8260	TOLUENE	ug/kg	1.7 U	1.8 U	1.6 U	1.5 U	1.7 U	2.1 J	0.63 J
SW8260	XYLENES, M & P	ug/kg	3.4 U	3.6 U	3.2 U	3 U	3.4 U	3.9 J	2.8 J
SW8260	XYLENES, TOTAL	ug/kg	3.4 U	3.6 U	3.2 U	3 U	3.4 U	8.4 J	5.3
SW8270	ACENAPHTHENE	ug/kg	5.7 U	4.3 U	4.3 U	4.1 U	4.2 U	1060	730
SW8270	ACENAPHTHYLENE	ug/kg	5.7 U	4.3 U	4.3 U	4.1 U	4.2 U	836	1400
SW8270	ANTHRACENE	ug/kg	5.7 U	4.3 U	4.3 U	4.1 U	4.2 U	2940	2590
SW8270	BENZO(A)ANTHRACENE	ug/kg	5.7 U	4.3 U	4.3 U	4.1 U	4.2 U	6260 J	5060 J
SW8270	BENZO(A)PYRENE	ug/kg	5.7 U	4.3 U	4.3 U	4.1 U	4.2 U	3580	3840
SW8270	BENZO(B)FLUORANTHENE	ug/kg	5.7 U	4.3 U	4.3 U	4.1 U	4.2 U	4780	2580
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	5.7 U	4.3 U	4.3 U	4.1 U	4.2 U	2170	2050
SW8270	BENZO(K)FLUORANTHENE	ug/kg	5.7 U	4.3 U	4.3 U	4.1 U	4.2 U	2050	2580
SW8270	CHRYSENE	ug/kg	5.7 U	4.3 U	4.3 U	4.1 U	4.2 U	3630	3050
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	5.7 U	4.3 U	4.3 U	4.1 U	4.2 U	1290	1250
SW8270	FLUORANTHENE	ug/kg	5.7 U	4.3 U	4.3 U	4.1 U	4.2 U	9100	4870 J
SW8270	FLUORENE	ug/kg	5.7 U	4.3 U	4.3 U	4.1 U	4.2 U	1170	1090
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	5.7 U	4.3 U	4.3 U	4.1 U	4.2 U	2310	2030
SW8270	PHENANTHRENE	ug/kg	5.7 U	4.3 U	4.3 U	4.1 U	4.2 U	10300	4270
SW8270	PYRENE	ug/kg	5.7 U	4.3 U	4.3 U	4.1 U	4.2 U	9670	7390 J
SW9045	pH	S.U.	7.81	7.66	7.63	7.78	7.75	7.33	7.01

**Table A1  
Validated Sediment, SMU-5 Sediment, and Follow-Up Sediment Analytical Data**

		Location	OL-VC-60266	OL-VC-60266	OL-VC-60266	OL-VC-60266	OL-VC-60266	OL-VC-60266	OL-VC-60266	OL-VC-60267
		Sample Depth	2-3 Ft	3-4 Ft	4-5 Ft	5-6 Ft	6-7 Ft	7-7.8 Ft	0-1 Ft	
		Field Sample ID	OL-1298-03	OL-1298-04	OL-1298-05	OL-1298-06	OL-1298-07	OL-1298-08	OL-1288-14	
		Sample Date	6/14/2010	6/14/2010	6/14/2010	6/14/2010	6/14/2010	6/14/2010	6/11/2010	
		SDG	JA49067R JA49065	JA49067R JA49065	JA49067R JA49065	JA49067R JA49065	JA49067R JA49065	JA49067R JA49065	JA48911 JA48912R	
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
		Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	
Method	Parameter Name	Units								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	13000 J	9270 J	7810 J	61600 J	13800 J	7810 J	21300	
SM2540G	SOLIDS, PERCENT	%	73.7	68.7	75.7	24.6	61.1	68.1	80.2	
SW7471	MERCURY	mg/kg	0.017 J	0.017 U	0.015 U	0.046 UJ	0.018 U	0.017 U	0.13	
SW8082	AROCLOR-1016	ug/kg	4.5 U	4.9 U	4.4 U	13 UJ	5.3 U	4.9 U	4.2 U	
SW8082	AROCLOR-1221	ug/kg	4.5 U	4.9 U	4.4 U	13 UJ	5.3 U	4.9 U	4.2 U	
SW8082	AROCLOR-1232	ug/kg	4.5 U	4.9 U	4.4 U	13 UJ	5.3 U	4.9 U	4.2 U	
SW8082	AROCLOR-1242	ug/kg	4.5 U	4.9 U	4.4 U	13 UJ	5.3 U	4.9 U	4.2 U	
SW8082	AROCLOR-1248	ug/kg	4.5 U	4.9 U	4.4 U	13 UJ	5.3 U	4.9 U	4.2 U	
SW8082	AROCLOR-1254	ug/kg	4.5 U	4.9 U	4.4 U	13 UJ	5.3 U	4.9 U	4.2 U	
SW8082	AROCLOR-1260	ug/kg	4.5 U	4.9 U	4.4 U	13 UJ	5.3 U	4.9 U	4.2 U	
SW8082	AROCLOR-1268	ug/kg	4.5 U	4.9 U	4.4 U	13 UJ	5.3 U	4.9 U	4.2 U	
SW8082	PCBS, N.O.S.	ug/kg	4.5 U	4.9 U	4.4 U	13 UJ	5.3 U	4.9 U	4.2 U	
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	6.7 U	7.1 U	7.2 U	22 UJ	8.4 U	7.5 U	12 U	
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	6.7 U	7.1 U	7.2 U	22 UJ	8.4 U	7.5 U	12 U	
SW8260	1,2-DICHLOROBENZENE	ug/kg	6.7 U	7.1 U	7.2 U	22 UJ	8.4 U	7.5 U	1.7 J	
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	6.7 U	7.1 UJ	7.2 U	22 UJ	8.4 U	7.5 U	12 U	
SW8260	1,3-DICHLOROBENZENE	ug/kg	6.7 U	7.1 U	7.2 U	22 UJ	8.4 U	7.5 U	12 U	
SW8260	1,4-DICHLOROBENZENE	ug/kg	6.7 U	7.1 U	7.2 U	22 UJ	8.4 U	7.5 U	1.2 J	
SW8260	BENZENE	ug/kg	1.3 U	1.4 U	1.4 U	1.6 J	1.7 U	1.5 U	1.7 J	
SW8260	CHLOROBENZENE	ug/kg	6.7 U	7.1 U	7.2 U	22 UJ	8.4 U	7.5 U	12 U	
SW8260	ETHYLBENZENE	ug/kg	1.3 U	1.4 U	1.4 U	4.3 UJ	1.7 U	1.5 U	148	
SW8260	NAPHTHALENE	ug/kg	1.7 J	7.1 U	1.1 J	18.3 J	8.4 U	7.5 U	2330	
SW8260	O-XYLENE	ug/kg	1.3 U	1.4 U	1.4 U	4.3 UJ	1.7 U	1.5 U	112	
SW8260	TOLUENE	ug/kg	1.3 U	1.4 U	1.4 U	4.3 UJ	1.7 U	1.5 U	12.9	
SW8260	XYLENES, M & P	ug/kg	2.7 U	2.8 U	2.9 U	8.6 UJ	3.4 U	3 U	63.6	
SW8260	XYLENES, TOTAL	ug/kg	2.7 U	2.8 U	2.9 U	8.6 UJ	3.4 U	3 U	176	
SW8270	ACENAPHTHENE	ug/kg	432	7.71	18.4	35.5	4.7 U	4.3 U	1060	
SW8270	ACENAPHTHYLENE	ug/kg	197	10.8	9.2	5.55	4.7 U	4.3 U	502	
SW8270	ANTHRACENE	ug/kg	2900 J	4 U	3.8 U	3.9 U	4.7 U	4.3 U	1070	
SW8270	BENZO(A)ANTHRACENE	ug/kg	3490 J	4 UJ	3.8 UJ	3.9 UJ	4.7 UJ	4.3 UJ	1380 J	
SW8270	BENZO(A)PYRENE	ug/kg	2560 J	4 U	3.8 U	3.9 U	4.7 U	4.3 U	739	
SW8270	BENZO(B)FLUORANTHENE	ug/kg	2430 J	4 U	3.8 U	3.9 U	4.7 U	4.3 U	647 J	
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	1090	4 U	3.8 U	3.9 U	4.7 U	4.3 U	316	
SW8270	BENZO(K)FLUORANTHENE	ug/kg	1860	4 U	3.8 U	3.9 U	4.7 U	4.3 U	436 J	
SW8270	CHRYSENE	ug/kg	2910 J	4 U	3.8 U	3.9 U	4.7 U	4.3 U	1030	
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	800	4 U	3.8 U	3.9 U	4.7 U	4.3 U	246	
SW8270	FLUORANTHENE	ug/kg	7180 J	4 U	3.8 U	3.9 U	4.7 U	4.3 U	1650	
SW8270	FLUORENE	ug/kg	961	4 U	3.8 U	3.9 U	4.7 U	4.3 U	829	
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	1300	4 U	3.8 U	3.9 U	4.7 U	4.3 U	358	
SW8270	PHENANTHRENE	ug/kg	5340 J	4 U	3.8 U	3.9 U	4.7 U	4.3 U	2870 J	
SW8270	PYRENE	ug/kg	7090 J	4 U	3.8 U	3.9 U	4.7 U	4.3 U	2910 J	
SW9045	pH	S.U.	7.47	7.44	7.62	7.35 J	7.17	7.24	7.49	

**Table A1  
Validated Sediment, SMU-5 Sediment, and Follow-Up Sediment Analytical Data**

		Location	OL-VC-60267	OL-VC-60267	OL-VC-60267	OL-VC-60267	OL-VC-60267	OL-VC-60267	OL-VC-60267	OL-VC-60267
		Sample Depth	1-2 Ft	2-3 Ft	3-4 Ft	4-5 Ft	5-6 Ft	6-7 Ft	7-8 Ft	
		Field Sample ID	OL-1288-15	OL-1288-16	OL-1288-17	OL-1288-18	OL-1288-19	OL-1288-20	OL-1290-01	
		Sample Date	6/11/2010	6/11/2010	6/11/2010	6/11/2010	6/11/2010	6/11/2010	6/11/2010	
		SDG	JA48911 JA48912R	JA48911 JA48912R	JA48911 JA48912R	JA48911 JA48912R	JA48911 JA48912R	JA48911 JA48912R	JA48914 JA48913R	
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
		Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	
Method	Parameter Name	Units								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	5590	10700	5460	5440 J	11400 J	23200	99900 J	
SM2540G	SOLIDS, PERCENT	%	70.2	62.8	56.6	49.9	48.4	55.7	44.4	
SW7471	MERCURY	mg/kg	0.18	0.11	0.079	0.12 J	0.19 J	0.67	4.3 J	
SW8082	AROCLOR-1016	ug/kg	4.7 U	5.3 U	5.9 U	6.7 UJ	6.8 UJ	5.9 U	7.5 UJ	
SW8082	AROCLOR-1221	ug/kg	4.7 U	5.3 U	5.9 U	6.7 UJ	6.8 UJ	5.9 U	7.5 UJ	
SW8082	AROCLOR-1232	ug/kg	4.7 U	5.3 U	5.9 U	6.7 UJ	6.8 UJ	5.9 U	7.5 UJ	
SW8082	AROCLOR-1242	ug/kg	4.7 U	5.3 U	5.9 U	6.7 UJ	6.8 UJ	5.9 U	7.5 UJ	
SW8082	AROCLOR-1248	ug/kg	4.7 U	5.3 U	5.9 U	6.7 UJ	6.8 UJ	5.9 U	7.5 UJ	
SW8082	AROCLOR-1254	ug/kg	4.7 U	5.3 U	5.9 U	6.7 UJ	6.8 UJ	5.9 U	7.5 UJ	
SW8082	AROCLOR-1260	ug/kg	4.7 U	5.3 U	5.9 U	6.7 UJ	6.8 UJ	5.9 U	7.5 UJ	
SW8082	AROCLOR-1268	ug/kg	4.7 U	5.3 U	5.9 U	6.7 UJ	6.8 UJ	5.9 U	7.5 UJ	
SW8082	PCBS, N.O.S.	ug/kg	4.7 U	5.3 U	5.9 U	6.7 UJ	6.8 UJ	5.9 U	7.5 UJ	
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	7.7 U	8.5 U	8.9 U	9.9 UJ	11 UJ	8.3 U	13 UJ	
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	7.7 U	8.5 U	8.9 U	9.9 UJ	11 UJ	8.3 U	13 UJ	
SW8260	1,2-DICHLOROBENZENE	ug/kg	7.7 U	8.5 U	8.9 U	9.9 UJ	11 UJ	8.3 U	13 UJ	
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	7.7 U	8.5 U	8.9 U	9.9 UJ	11 UJ	8.3 U	13 UJ	
SW8260	1,3-DICHLOROBENZENE	ug/kg	7.7 U	8.5 U	8.9 U	9.9 UJ	11 UJ	8.3 U	13 UJ	
SW8260	1,4-DICHLOROBENZENE	ug/kg	7.7 U	8.5 U	8.9 U	9.9 UJ	11 UJ	8.3 U	13 UJ	
SW8260	BENZENE	ug/kg	1.5 U	1.7 U	1.8 U	2 UJ	2.2 UJ	1.7 U	3.2 J	
SW8260	CHLOROBENZENE	ug/kg	7.7 U	8.5 U	8.9 U	9.9 UJ	11 UJ	8.3 U	13 UJ	
SW8260	ETHYLBENZENE	ug/kg	8.2	1.4 J	1.8 U	2 UJ	2.2 UJ	1.7 U	2.5 J	
SW8260	NAPHTHALENE	ug/kg	216	37.6	7.6 J	9.9 UJ	11 UJ	51.7	119 J	
SW8260	O-XYLENE	ug/kg	12.5	8.1	1.8 U	2 UJ	2.2 UJ	1.3 J	4.5 J	
SW8260	TOLUENE	ug/kg	1.6	0.93 J	1.8 U	0.58 J	2.2 UJ	1.1 J	1.6 J	
SW8260	XYLENES, M & P	ug/kg	7.8	2.4 J	3.6 U	4 UJ	4.4 UJ	1.7 J	5.7 J	
SW8260	XYLENES, TOTAL	ug/kg	20.3	10.6	3.6 U	4 UJ	4.4 UJ	3 J	10.2 J	
SW8270	ACENAPHTHENE	ug/kg	963	122	27.2	5.19 J	31.5	227	1300	
SW8270	ACENAPHTHYLENE	ug/kg	261	58.3	19.2	14.6	11.6	164	970	
SW8270	ANTHRACENE	ug/kg	922	390	63	20.4	25.3	622	3090	
SW8270	BENZO(A)ANTHRACENE	ug/kg	1020 J	175 J	106 J	43.2 J	39 J	729 J	4680 J	
SW8270	BENZO(A)PYRENE	ug/kg	366	63.5	47.8	18.1	15.7	359	2710	
SW8270	BENZO(B)FLUORANTHENE	ug/kg	210 J	47.2	41.3	15.4	14.3	207 J	2910	
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	141	26.2	24.3	10.5	10.7	129	1600	
SW8270	BENZO(K)FLUORANTHENE	ug/kg	196 J	38.9 J	34.7 J	12.5 J	13 J	159 J	197 J	
SW8270	CHRYSENE	ug/kg	544	115	67.5	30.5	29	466	3110	
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	106	18.3	15.3	5.55	5.85	95	982	
SW8270	FLUORANTHENE	ug/kg	1010	291	137	49.5	47	788	6240	
SW8270	FLUORENE	ug/kg	877	160	28.2	14.6	27.7	362	1900	
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	152	28.8	26.7	13.2	13.5	123	1570	
SW8270	PHENANTHRENE	ug/kg	3240 J	884	187	72.9	88.3	1580 J	9060	
SW8270	PYRENE	ug/kg	1580	517	182	76.4	66.7	1430 J	9830	
SW9045	pH	S.U.	7.94	7.62	7.99	8.16 J	7.56 J	7.64	7.46 J	



**Table A1  
Validated Sediment, SMU-5 Sediment, and Follow-Up Sediment Analytical Data**

		Location	OL-VC-60267	OL-VC-60267	OL-VC-60267	OL-VC-60267	OL-VC-60268	OL-VC-60268	OL-VC-60268
		Sample Depth	8-9 Ft	9-10 Ft	10-11 Ft	11-12 Ft	0-1 Ft	1-2 Ft	2-3 Ft
		Field Sample ID	OL-1290-02	OL-1290-03	OL-1290-04	OL-1290-05	OL-1288-01	OL-1288-02	OL-1288-03
		Sample Date	6/11/2010	6/11/2010	6/11/2010	6/11/2010	6/11/2010	6/11/2010	6/11/2010
		SDG	JA48914 JA48913R	JA48914 JA48913R	JA48914 JA48913R	JA48914 JA48913R	JA48911 JA48912R	JA48911 JA48912R	JA48911 JA48912R
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Method	Parameter Name	Units							
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	65400	44500	28400	18800	7520	42900	25000
SM2540G	SOLIDS, PERCENT	%	54.7	56.8	60.8	67.7	73	61.2	69.6
SW7471	MERCURY	mg/kg	2.6	2.4	1.7	0.017 U	0.068	3.9	0.75
SW8082	AROCLOR-1016	ug/kg	6.1 U	5.9 U	5.4 U	4.9 U	4.6 U	5.4 U	4.8 U
SW8082	AROCLOR-1221	ug/kg	6.1 U	5.9 U	5.4 U	4.9 U	4.6 U	5.4 U	4.8 U
SW8082	AROCLOR-1232	ug/kg	6.1 U	5.9 U	5.4 U	4.9 U	4.6 U	5.4 U	4.8 U
SW8082	AROCLOR-1242	ug/kg	6.1 U	5.9 U	5.4 U	4.9 U	4.6 U	5.4 U	4.8 U
SW8082	AROCLOR-1248	ug/kg	6.1 U	5.9 U	5.4 U	4.9 U	4.6 U	5.4 U	4.8 U
SW8082	AROCLOR-1254	ug/kg	6.1 U	5.9 U	5.4 U	4.9 U	4.6 U	5.4 U	4.8 U
SW8082	AROCLOR-1260	ug/kg	6.1 U	5.9 U	5.4 U	4.9 U	4.6 U	5.4 U	4.8 U
SW8082	AROCLOR-1268	ug/kg	6.1 U	5.9 U	5.4 U	4.9 U	4.6 U	5.4 U	4.8 U
SW8082	PCBS, N.O.S.	ug/kg	6.1 U	5.9 U	5.4 U	4.9 U	4.6 U	5.4 U	4.8 U
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	10 U	9.8 U	9.1 U	8.2 U	7.4 U	22 U	40 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	10 U	9.8 U	9.1 U	8.2 U	7.4 U	22 U	40 U
SW8260	1,2-DICHLOROBENZENE	ug/kg	10 U	9.8 U	9.1 U	8.2 U	7.4 U	22 U	6.8 J
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	10 U	9.8 U	9.1 U	8.2 U	7.4 U	22 U	40 U
SW8260	1,3-DICHLOROBENZENE	ug/kg	10 U	9.8 U	9.1 U	8.2 U	7.4 U	22 U	40 U
SW8260	1,4-DICHLOROBENZENE	ug/kg	10 U	9.8 U	9.1 U	8.2 U	7.4 U	22 U	4.5 J
SW8260	BENZENE	ug/kg	8.2	7.1	1.7 J	0.91 J	1.5 U	2.3 J	7.2 J
SW8260	CHLOROBENZENE	ug/kg	10 U	9.8 U	9.1 U	8.2 U	7.4 U	22 U	40 U
SW8260	ETHYLBENZENE	ug/kg	10.6	3.6	1.8 U	1.6 U	1.5 U	49.4	792 J
SW8260	NAPHTHALENE	ug/kg	399	95.4	5.8 J	8.2 U	7.4 U	9460	56300 J
SW8260	O-XYLENE	ug/kg	6.3	2.8	1.8 U	1.6 U	1.5 U	98.6	538 J
SW8260	TOLUENE	ug/kg	6.7	1.7 J	0.76 J	1.6 U	0.49 J	13.9	102 J
SW8260	XYLENES, M & P	ug/kg	12	4.8	3.7 U	3.3 U	1.1 J	59.4	321 J
SW8260	XYLENES, TOTAL	ug/kg	18.3	7.6	1.2 J	3.3 U	1.7 J	158	859 J
SW8270	ACENAPHTHENE	ug/kg	11000	672	268	4.1 U	88.9	1980	7970 J
SW8270	ACENAPHTHYLENE	ug/kg	3800	1260	207	4.1 U	162	1270	1310
SW8270	ANTHRACENE	ug/kg	23800	6530	1980	4.1 U	170	1880	6230 J
SW8270	BENZO(A)ANTHRACENE	ug/kg	25500 J	13400 J	4280 J	4.1 UJ	405 J	2280 J	3320 J
SW8270	BENZO(A)PYRENE	ug/kg	14200	7300	2780	4.1 U	176	1590	1510
SW8270	BENZO(B)FLUORANTHENE	ug/kg	15700	4860	1860 J	4.1 U	140 J	1190 J	1090 J
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	7680	3570	1900	4.1 U	88.5	720	642
SW8270	BENZO(K)FLUORANTHENE	ug/kg	4440 J	2030 J	1900 J	4.1 UJ	126 J	761 J	940 J
SW8270	CHRYSENE	ug/kg	14500	7490	2520	4.1 U	219	1590	2470
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	3610	1740	771	4.1 U	66.2	520	293
SW8270	FLUORANTHENE	ug/kg	31500 J	10700	4310	4.1 U	404	2080	4160 J
SW8270	FLUORENE	ug/kg	12800	1820	458	4.1 U	56.1	1690	6470 J
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	7000	2730	1500	4.1 U	97.1	750	674
SW8270	PHENANTHRENE	ug/kg	63200 J	12700	3780	4.1 U	183	4340 J	16900 J
SW8270	PYRENE	ug/kg	53000 J	23800	6860 J	4.1 U	592	4760 J	7300 J
SW9045	pH	S.U.	7.52	7.55	7.45	7.67	7.66	7.19	7.74

**Table A1  
Validated Sediment, SMU-5 Sediment, and Follow-Up Sediment Analytical Data**

		Location	OL-VC-60268	OL-VC-60268	OL-VC-60268	OL-VC-60268	OL-VC-60268	OL-VC-60268	OL-VC-60268	OL-VC-60268
		Sample Depth	2-3 Ft	3-4 Ft	4-5 Ft	5-6 Ft	6-7 Ft	7-8 Ft	8-9 Ft	
		Field Sample ID	OL-1288-04	OL-1288-05	OL-1288-06	OL-1288-07	OL-1288-08	OL-1288-09	OL-1288-10	
		Sample Date	6/11/2010	6/11/2010	6/11/2010	6/11/2010	6/11/2010	6/11/2010	6/11/2010	
		SDG	JA48911 JA48912R	JA48911 JA48912R	JA48911 JA48912R	JA48911 JA48912R	JA48911 JA48912R	JA48911 JA48912R	JA48911 JA48912R	
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Sample Purpose	Field duplicate	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
		Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	
Method	Parameter Name	Units								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	27400	5540	12200	25300	20800	23400	27100	
SM2540G	SOLIDS, PERCENT	%	70.4	64.5	55.7	64.5	63.7	57.8	58.9	
SW7471	MERCURY	mg/kg	0.81	0.13	0.33	0.66	0.23	0.42	0.88	
SW8082	AROCLOR-1016	ug/kg	4.7 U	5.2 U	6 U	5.2 U	5.2 U	5.8 U	5.7 U	
SW8082	AROCLOR-1221	ug/kg	4.7 U	5.2 U	6 U	5.2 U	5.2 U	5.8 U	5.7 U	
SW8082	AROCLOR-1232	ug/kg	4.7 U	5.2 U	6 U	5.2 U	5.2 U	5.8 U	5.7 U	
SW8082	AROCLOR-1242	ug/kg	4.7 U	5.2 U	6 U	5.2 U	5.2 U	5.8 U	5.7 U	
SW8082	AROCLOR-1248	ug/kg	4.7 U	5.2 U	6 U	5.2 U	5.2 U	5.8 U	5.7 U	
SW8082	AROCLOR-1254	ug/kg	4.7 U	5.2 U	6 U	5.2 U	5.2 U	5.8 U	5.7 U	
SW8082	AROCLOR-1260	ug/kg	4.7 U	5.2 U	6 U	5.2 U	5.2 U	5.8 U	5.7 U	
SW8082	AROCLOR-1268	ug/kg	4.7 U	5.2 U	6 U	5.2 U	5.2 U	5.8 U	5.7 U	
SW8082	PCBS, N.O.S.	ug/kg	4.7 U	5.2 U	6 U	5.2 U	5.2 U	5.8 U	5.7 U	
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	440 U	8.1 U	9.7 U	8.6 U	8.6 U	9.5 U	9 U	
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	440 U	8.1 U	9.7 U	8.6 U	8.6 U	9.5 U	9 U	
SW8260	1,2-DICHLOROBENZENE	ug/kg	440 U	8.1 U	9.7 U	8.6 U	8.6 U	9.5 U	9 U	
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	440 U	8.1 U	9.7 U	8.6 U	8.6 U	9.5 U	9 U	
SW8260	1,3-DICHLOROBENZENE	ug/kg	440 U	8.1 U	9.7 U	8.6 U	8.6 U	9.5 U	9 U	
SW8260	1,4-DICHLOROBENZENE	ug/kg	440 U	8.1 U	9.7 U	8.6 U	8.6 U	9.5 U	9 U	
SW8260	BENZENE	ug/kg	89 U	0.61 J	1.9 U	0.85 J	0.63 J	0.93 J	1.7 J	
SW8260	CHLOROBENZENE	ug/kg	440 U	8.1 U	9.7 U	8.6 U	8.6 U	9.5 U	9 U	
SW8260	ETHYLBENZENE	ug/kg	1930 J	1.9	1.9 U	1.8	1.5 J	1.7 J	1.8	
SW8260	NAPHTHALENE	ug/kg	92600 J	69.1	31.4	134	66.9	23	31	
SW8260	O-XYLENE	ug/kg	1230 J	19.8	4.2 J	3.3	2.5	2.2	1.4 J	
SW8260	TOLUENE	ug/kg	180 J	0.99 J	1.9 U	2.2	2	2.1	1.4 J	
SW8260	XYLENES, M & P	ug/kg	706 J	4.4	1.3 J	5	4.6	4.3	2.9 J	
SW8260	XYLENES, TOTAL	ug/kg	1940 J	24.3	5.5	8.3	7	6.5	4.3	
SW8270	ACENAPHTHENE	ug/kg	4590 J	57.1	207	316	164	123	317	
SW8270	ACENAPHTHYLENE	ug/kg	898	15.8	426	402	291	103	332	
SW8270	ANTHRACENE	ug/kg	4250 J	53.8	816	1350	919	641	2430 J	
SW8270	BENZO(A)ANTHRACENE	ug/kg	2550 J	48.8 J	1590 J	2120 J	1470 J	1160 J	3230 J	
SW8270	BENZO(A)PYRENE	ug/kg	924	16.6	620	986	852	553	2190	
SW8270	BENZO(B)FLUORANTHENE	ug/kg	552 J	15.1	387 J	994 J	631 J	573 J	2320 J	
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	388	9.84	250	552	479	323	1070	
SW8270	BENZO(K)FLUORANTHENE	ug/kg	161 J	11.2 J	254 J	469 J	555 J	174 J	960 J	
SW8270	CHRYSENE	ug/kg	1800	30.6	836	1190	1030	620	2470 J	
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	275	5.5	147	302	273	155	609	
SW8270	FLUORANTHENE	ug/kg	3050	52.4	1620	1890	1570	1050	4580 J	
SW8270	FLUORENE	ug/kg	4280 J	46.6	473	522	289	184	651	
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	429	12.8	233	533	454	238	1010	
SW8270	PHENANTHRENE	ug/kg	11300 J	182	2430	2070	1550	1060	4620 J	
SW8270	PYRENE	ug/kg	5180 J	80.5	2840 J	2860	2390 J	1750	6150 J	
SW9045	pH	S.U.	7.66	7.34	7.33	7.51	7.56	7.57	7.57	

**Table A1**  
**Validated Sediment, SMU-5 Sediment, and Follow-Up Sediment Analytical Data**

		Location	OL-VC-60268	OL-VC-60268	OL-VC-60268	OL-VC-60269	OL-VC-60269	OL-VC-60269	OL-VC-60269	OL-VC-60269
		Sample Depth	9-10 Ft	10-11 Ft	11-12 Ft	0-1 Ft	1-2 Ft	2-3 Ft	3-4 Ft	4-5 Ft
		Field Sample ID	OL-1288-11	OL-1288-12	OL-1288-13	OL-1285-07	OL-1285-08	OL-1285-09	OL-1285-10	OL-1285-11
		Sample Date	6/11/2010	6/11/2010	6/11/2010	6/10/2010	6/10/2010	6/10/2010	6/10/2010	6/10/2010
		SDG	JA48911 JA48912R	JA48911 JA48912R	JA48911 JA48912R	JA48776	JA48776	JA48776	JA48776	JA48776
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Method	Parameter Name	Units								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	24900	30800	19000	10400 J	9790 J	9360 J	11800 J	14200 J
SM2540G	SOLIDS, PERCENT	%	57.7	59.6	62.1	72.5	65.4	72.6	59.5	62.3
SW7471	MERCURY	mg/kg	1.4	0.39	0.076	0.16	0.044 J	0.015 J	0.019 U	0.025 J
SW8082	AROCLOR-1016	ug/kg	5.8 U	5.6 U	5.4 U	4.6 U	5.1 U	4.6 U	5.5 U	5.3 U
SW8082	AROCLOR-1221	ug/kg	5.8 U	5.6 U	5.4 U	4.6 U	5.1 U	4.6 U	5.5 U	5.3 U
SW8082	AROCLOR-1232	ug/kg	5.8 U	5.6 U	5.4 U	4.6 U	5.1 U	4.6 U	5.5 U	5.3 U
SW8082	AROCLOR-1242	ug/kg	5.8 U	5.6 U	5.4 U	4.6 U	5.1 U	4.6 U	5.5 U	5.3 U
SW8082	AROCLOR-1248	ug/kg	5.8 U	5.6 U	5.4 U	4.6 U	5.1 U	4.6 U	5.5 U	5.3 U
SW8082	AROCLOR-1254	ug/kg	5.8 U	5.6 U	5.4 U	4.6 U	5.1 U	4.6 U	5.5 U	5.3 U
SW8082	AROCLOR-1260	ug/kg	5.8 U	5.6 U	5.4 U	4.6 U	5.1 U	4.6 U	5.5 U	5.3 U
SW8082	AROCLOR-1268	ug/kg	5.8 U	5.6 U	5.4 U	4.6 U	5.1 U	4.6 U	5.5 U	5.3 U
SW8082	PCBS, N.O.S.	ug/kg	5.8 U	5.6 U	5.4 U	4.6 U	5.1 U	4.6 U	5.5 U	5.3 U
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	9.6 U	9.2 U	8.4 U	7.7 U	8.5 U	7.7 U	9.3 U	8.9 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	9.6 U	9.2 U	8.4 U	7.7 U	8.5 U	7.7 U	9.3 U	8.9 U
SW8260	1,2-DICHLOROBENZENE	ug/kg	9.6 U	9.2 U	8.4 U	7.7 U	8.5 U	7.7 U	9.3 U	8.9 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	9.6 U	9.2 U	8.4 U	7.7 U	8.5 U	7.7 U	9.3 U	8.9 U
SW8260	1,3-DICHLOROBENZENE	ug/kg	9.6 U	9.2 U	8.4 U	7.7 U	8.5 U	7.7 U	9.3 U	8.9 U
SW8260	1,4-DICHLOROBENZENE	ug/kg	9.6 U	9.2 U	8.4 U	7.7 U	8.5 U	7.7 U	9.3 U	8.9 U
SW8260	BENZENE	ug/kg	0.98 J	0.99 J	1.7 U	1.5 U	1.7 U	1.5 U	1.9 U	1.8 U
SW8260	CHLOROBENZENE	ug/kg	9.6 U	9.2 U	8.4 U	7.7 U	8.5 U	7.7 U	9.3 U	8.9 U
SW8260	ETHYLBENZENE	ug/kg	1.7 J	1.3 J	0.91 J	1.5 U	1.7 U	1.5 U	1.9 U	1.8 U
SW8260	NAPHTHALENE	ug/kg	16.6	9.8	3.1 J	7.7 U	8.5 U	7.7 U	9.3 U	8.9 U
SW8260	O-XYLENE	ug/kg	1.7 J	1.4 J	1.2 J	1.5 U	1.7 U	1.5 U	1.9 U	1.8 U
SW8260	TOLUENE	ug/kg	1.9	1.6 J	1.5 J	1.5 U	1.7 U	1.5 U	1.9 U	0.54 J
SW8260	XYLENES, M & P	ug/kg	4	3.1 J	2.8 J	3.1 U	3.4 U	3.1 U	3.7 U	3.6 U
SW8260	XYLENES, TOTAL	ug/kg	5.7	4.5	4	3.1 U	3.4 U	3.1 U	3.7 U	3.6 U
SW8270	ACENAPHTHENE	ug/kg	143	186	81.5	314	611	163	5.1 U	4.8 U
SW8270	ACENAPHTHYLENE	ug/kg	123	79.4	20.2	194	403	96.4	5.1 U	4.8 U
SW8270	ANTHRACENE	ug/kg	897	862	181	497	3320	1010	5.1 U	4.8 U
SW8270	BENZO(A)ANTHRACENE	ug/kg	1700 J	1700 J	520 J	986	4440	1490	5.1 U	4.8 U
SW8270	BENZO(A)PYRENE	ug/kg	1010	1070	289	872	3110	1050	5.1 U	4.8 U
SW8270	BENZO(B)FLUORANTHENE	ug/kg	707	731	263 J	749	2400	732	5.1 UJ	4.8 UJ
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	668	697	143	252	528	188	5.1 U	4.8 U
SW8270	BENZO(K)FLUORANTHENE	ug/kg	618	719	109 J	615	2660	995	5.1 U	4.8 U
SW8270	CHRYSENE	ug/kg	836	844	223	989	3560	1220	5.1 U	4.8 U
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	317	337	73.1	126	352	135	5.1 U	4.8 U
SW8270	FLUORANTHENE	ug/kg	1610	1970	533	1490	7070	2340	5.1 U	4.8 U
SW8270	FLUORENE	ug/kg	229	212	80.5	159	1090	399	5.1 U	4.8 U
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	580	626	127	288	751	254	5.1 U	4.8 U
SW8270	PHENANTHRENE	ug/kg	1630	1650	486	1110	5280	1620	5.1 U	4.8 U
SW8270	PYRENE	ug/kg	2380 J	2520 J	735	1710	5300	1750	5.1 U	4.8 U
SW9045	pH	S.U.	7.57	7.3	7.65	7.68	7.58	7.79	7.29	7.28

**Table A1  
Validated Sediment, SMU-5 Sediment, and Follow-Up Sediment Analytical Data**

		Location	OL-VC-60269	OL-VC-60270	OL-VC-60270	OL-VC-60270	OL-VC-60270	OL-VC-60270	OL-VC-60270	OL-VC-60270
		Sample Depth	5-6 Ft	0-1 Ft	1-2 Ft	2-3 Ft	3-4 Ft	4-5 Ft	5-6 Ft	5-6 Ft
		Field Sample ID	OL-1285-12	OL-1282-01	OL-1282-02	OL-1282-03	OL-1282-04	OL-1282-05	OL-1282-06	OL-1282-06
		Sample Date	6/10/2010	6/10/2010	6/10/2010	6/10/2010	6/10/2010	6/10/2010	6/10/2010	6/10/2010
		SDG	JA48776	JA48749R JA48747	JA48749R JA48747	JA48749R JA48747	JA48749R JA48747	JA48749R JA48747	JA48749R JA48747	JA48749R JA48747
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Method	Parameter Name	Units								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	15000 J	16200	13800	11000	13300	15300	18600	
SM2540G	SOLIDS, PERCENT	%	63.2	66.7	64.5	73.7	69.7	57.8	58.5	
SW7471	MERCURY	mg/kg	0.018 U	0.19	0.087	0.12	0.1	0.02 U	0.019 U	
SW8082	AROCLOR-1016	ug/kg	5.2 U	5 U	5.1 U	4.5 U	4.8 U	5.7 U	5.6 U	
SW8082	AROCLOR-1221	ug/kg	5.2 U	5 U	5.1 U	4.5 U	4.8 U	5.7 U	5.6 U	
SW8082	AROCLOR-1232	ug/kg	5.2 U	5 U	5.1 U	4.5 U	4.8 U	5.7 U	5.6 U	
SW8082	AROCLOR-1242	ug/kg	5.2 U	5 U	5.1 U	4.5 U	4.8 U	5.7 U	5.6 U	
SW8082	AROCLOR-1248	ug/kg	5.2 U	36.2 J	5.1 U	4.5 U	4.8 U	5.7 U	5.6 U	
SW8082	AROCLOR-1254	ug/kg	5.2 U	10.9 J	5.1 U	4.5 U	4.8 U	5.7 U	5.6 U	
SW8082	AROCLOR-1260	ug/kg	5.2 U	5 U	5.1 U	4.5 U	4.8 U	5.7 U	5.6 U	
SW8082	AROCLOR-1268	ug/kg	5.2 U	5 U	5.1 U	4.5 U	4.8 U	5.7 U	5.6 U	
SW8082	PCBS, N.O.S.	ug/kg	5.2 U	47.2 J	5.1 U	4.5 U	4.8 U	5.7 U	5.6 U	
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	8.8 U	7.6 U	7.8 U	6.8 U	8 U	8.8 U	9.1 U	
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	8.8 U	7.6 U	7.8 U	6.8 U	8 U	8.8 U	9.1 U	
SW8260	1,2-DICHLOROBENZENE	ug/kg	8.8 U	7.6 U	7.8 U	6.8 U	8 U	8.8 U	9.1 U	
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	8.8 U	7.6 U	7.8 U	6.8 U	8 U	8.8 U	9.1 U	
SW8260	1,3-DICHLOROBENZENE	ug/kg	8.8 U	7.6 U	7.8 U	6.8 U	8 U	8.8 U	9.1 U	
SW8260	1,4-DICHLOROBENZENE	ug/kg	8.8 U	7.6 U	7.8 U	6.8 U	8 U	8.8 U	9.1 U	
SW8260	BENZENE	ug/kg	1.8 U	1.5 U	1.6 U	1.4 U	1.6 U	1.8 U	1.8 U	
SW8260	CHLOROBENZENE	ug/kg	8.8 U	7.6 U	7.8 U	6.8 U	8 U	8.8 U	9.1 U	
SW8260	ETHYLBENZENE	ug/kg	1.8 U	1.5 U	1.6 U	1.4 U	1.6 U	1.8 U	1.8 U	
SW8260	NAPHTHALENE	ug/kg	8.8 U	1.7 J	7.8 U	1.7 J	1.3 J	8.8 U	9.1 U	
SW8260	O-XYLENE	ug/kg	1.8 U	1.5 U	1.6 U	1.4 U	1.6 U	1.8 U	1.8 U	
SW8260	TOLUENE	ug/kg	0.59 J	0.55 J	0.85 J	0.99 J	0.76 J	0.74 J	1.8 U	
SW8260	XYLENES, M & P	ug/kg	3.5 U	3.1 U	3.1 U	2.7 U	3.2 U	3.5 U	3.6 U	
SW8260	XYLENES, TOTAL	ug/kg	3.5 U	3.1 U	3.1 U	2.7 U	3.2 U	3.5 U	3.6 U	
SW8270	ACENAPHTHENE	ug/kg	4.8 U	142	98.4	222 J	7.93	5 U	4.8 U	
SW8270	ACENAPHTHYLENE	ug/kg	4.8 U	90.9	81.7	232 J	8.53	5 U	4.8 U	
SW8270	ANTHRACENE	ug/kg	4.8 U	277	669 J	1560 J	36.8	5 U	4.8 U	
SW8270	BENZO(A)ANTHRACENE	ug/kg	4.8 U	712 J	640 J	854 J	119 J	5 U	4.8 U	
SW8270	BENZO(A)PYRENE	ug/kg	4.8 U	262	674 J	1230 J	50.3	5 U	4.8 U	
SW8270	BENZO(B)FLUORANTHENE	ug/kg	4.8 U	293	1120 J	1920 J	62.5	5 U	4.8 U	
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	4.8 U	115	285 J	540 J	17.8	5 U	4.8 U	
SW8270	BENZO(K)FLUORANTHENE	ug/kg	4.8 U	169	179	487 J	25.3	5 U	4.8 U	
SW8270	CHRYSENE	ug/kg	4.8 U	334	655 J	1260 J	55.7	5 U	4.8 U	
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	4.8 U	81.3	224	459 J	16.8	5 U	4.8 U	
SW8270	FLUORANTHENE	ug/kg	12.3	686	1630 J	3020 J	111	5 U	4.8 U	
SW8270	FLUORENE	ug/kg	4.8 U	130	234 J	679 J	16.3	5 U	4.8 U	
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	4.8 U	130	343 J	653 J	23.4	5 U	4.8 U	
SW8270	PHENANTHRENE	ug/kg	14.3	751	1390 J	2800 J	69	5 U	4.8 U	
SW8270	PYRENE	ug/kg	16.8	889	1690 J	3190 J	123	5 U	4.8 U	
SW9045	pH	S.U.	7.24	7.61	7.42	7.33	7.36	7.21	7.13	

**Table A1  
Validated Sediment, SMU-5 Sediment, and Follow-Up Sediment Analytical Data**

		Location	OL-VC-60270	OL-VC-60270	OL-VC-60270	OL-VC-60270	OL-VC-60270	OL-VC-60270	OL-VC-60270	OL-VC-60271
		Sample Depth	6-7 Ft	7-8 Ft	8-9 Ft	9-10 Ft	10-11 Ft	11-12 Ft	0-1 Ft	
		Field Sample ID	OL-1282-07	OL-1282-08	OL-1282-10	OL-1282-11	OL-1282-12	OL-1282-13	OL-1282-14	
		Sample Date	6/10/2010	6/10/2010	6/10/2010	6/10/2010	6/10/2010	6/10/2010	6/10/2010	6/10/2010
		SDG	JA48749R JA48747	JA48749R JA48747	JA48749R JA48747	JA48749R JA48747	JA48749R JA48747	JA48749R JA48747	JA48749R JA48747	JA48749R JA48747
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Method	Parameter Name	Units								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	11300	9450	16300	13900	10900	18600	30400	J
SM2540G	SOLIDS, PERCENT	%	59	60.9	60.6	61.7	65.2	62.6	61	
SW7471	MERCURY	mg/kg	0.019 U	0.019 U	0.069	0.018 U	0.017 U	0.018 U	0.67	
SW8082	AROCLOR-1016	ug/kg	5.6 U	5.5 U	5.4 U	5.4 U	5.1 U	5.3 U	5.4 U	
SW8082	AROCLOR-1221	ug/kg	5.6 U	5.5 U	5.4 U	5.4 U	5.1 U	5.3 U	5.4 U	
SW8082	AROCLOR-1232	ug/kg	5.6 U	5.5 U	5.4 U	5.4 U	5.1 U	5.3 U	5.4 U	
SW8082	AROCLOR-1242	ug/kg	5.6 U	5.5 U	5.4 U	5.4 U	5.1 U	5.3 U	5.4 U	
SW8082	AROCLOR-1248	ug/kg	5.6 U	5.5 U	5.4 U	5.4 U	5.1 U	5.3 U	191 J	
SW8082	AROCLOR-1254	ug/kg	5.6 U	5.5 U	5.4 U	5.4 U	5.1 U	5.3 U	168	
SW8082	AROCLOR-1260	ug/kg	5.6 U	5.5 U	5.4 U	5.4 U	5.1 U	5.3 U	50.5 J	
SW8082	AROCLOR-1268	ug/kg	5.6 U	5.5 U	5.4 U	5.4 U	5.1 U	5.3 U	5.4 U	
SW8082	PCBS, N.O.S.	ug/kg	5.6 U	5.5 U	5.4 U	5.4 U	5.1 U	5.3 U	409 J	
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	8.6 U	8.9 U	8.8 U	9 U	8.3 U	8.3 U	8.4 U	
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	8.6 U	8.9 U	8.8 U	9 U	8.3 U	8.3 U	8.4 U	
SW8260	1,2-DICHLOROBENZENE	ug/kg	8.6 U	8.9 U	8.8 U	9 U	8.3 U	8.3 U	8.4 U	
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	8.6 U	8.9 U	8.8 U	9 U	8.3 U	8.3 U	8.4 U	
SW8260	1,3-DICHLOROBENZENE	ug/kg	8.6 U	8.9 U	8.8 U	9 U	8.3 U	8.3 U	8.4 U	
SW8260	1,4-DICHLOROBENZENE	ug/kg	8.6 U	8.9 U	8.8 U	9 U	8.3 U	8.3 U	8.4 U	
SW8260	BENZENE	ug/kg	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U	1.7 U	0.74 J	
SW8260	CHLOROBENZENE	ug/kg	8.6 U	8.9 U	8.8 U	9 U	8.3 U	8.3 U	8.4 U	
SW8260	ETHYLBENZENE	ug/kg	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U	1.7 U	14.9 J	
SW8260	NAPHTHALENE	ug/kg	8.6 U	8.9 U	8.8 U	9 U	8.3 U	8.3 U	247 J	
SW8260	O-XYLENE	ug/kg	1.7 U	1.8 U	1.8 U	1.8 U	1.7 U	1.7 U	9.5 J	
SW8260	TOLUENE	ug/kg	0.93 J	0.82 J	1.8 U	0.69 J	1.7 U	0.88 J	2.2	
SW8260	XYLENES, M & P	ug/kg	3.5 U	3.6 U	3.5 U	3.6 U	3.3 U	3.3 U	11.7 J	
SW8260	XYLENES, TOTAL	ug/kg	3.5 U	3.6 U	3.5 U	3.6 U	3.3 U	3.3 U	21.2 J	
SW8270	ACENAPHTHENE	ug/kg	4.8 U	4.8 U	4.8 U	4.6 U	4.5 U	4.5 U	508	
SW8270	ACENAPHTHYLENE	ug/kg	4.8 U	4.8 U	4.8 U	4.6 U	4.5 U	4.5 U	416	
SW8270	ANTHRACENE	ug/kg	4.8 U	4.8 U	4.8 U	4.6 U	4.5 U	4.5 U	681	
SW8270	BENZO(A)ANTHRACENE	ug/kg	4.8 U	4.8 U	4.8 U	4.6 U	4.5 U	4.5 U	1380 J	
SW8270	BENZO(A)PYRENE	ug/kg	4.8 U	4.8 U	4.8 U	4.6 U	4.5 U	4.5 U	856	
SW8270	BENZO(B)FLUORANTHENE	ug/kg	4.8 U	4.8 U	4.8 U	4.6 U	4.5 U	4.5 U	973	
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	4.8 U	4.8 U	4.8 U	4.6 U	4.5 U	4.5 U	526	
SW8270	BENZO(K)FLUORANTHENE	ug/kg	4.8 U	4.8 U	4.8 U	4.6 U	4.5 U	4.5 U	424	
SW8270	CHRYSENE	ug/kg	4.8 U	4.8 U	4.8 U	4.6 U	4.5 U	4.5 U	835	
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	4.8 U	4.8 U	4.8 U	4.6 U	4.5 U	4.5 U	354	
SW8270	FLUORANTHENE	ug/kg	4.8 U	4.8 U	4.8 U	4.6 U	4.5 U	4.5 U	1590	
SW8270	FLUORENE	ug/kg	4.8 U	4.8 U	4.8 U	4.6 U	4.5 U	4.5 U	496	
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	4.8 U	4.8 U	4.8 U	4.6 U	4.5 U	4.5 U	578	
SW8270	PHENANTHRENE	ug/kg	4.8 U	4.8 U	4.8 U	4.6 U	4.5 U	4.5 U	1890	
SW8270	PYRENE	ug/kg	4.8 U	4.8 U	4.8 U	4.6 U	4.5 U	4.5 U	1970 J	
SW9045	pH	S.U.	7.05	7.01	7.09	7.08	7.02	6.99	7.66	

**Table A1  
Validated Sediment, SMU-5 Sediment, and Follow-Up Sediment Analytical Data**

		Location	OL-VC-60271	OL-VC-60271	OL-VC-60271	OL-VC-60271	OL-VC-60271	OL-VC-60271	OL-VC-60271	OL-VC-60271
		Sample Depth	0-1 Ft	1-2 Ft	2-3 Ft	3-4 Ft	4-5 Ft	5-6 Ft	6-7 Ft	
		Field Sample ID	OL-1282-15	OL-1282-16	OL-1282-17	OL-1282-18	OL-1282-19	OL-1282-20	OL-1284-01	
		Sample Date	6/10/2010	6/10/2010	6/10/2010	6/10/2010	6/10/2010	6/10/2010	6/10/2010	
		SDG	JA48749R JA48747	JA48749R JA48747	JA48749R JA48747	JA48749R JA48747	JA48749R JA48747	JA48749R JA48747	JA48746 JA48748R	
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Sample Purpose	Field duplicate	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
		Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	
Method	Parameter Name	Units								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	71600 J	38000	16200	26700	12100	13700	6870	
SM2540G	SOLIDS, PERCENT	%	62.1	56.8	59.9	56.8	54.5	55.4	59.2	
SW7471	MERCURY	mg/kg	0.82	0.79	0.023 J	0.02 U	0.021 U	0.02 U	0.019 U	
SW8082	AROCLOR-1016	ug/kg	5.3 U	5.8 U	5.6 U	5.8 U	6.1 U	6 U	4.9 U	
SW8082	AROCLOR-1221	ug/kg	5.3 U	5.8 U	5.6 U	5.8 U	6.1 U	6 U	4.9 U	
SW8082	AROCLOR-1232	ug/kg	5.3 U	5.8 U	5.6 U	5.8 U	6.1 U	6 U	4.9 U	
SW8082	AROCLOR-1242	ug/kg	5.3 U	5.8 U	5.6 U	5.8 U	6.1 U	6 U	4.9 U	
SW8082	AROCLOR-1248	ug/kg	20.2 J	5.8 U	5.6 U	5.8 U	6.1 U	6 U	4.9 U	
SW8082	AROCLOR-1254	ug/kg	5.3 U	5.8 U	5.6 U	5.8 U	6.1 U	6 U	4.9 U	
SW8082	AROCLOR-1260	ug/kg	13.4 J	5.8 U	5.6 U	5.8 U	6.1 U	6 U	4.9 U	
SW8082	AROCLOR-1268	ug/kg	5.3 U	5.8 U	5.6 U	5.8 U	6.1 U	6 U	4.9 U	
SW8082	PCBS, N.O.S.	ug/kg	33.6 J	5.8 U	5.6 U	5.8 U	6.1 U	6 U	4.9 U	
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	9.1 U	650 U	8.7 U	9.4 U	9.2 U	9.4 U	9.4 U	
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	9.1 U	650 U	8.7 U	9.4 U	9.2 U	9.4 U	9.4 U	
SW8260	1,2-DICHLOROBENZENE	ug/kg	9.1 U	650 U	8.7 U	9.4 U	9.2 U	9.4 U	9.4 U	
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	9.1 U	650 U	8.7 U	9.4 U	9.2 U	9.4 U	9.4 U	
SW8260	1,3-DICHLOROBENZENE	ug/kg	9.1 U	650 U	8.7 U	9.4 U	9.2 U	9.4 U	9.4 U	
SW8260	1,4-DICHLOROBENZENE	ug/kg	9.1 U	650 U	8.7 U	9.4 U	9.2 U	9.4 U	9.4 U	
SW8260	BENZENE	ug/kg	1.8 U	130 U	1.7 U	1.9 U	1.8 U	1.9 U	1.9 U	
SW8260	CHLOROBENZENE	ug/kg	9.1 U	650 U	8.7 U	9.4 U	9.2 U	9.4 U	9.4 U	
SW8260	ETHYLBENZENE	ug/kg	5.6 J	763	1.5 J	1.9 U	1.8 U	1.9 U	1.9 U	
SW8260	NAPHTHALENE	ug/kg	94.4 J	19300	29.3	9.4 U	9.2 U	9.4 U	9.4 U	
SW8260	O-XYLENE	ug/kg	3.4 J	366	1.1 J	1.9 U	1.8 U	1.9 U	1.9 U	
SW8260	TOLUENE	ug/kg	1.2 J	278	1.7 U	0.58 J	0.66 J	1.9 U	1.9 U	
SW8260	XYLENES, M & P	ug/kg	4.4 J	542	0.86 J	3.7 U	3.7 U	3.8 U	3.8 U	
SW8260	XYLENES, TOTAL	ug/kg	7.8 J	908	2 J	3.7 U	3.7 U	3.8 U	3.8 U	
SW8270	ACENAPHTHENE	ug/kg	473	4730	42.8	5.3 U	5.5 U	5.2 U	5 U	
SW8270	ACENAPHTHYLENE	ug/kg	498	1820	13.7	5.3 U	5.5 U	5.2 U	5 U	
SW8270	ANTHRACENE	ug/kg	927	5310	92.4	5.3 U	5.5 U	5.2 U	5 U	
SW8270	BENZO(A)ANTHRACENE	ug/kg	2070 J	8520 J	173 J	5.3 UJ	5.5 UJ	5.2 UJ	5 U	
SW8270	BENZO(A)PYRENE	ug/kg	1340	2940	94.2	5.3 U	5.5 U	5.2 U	5 U	
SW8270	BENZO(B)FLUORANTHENE	ug/kg	1690	3250	131	5.3 U	5.5 U	5.2 U	5 UJ	
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	848	985	36.1	5.3 U	5.5 U	5.2 U	5 U	
SW8270	BENZO(K)FLUORANTHENE	ug/kg	679	437 J	41.5	5.3 UJ	5.5 UJ	5.2 U	5 UJ	
SW8270	CHRYSENE	ug/kg	1370	3900	95.8	5.3 U	5.5 U	5.2 U	5 UJ	
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	565	742	28.8	5.3 U	5.5 U	5.2 U	5 U	
SW8270	FLUORANTHENE	ug/kg	2790 J	8060	208	5.3 U	5.5 U	5.2 U	5 U	
SW8270	FLUORENE	ug/kg	550	5390	19.9	5.3 U	5.5 U	5.2 U	5 U	
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	932	1630	45.4	5.3 U	5.5 U	5.2 U	5 U	
SW8270	PHENANTHRENE	ug/kg	2640 J	18600	156	5.3 U	5.5 U	5.2 U	5 U	
SW8270	PYRENE	ug/kg	3200 J	12000	226 J	5.3 U	5.5 U	5.2 U	5 U	
SW9045	pH	S.U.	7.55	7.66	7.46	7.19	7.12	7.05	7.17	

**Table A1  
Validated Sediment, SMU-5 Sediment, and Follow-Up Sediment Analytical Data**

		Location	OL-VC-60271	OL-VC-60271	OL-VC-60271	OL-VC-60272	OL-VC-60272	OL-VC-60272	OL-VC-60272	OL-VC-60272
		Sample Depth	7-8 Ft	8-9 Ft	9-10 Ft	0-1 Ft	0-1 Ft	1-2 Ft	2-3 Ft	
		Field Sample ID	OL-1284-02	OL-1284-03	OL-1284-04	OL-1290-06	OL-1290-07	OL-1290-08	OL-1290-09	
		Sample Date	6/10/2010	6/10/2010	6/10/2010	6/11/2010	6/11/2010	6/11/2010	6/11/2010	
		SDG	JA48746 JA48748R	JA48746 JA48748R	JA48746 JA48748R	JA48914 JA48913R	JA48914 JA48913R	JA48914 JA48913R	JA48914 JA48913R	
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Field duplicate	Regular sample	Regular sample	
		Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	
Method	Parameter Name	Units								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	9640	7770	13100	25200	33600	13800	15100	
SM2540G	SOLIDS, PERCENT	%	59.7	60	54.3	72.2	69.1	81.1	65.3	
SW7471	MERCURY	mg/kg	0.018 U	0.018 U	0.02 U	0.32	0.48	0.051	0.018 U	
SW8082	AROCLOR-1016	ug/kg	4.8 U	4.9 U	5.3 U	4.6 U	4.8 U	4.1 U	5.1 U	
SW8082	AROCLOR-1221	ug/kg	4.8 U	4.9 U	5.3 U	4.6 U	4.8 U	4.1 U	5.1 U	
SW8082	AROCLOR-1232	ug/kg	4.8 U	4.9 U	5.3 U	4.6 U	4.8 U	4.1 U	5.1 U	
SW8082	AROCLOR-1242	ug/kg	4.8 U	4.9 U	5.3 U	4.6 U	4.8 U	4.1 U	5.1 U	
SW8082	AROCLOR-1248	ug/kg	4.8 U	4.9 U	5.3 U	4.6 U	4.8 U	4.1 U	5.1 U	
SW8082	AROCLOR-1254	ug/kg	4.8 U	4.9 U	5.3 U	4.6 U	4.8 U	4.1 U	5.1 U	
SW8082	AROCLOR-1260	ug/kg	4.8 U	4.9 U	5.3 U	4.6 U	4.8 U	4.1 U	5.1 U	
SW8082	AROCLOR-1268	ug/kg	4.8 U	4.9 U	5.3 U	4.6 U	4.8 U	4.1 U	5.1 U	
SW8082	PCBS, N.O.S.	ug/kg	4.8 U	4.9 U	5.3 U	4.6 U	4.8 U	4.1 U	5.1 U	
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	9.3 U	9.3 U	10 U	7.7 U	7.5 U	6.9 U	8.5 U	
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	9.3 U	9.3 U	10 U	7.7 U	7.5 U	6.9 U	8.5 U	
SW8260	1,2-DICHLOROBENZENE	ug/kg	9.3 U	9.3 U	10 U	7.7 U	7.5 U	6.9 U	8.5 U	
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	9.3 U	9.3 U	10 U	7.7 U	7.5 U	6.9 U	8.5 U	
SW8260	1,3-DICHLOROBENZENE	ug/kg	9.3 U	9.3 U	10 U	7.7 U	7.5 U	6.9 U	8.5 U	
SW8260	1,4-DICHLOROBENZENE	ug/kg	9.3 U	9.3 U	10 U	7.7 U	7.5 U	6.9 U	8.5 U	
SW8260	BENZENE	ug/kg	1.9 U	1.9 U	2 U	0.92 J	1.5 U	1.4 U	1.7 U	
SW8260	CHLOROBENZENE	ug/kg	9.3 U	9.3 U	10 U	7.7 U	7.5 U	6.9 U	8.5 U	
SW8260	ETHYLBENZENE	ug/kg	1.9 U	1.9 U	2 U	1.5	1.5 U	0.68 J	1.7 U	
SW8260	NAPHTHALENE	ug/kg	9.3 U	9.3 U	10 U	5.3 J	7.5 U	15.6	8.5 U	
SW8260	O-XYLENE	ug/kg	1.9 U	1.9 U	2 U	4.5	1.5 U	2.9	1.1 J	
SW8260	TOLUENE	ug/kg	1.9 U	1.9 U	2 U	1.6	1.1 J	1.3 J	1.2 J	
SW8260	XYLENES, M & P	ug/kg	3.7 U	3.7 U	4.1 U	4.5	1.6 J	3.3	1.4 J	
SW8260	XYLENES, TOTAL	ug/kg	3.7 U	3.7 U	4.1 U	9	2.2 J	6.3	2.4 J	
SW8270	ACENAPHTHENE	ug/kg	4.8 U	4.8 U	5.2 U	2540	1770	1560	153	
SW8270	ACENAPHTHYLENE	ug/kg	4.8 U	4.8 U	5.2 U	855	703	1000	11.8	
SW8270	ANTHRACENE	ug/kg	4.8 U	4.8 U	5.2 U	2410	1480	4400 J	206	
SW8270	BENZO(A)ANTHRACENE	ug/kg	4.8 U	4.8 U	5.2 U	3270 J	2840 J	5020 J	147 J	
SW8270	BENZO(A)PYRENE	ug/kg	4.8 U	4.8 U	5.2 U	1720	1450	4300 J	53.8	
SW8270	BENZO(B)FLUORANTHENE	ug/kg	4.8 UJ	4.8 UJ	5.2 UJ	1410 J	1260 J	5370 J	79.2 J	
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	4.8 U	4.8 U	5.2 U	924	738	1710	19.9	
SW8270	BENZO(K)FLUORANTHENE	ug/kg	4.8 UJ	4.8 UJ	5.2 UJ	126 J	91 J	1470 J	20.2 J	
SW8270	CHRYSENE	ug/kg	4.8 UJ	4.8 UJ	5.2 UJ	2520	2010	5190 J	68.2	
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	4.8 U	4.8 U	5.2 U	559	467	1290	19.7	
SW8270	FLUORANTHENE	ug/kg	4.8 U	4.8 U	5.2 U	4030 J	3090	10100 J	221 J	
SW8270	FLUORENE	ug/kg	4.8 U	4.8 U	5.2 U	188	182	1060	39.2	
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	4.8 U	4.8 U	5.2 U	915	760	1900 J	26.9	
SW8270	PHENANTHRENE	ug/kg	4.8 U	4.8 U	5.2 U	4680 J	2300	5880 J	304 J	
SW8270	PYRENE	ug/kg	4.8 U	4.8 U	5.2 U	6480 J	5100 J	12200 J	220 J	
SW9045	pH	S.U.	7.27	7.15	7.09	7.29	7.32	7.57	7.28	

**Table A1  
Validated Sediment, SMU-5 Sediment, and Follow-Up Sediment Analytical Data**

		Location	OL-VC-60272	OL-VC-60272	OL-VC-60272	OL-VC-60272	OL-VC-60272	OL-VC-60272	OL-VC-60272	OL-VC-60272
		Sample Depth	3-4 Ft	4-5 Ft	5-6 Ft	6-7 Ft	7-8 Ft	8-9 Ft	9-10 Ft	
		Field Sample ID	OL-1290-10	OL-1290-11	OL-1290-12	OL-1290-13	OL-1290-14	OL-1290-15	OL-1290-16	
		Sample Date	6/11/2010	6/11/2010	6/11/2010	6/11/2010	6/11/2010	6/11/2010	6/11/2010	
		SDG	JA48914 JA48913R	JA48914 JA48913R	JA48914 JA48913R	JA48914 JA48913R	JA48914 JA48913R	JA48914 JA48913R	JA48914 JA48913R	
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
		Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	
Method	Parameter Name	Units								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	16800	21400	15000	29300	17500	20400	15700	
SM2540G	SOLIDS, PERCENT	%	68.6	64.4	64.3	63.5	67.1	64.7	67.2	
SW7471	MERCURY	mg/kg	0.018 J	0.025 J	0.018 J	0.018 J	0.022 J	0.032 J	0.022 J	
SW8082	AROCLOR-1016	ug/kg	4.8 U	5.1 U	5.1 U	5.2 U	4.9 U	5.1 U	4.9 U	
SW8082	AROCLOR-1221	ug/kg	4.8 U	5.1 U	5.1 U	5.2 U	4.9 U	5.1 U	4.9 U	
SW8082	AROCLOR-1232	ug/kg	4.8 U	5.1 U	5.1 U	5.2 U	4.9 U	5.1 U	4.9 U	
SW8082	AROCLOR-1242	ug/kg	4.8 U	5.1 U	5.1 U	5.2 U	4.9 U	5.1 U	4.9 U	
SW8082	AROCLOR-1248	ug/kg	4.8 U	5.1 U	5.1 U	5.2 U	4.9 U	5.1 U	4.9 U	
SW8082	AROCLOR-1254	ug/kg	4.8 U	5.1 U	5.1 U	5.2 U	4.9 U	5.1 U	4.9 U	
SW8082	AROCLOR-1260	ug/kg	4.8 U	5.1 U	5.1 U	5.2 U	4.9 U	5.1 U	4.9 U	
SW8082	AROCLOR-1268	ug/kg	4.8 U	5.1 U	5.1 U	5.2 U	4.9 U	5.1 U	4.9 U	
SW8082	PCBS, N.O.S.	ug/kg	4.8 U	5.1 U	5.1 U	5.2 U	4.9 U	5.1 U	4.9 U	
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	8.1 U	8.6 U	8.6 U	8.7 U	7.5 U	9 U	7.9 U	
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	8.1 U	8.6 U	8.6 U	8.7 U	7.5 U	9 U	7.9 U	
SW8260	1,2-DICHLOROBENZENE	ug/kg	8.1 U	8.6 U	8.6 U	8.7 U	7.5 U	9 U	7.9 U	
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	8.1 U	8.6 U	8.6 U	8.7 U	7.5 U	9 U	7.9 U	
SW8260	1,3-DICHLOROBENZENE	ug/kg	8.1 U	8.6 U	8.6 U	8.7 U	7.5 U	9 U	7.9 U	
SW8260	1,4-DICHLOROBENZENE	ug/kg	8.1 U	8.6 U	8.6 U	8.7 U	7.5 U	9 U	7.9 U	
SW8260	BENZENE	ug/kg	1.6 U	1.7 U	1.7 U	1.7 U	1.5 U	1.8 U	1.6 U	
SW8260	CHLOROBENZENE	ug/kg	8.1 U	8.6 U	8.6 U	8.7 U	7.5 U	9 U	7.9 U	
SW8260	ETHYLBENZENE	ug/kg	1.6 U	1.7 U	1.7 U	1.7 U	1.5 U	1.8 U	1.6 U	
SW8260	NAPHTHALENE	ug/kg	8.1 U	8.6 U	8.6 U	8.7 U	7.5 U	9 U	7.9 U	
SW8260	O-XYLENE	ug/kg	1.6 U	1.7 U	1.7 U	1.7 U	1.5 U	1.8 U	1.6 U	
SW8260	TOLUENE	ug/kg	0.87 J	1.7 U	1.7 U	1.7 U	1.5 U	1.8 U	1.6 U	
SW8260	XYLENES, M & P	ug/kg	3.2 U	3.5 U	3.5 U	3.5 U	3 U	3.6 U	3.2 U	
SW8260	XYLENES, TOTAL	ug/kg	3.2 U	3.5 U	3.5 U	3.5 U	3 U	3.6 U	3.2 U	
SW8270	ACENAPHTHENE	ug/kg	4.1 U	4.6 U	4.6 U	4.2 U	4.2 U	4.2 U	4.3 U	
SW8270	ACENAPHTHYLENE	ug/kg	4.1 U	4.6 U	4.6 U	4.2 U	4.2 U	4.2 U	4.3 U	
SW8270	ANTHRACENE	ug/kg	4.1 U	4.6 U	4.6 U	4.2 U	4.2 U	4.2 U	4.3 U	
SW8270	BENZO(A)ANTHRACENE	ug/kg	4.1 UJ	4.6 UJ	4.6 UJ	4.2 UJ	4.2 UJ	4.2 UJ	4.3 UJ	
SW8270	BENZO(A)PYRENE	ug/kg	4.1 U	4.6 U	4.6 U	4.2 U	4.2 U	4.2 U	4.3 U	
SW8270	BENZO(B)FLUORANTHENE	ug/kg	4.1 UJ	4.6 UJ	4.6 UJ	4.2 UJ	4.2 UJ	4.2 UJ	4.3 UJ	
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	4.1 U	4.6 U	4.6 U	4.2 U	4.2 U	4.2 U	4.3 U	
SW8270	BENZO(K)FLUORANTHENE	ug/kg	4.1 UJ	4.6 UJ	4.6 UJ	4.2 UJ	4.2 UJ	4.2 UJ	4.3 UJ	
SW8270	CHRYSENE	ug/kg	4.1 U	4.6 U	4.6 U	4.2 U	4.2 U	4.2 U	4.3 U	
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	4.1 U	4.6 U	4.6 U	4.2 U	4.2 U	4.2 U	4.3 U	
SW8270	FLUORANTHENE	ug/kg	4.1 U	4.6 U	4.6 U	4.2 U	4.2 U	4.2 U	4.3 U	
SW8270	FLUORENE	ug/kg	4.1 U	4.6 U	4.6 U	4.2 U	4.2 U	4.2 U	4.3 U	
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	4.1 U	4.6 U	4.6 U	4.2 U	4.2 U	4.2 U	4.3 U	
SW8270	PHENANTHRENE	ug/kg	4.1 U	4.6 U	4.6 U	4.2 U	4.2 U	4.2 U	4.3 U	
SW8270	PYRENE	ug/kg	4.1 U	4.6 U	4.6 U	4.2 U	4.2 U	4.2 U	4.3 U	
SW9045	pH	S.U.	7.49	7.3	7.34	7.48	7.33	7.45	7.25	



**Table A1  
Validated Sediment, SMU-5 Sediment, and Follow-Up Sediment Analytical Data**

		Location	OL-VC-60272	OL-VC-60273	OL-VC-60273	OL-VC-60273	OL-VC-60273	OL-VC-60273	OL-VC-60273	OL-VC-60273	
		Sample Depth	10-11 Ft	0-1 Ft	1-2 Ft	2-3 Ft	3-4 Ft	3-4 Ft	4-5 Ft		
		Field Sample ID	OL-1290-17	OL-1290-18	OL-1290-19	OL-1290-20	OL-1292-01	OL-1292-02	OL-1292-03		
		Sample Date	6/11/2010	6/11/2010	6/11/2010	6/11/2010	6/11/2010	6/11/2010	6/11/2010		
		SDG	JA48914 JA48913R	JA48914 JA48913R	JA48914 JA48913R	JA48914 JA48913R	JA48916R JA48915	JA48916R JA48915	JA48916R JA48915		
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Field duplicate	Regular sample		
		Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment		
Method	Parameter Name	Units									
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	24300	16700	8560	11500	17100	J	7580	J	17800
SM2540G	SOLIDS, PERCENT	%	62.1	72.6	71	65.1	61.6		61.4		60.1
SW7471	MERCURY	mg/kg	0.017	0.37	0.15	0.016	0.024	J	0.019	U	0.018
SW8082	AROCLOR-1016	ug/kg	5.3	4.6	4.7	5.1	5.4	U	5.4	U	5.5
SW8082	AROCLOR-1221	ug/kg	5.3	4.6	4.7	5.1	5.4	U	5.4	U	5.5
SW8082	AROCLOR-1232	ug/kg	5.3	4.6	4.7	5.1	5.4	U	5.4	U	5.5
SW8082	AROCLOR-1242	ug/kg	5.3	4.6	4.7	5.1	5.4	U	5.4	U	5.5
SW8082	AROCLOR-1248	ug/kg	5.3	4.6	4.7	5.1	5.4	U	5.4	U	5.5
SW8082	AROCLOR-1254	ug/kg	5.3	4.6	4.7	5.1	5.4	U	5.4	U	5.5
SW8082	AROCLOR-1260	ug/kg	5.3	4.6	4.7	5.1	5.4	U	5.4	U	5.5
SW8082	AROCLOR-1268	ug/kg	5.3	4.6	4.7	5.1	5.4	U	5.4	U	5.5
SW8082	PCBS, N.O.S.	ug/kg	5.3	4.6	4.7	5.1	5.4	U	5.4	U	5.5
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	8.1	26	7.3	8.7	9	U	9	U	9.2
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	8.1	26	7.3	8.7	9	U	9	U	9.2
SW8260	1,2-DICHLOROBENZENE	ug/kg	8.1	3.1	7.3	8.7	9	U	9	U	9.2
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	8.1	26	7.3	8.7	9	U	9	U	9.2
SW8260	1,3-DICHLOROBENZENE	ug/kg	8.1	26	7.3	8.7	9	U	9	U	9.2
SW8260	1,4-DICHLOROBENZENE	ug/kg	8.1	3.4	7.3	8.7	9	U	9	U	9.2
SW8260	BENZENE	ug/kg	1.6	3.3	1.5	1.7	1.8	U	1.8	U	1.8
SW8260	CHLOROBENZENE	ug/kg	8.1	26	7.3	8.7	9	U	9	U	9.2
SW8260	ETHYLBENZENE	ug/kg	1.6	217	1.5	1.7	1.8	U	1.8	U	1.8
SW8260	NAPHTHALENE	ug/kg	8.1	46700	2.5	8.7	9	U	9	U	9.2
SW8260	O-XYLENE	ug/kg	1.6	172	1	1.7	1.8	U	1.8	U	1.8
SW8260	TOLUENE	ug/kg	1.6	20.2	0.72	1.7	1.8	U	1.8	U	1.8
SW8260	XYLENES, M & P	ug/kg	3.2	117	2.9	3.5	3.6	U	3.6	U	3.7
SW8260	XYLENES, TOTAL	ug/kg	3.2	289	1.5	3.5	3.6	U	3.6	U	3.7
SW8270	ACENAPHTHENE	ug/kg	4.6	1830	110	8.42	4.7	U	4.6	U	4.8
SW8270	ACENAPHTHYLENE	ug/kg	4.6	491	112	4.8	4.7	U	4.6	U	4.8
SW8270	ANTHRACENE	ug/kg	4.6	1920	448	7.97	4.7	U	4.6	U	4.8
SW8270	BENZO(A)ANTHRACENE	ug/kg	4.6	1700	738	4.8	4.7	UJ	4.6	UJ	4.8
SW8270	BENZO(A)PYRENE	ug/kg	4.6	663	480	4.8	4.7	U	4.6	U	4.8
SW8270	BENZO(B)FLUORANTHENE	ug/kg	4.6	520	361	4.8	4.7	U	4.6	U	4.8
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	4.6	196	310	4.8	4.7	U	4.6	U	4.8
SW8270	BENZO(K)FLUORANTHENE	ug/kg	4.6	475	189	4.8	4.7	UJ	4.6	UJ	4.8
SW8270	CHRYSENE	ug/kg	4.6	1050	496	4.8	4.7	U	4.6	U	4.8
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	4.6	152	126	4.8	4.7	U	4.6	U	4.8
SW8270	FLUORANTHENE	ug/kg	4.6	1840	667	6.46	4.7	U	4.6	U	4.8
SW8270	FLUORENE	ug/kg	4.6	1430	159	6.46	4.7	U	4.6	U	4.8
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	4.6	344	192	4.8	4.7	U	4.6	U	4.8
SW8270	PHENANTHRENE	ug/kg	4.6	5290	909	21.8	4.7	U	4.6	U	4.8
SW8270	PYRENE	ug/kg	4.6	3030	1230	7.15	4.7	U	4.6	U	4.8
SW9045	pH	S.U.	7.41	7.25	7.55	7.29	6.98		7.25		6.89

**Table A1**  
**Validated Sediment, SMU-5 Sediment, and Follow-Up Sediment Analytical Data**

		Location	OL-VC-60273	OL-VC-60273	OL-VC-60273
		Sample Depth	5-6 Ft	6-7 Ft	7-8 Ft
		Field Sample ID	OL-1292-04	OL-1292-05	OL-1292-06
		Sample Date	6/11/2010	6/11/2010	6/11/2010
		SDG	JA48916R JA48915	JA48916R JA48915	JA48916R JA48915
		Matrix	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Regular sample	Regular sample
		Sample Type	Sediment	Sediment	Sediment
Method	Parameter Name	Units			
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	18100	17400	12600
SM2540G	SOLIDS, PERCENT	%	62.7	59.9	58.1
SW7471	MERCURY	mg/kg	0.023 J	0.027 J	0.019 U
SW8082	AROCLOR-1016	ug/kg	5.2 U	5.4 U	5.7 U
SW8082	AROCLOR-1221	ug/kg	5.2 U	5.4 U	5.7 U
SW8082	AROCLOR-1232	ug/kg	5.2 U	5.4 U	5.7 U
SW8082	AROCLOR-1242	ug/kg	5.2 U	5.4 U	5.7 U
SW8082	AROCLOR-1248	ug/kg	5.2 U	5.4 U	5.7 U
SW8082	AROCLOR-1254	ug/kg	5.2 U	5.4 U	5.7 U
SW8082	AROCLOR-1260	ug/kg	5.2 U	5.4 U	5.7 U
SW8082	AROCLOR-1268	ug/kg	5.2 U	5.4 U	5.7 U
SW8082	PCBS, N.O.S.	ug/kg	5.2 U	5.4 U	5.7 U
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	8.9 U	9.3 U	9.6 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	8.9 U	9.3 U	9.6 U
SW8260	1,2-DICHLOROBENZENE	ug/kg	8.9 U	9.3 U	9.6 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	8.9 U	9.3 U	9.6 U
SW8260	1,3-DICHLOROBENZENE	ug/kg	8.9 U	9.3 U	9.6 U
SW8260	1,4-DICHLOROBENZENE	ug/kg	8.9 U	9.3 U	9.6 U
SW8260	BENZENE	ug/kg	1.8 U	1.9 U	1.9 U
SW8260	CHLOROBENZENE	ug/kg	8.9 U	9.3 U	9.6 U
SW8260	ETHYLBENZENE	ug/kg	1.8 U	1.9 U	1.9 U
SW8260	NAPHTHALENE	ug/kg	8.9 U	9.3 U	9.6 U
SW8260	O-XYLENE	ug/kg	1.8 U	1.9 U	1.9 U
SW8260	TOLUENE	ug/kg	1.8 U	1.9 U	1.9 U
SW8260	XYLENES, M & P	ug/kg	3.5 U	3.7 U	3.8 U
SW8260	XYLENES, TOTAL	ug/kg	3.5 U	3.7 U	3.8 U
SW8270	ACENAPHTHENE	ug/kg	4.6 U	4.6 U	4.7 U
SW8270	ACENAPHTHYLENE	ug/kg	4.6 U	4.6 U	4.7 U
SW8270	ANTHRACENE	ug/kg	4.6 U	4.6 U	4.7 U
SW8270	BENZO(A)ANTHRACENE	ug/kg	4.6 UJ	4.6 UJ	4.7 UJ
SW8270	BENZO(A)PYRENE	ug/kg	4.6 U	4.6 U	4.7 U
SW8270	BENZO(B)FLUORANTHENE	ug/kg	4.6 U	4.6 U	4.7 U
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	4.6 U	4.6 U	4.7 U
SW8270	BENZO(K)FLUORANTHENE	ug/kg	4.6 UJ	4.6 UJ	4.7 UJ
SW8270	CHRYSENE	ug/kg	4.6 U	4.6 U	4.7 U
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	4.6 U	4.6 U	4.7 U
SW8270	FLUORANTHENE	ug/kg	4.6 U	4.6 U	4.7 U
SW8270	FLUORENE	ug/kg	4.6 U	4.6 U	4.7 U
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	4.6 U	4.6 U	4.7 U
SW8270	PHENANTHRENE	ug/kg	4.6 U	4.6 U	4.7 U
SW8270	PYRENE	ug/kg	4.6 U	4.6 U	4.7 U
SW9045	pH	S.U.	6.82	6.99	6.88

**Table A1  
Validated Sediment, SMU-5 Sediment, and Follow-Up Sediment Analytical Data**

		Location	OL-VC-60273	OL-VC-60273	OL-VC-60273
		Sample Depth	8-9 Ft	9-10 Ft	10-11 Ft
		Field Sample ID	OL-1292-07	OL-1292-08	OL-1292-09
		Sample Date	6/11/2010	6/11/2010	6/11/2010
		SDG	JA48916R JA48915	JA48916R JA48915	JA48916R JA48915
		Matrix	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Regular sample	Regular sample
		Sample Type	Sediment	Sediment	Sediment
Method	Parameter Name	Units			
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	19100	15600	18000
SM2540G	SOLIDS, PERCENT	%	58.8	62.5	61.6
SW7471	MERCURY	mg/kg	0.022 J	0.019 J	0.025 J
SW8082	AROCLOR-1016	ug/kg	5.6 U	5.3 U	5.3 U
SW8082	AROCLOR-1221	ug/kg	5.6 U	5.3 U	5.3 U
SW8082	AROCLOR-1232	ug/kg	5.6 U	5.3 U	5.3 U
SW8082	AROCLOR-1242	ug/kg	5.6 U	5.3 U	5.3 U
SW8082	AROCLOR-1248	ug/kg	5.6 U	5.3 U	5.3 U
SW8082	AROCLOR-1254	ug/kg	5.6 U	5.3 U	5.3 U
SW8082	AROCLOR-1260	ug/kg	5.6 U	5.3 U	5.3 U
SW8082	AROCLOR-1268	ug/kg	5.6 U	5.3 U	5.3 U
SW8082	PCBS, N.O.S.	ug/kg	5.6 U	5.3 U	5.3 U
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	9.4 U	8 U	9 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	9.4 U	8 U	9 U
SW8260	1,2-DICHLOROBENZENE	ug/kg	9.4 U	8 U	9 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	9.4 U	8 U	9 U
SW8260	1,3-DICHLOROBENZENE	ug/kg	9.4 U	8 U	9 U
SW8260	1,4-DICHLOROBENZENE	ug/kg	9.4 U	8 U	9 U
SW8260	BENZENE	ug/kg	1.9 U	1.6 U	1.8 U
SW8260	CHLOROBENZENE	ug/kg	9.4 U	8 U	9 U
SW8260	ETHYLBENZENE	ug/kg	1.9 U	1.6 U	1.8 U
SW8260	NAPHTHALENE	ug/kg	9.4 U	8 U	9 U
SW8260	O-XYLENE	ug/kg	1.9 U	1.6 U	1.8 U
SW8260	TOLUENE	ug/kg	1.9 U	1.6 U	1.8 U
SW8260	XYLENES, M & P	ug/kg	3.8 U	3.2 U	3.6 U
SW8260	XYLENES, TOTAL	ug/kg	3.8 U	3.2 U	3.6 U
SW8270	ACENAPHTHENE	ug/kg	4.7 U	4.4 U	4.7 U
SW8270	ACENAPHTHYLENE	ug/kg	4.7 U	4.4 U	4.7 U
SW8270	ANTHRACENE	ug/kg	4.7 U	4.4 U	4.7 U
SW8270	BENZO(A)ANTHRACENE	ug/kg	4.7 UJ	4.4 UJ	4.7 UJ
SW8270	BENZO(A)PYRENE	ug/kg	4.7 U	4.4 U	4.7 U
SW8270	BENZO(B)FLUORANTHENE	ug/kg	4.7 U	4.4 U	4.7 U
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	4.7 U	4.4 U	4.7 U
SW8270	BENZO(K)FLUORANTHENE	ug/kg	4.7 UJ	4.4 UJ	4.7 UJ
SW8270	CHRYSENE	ug/kg	4.7 U	4.4 U	4.7 U
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	4.7 U	4.4 U	4.7 U
SW8270	FLUORANTHENE	ug/kg	4.7 U	4.4 U	4.7 U
SW8270	FLUORENE	ug/kg	4.7 U	4.4 U	4.7 U
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	4.7 U	4.4 U	4.7 U
SW8270	PHENANTHRENE	ug/kg	4.7 U	4.4 U	4.7 U
SW8270	PYRENE	ug/kg	4.7 U	4.4 U	4.7 U
SW9045	pH	S.U.	6.81	7.09	6.9

**Table A1**  
**Validated Sediment, SMU-5 Sediment, and Follow-Up Sediment Analytical Data**

		Location	OL-VC-50004-2	OL-VC-50004-2	OL-VC-50009-2	OL-VC-50009-2	OL-VC-50076-2	OL-VC-50076-2	OL-VC-50077-2
		Sample Depth	0-0.5 Ft	0.5-1 Ft	0-0.5 Ft	0.5-1 Ft	0-0.5 Ft	0.5-1 Ft	0-0.5 Ft
		Field Sample ID	OL-1304-01	OL-1304-02	OL-1304-03	OL-1304-04	OL-1304-05	OL-1304-06	OL-1304-07
		Sample Date	6/15/2010	6/15/2010	6/15/2010	6/15/2010	6/15/2010	6/15/2010	6/15/2010
		SDG	JA49209	JA49209	JA49209	JA49209	JA49209	JA49209	JA49209
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Method	Parameter Name	Units							
SM2540G	SOLIDS, PERCENT	%	49.4	60.6	67.9	55.2	58.6	60.6	75.5
SW7471	MERCURY	mg/kg	2.1 J	1.1	0.016 U	0.16	0.36	0.13	0.77

**Table A1**  
**Validated Sediment, SMU-5 Sediment, and Follow-Up Sediment Analytical Data**

		Location	OL-VC-50077-2	OL-VC-50077-2	OL-VC-50078-2	OL-VC-50078-2	OL-VC-50079-2	OL-VC-50079-2
		Sample Depth	0.5-1 Ft	0.5-1 Ft	0-0.5 Ft	0.5-1 Ft	0-0.5 Ft	0.5-1 Ft
		Field Sample ID	OL-1304-08	OL-1304-09	OL-1304-12	OL-1304-13	OL-1304-10	OL-1304-11
		Sample Date	6/15/2010	6/15/2010	6/15/2010	6/15/2010	6/15/2010	6/15/2010
		SDG	JA49209	JA49209	JA49209	JA49209	JA49209	JA49209
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Field duplicate	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Method	Parameter Name	Units						
SM2540G	SOLIDS, PERCENT	%	56.5	62.4	84.5	58.8	58.2	66.3
SW7471	MERCURY	mg/kg	0.078	0.1	0.49	0.5	1.6	0.12

**ATTACHMENT A-2**

**VALIDATED ADDENDUM 5 SMU-8 PECQ SEDIMENT SAMPLES**

**Table A2  
Validated Addendum 5 SMU-8 PECQ Sediment Analytical Data**

Location	OL-VC-80157	OL-VC-80157	OL-VC-80158	OL-VC-80158	OL-VC-80159	OL-VC-80159	OL-VC-80160	OL-VC-80160		
Sample Depth	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft		
Field Sample ID	OL-1213-05	OL-1213-06	OL-1213-07	OL-1213-08	OL-1213-03	OL-1213-04	OL-1210-13	OL-1210-14		
Sample Date	5/26/2010	5/26/2010	5/26/2010	5/26/2010	5/26/2010	5/26/2010	5/26/2010	5/26/2010		
SDG	JA47521	JA47521	JA47521	JA47521	JA47521	JA47521	JA47522	JA47522		
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment		
Method	Parameter Name	Units								
ASTM D4643-00	SOLIDS, PERCENT	%								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	27600 J	33000 J	31300 J	39700 J	25800 J	36200 J	20000 J	15600 J
SM2540G	SOLIDS, PERCENT	%	22.9	29.9	22.4	29.7	23.6	27.7	34.5	41.6
SW7471	MERCURY	mg/kg	1.3 J	2.4 J	1.2 J	17.5 J	1.3 J	14.5 J	2.4 J	13.8 J
SW8082	AROCOR-1016	ug/kg	14 UJ	11 UJ	15 UJ	11 UJ	14 UJ	12 UJ	9.6 UJ	8 UJ
SW8082	AROCOR-1221	ug/kg	14 UJ	11 UJ	15 UJ	11 UJ	14 UJ	12 UJ	9.6 UJ	8 UJ
SW8082	AROCOR-1232	ug/kg	54.2 JN	11 UJ	15 UJ	11 UJ	78.7 JN	12 UJ	26.5 J	24.5 J
SW8082	AROCOR-1242	ug/kg	14 UJ	521 J	68.8 J	536 J	14 UJ	364 J	9.6 UJ	8 UJ
SW8082	AROCOR-1248	ug/kg	14 UJ	11 UJ	15 UJ	11 UJ	14 UJ	12 UJ	9.6 UJ	8 UJ
SW8082	AROCOR-1254	ug/kg	20.3 J	183 J	37.1 J	319 J	29.4 J	268 J	9.6 UJ	9.1 J
SW8082	AROCOR-1260	ug/kg	14 UJ	77.7 J	19.4 J	132 J	14 UJ	91.1 J	9.6 UJ	8 UJ
SW8082	AROCOR-1268	ug/kg	14 UJ	11 UJ	15 UJ	11 UJ	14 UJ	12 UJ	9.6 UJ	8 UJ
SW8082	PCBS, N.O.S.	ug/kg	74.5 JN	782 J	125 J	987 J	108 JN	723 J	26.5 J	33.6 J
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	4.6 UJ	3.5 UJ	4.7 UJ	3.7 UJ	4.5 UJ	3.6 UJ	3 UJ	2.6 UJ
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	4.6 UJ	3.5 UJ	R	3.7 UJ	4.5 UJ	3.6 UJ	3 UJ	2.6 UJ
SW8260	1,2-DICHLOROBENZENE	ug/kg	4.6 UJ	3.5 UJ	4.7 UJ	3.7 UJ	4.5 UJ	3.6 UJ	3 UJ	2.6 UJ
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	4.6 UJ	3.5 UJ	4.7 UJ	3.7 UJ	4.5 UJ	3.6 UJ	3 UJ	2.6 UJ
SW8260	1,3-DICHLOROBENZENE	ug/kg	4.6 UJ	3.5 UJ	4.7 UJ	1.1 J	4.5 UJ	3.6 UJ	3 UJ	3 J
SW8260	1,4-DICHLOROBENZENE	ug/kg	2.1 J	3 J	1.8 J	4.6 J	2.8 J	4.1 J	3 UJ	2.9 J
SW8260	BENZENE	ug/kg	4.6 UJ	3.5 UJ	4.7 UJ	3.7 UJ	4.5 UJ	1.2 J	3 UJ	2.6 UJ
SW8260	CHLOROBENZENE	ug/kg	2 J	3.8 J	1.7 J	5.3 J	3.6 J	6 J	3 UJ	2.8 J
SW8260	ETHYLBENZENE	ug/kg	4.6 UJ	3.5 UJ	4.7 UJ	3.7 UJ	4.5 UJ	3.6 UJ	3 UJ	2.6 UJ
SW8260	NAPHTHALENE	ug/kg	23 UJ	17 UJ	23 UJ	18 UJ	23 UJ	18 UJ	15 UJ	13 UJ
SW8260	O-XYLENE	ug/kg	4.6 UJ	3.5 UJ	4.7 UJ	3.7 UJ	4.5 UJ	3.6 UJ	3 UJ	2.6 UJ
SW8260	TOLUENE	ug/kg	4.6 UJ	3.5 UJ	4.7 UJ	3.7 UJ	4.5 UJ	3.6 UJ	3 UJ	2.6 UJ
SW8260	XYLENES, M & P	ug/kg	4.6 UJ	3.5 UJ	4.7 UJ	3.7 UJ	4.5 UJ	3.6 UJ	3 UJ	2.6 UJ
SW8260	XYLENES, TOTAL	ug/kg	4.6 UJ	3.5 UJ	4.7 UJ	3.7 UJ	4.5 UJ	3.6 UJ	3 UJ	2.6 UJ
SW8270	ACENAPHTHENE	ug/kg	12 UJ	9.5 UJ	13 UJ	9.6 UJ	12 UJ	10 UJ	8.3 UJ	6.9 UJ
SW8270	ACENAPHTHYLENE	ug/kg	12 UJ	9.5 UJ	13 UJ	9.6 UJ	12 UJ	10 UJ	8.3 UJ	6.9 UJ
SW8270	ANTHRACENE	ug/kg	28.6 J	9.5 UJ	13 UJ	9.6 UJ	12 UJ	23.8 J	8.3 UJ	6.9 UJ
SW8270	BENZO(A)ANTHRACENE	ug/kg	85 J	19.2 J	28.7 J	27.7 J	27.3 J	46.7 J	18.8 J	11.9 J
SW8270	BENZO(A)PYRENE	ug/kg	83.5 J	12.1 J	13 UJ	21.2 J	16.4 J	37.5 J	16.9 J	6.9 UJ
SW8270	BENZO(B)FLUORANTHENE	ug/kg	138 J	18.3 J	25.5 J	27.2 J	21 J	47.2 J	20.7 J	7.7 J
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	81.4 J	14 J	19.8 J	24.5 J	22.8 J	42.8 J	16.8 J	6.9 UJ
SW8270	BENZO(K)FLUORANTHENE	ug/kg	86.3 J	9.81 J	23.3 J	14 J	26.9 J	37.8 J	17.4 J	8.06 J
SW8270	CHRYSENE	ug/kg	101 J	18.7 J	31.8 J	27.9 J	25.8 J	54.8 J	16.7 J	11 J
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	29.8 J	9.5 UJ	13 UJ	9.6 UJ	12 UJ	10 UJ	8.3 UJ	6.9 UJ
SW8270	FLUORANTHENE	ug/kg	168 J	28.5 J	38 J	53 J	35.8 J	80.4 J	25.8 J	16.9 J
SW8270	FLUORENE	ug/kg	12 UJ	9.5 UJ	13 UJ	9.6 UJ	12 UJ	21.5 J	8.3 UJ	6.9 UJ
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	78.5 J	12.9 J	19.4 J	15.8 J	18.6 J	35.3 J	20.6 J	6.9 UJ
SW8270	PHENANTHRENE	ug/kg	78.1 J	9.5 UJ	13 UJ	28.7 J	17 J	47.3 J	10.7 J	6.9 UJ
SW8270	PYRENE	ug/kg	146 J	33.8 J	40.2 J	44.6 J	34.6 J	82.9 J	28.6 J	17.8 J

**Table A2  
Validated Addendum 5 SMU-8 PECQ Sediment Analytical Data**

Location	OL-VC-80161	OL-VC-80161	OL-VC-80162	OL-VC-80162	OL-VC-80163	OL-VC-80163	OL-VC-80164	OL-VC-80164		
Sample Depth	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft		
Field Sample ID	OL-1210-11	OL-1210-12	OL-1206-19	OL-1206-20	OL-1210-09	OL-1210-10	OL-1213-09	OL-1213-10		
Sample Date	5/26/2010	5/26/2010	5/25/2010	5/25/2010	5/26/2010	5/26/2010	5/26/2010	5/26/2010		
SDG	JA47522	JA47522	JA47433	JA47433	JA47522	JA47522	JA47521	JA47521		
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment		
Method	Parameter Name	Units								
ASTM D4643-00	SOLIDS, PERCENT	%								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	19000 J	16700 J	30100 J	20400 J	20600 J	11700 J	30700 J	25800 J
SM2540G	SOLIDS, PERCENT	%	34.7	36.3	33.6	40.2	31.4	41.8	35.4	36.2
SW7471	MERCURY	mg/kg	2 J	2.1 J	2.6 J	3.5 J	1.7 J	2 J	1.1 J	2 J
SW8082	AROCOLOR-1016	ug/kg	9.4 UJ	8.9 UJ	9.7 UJ	8.2 UJ	10 UJ	7.9 UJ	9.4 UJ	9.2 UJ
SW8082	AROCOLOR-1221	ug/kg	9.4 UJ	8.9 UJ	9.7 UJ	8.2 UJ	10 UJ	7.9 UJ	9.4 UJ	9.2 UJ
SW8082	AROCOLOR-1232	ug/kg	25.2 J	24.9 J	9.7 UJ	8.2 UJ	15.4 J	33.9 J	23.1 J	27.9 J
SW8082	AROCOLOR-1242	ug/kg	9.4 UJ	8.9 UJ	9.7 UJ	8.2 UJ	10 UJ	7.9 UJ	9.4 UJ	9.2 UJ
SW8082	AROCOLOR-1248	ug/kg	9.4 UJ	8.9 UJ	9.7 UJ	8.2 UJ	10 UJ	7.9 UJ	9.4 UJ	9.2 UJ
SW8082	AROCOLOR-1254	ug/kg	9.4 UJ	8.9 UJ	9.7 UJ	13.9 J	10 UJ	10.5 J	14.1 J	15.3 J
SW8082	AROCOLOR-1260	ug/kg	9.4 UJ	8.9 UJ	9.7 UJ	8.2 UJ	10 UJ	7.9 UJ	9.4 UJ	11 J
SW8082	AROCOLOR-1268	ug/kg	9.4 UJ	8.9 UJ	9.7 UJ	8.2 UJ	10 UJ	7.9 UJ	46.5 J	9.2 UJ
SW8082	PCBS, N.O.S.	ug/kg	25.2 J	24.9 J	9.7 UJ	13.9 J	15.4 J	44.4 J	83.7 J	54.3 J
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	R	2.9 UJ	3.1 UJ	2.5 UJ	3.5 UJ	2.7 UJ	R	3 UJ
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	R	2.9 UJ	3.1 UJ	2.5 UJ	3.5 UJ	2.7 UJ	R	3 UJ
SW8260	1,2-DICHLOROBENZENE	ug/kg	2.9 UJ	2.9 UJ	3.1 UJ	2.5 UJ	3.5 UJ	2.7 UJ	2.9 UJ	3 UJ
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	R	2.9 UJ	3.1 UJ	2.5 UJ	3.5 UJ	2.7 UJ	2.9 UJ	3 UJ
SW8260	1,3-DICHLOROBENZENE	ug/kg	2.9 UJ	2.9 UJ	3.1 UJ	2.5 UJ	3.5 UJ	0.73 J	2.9 UJ	3 UJ
SW8260	1,4-DICHLOROBENZENE	ug/kg	2.9 UJ	2.9 UJ	3.1 UJ	2.5 UJ	3.5 UJ	2.7 UJ	2.9 UJ	3 UJ
SW8260	BENZENE	ug/kg	2.9 UJ	2.9 UJ	3.1 UJ	2.5 UJ	3.5 UJ	2.7 J	2.9 UJ	3 UJ
SW8260	CHLOROBENZENE	ug/kg	2.9 UJ	2.9 UJ	3.1 UJ	2.5 UJ	3.5 UJ	1.2 J	2.9 UJ	3 UJ
SW8260	ETHYLBENZENE	ug/kg	2.9 UJ	2.9 UJ	3.1 UJ	2.5 UJ	3.5 UJ	2.7 UJ	2.9 UJ	3 UJ
SW8260	NAPHTHALENE	ug/kg	14 UJ	15 UJ	16 UJ	13 UJ	18 UJ	13 UJ	15 UJ	15 UJ
SW8260	O-XYLENE	ug/kg	2.9 UJ	2.9 UJ	3.1 UJ	2.5 UJ	3.5 UJ	2.7 UJ	2.9 UJ	3 UJ
SW8260	TOLUENE	ug/kg	2.9 UJ	2.9 UJ	3.1 UJ	2.5 UJ	3.5 UJ	2.7 UJ	2.9 UJ	3 UJ
SW8260	XYLENES, M & P	ug/kg	2.9 UJ	2.9 UJ	3.1 UJ	2.5 UJ	3.5 UJ	2.7 UJ	2.9 UJ	3 UJ
SW8260	XYLENES, TOTAL	ug/kg	2.9 UJ	2.9 UJ	3.1 UJ	2.5 UJ	3.5 UJ	2.7 UJ	2.9 UJ	3 UJ
SW8270	ACENAPHTHENE	ug/kg	8.2 UJ	7.9 UJ	8.5 UJ	7.1 UJ	9.1 UJ	6.8 UJ	8 UJ	7.9 UJ
SW8270	ACENAPHTHYLENE	ug/kg	8.2 UJ	7.9 UJ	16.5 J	7.1 UJ	9.1 UJ	6.8 UJ	8 UJ	10 J
SW8270	ANTHRACENE	ug/kg	8.2 UJ	7.9 UJ	18.9 J	11.7 J	9.1 UJ	6.8 UJ	8 UJ	25.3 J
SW8270	BENZO(A)ANTHRACENE	ug/kg	25.7 J	15.6 J	89.9 J	37.3 J	30.9 J	26.1 J	29.9 J	100 J
SW8270	BENZO(A)PYRENE	ug/kg	25.6 J	13 J	104 J	46.4 J	32.4 J	26.9 J	30.2 J	103 J
SW8270	BENZO(B)FLUORANTHENE	ug/kg	17.3 J	17.4 J	155 J	58.6 J	43.6 J	37.7 J	38.5 J	152 J
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	23.9 J	10.9 J	95 J	37.8 J	26.8 J	22 J	26.7 J	89.6 J
SW8270	BENZO(K)FLUORANTHENE	ug/kg	37.7 J	13.5 J	88.4 J	40.8 J	32 J	21 J	28.2 J	88.4 J
SW8270	CHRYSENE	ug/kg	24.2 J	15.7 J	110 J	44.9 J	37.7 J	30.4 J	38.1 J	115 J
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	8.2 UJ	7.9 UJ	43.2 J	7.1 UJ	9.1 UJ	6.8 UJ	8 UJ	40.3 J
SW8270	FLUORANTHENE	ug/kg	38.7 J	23.3 J	178 J	78.3 J	61.8 J	46.3 J	65.9 J	210 J
SW8270	FLUORENE	ug/kg	8.2 UJ	7.9 UJ	8.5 UJ	7.1 UJ	9.1 UJ	6.8 UJ	8 UJ	7.9 UJ
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	29.6 J	16.4 J	123 J	49.2 J	35.4 J	28.1 J	23.9 J	87.9 J
SW8270	PHENANTHRENE	ug/kg	14.8 J	7.9 UJ	62.7 J	27.6 J	23.4 J	22 J	25.9 J	84.8 J
SW8270	PYRENE	ug/kg	41.7 J	25.5 J	176 J	78.3 J	60.2 J	47.8 J	53.4 J	181 J



**Table A2**  
**Validated Addendum 5 SMU-8 PECQ Sediment Analytical Data**

Location	OL-VC-80164	OL-VC-80164	OL-VC-80165	OL-VC-80165	OL-VC-80166	OL-VC-80166	OL-VC-80167	OL-VC-80167		
Sample Depth	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft		
Field Sample ID	OL-1213-11	OL-1213-12	OL-1206-17	OL-1206-18	OL-1210-01	OL-1210-02	OL-1210-03	OL-1210-04		
Sample Date	5/26/2010	5/26/2010	5/25/2010	5/25/2010	5/25/2010	5/25/2010	5/25/2010	5/25/2010		
SDG	JA47521	JA47521	JA47433	JA47433	JA47522	JA47522	JA47522	JA47522		
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
Sample Purpose	Field duplicate	Field duplicate	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment		
Method	Parameter Name	Units								
ASTM D4643-00	SOLIDS, PERCENT	%								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	27900 J	26400 J	28100 J	25000 J	25900 J	30000 J	25600 J	28600 J
SM2540G	SOLIDS, PERCENT	%	35.6	36.7	31.1	34.7	29.9	40.4	33.1	33.3
SW7471	MERCURY	mg/kg	1.2 J	2.2 J	1.9 J	2 J	2 J	8 J	1.5 J	3.5 J
SW8082	AROCOR-1016	ug/kg	9.3 UJ	9 UJ	11 UJ	9.4 UJ	11 UJ	8.2 UJ	9.9 UJ	9.8 UJ
SW8082	AROCOR-1221	ug/kg	9.3 UJ	9 UJ	11 UJ	9.4 UJ	11 UJ	8.2 UJ	9.9 UJ	9.8 UJ
SW8082	AROCOR-1232	ug/kg	22 J	20.1 J	11 UJ	9.4 UJ	22.6 J	72.5 J	34.4 J	65.7 J
SW8082	AROCOR-1242	ug/kg	9.3 UJ	9 UJ	11 UJ	9.4 UJ	11 UJ	8.2 UJ	9.9 UJ	9.8 UJ
SW8082	AROCOR-1248	ug/kg	9.3 UJ	9 UJ	11 UJ	9.4 UJ	11 UJ	8.2 UJ	9.9 UJ	9.8 UJ
SW8082	AROCOR-1254	ug/kg	11.1 J	9 UJ	23.8 J	41.7 J	11 UJ	27 J	9.9 UJ	14.9 J
SW8082	AROCOR-1260	ug/kg	9.3 UJ	9 UJ	11 UJ	19.1 J	11 UJ	12 J	9.9 UJ	9.8 UJ
SW8082	AROCOR-1268	ug/kg	9.3 UJ	9 UJ	11 UJ	9.4 UJ	11 UJ	8.2 UJ	9.9 UJ	9.8 UJ
SW8082	PCBS, N.O.S.	ug/kg	33.1 J	20.1 J	23.8 J	60.8 J	22.6 J	112 J	34.4 J	80.6 J
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	2.8 UJ	2.6 UJ	3.2 UJ	3.1 UJ	3.7 UJ	2.8 UJ	3.4 UJ	3.3 UJ
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	2.8 UJ	2.6 UJ	3.2 UJ	3.1 UJ	3.7 UJ	2.8 UJ	3.4 UJ	3.3 UJ
SW8260	1,2-DICHLOROBENZENE	ug/kg	2.8 UJ	2.6 UJ	3.2 UJ	3.1 UJ	3.7 UJ	2.8 UJ	3.4 UJ	3.3 UJ
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	2.8 UJ	2.6 UJ	3.2 UJ	3.1 UJ	3.7 UJ	2.8 UJ	3.4 UJ	3.3 UJ
SW8260	1,3-DICHLOROBENZENE	ug/kg	2.8 UJ	2.6 UJ	3.2 UJ	3.1 UJ	3.7 UJ	1.3 J	3.4 UJ	3.3 UJ
SW8260	1,4-DICHLOROBENZENE	ug/kg	2.8 UJ	2.6 UJ	1.3 J	1.2 J	1.6 J	3.4 J	3.4 UJ	1.2 J
SW8260	BENZENE	ug/kg	2.8 UJ	2.6 UJ	3.2 UJ	3.1 UJ	3.7 UJ	2.8 UJ	3.4 UJ	3.3 UJ
SW8260	CHLOROBENZENE	ug/kg	2.8 UJ	2.6 UJ	3.2 UJ	1.1 J	1.6 J	6.2 J	3.4 UJ	3.3 UJ
SW8260	ETHYLBENZENE	ug/kg	2.8 UJ	2.6 UJ	3.2 UJ	3.1 UJ	3.7 UJ	2.8 UJ	3.4 UJ	3.3 UJ
SW8260	NAPHTHALENE	ug/kg	14 UJ	13 UJ	16 UJ	16 UJ	19 UJ	14 UJ	17 UJ	17 UJ
SW8260	O-XYLENE	ug/kg	2.8 UJ	2.6 UJ	3.2 UJ	3.1 UJ	3.7 UJ	2.8 UJ	3.4 UJ	3.3 UJ
SW8260	TOLUENE	ug/kg	2.8 UJ	2.6 UJ	3.2 UJ	3.1 UJ	3.7 UJ	2.8 UJ	3.4 UJ	3.3 UJ
SW8260	XYLENES, M & P	ug/kg	2.8 UJ	2.6 UJ	3.2 UJ	3.1 UJ	3.7 UJ	2.8 UJ	3.4 UJ	3.3 UJ
SW8260	XYLENES, TOTAL	ug/kg	2.8 UJ	2.6 UJ	3.2 UJ	3.1 UJ	3.7 UJ	2.8 UJ	3.4 UJ	3.3 UJ
SW8270	ACENAPHTHENE	ug/kg	8 UJ	7.8 UJ	9.2 UJ	8.2 UJ	9.6 UJ	7.1 UJ	8.6 UJ	8.6 UJ
SW8270	ACENAPHTHYLENE	ug/kg	8 UJ	7.8 UJ	14.6 J	10.7 J	10.4 J	7.1 UJ	14.8 J	8.6 UJ
SW8270	ANTHRACENE	ug/kg	8 UJ	7.8 UJ	12.6 J	11.2 J	14.7 J	7.1 UJ	16.3 J	8.6 UJ
SW8270	BENZO(A)ANTHRACENE	ug/kg	29.2 J	29.7 J	46.3 J	28.2 J	40.5 J	22.8 J	51.8 J	39.1 J
SW8270	BENZO(A)PYRENE	ug/kg	32 J	32.1 J	51.1 J	31 J	41.5 J	19.6 J	61.7 J	40.3 J
SW8270	BENZO(B)FLUORANTHENE	ug/kg	41.3 J	44.2 J	73.3 J	54.1 J	48.7 J	27.9 J	100 J	49.3 J
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	32.2 J	25.5 J	50.4 J	29.1 J	43.6 J	16.4 J	57.8 J	34.6 J
SW8270	BENZO(K)FLUORANTHENE	ug/kg	29.2 J	22 J	48.2 J	16.5 J	41.4 J	15.7 J	39.7 J	41.1 J
SW8270	CHRYSENE	ug/kg	36.3 J	37.1 J	56.8 J	37 J	49.6 J	24.2 J	69.5 J	42.8 J
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	8 UJ	7.8 UJ	23.5 J	11.4 J	9.6 UJ	7.1 UJ	8.6 UJ	8.6 UJ
SW8270	FLUORANTHENE	ug/kg	61.3 J	55 J	88.2 J	56.4 J	72.1 J	43.6 J	94.6 J	67.7 J
SW8270	FLUORENE	ug/kg	8 UJ	7.8 UJ	9.2 UJ	8.2 UJ	9.6 UJ	33.5 J	8.6 UJ	8.6 UJ
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	32.3 J	28.4 J	61.7 J	34.2 J	39.1 J	20.4 J	61.3 J	39.2 J
SW8270	PHENANTHRENE	ug/kg	24.4 J	22.7 J	32.9 J	24.7 J	37.3 J	29.3 J	37.6 J	31.1 J
SW8270	PYRENE	ug/kg	52.8 J	50.4 J	91.6 J	61.6 J	75.5 J	48.8 J	100 J	81.3 J

**Table A2  
Validated Addendum 5 SMU-8 PECQ Sediment Analytical Data**

Location	OL-VC-80168	OL-VC-80168	OL-VC-80169	OL-VC-80169	OL-VC-80170	OL-VC-80170	OL-VC-80171	OL-VC-80171		
Sample Depth	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft		
Field Sample ID	OL-1210-05	OL-1210-06	OL-1210-07	OL-1210-08	OL-1204-07	OL-1204-08	OL-1204-09	OL-1204-10		
Sample Date	5/26/2010	5/26/2010	5/26/2010	5/26/2010	5/24/2010	5/24/2010	5/24/2010	5/24/2010		
SDG	JA47522	JA47522	JA47522	JA47522	JA47302	JA47302	JA47302	JA47302		
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment		
Method	Parameter Name	Units								
ASTM D4643-00	SOLIDS, PERCENT	%								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	19800 J	26100 J	27200 J	21300 J	30000 J	28200 J	31800 J	38000 J
SM2540G	SOLIDS, PERCENT	%	31.5	34.1	20.8	30.6	23.1	31	23.3	30.4
SW7471	MERCURY	mg/kg	2.3 J	2 J	1.7 J	2.1 J	1.9 J	2 J	1.7 J	2.4 J
SW8082	AROCOLOR-1016	ug/kg	11 UJ	9.6 UJ	16 UJ	11 UJ	14 UJ	11 UJ	14 UJ	11 UJ
SW8082	AROCOLOR-1221	ug/kg	11 UJ	9.6 UJ	16 UJ	11 UJ	14 UJ	11 UJ	14 UJ	11 UJ
SW8082	AROCOLOR-1232	ug/kg	19.4 J	9.6 UJ	33.9 JN	129 JN	86.2 J	11 UJ	82.5 J	11 UJ
SW8082	AROCOLOR-1242	ug/kg	11 UJ	9.6 UJ	16 UJ	11 UJ	14 UJ	28.2 J	14 UJ	143 J
SW8082	AROCOLOR-1248	ug/kg	11 UJ	9.6 UJ	16 UJ	11 UJ	14 UJ	11 UJ	14 UJ	11 UJ
SW8082	AROCOLOR-1254	ug/kg	11 UJ	18.4 J	16 UJ	30.7 J	41.8 J	28.4 J	36.1 J	91.4 J
SW8082	AROCOLOR-1260	ug/kg	11 UJ	9.6 UJ	16 UJ	17.3 J	22.5 J	13.1 J	14 UJ	46.5 J
SW8082	AROCOLOR-1268	ug/kg	11 UJ	9.6 UJ	16 UJ	11 UJ	14 UJ	11 UJ	14 UJ	11 UJ
SW8082	PCBS, N.O.S.	ug/kg	19.4 J	18.4 J	33.9 J	177 J	150 J	69.7 J	119 J	281 J
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	3.5 UJ	3.3 UJ	5.3 UJ	3.6 UJ	4.8 UJ	3.5 UJ	4.3 UJ	3.3 UJ
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	3.5 UJ	3.3 UJ	5.3 UJ	3.6 UJ	4.8 UJ	3.5 UJ	4.3 UJ	3.3 UJ
SW8260	1,2-DICHLOROBENZENE	ug/kg	3.5 UJ	3.3 UJ	5.3 UJ	3.6 UJ	4.8 UJ	3.5 UJ	1.2 J	0.9 J
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	3.5 UJ	3.3 UJ	5.3 UJ	3.6 UJ	4.8 UJ	3.5 UJ	4.3 UJ	3.3 UJ
SW8260	1,3-DICHLOROBENZENE	ug/kg	3.5 UJ	3.3 UJ	5.3 UJ	3.6 UJ	4.8 UJ	3.5 UJ	4.3 UJ	3.3 UJ
SW8260	1,4-DICHLOROBENZENE	ug/kg	3.5 UJ	2 J	2.4 J	2.2 J	2.2 J	3.4 J	5.1 J	5.1 J
SW8260	BENZENE	ug/kg	3.5 UJ	3.3 UJ	5.3 UJ	3.6 UJ	4.8 UJ	3.5 UJ	4.3 UJ	3.3 UJ
SW8260	CHLOROBENZENE	ug/kg	3.5 UJ	2.5 J	5.3 UJ	4 J	2.6 J	8.9 J	9.1 J	15.1 J
SW8260	ETHYLBENZENE	ug/kg	3.5 UJ	3.3 UJ	5.3 UJ	3.6 UJ	4.8 UJ	3.5 UJ	4.3 UJ	3.3 UJ
SW8260	NAPHTHALENE	ug/kg	18 UJ	16 UJ	27 UJ	18 UJ	24 UJ	18 UJ	21 UJ	16 UJ
SW8260	O-XYLENE	ug/kg	3.5 UJ	3.3 UJ	5.3 UJ	3.6 UJ	4.8 UJ	3.5 UJ	4.3 UJ	3.3 UJ
SW8260	TOLUENE	ug/kg	3.5 UJ	3.3 UJ	5.3 UJ	3.6 UJ	4.8 UJ	3.5 UJ	4.3 UJ	3.3 UJ
SW8260	XYLENES, M & P	ug/kg	3.5 UJ	3.3 UJ	5.3 UJ	3.6 UJ	4.8 UJ	3.5 UJ	4.3 UJ	3.3 UJ
SW8260	XYLENES, TOTAL	ug/kg	3.5 UJ	3.3 UJ	5.3 UJ	3.6 UJ	4.8 UJ	3.5 UJ	4.3 UJ	3.3 UJ
SW8270	ACENAPHTHENE	ug/kg	9 UJ	8.3 UJ	14 UJ	9.3 UJ	14 UJ	23.8 J	14 UJ	37.5 J
SW8270	ACENAPHTHYLENE	ug/kg	16.5 J	8.3 UJ	14 UJ	9.3 UJ	45.2 J	54.4 J	66.4 J	81.7 J
SW8270	ANTHRACENE	ug/kg	16.4 J	8.3 UJ	14 UJ	9.3 UJ	44.5 J	66.6 J	69.1 J	102 J
SW8270	BENZO(A)ANTHRACENE	ug/kg	58.6 J	28 J	40.2 J	28.1 J	152 J	163 J	200 J	230 J
SW8270	BENZO(A)PYRENE	ug/kg	70.9 J	25.8 J	42 J	28.4 J	159 J	149 J	215 J	201 J
SW8270	BENZO(B)FLUORANTHENE	ug/kg	112 J	29.3 J	45.7 J	32.9 J	288 J	189 J	355 J	286 J
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	65.7 J	21.6 J	36.4 J	22.3 J	151 J	137 J	192 J	182 J
SW8270	BENZO(K)FLUORANTHENE	ug/kg	61.8 J	31.7 J	40.4 J	25.7 J	83.4 J	149 J	134 J	135 J
SW8270	CHRYSENE	ug/kg	80.7 J	30.6 J	40.7 J	33.4 J	178 J	187 J	252 J	255 J
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	20.2 J	8.3 UJ	14 UJ	9.3 UJ	58.2 J	58.5 J	77.9 J	71.9 J
SW8270	FLUORANTHENE	ug/kg	110 J	47 J	64.6 J	49.8 J	264 J	290 J	381 J	446 J
SW8270	FLUORENE	ug/kg	9 UJ	8.3 UJ	14 UJ	9.3 UJ	14 UJ	53 J	40.1 J	83.5 J
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	72.6 J	25.6 J	38 J	27.1 J	187 J	161 J	245 J	205 J
SW8270	PHENANTHRENE	ug/kg	42 J	23.3 J	29.4 J	29.1 J	103 J	163 J	176 J	277 J
SW8270	PYRENE	ug/kg	118 J	55.9 J	67.7 J	55.7 J	274 J	315 J	382 J	468 J

**Table A2  
Validated Addendum 5 SMU-8 PECQ Sediment Analytical Data**

Location	OL-VC-80172	OL-VC-80172	OL-VC-80173	OL-VC-80173	OL-VC-80174	OL-VC-80174	OL-VC-80175	OL-VC-80175
Sample Depth	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft
Field Sample ID	OL-1206-07	OL-1206-08	OL-1206-11	OL-1206-12	OL-1210-19	OL-1210-20	OL-1204-05	OL-1204-06
Sample Date	5/25/2010	5/25/2010	5/25/2010	5/25/2010	5/26/2010	5/26/2010	5/24/2010	5/24/2010
SDG	JA47433	JA47433	JA47433	JA47433	JA47522	JA47522	JA47302	JA47302
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Method	Parameter Name	Units						
ASTM D4643-00	SOLIDS, PERCENT	%						
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	35300 J	30500 J	32700 J	33200 J	22500 J	25900 J
SM2540G	SOLIDS, PERCENT	%	22	24.5	31.4	30	32.2	30.6
SW7471	MERCURY	mg/kg	1.4 J	2 J	1.4 J	1.8 J	1.3 J	2.4 J
SW8082	AROCOR-1016	ug/kg	15 UJ	27 UJ	10 UJ	11 UJ	10 UJ	11 UJ
SW8082	AROCOR-1221	ug/kg	15 UJ	27 UJ	10 UJ	11 UJ	10 UJ	11 UJ
SW8082	AROCOR-1232	ug/kg	15 UJ	27 UJ	10 UJ	11 UJ	10 UJ	11 UJ
SW8082	AROCOR-1242	ug/kg	82.5 J	27 UJ	10 UJ	11 UJ	10 UJ	11 UJ
SW8082	AROCOR-1248	ug/kg	15 UJ	27 UJ	10 UJ	11 UJ	10 UJ	11 UJ
SW8082	AROCOR-1254	ug/kg	51.9 J	75.4 J	45.6 J	109 J	46.9 J	43.1 J
SW8082	AROCOR-1260	ug/kg	21.5 J	45.4 J	18.8 J	64.6 J	30.2 J	30.4 J
SW8082	AROCOR-1268	ug/kg	15 UJ	27 UJ	10 UJ	11 UJ	10 UJ	11 UJ
SW8082	PCBS, N.O.S.	ug/kg	156 J	121 J	64.4 J	174 J	77.1 J	208 J
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	4.8 UJ	4.4 UJ	3.5 UJ	3.3 UJ	3.2 UJ	3.6 UJ
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	4.8 UJ	4.4 UJ	3.5 UJ	3.3 UJ	3.2 UJ	3.6 UJ
SW8260	1,2-DICHLOROBENZENE	ug/kg	4.8 UJ	2.3 J	3.5 UJ	2.2 J	3.2 UJ	1.2 J
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	4.8 UJ	4.4 UJ	3.5 UJ	3.3 UJ	3.2 UJ	3.6 UJ
SW8260	1,3-DICHLOROBENZENE	ug/kg	4.8 UJ	4.4 UJ	3.5 UJ	1.1 J	3.2 UJ	3.6 UJ
SW8260	1,4-DICHLOROBENZENE	ug/kg	3.1 J	8.3 J	2.3 J	7.6 J	1.9 J	6 J
SW8260	BENZENE	ug/kg	4.8 UJ	3.4 J	3.5 UJ	3.3 UJ	3.2 UJ	1.2 J
SW8260	CHLOROBENZENE	ug/kg	5.8 J	17.2 J	2.6 J	13.6 J	3.8 J	15.5 J
SW8260	ETHYLBENZENE	ug/kg	4.8 UJ	4.4 UJ	3.5 UJ	3.3 UJ	3.2 UJ	3.6 UJ
SW8260	NAPHTHALENE	ug/kg	24 UJ	22 UJ	18 UJ	17 UJ	16 UJ	18 UJ
SW8260	O-XYLENE	ug/kg	4.8 UJ	4.4 UJ	3.5 UJ	3.3 UJ	3.2 UJ	3.6 UJ
SW8260	TOLUENE	ug/kg	4.8 UJ	4.4 UJ	3.5 UJ	3.3 UJ	3.2 UJ	3.6 UJ
SW8260	XYLENES, M & P	ug/kg	4.8 UJ	4.4 UJ	3.5 UJ	3.3 UJ	3.2 UJ	3.6 UJ
SW8260	XYLENES, TOTAL	ug/kg	4.8 UJ	4.4 UJ	3.5 UJ	1.7 J	3.2 UJ	3.6 UJ
SW8270	ACENAPHTHENE	ug/kg	13 UJ	12 UJ	31 J	53.1 J	8.8 UJ	27.5 J
SW8270	ACENAPHTHYLENE	ug/kg	30.6 J	44.7 J	87.2 J	163 J	39.9 J	103 J
SW8270	ANTHRACENE	ug/kg	37.3 J	45 J	96.5 J	172 J	38.8 J	96.3 J
SW8270	BENZO(A)ANTHRACENE	ug/kg	141 J	130 J	352 J	435 J	141 J	260 J
SW8270	BENZO(A)PYRENE	ug/kg	174 J	142 J	401 J	424 J	159 J	262 J
SW8270	BENZO(B)FLUORANTHENE	ug/kg	221 J	211 J	394 J	458 J	200 J	322 J
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	166 J	114 J	362 J	386 J	144 J	265 J
SW8270	BENZO(K)FLUORANTHENE	ug/kg	182 J	91.3 J	257 J	200 J	143 J	270 J
SW8270	CHRYSENE	ug/kg	188 J	155 J	437 J	418 J	180 J	329 J
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	65.9 J	50.6 J	148 J	164 J	49.5 J	92.5 J
SW8270	FLUORANTHENE	ug/kg	286 J	241 J	621 J	644 J	262 J	445 J
SW8270	FLUORENE	ug/kg	13 UJ	22.6 J	34.9 J	69.2 J	8.8 UJ	36.9 J
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	209 J	147 J	235 J	468 J	187 J	299 J
SW8270	PHENANTHRENE	ug/kg	107 J	126 J	239 J	386 J	99 J	217 J
SW8270	PYRENE	ug/kg	281 J	241 J	516 J	586 J	267 J	428 J

**Table A2  
Validated Addendum 5 SMU-8 PECQ Sediment Analytical Data**

Location	OL-VC-80176	OL-VC-80176	OL-VC-80177	OL-VC-80177	OL-VC-80178	OL-VC-80178	OL-VC-80179	OL-VC-80179
Sample Depth	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft
Field Sample ID	OL-1204-11	OL-1204-12	OL-1205-03	OL-1205-04	OL-1206-05	OL-1206-06	OL-1206-13	OL-1206-14
Sample Date	5/24/2010	5/24/2010	5/24/2010	5/24/2010	5/25/2010	5/25/2010	5/25/2010	5/25/2010
SDG	JA47302	JA47302	JA47432	JA47432	JA47433	JA47433	JA47433	JA47433
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Method	Parameter Name	Units						
ASTM D4643-00	SOLIDS, PERCENT	%			20.8	28.1		
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	32100 J	35200 J	36200 J	32300 J	35800 J	37500 J
SM2540G	SOLIDS, PERCENT	%	23.9	31.3			26.4	27.7
SW7471	MERCURY	mg/kg	1.9 J	2 J	1.6 J	2.3 J	1.6 J	2.5 J
SW8082	AROCOLOR-1016	ug/kg	14 UJ	11 UJ	16 UJ	12 UJ	12 UJ	24 UJ
SW8082	AROCOLOR-1221	ug/kg	14 UJ	11 UJ	16 UJ	12 UJ	12 UJ	24 UJ
SW8082	AROCOLOR-1232	ug/kg	88.7 J	11 UJ	243 J	210 JN	12 UJ	24 UJ
SW8082	AROCOLOR-1242	ug/kg	14 UJ	217 J	16 UJ	12 UJ	37.9 J	24 UJ
SW8082	AROCOLOR-1248	ug/kg	14 UJ	11 UJ	16 UJ	12 UJ	12 UJ	24 UJ
SW8082	AROCOLOR-1254	ug/kg	38.9 J	158 J	63.5 J	90.6 J	30.9 J	24 UJ
SW8082	AROCOLOR-1260	ug/kg	21.2 J	74.6 J	34.7 J	37.1 J	18 J	51.2 J
SW8082	AROCOLOR-1268	ug/kg	14 UJ	11 UJ	16 UJ	12 UJ	12 UJ	24 UJ
SW8082	PCBS, N.O.S.	ug/kg	149 J	450 J	341 J	338 JN	86.8 J	51.2 J
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	4.5 UJ	3.5 UJ	5.2 UJ	3.5 UJ	3.7 UJ	3.5 UJ
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	4.5 UJ	3.5 UJ	5.2 UJ	3.5 UJ	3.7 UJ	3.5 UJ
SW8260	1,2-DICHLOROBENZENE	ug/kg	4.5 UJ	3.5 UJ	1.9 J	1.8 J	1.3 J	2.7 J
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	4.5 UJ	3.5 UJ	5.2 UJ	3.5 UJ	3.7 UJ	3.5 UJ
SW8260	1,3-DICHLOROBENZENE	ug/kg	4.5 UJ	3.5 UJ	5.2 UJ	1.2 J	3.7 UJ	2.9 UJ
SW8260	1,4-DICHLOROBENZENE	ug/kg	3.3 J	4.7 J	7.6 J	9.6 J	4.4 J	13.5 J
SW8260	BENZENE	ug/kg	4.5 UJ	3.5 UJ	5.2 UJ	1.6 J	3.7 UJ	1.2 J
SW8260	CHLOROBENZENE	ug/kg	5.4 J	15.1 J	8.2 J	14.9 J	9 J	29.7 J
SW8260	ETHYLBENZENE	ug/kg	4.5 UJ	3.5 UJ	5.2 UJ	3.5 UJ	3.7 UJ	3.5 UJ
SW8260	NAPHTHALENE	ug/kg	22 UJ	18 UJ	26 UJ	17 UJ	19 UJ	18 UJ
SW8260	O-XYLENE	ug/kg	4.5 UJ	3.5 UJ	5.2 UJ	3.5 UJ	3.7 UJ	3.5 UJ
SW8260	TOLUENE	ug/kg	4.5 UJ	3.5 UJ	5.2 UJ	3.5 UJ	3.7 UJ	3.5 UJ
SW8260	XYLENES, M & P	ug/kg	4.5 UJ	3.5 UJ	5.2 UJ	3.5 UJ	3.7 UJ	2.3 J
SW8260	XYLENES, TOTAL	ug/kg	4.5 UJ	3.5 UJ	5.2 UJ	3.5 UJ	3.7 UJ	2.3 J
SW8270	ACENAPHTHENE	ug/kg	14 UJ	39.6 J	14 UJ	10 UJ	16.7 J	31.6 J
SW8270	ACENAPHTHYLENE	ug/kg	61.9 J	80.6 J	14 UJ	10 UJ	50 J	81.4 J
SW8270	ANTHRACENE	ug/kg	60.2 J	110 J	14 UJ	19.8 J	52.9 J	99.5 J
SW8270	BENZO(A)ANTHRACENE	ug/kg	192 J	251 J	35.9 J	51.4 J	179 J	252 J
SW8270	BENZO(A)PYRENE	ug/kg	208 J	227 J	32.3 J	44.1 J	206 J	271 J
SW8270	BENZO(B)FLUORANTHENE	ug/kg	280 J	325 J	29.7 J	72.4 J	273 J	317 J
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	207 J	204 J	33.4 J	43 J	200 J	246 J
SW8270	BENZO(K)FLUORANTHENE	ug/kg	199 J	159 J	62.6 J	43.2 J	209 J	264 J
SW8270	CHRYSENE	ug/kg	235 J	291 J	39.1 J	61.9 J	229 J	305 J
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	79.6 J	78.1 J	14 UJ	10 UJ	89.2 J	100 J
SW8270	FLUORANTHENE	ug/kg	350 J	509 J	56.2 J	84.3 J	334 J	434 J
SW8270	FLUORENE	ug/kg	14 UJ	90.6 J	14 UJ	10 UJ	21.1 J	47.7 J
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	247 J	238 J	28 J	41.9 J	236 J	281 J
SW8270	PHENANTHRENE	ug/kg	140 J	293 J	14 UJ	43.8 J	133 J	238 J
SW8270	PYRENE	ug/kg	357 J	504 J	50.5 J	91.8 J	342 J	453 J

**Table A2**  
**Validated Addendum 5 SMU-8 PECQ Sediment Analytical Data**

Location	OL-VC-80180	OL-VC-80180	OL-VC-80181	OL-VC-80181	OL-VC-80182	OL-VC-80182	OL-VC-80183	OL-VC-80183
Sample Depth	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft
Field Sample ID	OL-1205-05	OL-1205-06	OL-1206-09	OL-1206-10	OL-1210-17	OL-1210-18	OL-1076-03	OL-1076-04
Sample Date	5/24/2010	5/24/2010	5/25/2010	5/25/2010	5/26/2010	5/26/2010	5/20/2010	5/20/2010
SDG	JA47432	JA47432	JA47433	JA47433	JA47522	JA47522	JA47063	JA47063
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Method	Parameter Name	Units						
ASTM D4643-00	SOLIDS, PERCENT	%	21.1	26.9				
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	37300 J	36000 J	35000 J	26800 J	24200 J	28300 J
SM2540G	SOLIDS, PERCENT	%			24.6	26.7	32.7	29.2
SW7471	MERCURY	mg/kg	1.6 J	2.6 J	2 J	2.5 J	1.8 J	2.8 J
SW8082	AROCOLOR-1016	ug/kg	16 UJ	12 UJ	27 UJ	25 UJ	10 UJ	11 UJ
SW8082	AROCOLOR-1221	ug/kg	16 UJ	12 UJ	27 UJ	25 UJ	10 UJ	11 UJ
SW8082	AROCOLOR-1232	ug/kg	172 J	163 J	27 UJ	25 UJ	122 JN	209 J
SW8082	AROCOLOR-1242	ug/kg	16 UJ	12 UJ	27 UJ	25 UJ	10 UJ	11 UJ
SW8082	AROCOLOR-1248	ug/kg	16 UJ	12 UJ	27 UJ	25 UJ	10 UJ	11 UJ
SW8082	AROCOLOR-1254	ug/kg	59.7 J	62.8 J	75.1 J	100 J	23.8 JN	49 J
SW8082	AROCOLOR-1260	ug/kg	32.4 J	31.6 J	48.4 J	58.5 J	16.1 J	27.6 J
SW8082	AROCOLOR-1268	ug/kg	16 UJ	12 UJ	27 UJ	25 UJ	10 UJ	11 UJ
SW8082	PCBS, N.O.S.	ug/kg	265 J	258 J	124 J	159 J	162 JN	286 J
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	4.6 UJ	3.7 UJ	4.4 UJ	4 UJ	3.1 UJ	3.9 UJ
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	4.6 UJ	3.7 UJ	4.4 UJ	4 UJ	3.1 UJ	3.9 UJ
SW8260	1,2-DICHLOROBENZENE	ug/kg	1.4 J	1.2 J	1.3 J	3.2 J	3.1 UJ	1.9 J
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	4.6 UJ	3.7 UJ	4.4 UJ	4 UJ	3.1 UJ	3.9 UJ
SW8260	1,3-DICHLOROBENZENE	ug/kg	4.6 UJ	1 J	4.4 UJ	1.7 J	3.1 UJ	3.9 UJ
SW8260	1,4-DICHLOROBENZENE	ug/kg	5.8 J	10.4 J	4.3 J	14.2 J	2.7 J	7.5 J
SW8260	BENZENE	ug/kg	4.6 UJ	2.3 J	4.4 UJ	1.9 J	3.1 UJ	4 J
SW8260	CHLOROBENZENE	ug/kg	4.8 J	24 J	5.6 J	23.5 J	4.1 J	23.6 J
SW8260	ETHYLBENZENE	ug/kg	4.6 UJ	3.7 UJ	4.4 UJ	4 UJ	3.1 UJ	3.9 UJ
SW8260	NAPHTHALENE	ug/kg	23 UJ	19 UJ	22 UJ	20 UJ	16 UJ	19 UJ
SW8260	O-XYLENE	ug/kg	4.6 UJ	3.7 UJ	4.4 UJ	4 UJ	3.1 UJ	3.9 UJ
SW8260	TOLUENE	ug/kg	4.6 UJ	3.7 UJ	4.4 UJ	4 UJ	3.1 UJ	3.9 UJ
SW8260	XYLENES, M & P	ug/kg	4.6 UJ	3.7 UJ	4.4 UJ	1.9 J	3.1 UJ	3.9 UJ
SW8260	XYLENES, TOTAL	ug/kg	4.6 UJ	3.7 UJ	4.4 UJ	1.9 J	3.1 UJ	3.9 UJ
SW8270	ACENAPHTHENE	ug/kg	14 UJ	26.5 J	12 UJ	11 UJ	8.7 UJ	9.7 UJ
SW8270	ACENAPHTHYLENE	ug/kg	14 UJ	43.9 J	29.4 J	44 J	37.2 J	64.1 J
SW8270	ANTHRACENE	ug/kg	14.3 J	51.7 J	26.5 J	41.8 J	34 J	62.7 J
SW8270	BENZO(A)ANTHRACENE	ug/kg	69 J	130 J	92.4 J	116 J	118 J	183 J
SW8270	BENZO(A)PYRENE	ug/kg	75.5 J	138 J	109 J	123 J	134 J	196 J
SW8270	BENZO(B)FLUORANTHENE	ug/kg	107 J	216 J	170 J	193 J	207 J	277 J
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	67.1 J	110 J	105 J	102 J	118 J	164 J
SW8270	BENZO(K)FLUORANTHENE	ug/kg	54.7 J	92.5 J	73.1 J	248 J	104 J	126 J
SW8270	CHRYSENE	ug/kg	88.4 J	143 J	125 J	139 J	159 J	241 J
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	14 UJ	16.4 J	46.7 J	42.9 J	42.2 J	60.1 J
SW8270	FLUORANTHENE	ug/kg	116 J	235 J	181 J	195 J	225 J	329 J
SW8270	FLUORENE	ug/kg	14 UJ	22.9 J	13.2 J	21.3 J	8.7 UJ	24.8 J
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	55.4 J	90.7 J	128 J	119 J	151 J	210 J
SW8270	PHENANTHRENE	ug/kg	60.6 J	148 J	72.8 J	104 J	90.2 J	157 J
SW8270	PYRENE	ug/kg	117 J	237 J	187 J	207 J	235 J	359 J

**Table A2  
Validated Addendum 5 SMU-8 PECQ Sediment Analytical Data**

Location	OL-VC-80184	OL-VC-80184	OL-VC-80185	OL-VC-80185	OL-VC-80186	OL-VC-80186	OL-VC-80186	OL-VC-80186	OL-VC-80186
Sample Depth	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft	0.13-0.50 Ft
Field Sample ID	OL-1204-01	OL-1204-02	OL-1205-13	OL-1205-14	OL-1205-01	OL-1205-02	OL-1213-01	OL-1213-02	
Sample Date	5/24/2010	5/24/2010	5/24/2010	5/24/2010	5/24/2010	5/24/2010	5/24/2010	5/24/2010	5/24/2010
SDG	JA47302	JA47302	JA47432	JA47432	JA47432	JA47432	JA47521	JA47521	JA47521
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Field duplicate	Field duplicate	
Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Method	Parameter Name	Units							
ASTM D4643-00	SOLIDS, PERCENT	%				21.4	28.8		
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	31000 J	32200 J	34000 J	37200 J	41700 J	50900 J	35100 J 30900 J
SM2540G	SOLIDS, PERCENT	%	23.4	28.8	23.7	31			22.8 29.7
SW7471	MERCURY	mg/kg	2.3 J	2.3 J	2.2 J	2.7 J	2 J	2.9 J	2.1 J 0.026 J
SW8082	AROCOLOR-1016	ug/kg	14 UJ	11 UJ	14 UJ	11 UJ	15 UJ	12 UJ	15 UJ 11 UJ
SW8082	AROCOLOR-1221	ug/kg	14 UJ	11 UJ	14 UJ	11 UJ	15 UJ	12 UJ	15 UJ 11 UJ
SW8082	AROCOLOR-1232	ug/kg	92.4 J	11 UJ	172 J	170 J	181 J	12 UJ	134 J 190 J
SW8082	AROCOLOR-1242	ug/kg	14 UJ	181 J	14 UJ	11 UJ	15 UJ	644 J	15 UJ 11 UJ
SW8082	AROCOLOR-1248	ug/kg	14 UJ	11 UJ	14 UJ	11 UJ	15 UJ	12 UJ	15 UJ 11 UJ
SW8082	AROCOLOR-1254	ug/kg	14 UJ	170 J	74.5 J	78.8 J	62.7 J	424 J	51.2 J 87.5 J
SW8082	AROCOLOR-1260	ug/kg	18.8 J	67.5 J	45.5 J	41.1 J	32.1 J	207 J	32.8 J 45.4 J
SW8082	AROCOLOR-1268	ug/kg	14 UJ	11 UJ	14 UJ	11 UJ	15 UJ	12 UJ	15 UJ 11 UJ
SW8082	PCBS, N.O.S.	ug/kg	111 J	425 J	292 J	290 J	276 J	1280 J	218 J 323 J
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	4.6 UJ	3.7 UJ	4.2 UJ	15 UJ	5.3 UJ	3.8 UJ	4.6 UJ R
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	R	3.7 UJ	4.2 UJ	15 UJ	5.3 UJ	3.8 UJ	4.6 UJ R
SW8260	1,2-DICHLOROBENZENE	ug/kg	4.6 UJ	1.1 J	4.2 UJ	40.7 J	1.8 J	3.8 UJ	2.2 J 3.4 UJ
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	R	3.7 UJ	4.2 UJ	15 UJ	5.3 UJ	3.8 UJ	4.6 UJ R
SW8260	1,3-DICHLOROBENZENE	ug/kg	4.6 UJ	1 J	5.3 J	23.5 J	5.3 UJ	1.7 J	4.6 UJ 1.2 J
SW8260	1,4-DICHLOROBENZENE	ug/kg	5.2 J	6.2 J	14.3 J	38.1 J	6.8 J	13.3 J	7.4 J 10.4 J
SW8260	BENZENE	ug/kg	4.6 UJ	3.7 UJ	40.4 J	136 J	5.3 UJ	5.4 J	4.6 UJ 1.5 J
SW8260	CHLOROBENZENE	ug/kg	9.8 J	18.3 J	365 J	1640 J	11.7 J	46.4 J	14.5 J 23.1 J
SW8260	ETHYLBENZENE	ug/kg	4.6 UJ	3.7 UJ	4.2 UJ	15 UJ	5.3 UJ	3.8 UJ	4.6 UJ 3.4 UJ
SW8260	NAPHTHALENE	ug/kg	23 UJ	18 UJ	21 UJ	19.8 J	27 UJ	R	23 UJ 17 UJ
SW8260	O-XYLENE	ug/kg	4.6 UJ	3.7 UJ	4.2 UJ	15 UJ	5.3 UJ	1.9 J	4.6 UJ 3.4 UJ
SW8260	TOLUENE	ug/kg	4.6 UJ	3.7 UJ	4.2 UJ	15 UJ	5.3 UJ	3.8 UJ	4.6 UJ 3.4 UJ
SW8260	XYLENES, M & P	ug/kg	4.6 UJ	3.7 UJ	4.2 UJ	7.7 J	5.3 UJ	2.3 J	4.6 UJ 3.4 UJ
SW8260	XYLENES, TOTAL	ug/kg	4.6 UJ	2.4 J	4.2 UJ	13.7 J	5.3 UJ	4.2 J	4.6 UJ 3.4 UJ
SW8270	ACENAPHTHENE	ug/kg	14 UJ	40.8 J	12 UJ	9.2 UJ	35.5 J	9.9 UJ	12 UJ 9.6 UJ
SW8270	ACENAPHTHYLENE	ug/kg	25.9 J	104 J	15.9 J	10.6 J	50.1 J	9.9 UJ	17 J 14.7 J
SW8270	ANTHRACENE	ug/kg	53.6 J	124 J	23.7 J	21.6 J	76.8 J	30.2 J	22.7 J 19.2 J
SW8270	BENZO(A)ANTHRACENE	ug/kg	212 J	305 J	67.4 J	44.2 J	260 J	79.7 J	62.2 J 40 J
SW8270	BENZO(A)PYRENE	ug/kg	250 J	279 J	62.5 J	37.3 J	328 J	78.2 J	66.7 J 33.1 J
SW8270	BENZO(B)FLUORANTHENE	ug/kg	424 J	403 J	113 J	51.4 J	517 J	115 J	109 J 46 J
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	185 J	255 J	72.1 J	34.1 J	307 J	76.1 J	69.5 J 37.1 J
SW8270	BENZO(K)FLUORANTHENE	ug/kg	189 J	200 J	50.4 J	26.6 J	349 J	62.4 J	48.6 J 28.2 J
SW8270	CHRYSENE	ug/kg	280 J	345 J	66.5 J	45 J	325 J	87.3 J	76 J 34.8 J
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	71.8 J	111 J	19 J	9.2 UJ	13 UJ	9.9 UJ	12 UJ 15.4 J
SW8270	FLUORANTHENE	ug/kg	440 J	511 J	117 J	71.3 J	524 J	150 J	123 J 52.5 J
SW8270	FLUORENE	ug/kg	34.8 J	92.6 J	12 UJ	17.1 J	28.5 J	9.9 UJ	12 UJ 15.4 J
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	236 J	284 J	47.4 J	33.2 J	271 J	54.8 J	57.9 J 33.4 J
SW8270	PHENANTHRENE	ug/kg	179 J	289 J	58.7 J	42.8 J	253 J	99.1 J	51.3 J 32.1 J
SW8270	PYRENE	ug/kg	444 J	569 J	110 J	65.7 J	551 J	138 J	108 J 59.2 J

**Table A2  
Validated Addendum 5 SMU-8 PECQ Sediment Analytical Data**

Location	OL-VC-80187	OL-VC-80187	OL-VC-80188	OL-VC-80188	OL-VC-80189	OL-VC-80189	OL-VC-80190	OL-VC-80190
Sample Depth	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft
Field Sample ID	OL-1205-11	OL-1205-12	OL-1205-19	OL-1205-20	OL-1210-15	OL-1210-16	OL-1205-17	OL-1205-18
Sample Date	5/24/2010	5/24/2010	5/25/2010	5/25/2010	5/26/2010	5/26/2010	5/25/2010	5/25/2010
SDG	JA47432	JA47432	JA47432	JA47432	JA47522	JA47522	JA47432	JA47432
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Method	Parameter Name	Units						
ASTM D4643-00	SOLIDS, PERCENT	%						
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	35700 J	32900 J	32300 J	29900 J	24000 J	26000 J
SM2540G	SOLIDS, PERCENT	%	21.9	26.8	29.2	30.1	33.9	31.5
SW7471	MERCURY	mg/kg	1.7 J	3.5 J	2.8 J	2.7 J	1.8 J	2.4 J
SW8082	AROCOLOR-1016	ug/kg	15 UJ	12 UJ	11 UJ	11 UJ	9.6 UJ	10 UJ
SW8082	AROCOLOR-1221	ug/kg	15 UJ	12 UJ	11 UJ	11 UJ	9.6 UJ	10 UJ
SW8082	AROCOLOR-1232	ug/kg	125 J	269 J	95 J	237 J	57.1 J	126 JN
SW8082	AROCOLOR-1242	ug/kg	15 UJ	12 UJ	11 UJ	11 UJ	9.6 UJ	10 UJ
SW8082	AROCOLOR-1248	ug/kg	15 UJ	12 UJ	11 UJ	11 UJ	9.6 UJ	10 UJ
SW8082	AROCOLOR-1254	ug/kg	40.5 J	120 J	29.6 J	105 J	17.6 J	22.5 JN
SW8082	AROCOLOR-1260	ug/kg	23.4 J	56.2 J	20.3 J	56.8 J	13.4 J	10 UJ
SW8082	AROCOLOR-1268	ug/kg	15 UJ	12 UJ	11 UJ	11 UJ	9.6 UJ	10 UJ
SW8082	PCBS, N.O.S.	ug/kg	189 J	445 J	145 J	400 J	88.1 J	148 JN
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	4.8 UJ	3.7 UJ	3.8 UJ	3.3 UJ	3.6 UJ	3.5 UJ
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	4.8 UJ	3.7 UJ	3.8 UJ	3.3 UJ	3.6 UJ	3.5 UJ
SW8260	1,2-DICHLOROBENZENE	ug/kg	4.8 UJ	1.2 J	3.8 UJ	2.3 J	3.6 UJ	3.5 UJ
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	4.8 UJ	3.7 UJ	3.8 UJ	3.3 UJ	3.6 UJ	3.5 UJ
SW8260	1,3-DICHLOROBENZENE	ug/kg	4.8 UJ	3.7 UJ	3.8 UJ	1.7 J	3.6 UJ	3.5 UJ
SW8260	1,4-DICHLOROBENZENE	ug/kg	3.3 J	7.8 J	3 J	12.2 J	2.3 J	3.9 J
SW8260	BENZENE	ug/kg	4.8 UJ	3.7 UJ	3.8 UJ	2 J	3.6 UJ	1.4 J
SW8260	CHLOROBENZENE	ug/kg	5.3 J	15.4 J	9.3 J	31.2 J	4.1 J	15.5 J
SW8260	ETHYLBENZENE	ug/kg	4.8 UJ	3.7 UJ	3.8 UJ	3.3 UJ	3.6 UJ	3.5 UJ
SW8260	NAPHTHALENE	ug/kg	24 UJ	18 UJ	19 UJ	17 UJ	18 UJ	18 UJ
SW8260	O-XYLENE	ug/kg	4.8 UJ	3.7 UJ	3.8 UJ	3.3 UJ	3.6 UJ	3.5 UJ
SW8260	TOLUENE	ug/kg	4.8 UJ	3.7 UJ	3.8 UJ	3.3 UJ	3.6 UJ	3.5 UJ
SW8260	XYLENES, M & P	ug/kg	4.8 UJ	3.7 UJ	3.8 UJ	1.6 J	3.6 UJ	3.5 UJ
SW8260	XYLENES, TOTAL	ug/kg	4.8 UJ	3.7 UJ	3.8 UJ	2.2 J	3.6 UJ	3.5 UJ
SW8270	ACENAPHTHENE	ug/kg	13 UJ	11 UJ	25.1 J	21.2 J	8.4 UJ	9 UJ
SW8270	ACENAPHTHYLENE	ug/kg	13 UJ	31.5 J	43 J	48 J	18 J	65.4 J
SW8270	ANTHRACENE	ug/kg	23.5 J	46.4 J	41.4 J	47.6 J	18.3 J	60.1 J
SW8270	BENZO(A)ANTHRACENE	ug/kg	65.8 J	94.9 J	154 J	137 J	58.6 J	186 J
SW8270	BENZO(A)PYRENE	ug/kg	66.8 J	95.1 J	159 J	147 J	58.6 J	197 J
SW8270	BENZO(B)FLUORANTHENE	ug/kg	102 J	143 J	226 J	182 J	68.6 J	231 J
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	69.1 J	72.2 J	142 J	118 J	55.8 J	166 J
SW8270	BENZO(K)FLUORANTHENE	ug/kg	44.7 J	64.9 J	128 J	122 J	57.5 J	169 J
SW8270	CHRYSENE	ug/kg	85.6 J	102 J	168 J	135 J	62.2 J	229 J
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	15.7 J	18.3 J	39.2 J	45.8 J	8.4 UJ	56.6 J
SW8270	FLUORANTHENE	ug/kg	115 J	149 J	278 J	229 J	100 J	309 J
SW8270	FLUORENE	ug/kg	13 UJ	26.8 J	12.5 J	16.5 J	8.4 UJ	9 UJ
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	58.8 J	82.6 J	134 J	99.3 J	63.8 J	207 J
SW8270	PHENANTHRENE	ug/kg	51.9 J	93.8 J	123 J	136 J	39.8 J	134 J
SW8270	PYRENE	ug/kg	119 J	162 J	288 J	214 J	104 J	340 J

**Table A2  
Validated Addendum 5 SMU-8 PECQ Sediment Analytical Data**

Location	OL-VC-80191	OL-VC-80191	OL-VC-80191	OL-VC-80191	OL-VC-80192	OL-VC-80192	OL-VC-80193	OL-VC-80193		
Sample Depth	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft		
Field Sample ID	OL-1076-01	OL-1076-02	OL-1213-13	OL-1213-14	OL-1204-03	OL-1204-04	OL-1206-01	OL-1206-02		
Sample Date	5/20/2010	5/20/2010	5/20/2010	5/20/2010	5/24/2010	5/24/2010	5/25/2010	5/25/2010		
SDG	JA47063	JA47063	JA47521	JA47521	JA47302	JA47302	JA47433	JA47433		
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
Sample Purpose	Regular sample	Regular sample	Field duplicate	Field duplicate	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment		
Method	Parameter Name	Units								
ASTM D4643-00	SOLIDS, PERCENT	%								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	33500 J	26600 J	45400 J	37900 J	33300 J	30400 J	40900 J	40600 J
SM2540G	SOLIDS, PERCENT	%	28.2	33	24.3	30.7	20.1	26.2	31.2	29.8
SW7471	MERCURY	mg/kg	3.2 J	3 J	3.1 J	3.4 J	2.4 J	3.4 J	3.6 J	3.6 J
SW8082	AROCOR-1016	ug/kg	12 UJ	10 UJ	14 UJ	11 UJ	16 UJ	13 UJ	11 UJ	11 UJ
SW8082	AROCOR-1221	ug/kg	12 UJ	10 UJ	14 UJ	11 UJ	16 UJ	13 UJ	11 UJ	11 UJ
SW8082	AROCOR-1232	ug/kg	12 UJ	10 UJ	125 JN	11 UJ	169 J	274 J	11 UJ	11 UJ
SW8082	AROCOR-1242	ug/kg	436 J	42 J	14 UJ	59.2 J	16 UJ	13 UJ	11 UJ	11 UJ
SW8082	AROCOR-1248	ug/kg	12 UJ	10 UJ	14 UJ	11 UJ	16 UJ	13 UJ	11 UJ	11 UJ
SW8082	AROCOR-1254	ug/kg	246 J	30.3 JN	61.4 J	59.8 J	46.5 J	127 J	54.3 J	93.5 J
SW8082	AROCOR-1260	ug/kg	130 J	16.9 J	30.9 J	38.2 J	24.9 J	60.7 J	35.1 J	64.4 J
SW8082	AROCOR-1268	ug/kg	12 UJ	10 UJ	14 UJ	11 UJ	16 UJ	13 UJ	11 UJ	11 UJ
SW8082	PCBS, N.O.S.	ug/kg	812 J	89.2 J	217 JN	158 J	241 J	462 J	90 J	158 J
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	3.5 UJ	3.4 UJ	4.7 UJ	11 UJ	5.3 UJ	4.1 UJ	3.3 UJ	3.3 UJ
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	3.5 UJ	3.4 UJ	4.7 UJ	11 UJ	5.3 UJ	4.1 UJ	3.3 UJ	3.3 UJ
SW8260	1,2-DICHLOROBENZENE	ug/kg	3.5 UJ	3.4 UJ	4.7 UJ	11 UJ	2 J	1.2 J	1.1 J	3.2 J
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	3.5 UJ	3.4 UJ	4.7 UJ	11 UJ	5.3 UJ	4.1 UJ	3.3 UJ	3.3 UJ
SW8260	1,3-DICHLOROBENZENE	ug/kg	5.1 J	11.3 J	3 J	12.5 J	5.3 UJ	1.4 J	3.3 UJ	2.5 J
SW8260	1,4-DICHLOROBENZENE	ug/kg	31.9 J	30.6 J	22.5 J	48.4 J	8.2 J	12.4 J	5.6 J	20.3 J
SW8260	BENZENE	ug/kg	3.5 UJ	2.8 J	4.7 UJ	11 UJ	5.3 UJ	4.1 UJ	3.3 UJ	3.3 UJ
SW8260	CHLOROBENZENE	ug/kg	291 J	2170 J	233 J	1520 J	15.3 J	27.7 J	15.6 J	54.5 J
SW8260	ETHYLBENZENE	ug/kg	3.5 UJ	3.4 UJ	4.7 UJ	11 UJ	5.3 UJ	4.1 UJ	3.3 UJ	3.3 UJ
SW8260	NAPHTHALENE	ug/kg	18 UJ	10.2 J	23 UJ	11.1 J	26 UJ	20 UJ	17 UJ	4.9 J
SW8260	O-XYLENE	ug/kg	3.5 UJ	2.8 J	4.7 UJ	11 UJ	5.3 UJ	4.1 UJ	3.3 UJ	3.3 UJ
SW8260	TOLUENE	ug/kg	3.5 UJ	3.4 UJ	4.7 UJ	11 UJ	5.3 UJ	4.1 UJ	3.3 UJ	3.3 UJ
SW8260	XYLENES, M & P	ug/kg	3.5 UJ	3.7 J	4.7 UJ	11 UJ	5.3 UJ	4.1 UJ	3.3 UJ	2.6 J
SW8260	XYLENES, TOTAL	ug/kg	3.5 UJ	6.5 J	4.7 UJ	11 UJ	5.3 UJ	4.1 UJ	3.3 UJ	3.4 J
SW8270	ACENAPHTHENE	ug/kg	10 UJ	8.6 UJ	12 UJ	9.3 UJ	16 UJ	53.4 J	36.3 J	40.5 J
SW8270	ACENAPHTHYLENE	ug/kg	25.6 J	8.6 UJ	12 UJ	18.9 J	105 J	146 J	130 J	120 J
SW8270	ANTHRACENE	ug/kg	22.6 J	16.9 J	12 UJ	20 J	106 J	160 J	139 J	150 J
SW8270	BENZO(A)ANTHRACENE	ug/kg	64 J	30.6 J	25.7 J	42.2 J	356 J	388 J	452 J	393 J
SW8270	BENZO(A)PYRENE	ug/kg	78.8 J	34.7 J	23.7 J	39.3 J	411 J	360 J	495 J	432 J
SW8270	BENZO(B)FLUORANTHENE	ug/kg	96.7 J	48.5 J	30.3 J	63.3 J	579 J	461 J	651 J	408 J
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	71.1 J	30.1 J	23.3 J	34.4 J	409 J	326 J	395 J	389 J
SW8270	BENZO(K)FLUORANTHENE	ug/kg	67.7 J	23.1 J	20.4 J	34 J	374 J	290 J	273 J	294 J
SW8270	CHRYSENE	ug/kg	76.6 J	36.3 J	27 J	46.2 J	442 J	416 J	511 J	362 J
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	26.1 J	8.6 UJ	13.4 J	15.5 J	155 J	149 J	224 J	178 J
SW8270	FLUORANTHENE	ug/kg	114 J	57 J	30.3 J	65.9 J	629 J	615 J	763 J	665 J
SW8270	FLUORENE	ug/kg	10 UJ	8.6 UJ	12 UJ	24.5 J	41.8 J	87.9 J	72.3 J	94.9 J
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	83.6 J	34.8 J	20.5 J	32.7 J	494 J	378 J	333 J	475 J
SW8270	PHENANTHRENE	ug/kg	44.8 J	34.9 J	12 UJ	45.3 J	247 J	363 J	293 J	316 J
SW8270	PYRENE	ug/kg	119 J	64.1 J	30.4 J	80.9 J	654 J	573 J	681 J	614 J



**Table A2  
Validated Addendum 5 SMU-8 PECQ Sediment Analytical Data**

Location	OL-VC-80194	OL-VC-80194	OL-VC-80195	OL-VC-80195	OL-VC-80195	OL-VC-80195	OL-VC-80196	OL-VC-80196		
Sample Depth	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft		
Field Sample ID	OL-1205-15	OL-1205-16	OL-1205-07	OL-1205-08	OL-1206-15	OL-1206-16	OL-1205-09	OL-1205-10		
Sample Date	5/25/2010	5/25/2010	5/24/2010	5/24/2010	5/24/2010	5/24/2010	5/24/2010	5/24/2010		
SDG	JA47432	JA47432	JA47432	JA47432	JA47433	JA47433	JA47432	JA47432		
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Field duplicate	Field duplicate	Regular sample	Regular sample		
Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment		
Method	Parameter Name	Units								
ASTM D4643-00	SOLIDS, PERCENT	%			23.2	30.1				
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	33500 J	29900 J	33800 J	31900 J	41300 J	38100 J	34100 J	39700 J
SM2540G	SOLIDS, PERCENT	%	35.6	38.2			24.1	27.8	25.3	26.7
SW7471	MERCURY	mg/kg	1.8 J	2.8 J	2.9 J	3.3 J	3.2 J	3.9 J	2.8 J	3.6 J
SW8082	AROCOR-1016	ug/kg	9.3 UJ	8.7 UJ	14 UJ	11 UJ	13 UJ	12 UJ	13 UJ	12 UJ
SW8082	AROCOR-1221	ug/kg	9.3 UJ	8.7 UJ	14 UJ	11 UJ	13 UJ	12 UJ	13 UJ	12 UJ
SW8082	AROCOR-1232	ug/kg	165 J	316 J	183 J	109 J	13 UJ	12 UJ	176 J	328 J
SW8082	AROCOR-1242	ug/kg	9.3 UJ	8.7 UJ	14 UJ	11 UJ	13 UJ	29.6 J	13 UJ	12 UJ
SW8082	AROCOR-1248	ug/kg	9.3 UJ	8.7 UJ	14 UJ	11 UJ	13 UJ	12 UJ	13 UJ	12 UJ
SW8082	AROCOR-1254	ug/kg	57.2 J	118 J	57.8 J	46 J	13 UJ	19.1 J	52.1 J	130 J
SW8082	AROCOR-1260	ug/kg	34.6 J	66.4 J	31.7 JN	25 J	13 UJ	15 J	30 J	64.9 J
SW8082	AROCOR-1268	ug/kg	9.3 UJ	8.7 UJ	14 UJ	11 UJ	13 UJ	12 UJ	13 UJ	12 UJ
SW8082	PCBS, N.O.S.	ug/kg	257 J	500 J	273 J	181 J	13 UJ	63.7 J	259 J	523 J
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	3.1 UJ	2.6 UJ	4.3 UJ	3.4 UJ	4.2 UJ	4 UJ	4 UJ	3.6 UJ
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	3.1 UJ	2.6 UJ	4.3 UJ	3.4 UJ	4.2 UJ	4 UJ	4 UJ	3.6 UJ
SW8260	1,2-DICHLOROBENZENE	ug/kg	3.1 UJ	1.4 J	4.3 UJ	3.4 UJ	4.2 UJ	1.5 J	1.5 J	22.6 J
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	3.1 UJ	2.6 UJ	4.3 UJ	3.4 UJ	4.2 UJ	4 UJ	4 UJ	3.6 UJ
SW8260	1,3-DICHLOROBENZENE	ug/kg	3.1 UJ	2.6 UJ	1.6 J	1.9 J	4.2 UJ	1.4 J	4 UJ	2.5 J
SW8260	1,4-DICHLOROBENZENE	ug/kg	2.4 J	6.2 J	14.1 J	14.5 J	4.1 J	11.9 J	6.6 J	21.1 J
SW8260	BENZENE	ug/kg	3.1 UJ	2.6 UJ	4.3 UJ	3.4 UJ	4.2 UJ	4 UJ	4 UJ	3.6 UJ
SW8260	CHLOROBENZENE	ug/kg	4.6 J	18 J	12.6 J	37.8 J	6.2 J	23.2 J	9.9 J	23.7 J
SW8260	ETHYLBENZENE	ug/kg	3.1 UJ	2.6 UJ	4.3 UJ	3.4 UJ	4.2 UJ	4 UJ	4 UJ	3.6 UJ
SW8260	NAPHTHALENE	ug/kg	16 UJ	13 UJ	22 UJ	17 UJ	21 UJ	20 UJ	20 UJ	18 UJ
SW8260	O-XYLENE	ug/kg	3.1 UJ	2.6 UJ	4.3 UJ	3.4 UJ	4.2 UJ	4 UJ	4 UJ	3.6 UJ
SW8260	TOLUENE	ug/kg	3.1 UJ	2.6 UJ	4.3 UJ	3.4 UJ	4.2 UJ	4 UJ	4 UJ	3.6 UJ
SW8260	XYLENES, M & P	ug/kg	3.1 UJ	2.6 UJ	4.3 UJ	3.4 UJ	4.2 UJ	4 UJ	4 UJ	3.6 UJ
SW8260	XYLENES, TOTAL	ug/kg	3.1 UJ	2.6 UJ	4.3 UJ	3.4 UJ	4.2 UJ	4 UJ	4 UJ	3.6 UJ
SW8270	ACENAPHTHENE	ug/kg	8 UJ	45.8 J	12 UJ	19.5 J	12 UJ	20.4 J	11 UJ	11 UJ
SW8270	ACENAPHTHYLENE	ug/kg	28.3 J	118 J	21.2 J	29 J	44.2 J	74.7 J	11 UJ	28.2 J
SW8270	ANTHRACENE	ug/kg	36.4 J	112 J	32.2 J	29.7 J	38.8 J	68.9 J	11 UJ	30.3 J
SW8270	BENZO(A)ANTHRACENE	ug/kg	98.9 J	354 J	83.3 J	71.9 J	115 J	178 J	47.1 J	93.4 J
SW8270	BENZO(A)PYRENE	ug/kg	111 J	389 J	71.1 J	66.4 J	129 J	178 J	58.7 J	96.3 J
SW8270	BENZO(B)FLUORANTHENE	ug/kg	157 J	446 J	142 J	83.4 J	224 J	253 J	63.1 J	139 J
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	89.7 J	307 J	72.4 J	56.9 J	123 J	166 J	44.9 J	85.4 J
SW8270	BENZO(K)FLUORANTHENE	ug/kg	77.4 J	188 J	39.8 J	69.5 J	65.7 J	118 J	56.6 J	64.7 J
SW8270	CHRYSENE	ug/kg	123 J	353 J	96.7 J	74.2 J	146 J	210 J	53 J	92.7 J
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	20.6 J	81.3 J	12 UJ	9.5 UJ	54 J	75.2 J	11 UJ	37.9 J
SW8270	FLUORANTHENE	ug/kg	176 J	480 J	138 J	112 J	210 J	297 J	88.2 J	162 J
SW8270	FLUORENE	ug/kg	8 UJ	44.2 J	23 J	37.4 J	15.6 J	41.1 J	11 UJ	35.1 J
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	74 J	279 J	52 J	50.8 J	145 J	193 J	39.9 J	64.5 J
SW8270	PHENANTHRENE	ug/kg	78.5 J	273 J	60.1 J	71.3 J	82.5 J	159 J	37.8 J	92.8 J
SW8270	PYRENE	ug/kg	186 J	529 J	128 J	116 J	218 J	313 J	94.2 J	158 J

**Table A2**  
**Validated Addendum 5 SMU-8 PECQ Sediment Analytical Data**

Location	OL-VC-80197	OL-VC-80197	OL-VC-80198	OL-VC-80198	OL-VC-80199	OL-VC-80199	OL-VC-80200	OL-VC-80200		
Sample Depth	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft		
Field Sample ID	OL-1206-03	OL-1206-04	OL-1342-07	OL-1342-08	OL-1342-09	OL-1342-10	OL-1343-01	OL-1343-02		
Sample Date	5/25/2010	5/25/2010	8/11/2010	8/11/2010	8/11/2010	8/11/2010	8/12/2010	8/12/2010		
SDG	JA47433	JA47433	JA53813	JA53813	JA53813	JA53813	JA53848	JA53848		
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment		
Method	Parameter Name	Units								
ASTM D4643-00	SOLIDS, PERCENT	%								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	42000 J	37400 J	23900 J	38000 J	26100 J	34100 J	24400 J	29200 J
SM2540G	SOLIDS, PERCENT	%	23.4	29.2	26.5	32.7	24.7	30.5	23.9	31.2
SW7471	MERCURY	mg/kg	3.4 J	2.8 J	1.5 J	2.7 J	0.87 J	2 J	1 J	9 J
SW8082	AROCOLOR-1016	ug/kg	14 UJ	11 UJ	12 UJ	10 UJ	13 UJ	11 UJ	14 UJ	11 UJ
SW8082	AROCOLOR-1221	ug/kg	14 UJ	11 UJ	12 UJ	10 UJ	13 UJ	11 UJ	14 UJ	11 UJ
SW8082	AROCOLOR-1232	ug/kg	14 UJ	11 UJ	12 UJ	10 UJ	13 UJ	11 UJ	14 UJ	11 UJ
SW8082	AROCOLOR-1242	ug/kg	14 UJ	11 UJ	12 UJ	10 UJ	13 UJ	11 UJ	28.8 J	97.3 J
SW8082	AROCOLOR-1248	ug/kg	14 UJ	11 UJ	58.8 J	225 J	72.5 J	271 J	14 UJ	11 UJ
SW8082	AROCOLOR-1254	ug/kg	14 UJ	11 UJ	23.6 J	80.6 J	25.3 J	86.3 J	23 J	64 J
SW8082	AROCOLOR-1260	ug/kg	14 UJ	41.4 JN	12 UJ	25.7 J	13 UJ	31.6 J	14 UJ	22.3 J
SW8082	AROCOLOR-1268	ug/kg	14 UJ	11 UJ	12 UJ	10 UJ	13 UJ	11 UJ	14 UJ	11 UJ
SW8082	PCBS, N.O.S.	ug/kg	14 UJ	41.4 JN	82.4 J	331 J	98 J	389 J	51.8 J	184 J
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	R	3.4 UJ	4.2 UJ	3.4 UJ	4.5 UJ	3.6 UJ	4.4 UJ	3.4 UJ
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	R	3.4 UJ	4.2 UJ	3.4 UJ	4.5 UJ	3.6 UJ	4.4 UJ	3.4 UJ
SW8260	1,2-DICHLOROBENZENE	ug/kg	2.6 J	1.9 J	4.2 UJ	7.6 J	4.5 UJ	2.2 J	2 J	5.7 J
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	R	3.4 UJ	4.2 UJ	12.4 J	4.5 UJ	5.7 J	4.4 UJ	19.6 J
SW8260	1,3-DICHLOROBENZENE	ug/kg	4.4 UJ	1.9 J	4.2 UJ	11.7 J	4.5 UJ	6.7 J	1.5 J	15.9 J
SW8260	1,4-DICHLOROBENZENE	ug/kg	8.3 J	16.2 J	4.6 J	34 J	2.1 J	20.6 J	6.7 J	49.1 J
SW8260	BENZENE	ug/kg	4.4 UJ	1.3 J	4.2 UJ	3.7 J	4.5 UJ	2.7 J	4.4 UJ	4.3 J
SW8260	CHLOROBENZENE	ug/kg	12.8 J	36.1 J	6.2 J	15.7 J	1.7 J	16 J	6.7 J	25.4 J
SW8260	ETHYLBENZENE	ug/kg	4.4 UJ	3.4 UJ	4.2 UJ	3.4 UJ	4.5 UJ	3.6 UJ	4.4 UJ	3.4 UJ
SW8260	NAPHTHALENE	ug/kg	22 UJ	17 UJ	21 UJ	17 UJ	22 UJ	18 UJ	22 UJ	17 UJ
SW8260	O-XYLENE	ug/kg	4.4 UJ	3.4 UJ	4.2 UJ	3.6 J	4.5 UJ	2.6 J	4.4 UJ	4.7 J
SW8260	TOLUENE	ug/kg	4.4 UJ	3.4 UJ	4.2 UJ	3.4 UJ	4.5 UJ	3.6 UJ	4.4 UJ	3.4 UJ
SW8260	XYLENES, M & P	ug/kg	4.4 UJ	1.7 J	4.2 UJ	6.6 J	4.5 UJ	6.2 J	2.4 J	11.6 J
SW8260	XYLENES, TOTAL	ug/kg	4.4 UJ	1.7 J	4.2 UJ	10.1 J	4.5 UJ	8.7 J	3.5 J	16.3 J
SW8270	ACENAPHTHENE	ug/kg	21.1 J	32.7 J	11 UJ	12.2 J	12 UJ	15.8 J	29.2 J	22.3 J
SW8270	ACENAPHTHYLENE	ug/kg	60 J	95.1 J	11.9 J	19.7 J	12 UJ	24.4 J	119 J	42.3 J
SW8270	ANTHRACENE	ug/kg	66.4 J	106 J	15.5 J	22.8 J	15.7 J	34.9 J	130 J	74.4 J
SW8270	BENZO(A)ANTHRACENE	ug/kg	225 J	261 J	32.4 J	39.5 J	36.3 J	55.4 J	316 J	181 J
SW8270	BENZO(A)PYRENE	ug/kg	256 J	262 J	38.7 J	43.5 J	45.9 J	59.9 J	392 J	160 J
SW8270	BENZO(B)FLUORANTHENE	ug/kg	357 J	424 J	57.2 J	75.6 J	74.8 J	98.6 J	764 J	249 J
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	243 J	239 J	35.8 J	35.8 J	43.3 J	50.9 J	352 J	111 J
SW8270	BENZO(K)FLUORANTHENE	ug/kg	240 J	140 J	27.1 J	28.8 J	34.6 J	45.2 J	285 J	184 J
SW8270	CHRYSENE	ug/kg	304 J	309 J	40.8 J	47.9 J	47 J	70.9 J	391 J	205 J
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	107 J	113 J	10.5 J	9.61 J	12.2 J	13.4 J	106 J	32.8 J
SW8270	FLUORANTHENE	ug/kg	448 J	426 J	68 J	85.9 J	75.6 J	123 J	752 J	345 J
SW8270	FLUORENE	ug/kg	27.6 J	52.2 J	11 UJ	27.4 J	12 UJ	28.7 J	61.3 J	117 J
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	293 J	284 J	30.2 J	32.2 J	36.5 J	41.7 J	322 J	97.4 J
SW8270	PHENANTHRENE	ug/kg	181 J	242 J	33.3 J	63.9 J	34.7 J	85.2 J	314 J	190 J
SW8270	PYRENE	ug/kg	462 J	446 J	68.2 J	101 J	72.6 J	131 J	716 J	385 J

**Table A2  
Validated Addendum 5 SMU-8 PECQ Sediment Analytical Data**

Location	OL-VC-80201	OL-VC-80201	OL-VC-80202	OL-VC-80202	OL-VC-80203	OL-VC-80203	OL-VC-80204	OL-VC-80204		
Sample Depth	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft		
Field Sample ID	OL-1343-07	OL-1343-08	OL-1343-03	OL-1343-04	OL-1344-04	OL-1344-05	OL-1343-16	OL-1343-17		
Sample Date	8/12/2010	8/12/2010	8/12/2010	8/12/2010	8/12/2010	8/12/2010	8/12/2010	8/12/2010		
SDG	JA53848	JA53848	JA53848	JA53848	JA53847	JA53847	JA53848	JA53848		
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment		
Method	Parameter Name	Units								
ASTM D4643-00	SOLIDS, PERCENT	%								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	24200 J	28000 J	24100 J	36800 J	29300 J	39700 J	23200 J	26300 J
SM2540G	SOLIDS, PERCENT	%	23.1	30.5	23.5	29.3	24.8	32.2	24.2	31.7
SW7471	MERCURY	mg/kg	0.85 J	2.9 J	0.86 J	20.1 J	1.1 J	5.4 J	1 J	1.9 J
SW8082	AROCOR-1016	ug/kg	14 UJ	11 UJ	14 UJ	11 UJ	13 UJ	10 UJ	14 UJ	10 UJ
SW8082	AROCOR-1221	ug/kg	14 UJ	11 UJ	14 UJ	11 UJ	13 UJ	10 UJ	14 UJ	10 UJ
SW8082	AROCOR-1232	ug/kg	14 UJ	11 UJ	14 UJ	11 UJ	13 UJ	10 UJ	14 UJ	10 UJ
SW8082	AROCOR-1242	ug/kg	36.5 J	77.2 J	28.6 J	211 J	13 UJ	10 UJ	28.7 J	29.4 J
SW8082	AROCOR-1248	ug/kg	14 UJ	11 UJ	14 UJ	11 UJ	40.6 J	322 J	14 UJ	10 UJ
SW8082	AROCOR-1254	ug/kg	14 UJ	39.7 J	23.2 J	120 J	18.3 J	124 J	14 UJ	19.2 J
SW8082	AROCOR-1260	ug/kg	14 UJ	15.2 J	14 UJ	35 J	13 UJ	40.3 J	14 UJ	10 UJ
SW8082	AROCOR-1268	ug/kg	14 UJ	11 UJ	14 UJ	11 UJ	13 UJ	10 UJ	14 UJ	10 UJ
SW8082	PCBS, N.O.S.	ug/kg	36.5 J	132 J	51.8 J	366 J	58.9 J	486 J	28.7 J	48.6 J
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	4.8 UJ	3.5 UJ	4.3 UJ	3.8 UJ	4.4 UJ	3.4 UJ	4.5 UJ	3.4 UJ
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	4.8 UJ	3.5 UJ	4.3 UJ	3.8 UJ	4.4 UJ	3.4 UJ	4.5 UJ	3.4 UJ
SW8260	1,2-DICHLOROBENZENE	ug/kg	4.8 UJ	1.7 J	4.3 UJ	2.2 J	4.4 UJ	1.9 J	4.5 UJ	3.4 UJ
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	4.8 UJ	7.2 J	4.3 UJ	13.6 J	4.4 UJ	14.7 J	4.5 UJ	2.8 J
SW8260	1,3-DICHLOROBENZENE	ug/kg	4.8 UJ	5.8 J	4.3 UJ	10.3 J	4.4 UJ	11.3 J	4.5 UJ	3.8 J
SW8260	1,4-DICHLOROBENZENE	ug/kg	2.8 J	17.4 J	2.5 J	27.2 J	3.1 J	27.7 J	2.7 J	7.5 J
SW8260	BENZENE	ug/kg	1.8 J	3.7 J	4.3 UJ	2 J	4.4 UJ	4.9 J	4.5 UJ	5.3 J
SW8260	CHLOROBENZENE	ug/kg	3.7 J	16.2 J	2.8 J	22.8 J	4.5 J	31 J	3.3 J	12.8 J
SW8260	ETHYLBENZENE	ug/kg	4.8 UJ	3.5 UJ	4.3 UJ	3.8 UJ	4.4 UJ	3.4 UJ	4.5 UJ	3.4 UJ
SW8260	NAPHTHALENE	ug/kg	24 UJ	17 UJ	22 UJ	19 UJ	22 UJ	17 UJ	22 UJ	17 UJ
SW8260	O-XYLENE	ug/kg	4.8 UJ	2.4 J	4.3 UJ	2.8 J	4.4 UJ	3.8 J	4.5 UJ	1.7 J
SW8260	TOLUENE	ug/kg	4.8 UJ	3.5 UJ	4.3 UJ	3.8 UJ	4.4 UJ	3.4 UJ	4.5 UJ	3.4 UJ
SW8260	XYLENES, M & P	ug/kg	4.8 UJ	5.9 J	4.3 UJ	6.3 J	4.4 UJ	8.7 J	4.5 UJ	4.5 J
SW8260	XYLENES, TOTAL	ug/kg	4.8 UJ	8.3 J	4.3 UJ	9.1 J	4.4 UJ	12.5 J	4.5 UJ	6.2 J
SW8270	ACENAPHTHENE	ug/kg	41.2 J	39.7 J	24 UJ	29.4 J	11 UJ	11.3 J	10.1 J	10.2 J
SW8270	ACENAPHTHYLENE	ug/kg	71.6 J	59.1 J	57.4 J	43.7 J	11 UJ	17 J	30.9 J	17 J
SW8270	ANTHRACENE	ug/kg	76.8 J	91.9 J	76.1 J	98.2 J	12.3 J	29.8 J	44.2 J	28.6 J
SW8270	BENZO(A)ANTHRACENE	ug/kg	162 J	146 J	267 J	187 J	30.1 J	48.4 J	104 J	52.4 J
SW8270	BENZO(A)PYRENE	ug/kg	212 J	158 J	334 J	167 J	35.1 J	52.3 J	140 J	59.5 J
SW8270	BENZO(B)FLUORANTHENE	ug/kg	325 J	277 J	695 J	357 J	53.3 J	82.4 J	172 J	97.1 J
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	200 J	132 J	303 J	121 J	30.4 J	43.8 J	133 J	48.5 J
SW8270	BENZO(K)FLUORANTHENE	ug/kg	245 J	160 J	237 J	128 J	25.3 J	43.2 J	157 J	41.9 J
SW8270	CHRYSENE	ug/kg	182 J	164 J	338 J	222 J	40.4 J	64.1 J	136 J	66 J
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	59.5 J	40.5 J	86.2 J	32.1 J	11 UJ	12.6 J	35.5 J	13.3 J
SW8270	FLUORANTHENE	ug/kg	386 J	332 J	582 J	415 J	64.8 J	109 J	221 J	107 J
SW8270	FLUORENE	ug/kg	50 J	73.5 J	32.6 J	146 J	11 UJ	29.5 J	21.2 J	23.5 J
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	181 J	124 J	274 J	109 J	26 J	37.5 J	109 J	40.7 J
SW8270	PHENANTHRENE	ug/kg	204 J	206 J	201 J	217 J	39.5 J	71 J	113 J	70.4 J
SW8270	PYRENE	ug/kg	387 J	340 J	566 J	436 J	63.1 J	114 J	219 J	120 J

**Table A2  
Validated Addendum 5 SMU-8 PECQ Sediment Analytical Data**

Location	OL-VC-80205	OL-VC-80205	OL-VC-80206	OL-VC-80206	OL-VC-80207	OL-VC-80207	OL-VC-80208	OL-VC-80208		
Sample Depth	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft		
Field Sample ID	OL-1344-02	OL-1344-03	OL-1343-20	OL-1344-01	OL-1343-18	OL-1343-19	OL-1343-14	OL-1343-15		
Sample Date	8/12/2010	8/12/2010	8/12/2010	8/12/2010	8/12/2010	8/12/2010	8/12/2010	8/12/2010		
SDG	JA53847	JA53847	JA53848	JA53847	JA53848	JA53848	JA53848	JA53848		
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment		
Method	Parameter Name	Units								
ASTM D4643-00	SOLIDS, PERCENT	%								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	29600 J	26800 J	22100 J	26200 J	23600 J	27000 J	39800 J	34400 J
SM2540G	SOLIDS, PERCENT	%	27	32.2	25.8	37.1	25.9	31.5	24.9	30.2
SW7471	MERCURY	mg/kg	1.3 J	2.1 J	1.8 J	1.5 J	1.2 J	1.8 J	1.3 J	3.8 J
SW8082	AROCOR-1016	ug/kg	12 UJ	10 UJ	13 UJ	8.9 UJ	13 UJ	11 UJ	13 UJ	11 UJ
SW8082	AROCOR-1221	ug/kg	12 UJ	10 UJ	13 UJ	8.9 UJ	13 UJ	11 UJ	13 UJ	11 UJ
SW8082	AROCOR-1232	ug/kg	12 UJ	10 UJ	13 UJ	8.9 UJ	13 UJ	11 UJ	13 UJ	11 UJ
SW8082	AROCOR-1242	ug/kg	12 UJ	10 UJ	17.4 J	8.9 UJ	19.2 J	42.1 J	32.8 J	246 J
SW8082	AROCOR-1248	ug/kg	38.8 J	33.3 J	13 UJ	167 J	13 UJ	11 UJ	13 UJ	11 UJ
SW8082	AROCOR-1254	ug/kg	19.2 J	13 J	13 UJ	78.2 J	13.8 J	38.7 J	18.7 J	131 J
SW8082	AROCOR-1260	ug/kg	12 UJ	10 UJ	13 UJ	23 J	13 UJ	14.8 J	13 UJ	11 UJ
SW8082	AROCOR-1268	ug/kg	12 UJ	10 UJ	13 UJ	8.9 UJ	13 UJ	11 UJ	13 UJ	11 UJ
SW8082	PCBS, N.O.S.	ug/kg	58 J	46.3 J	17.4 J	268 J	33 J	95.7 J	51.6 J	376 J
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	4.1 UJ	3.3 UJ	4.3 UJ	2.8 UJ	4 UJ	3.5 UJ	4.3 UJ	3.7 UJ
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	4.1 UJ	3.3 UJ	4.3 UJ	2.8 UJ	4 UJ	3.5 UJ	4.3 UJ	3.7 UJ
SW8260	1,2-DICHLOROBENZENE	ug/kg	4.1 UJ	3.3 UJ	4.3 UJ	1.2 J	4 UJ	0.96 J	1.4 J	4.9 J
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	4.1 UJ	3.3 UJ	4.3 UJ	4.9 J	4 UJ	3.5 UJ	4.3 UJ	5.4 J
SW8260	1,3-DICHLOROBENZENE	ug/kg	4.1 UJ	3.3 UJ	4.3 UJ	4.9 J	4 UJ	2.1 J	4.3 UJ	6.9 J
SW8260	1,4-DICHLOROBENZENE	ug/kg	1.4 J	1.8 J	2.2 J	10.2 J	2.5 J	6.3 J	5.2 J	23.5 J
SW8260	BENZENE	ug/kg	4.1 UJ	3.3 UJ	4.3 UJ	2 J	4 UJ	3.5 UJ	4.2 J	12.9 J
SW8260	CHLOROBENZENE	ug/kg	4.1 UJ	4.1 J	2 J	13.7 J	2.1 J	12.3 J	11.2 J	44.6 J
SW8260	ETHYLBENZENE	ug/kg	4.1 UJ	3.3 UJ	4.3 UJ	2.8 UJ	4 UJ	3.5 UJ	4.3 UJ	3.7 UJ
SW8260	NAPHTHALENE	ug/kg	21 UJ	17 UJ	22 UJ	14 UJ	20 UJ	17 UJ	21 UJ	18 UJ
SW8260	O-XYLENE	ug/kg	4.1 UJ	3.3 UJ	4.3 UJ	1.9 J	4 UJ	2.3 J	4.3 UJ	6.1 J
SW8260	TOLUENE	ug/kg	4.1 UJ	3.3 UJ	4.3 UJ	2.8 UJ	4 UJ	3.5 UJ	4.3 UJ	1.4 J
SW8260	XYLENES, M & P	ug/kg	4.1 UJ	3.3 UJ	4.3 UJ	4.4 J	4 UJ	3 J	2.4 J	11 J
SW8260	XYLENES, TOTAL	ug/kg	4.1 UJ	3.3 UJ	4.3 UJ	6.3 J	4 UJ	5.3 J	3.7 J	17.1 J
SW8270	ACENAPHTHENE	ug/kg	11 UJ	8.8 UJ	12 UJ	9.44 J	19.2 J	54.9 J	53.6 J	45.6 J
SW8270	ACENAPHTHYLENE	ug/kg	11 UJ	13.7 J	19.8 J	12.2 J	38.3 J	89.6 J	176 J	85.1 J
SW8270	ANTHRACENE	ug/kg	11 UJ	20 J	26.4 J	19.7 J	56.5 J	136 J	161 J	140 J
SW8270	BENZO(A)ANTHRACENE	ug/kg	41 J	54.6 J	67.9 J	34.8 J	137 J	238 J	318 J	253 J
SW8270	BENZO(A)PYRENE	ug/kg	50.8 J	65.1 J	84 J	36.5 J	173 J	240 J	371 J	237 J
SW8270	BENZO(B)FLUORANTHENE	ug/kg	74.7 J	95.4 J	105 J	51.7 J	297 J	405 J	619 J	409 J
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	41 J	49.2 J	69.5 J	28.1 J	143 J	173 J	317 J	167 J
SW8270	BENZO(K)FLUORANTHENE	ug/kg	37.9 J	44.2 J	89.1 J	29.5 J	95.9 J	165 J	326 J	127 J
SW8270	CHRYSENE	ug/kg	53.8 J	65.7 J	82.7 J	44.6 J	164 J	280 J	345 J	293 J
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	12.8 J	15.3 J	20.7 J	7.7 UJ	41.8 J	51.9 J	96.5 J	50.4 J
SW8270	FLUORANTHENE	ug/kg	88.7 J	107 J	137 J	73.8 J	273 J	393 J	668 J	443 J
SW8270	FLUORENE	ug/kg	11 UJ	8.8 UJ	12 UJ	15.5 J	29 J	96.2 J	122 J	134 J
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	37.1 J	43.7 J	60.4 J	24.2 J	123 J	157 J	284 J	147 J
SW8270	PHENANTHRENE	ug/kg	44.5 J	55 J	69.6 J	52 J	141 J	278 J	406 J	318 J
SW8270	PYRENE	ug/kg	81.8 J	106 J	133 J	77.7 J	269 J	413 J	618 J	449 J

**Table A2**  
**Validated Addendum 5 SMU-8 PECQ Sediment Analytical Data**

Location	OL-VC-80209	OL-VC-80209	OL-VC-80210	OL-VC-80210	OL-VC-80211	OL-VC-80211	OL-VC-80211
Sample Depth	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.00-0.13 Ft	0.13-0.50 Ft
Field Sample ID	OL-1343-05	OL-1343-06	OL-1343-09	OL-1343-10	OL-1343-11	OL-1343-13	OL-1343-12
Sample Date	8/12/2010	8/12/2010	8/12/2010	8/12/2010	8/12/2010	8/12/2010	8/12/2010
SDG	JA53848	JA53848	JA53848	JA53848	JA53848	JA53848	JA53848
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Field duplicate	Regular sample
Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Method	Parameter Name	Units					
ASTM D4643-00	SOLIDS, PERCENT	%					
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	21300 J	36100 J	25600 J	32800 J	22600 J 18100 J 29400 J
SM2540G	SOLIDS, PERCENT	%	24	30.6	23.8	32.7	33.6 35.4 30.2
SW7471	MERCURY	mg/kg	1.2 J	5.6 J	1.2 J	1.6 J	1.7 J 1.5 J 2 J
SW8082	AROCOR-1016	ug/kg	14 UJ	11 UJ	14 UJ	10 UJ	9.9 UJ 9.4 UJ 11 UJ
SW8082	AROCOR-1221	ug/kg	14 UJ	11 UJ	14 UJ	10 UJ	9.9 UJ 9.4 UJ 11 UJ
SW8082	AROCOR-1232	ug/kg	14 UJ	11 UJ	14 UJ	10 UJ	9.9 UJ 9.4 UJ 11 UJ
SW8082	AROCOR-1242	ug/kg	28.1 J	366 J	42.9 J	68.5 J	65.9 J 67.7 J 78.7 J
SW8082	AROCOR-1248	ug/kg	14 UJ	11 UJ	14 UJ	10 UJ	9.9 UJ 9.4 UJ 11 UJ
SW8082	AROCOR-1254	ug/kg	20.1 J	234 J	27.3 J	41.9 J	45.1 J 46.3 J 55.4 J
SW8082	AROCOR-1260	ug/kg	14 UJ	75.8 J	14 UJ	19.8 J	21 J 21.7 J 25.2 J
SW8082	AROCOR-1268	ug/kg	14 UJ	11 UJ	14 UJ	10 UJ	9.9 UJ 9.4 UJ 11 UJ
SW8082	PCBS, N.O.S.	ug/kg	48.2 J	676 J	70.2 J	130 J	132 J 136 J 159 J
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	4.4 UJ	3.6 UJ	4.3 UJ	3.3 UJ	3.3 UJ 2.9 UJ 3.4 UJ
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	4.4 UJ	3.6 UJ	4.3 UJ	3.3 UJ	3.3 UJ 2.9 UJ 3.4 UJ
SW8260	1,2-DICHLOROBENZENE	ug/kg	1.4 J	2.7 J	1.4 J	3.8 J	1.3 J 2.9 UJ 3 J
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	4.4 UJ	2.9 J	4.3 UJ	5.9 J	3.3 UJ 2.9 UJ 3.4 UJ
SW8260	1,3-DICHLOROBENZENE	ug/kg	4.4 UJ	4 J	4.3 UJ	7.5 J	3.3 UJ 2.9 UJ 1.8 J
SW8260	1,4-DICHLOROBENZENE	ug/kg	4.3 J	13.2 J	4.6 J	24.6 J	4.6 J 2.5 J 10.5 J
SW8260	BENZENE	ug/kg	2.9 J	4.8 J	3.9 J	9 J	3.3 UJ 2.9 UJ 3.4 UJ
SW8260	CHLOROBENZENE	ug/kg	7.2 J	24.9 J	9.5 J	39.9 J	4.9 J 4.1 J 21.1 J
SW8260	ETHYLBENZENE	ug/kg	4.4 UJ	3.6 UJ	4.3 UJ	3.3 UJ	3.3 UJ 2.9 UJ 3.4 UJ
SW8260	NAPHTHALENE	ug/kg	22 UJ	18 UJ	83.7 J	23.9 J	17 UJ 15 UJ 17 UJ
SW8260	O-XYLENE	ug/kg	4.4 UJ	4.7 J	4.3 UJ	7.8 J	3.3 UJ 2.9 UJ 2.1 J
SW8260	TOLUENE	ug/kg	4.4 UJ	1.1 J	4.3 UJ	1.3 J	3.3 UJ 2.9 UJ 3.4 UJ
SW8260	XYLENES, M & P	ug/kg	4.4 UJ	7.2 J	4.3 UJ	12.7 J	3.3 UJ 2.9 UJ 2.2 J
SW8260	XYLENES, TOTAL	ug/kg	4.4 UJ	12 J	2.6 J	20.5 J	3.3 UJ 2.9 UJ 4.3 J
SW8270	ACENAPHTHENE	ug/kg	63.2 J	492 J	89.8 J	71.9 J	227 J 140 J 204 J
SW8270	ACENAPHTHYLENE	ug/kg	112 J	166 J	181 J	111 J	533 J 341 J 467 J
SW8270	ANTHRACENE	ug/kg	151 J	354 J	205 J	152 J	601 J 350 J 513 J
SW8270	BENZO(A)ANTHRACENE	ug/kg	402 J	623 J	394 J	234 J	1280 J 790 J 896 J
SW8270	BENZO(A)PYRENE	ug/kg	493 J	659 J	516 J	247 J	1620 J 956 J 1120 J
SW8270	BENZO(B)FLUORANTHENE	ug/kg	924 J	877 J	1010 J	319 J	1770 J 1220 J 1410 J
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	460 J	313 J	455 J	177 J	1310 J 833 J 752 J
SW8270	BENZO(K)FLUORANTHENE	ug/kg	433 J	419 J	322 J	266 J	1300 J 602 J 601 J
SW8270	CHRYSENE	ug/kg	448 J	854 J	469 J	248 J	1730 J 1050 J 1270 J
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	131 J	112 J	136 J	50.4 J	314 J 185 J 212 J
SW8270	FLUORANTHENE	ug/kg	846 J	1430 J	877 J	404 J	2420 J 1310 J 1720 J
SW8270	FLUORENE	ug/kg	80.1 J	283 J	136 J	158 J	337 J 191 J 330 J
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	407 J	323 J	410 J	159 J	1130 J 600 J 869 J
SW8270	PHENANTHRENE	ug/kg	372 J	973 J	489 J	330 J	793 J 514 J 751 J
SW8270	PYRENE	ug/kg	820 J	1350 J	859 J	503 J	2330 J 1360 J 1680 J

**Table A2**  
**Validated Addendum 5 SMU-8 PECQ Sediment Analytical Data**

Location	OL-VC-80212	OL-VC-80212	OL-VC-80213	OL-VC-80213	OL-VC-80214	OL-VC-80214	OL-VC-80215	OL-VC-80215	OL-VC-80216		
Sample Depth	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft		
Field Sample ID	OL-1341-11	OL-1341-12	OL-1341-13	OL-1341-14	OL-1341-05	OL-1341-06	OL-1341-15	OL-1341-16	OL-1341-17		
Sample Date	8/11/2010	8/11/2010	8/11/2010	8/11/2010	8/11/2010	8/11/2010	8/11/2010	8/11/2010	8/11/2010		
SDG	JA53814	JA53814	JA53814	JA53814	JA53814	JA53814	JA53814	JA53814	JA53814		
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment		
Method	Parameter Name	Units									
ASTM D4643-00	SOLIDS, PERCENT	%									
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	23000 J	22500 J	24800 J	23400 J	22700 J	23700 J	21900 J	53700 J	24600 J
SM2540G	SOLIDS, PERCENT	%	22.9	34.5	26.3	28.2	23.9	32.2	34.1	27.2	25.9
SW7471	MERCURY	mg/kg	1.9 J	1.4 J	1.8 J	2.4 J	1.5 J	1.8 J	2.2 J	8.9 J	2.1 J
SW8082	AROCOR-1016	ug/kg	12 UJ	9.6 UJ	13 UJ	12 UJ	14 UJ	10 UJ	9.7 UJ	12 UJ	13 UJ
SW8082	AROCOR-1221	ug/kg	12 UJ	9.6 UJ	13 UJ	12 UJ	14 UJ	10 UJ	9.7 UJ	12 UJ	13 UJ
SW8082	AROCOR-1232	ug/kg	12 UJ	9.6 UJ	13 UJ	12 UJ	14 UJ	10 UJ	9.7 UJ	12 UJ	13 UJ
SW8082	AROCOR-1242	ug/kg	26 J	33.3 J	70 J	68.6 J	48.3 J	35.4 J	37 J	443 J	52.8 J
SW8082	AROCOR-1248	ug/kg	12 UJ	9.6 UJ	13 UJ	12 UJ	14 UJ	10 UJ	9.7 UJ	12 UJ	13 UJ
SW8082	AROCOR-1254	ug/kg	26.7 J	25.9 J	54.7 J	65.3 J	39.2 J	29.6 J	27 J	238 J	39.9 J
SW8082	AROCOR-1260	ug/kg	14.9 J	12.6 J	30.1 J	34.1 J	22.7 J	16.1 J	14.8 J	135 J	22.5 J
SW8082	AROCOR-1268	ug/kg	12 UJ	9.6 UJ	13 UJ	12 UJ	14 UJ	10 UJ	9.7 UJ	12 UJ	13 UJ
SW8082	PCBS, N.O.S.	ug/kg	67.6 J	71.8 J	155 J	168 J	110 J	81.1 J	78.8 J	816 J	115 J
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	4.1 UJ	3.2 UJ	4.2 UJ	3.9 UJ	4.6 UJ	3.5 UJ	3.3 UJ	18 UJ	4.3 UJ
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	4.1 UJ	3.2 UJ	4.2 UJ	3.9 UJ	4.6 UJ	3.5 UJ	3.3 UJ	18 UJ	4.3 UJ
SW8260	1,2-DICHLOROBENZENE	ug/kg	3.6 J	1.2 J	4.2 UJ	3.9 UJ	2.1 J	1 J	1.5 J	80.2 J	1.9 J
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	4.1 UJ	3.2 UJ	4.2 UJ	3.9 UJ	4.6 UJ	3.5 UJ	3.3 UJ	86.5 J	4.3 UJ
SW8260	1,3-DICHLOROBENZENE	ug/kg	1.9 J	1.9 J	2.8 J	3.6 J	4.6 UJ	2.8 J	4.4 J	250 J	1.3 J
SW8260	1,4-DICHLOROBENZENE	ug/kg	12.6 J	7.4 J	32.7 J	34.7 J	10.6 J	17.3 J	18.1 J	1160 J	10.9 J
SW8260	BENZENE	ug/kg	4.1 UJ	3.2 UJ	9.2 J	9.4 J	2.1 J	9.5 J	2.7 J	1530 J	4.3 UJ
SW8260	CHLOROBENZENE	ug/kg	24.5 J	42.6 J	51.9 J	94.4 J	20.5 J	55.8 J	110 J	2670 J	19.6 J
SW8260	ETHYLBENZENE	ug/kg	4.1 UJ	3.2 UJ	4.2 UJ	3.9 UJ	4.6 UJ	3.5 UJ	3.3 UJ	13.4 J	4.3 UJ
SW8260	NAPHTHALENE	ug/kg	20 UJ	16 UJ	21 UJ	20 UJ	23 UJ	17 UJ	16 UJ	116 J	21 UJ
SW8260	O-XYLENE	ug/kg	4.1 UJ	2.1 J	4.2 UJ	4 J	4.6 UJ	5.7 J	9.3 J	246 J	4.3 UJ
SW8260	TOLUENE	ug/kg	4.1 UJ	3.2 UJ	4.2 UJ	1.3 J	4.6 UJ	1.4 J	3.3 UJ	37.8 J	4.3 UJ
SW8260	XYLENES, M & P	ug/kg	4.1 UJ	2.2 J	4.2 UJ	4.2 J	4.6 UJ	6.2 J	3.3 J	187 J	4.3 UJ
SW8260	XYLENES, TOTAL	ug/kg	4.1 UJ	4.2 J	3 J	8.2 J	4.6 UJ	11.9 J	12.6 J	434 J	2 J
SW8270	ACENAPHTHENE	ug/kg	10 UJ	8.3 UJ	11 UJ	10 UJ	12 UJ	8.8 UJ	8.4 UJ	11 UJ	11 UJ
SW8270	ACENAPHTHYLENE	ug/kg	19 J	8.3 UJ	17.7 J	32.8 J	17.1 J	18.3 J	25.9 J	39.2 J	37.3 J
SW8270	ANTHRACENE	ug/kg	14.6 J	9.15 J	15.3 J	31.4 J	13.9 J	17.4 J	26.9 J	11 UJ	30.3 J
SW8270	BENZO(A)ANTHRACENE	ug/kg	40.2 J	25.9 J	44.6 J	77 J	46 J	45.9 J	50.7 J	108 J	106 J
SW8270	BENZO(A)PYRENE	ug/kg	53.4 J	23.7 J	57.9 J	103 J	50.5 J	61.6 J	55.8 J	95.6 J	107 J
SW8270	BENZO(B)FLUORANTHENE	ug/kg	119 J	52.2 J	126 J	227 J	111 J	99 J	137 J	200 J	194 J
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	56.2 J	28 J	65.2 J	119 J	63 J	57.5 J	68 J	93.8 J	106 J
SW8270	BENZO(K)FLUORANTHENE	ug/kg	44.5 J	25.6 J	60.2 J	55.9 J	53.4 J	51.3 J	46.2 J	92.6 J	97.1 J
SW8270	CHRYSENE	ug/kg	52.4 J	19.8 J	61.9 J	110 J	43.7 J	52.7 J	67.8 J	134 J	127 J
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	26.7 J	18.2 J	28.8 J	39.2 J	12 UJ	27.5 J	28.5 J	36.4 J	47.7 J
SW8270	FLUORANTHENE	ug/kg	82 J	41.2 J	99.2 J	180 J	82.3 J	90.2 J	108 J	316 J	165 J
SW8270	FLUORENE	ug/kg	10 UJ	8.3 UJ	11 UJ	11 UJ	12 UJ	13.7 J	25.9 J	345 J	23.7 J
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	49.5 J	28.3 J	54.8 J	91.6 J	55.6 J	48.7 J	59.9 J	81.8 J	99.8 J
SW8270	PHENANTHRENE	ug/kg	32.5 J	23.7 J	39 J	85 J	32.3 J	44.8 J	56.5 J	272 J	65.9 J
SW8270	PYRENE	ug/kg	86.4 J	47.4 J	101 J	187 J	86.2 J	96.7 J	118 J	327 J	172 J

**Table A2**  
**Validated Addendum 5 SMU-8 PECQ Sediment Analytical Data**

Location	OL-VC-80216	OL-VC-80217	OL-VC-80217	OL-VC-80218	OL-VC-80218	OL-VC-80218	OL-VC-80219	OL-VC-80219	OL-VC-80220	OL-VC-80220	
Sample Depth	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft	
Field Sample ID	OL-1341-18	OL-1341-19	OL-1341-20	OL-1341-09	OL-1341-10	OL-1342-01	OL-1342-02	OL-1341-07	OL-1341-08	OL-1341-08	
Sample Date	8/11/2010	8/11/2010	8/11/2010	8/11/2010	8/11/2010	8/11/2010	8/11/2010	8/11/2010	8/11/2010	8/11/2010	
SDG	JA53814	JA53814	JA53814	JA53814	JA53814	JA53813	JA53813	JA53814	JA53814	JA53814	
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	
Method	Parameter Name	Units									
ASTM D4643-00	SOLIDS, PERCENT	%									
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	24900 J	23800 J	24700 J	22600 J	25200 J	34400 J	37400 J	28800 J	29100 J
SM2540G	SOLIDS, PERCENT	%	34.7	24.9	29.7	25.2	30.5	26.2	29.2	28.5	29.3
SW7471	MERCURY	mg/kg	1.7 J	1.4 J	2.6 J	1.9 J	2.8 J	2.1 J	2.9 J	4.5 J	3.9 J
SW8082	AROCOR-1016	ug/kg	9.5 UJ	13 UJ	11 UJ	13 UJ	11 UJ	13 UJ	11 UJ	12 UJ	11 UJ
SW8082	AROCOR-1221	ug/kg	9.5 UJ	13 UJ	11 UJ	13 UJ	11 UJ	13 UJ	11 UJ	12 UJ	11 UJ
SW8082	AROCOR-1232	ug/kg	9.5 UJ	13 UJ	11 UJ	13 UJ	11 UJ	13 UJ	11 UJ	12 UJ	11 UJ
SW8082	AROCOR-1242	ug/kg	49.5 J	27.4 J	44.3 J	54.9 J	96 J	13 UJ	11 UJ	41.2 J	49.7 J
SW8082	AROCOR-1248	ug/kg	9.5 UJ	13 UJ	11 UJ	13 UJ	11 UJ	74.3 J	327 J	12 UJ	11 UJ
SW8082	AROCOR-1254	ug/kg	42.5 J	19.9 J	39.6 J	42.4 J	81.2 J	32.4 J	148 J	29.3 J	35.1 J
SW8082	AROCOR-1260	ug/kg	18.8 J	13 UJ	19.8 J	23.9 J	47.6 J	13 UJ	66.7 J	17.3 J	21.2 J
SW8082	AROCOR-1268	ug/kg	9.5 UJ	13 UJ	11 UJ	13 UJ	11 UJ	13 UJ	11 UJ	12 UJ	11 UJ
SW8082	PCBS, N.O.S.	ug/kg	111 J	47.3 J	104 J	121 J	225 J	107 J	542 J	87.8 J	106 J
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	3.2 UJ	4.5 UJ	3.7 UJ	4.4 UJ	3.6 UJ	4.2 UJ	3.8 UJ	3.9 UJ	3.8 UJ
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	3.2 UJ	4.5 UJ	3.7 UJ	4.4 UJ	3.6 UJ	4.2 UJ	3.8 UJ	3.9 UJ	3.8 UJ
SW8260	1,2-DICHLOROBENZENE	ug/kg	1 J	2.1 J	1.2 J	2.6 J	1.7 J	1.6 J	1.8 J	1.9 J	1.7 J
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	3.2 UJ	4.5 UJ	3.7 UJ	4.4 UJ	3.6 UJ	4.2 UJ	3.8 UJ	R	3.8 UJ
SW8260	1,3-DICHLOROBENZENE	ug/kg	2.4 J	4.5 UJ	2.2 J	4.4 UJ	2.2 J	4.2 UJ	2.5 J	2.4 J	3.3 J
SW8260	1,4-DICHLOROBENZENE	ug/kg	9.9 J	8.4 J	14.2 J	9.3 J	17.4 J	6.2 J	17.6 J	17.9 J	24.2 J
SW8260	BENZENE	ug/kg	22.5 J	4.5 UJ	5.1 J	11.5 J	43.7 J	4.2 UJ	1.4 J	3.9 UJ	3.8 UJ
SW8260	CHLOROBENZENE	ug/kg	41.6 J	15.2 J	36.8 J	24.8 J	68.8 J	14.8 J	41.4 J	38.9 J	61.5 J
SW8260	ETHYLBENZENE	ug/kg	3.2 UJ	4.5 UJ	3.7 UJ	4.4 UJ	3.6 UJ	4.2 UJ	3.8 UJ	3.9 UJ	3.8 UJ
SW8260	NAPHTHALENE	ug/kg	16 UJ	22 UJ	19 UJ	22 UJ	18 UJ	21 UJ	19 UJ	19 UJ	19 UJ
SW8260	O-XYLENE	ug/kg	4.1 J	4.5 UJ	2.9 J	4.4 UJ	1.8 J	4.2 UJ	3.8 UJ	3.9 UJ	2.8 J
SW8260	TOLUENE	ug/kg	1.2 J	4.5 UJ	1.8 J	4.4 UJ	3.6 UJ	4.2 UJ	3.8 UJ	3.9 UJ	3.8 UJ
SW8260	XYLENES, M & P	ug/kg	3.2 J	4.5 UJ	4 J	4.4 UJ	2.7 J	4.2 UJ	3.1 J	2.4 J	3.1 J
SW8260	XYLENES, TOTAL	ug/kg	7.3 J	4.5 UJ	6.9 J	4.4 UJ	4.5 J	4.2 UJ	4.5 J	3.2 J	5.9 J
SW8270	ACENAPHTHENE	ug/kg	8.2 UJ	11 UJ	9.6 UJ	11 UJ	9.3 UJ	37.9 J	43.1 J	10 UJ	18.8 J
SW8270	ACENAPHTHYLENE	ug/kg	22.1 J	18.5 J	29.1 J	19.5 J	25.4 J	83.1 J	85 J	27.6 J	55.8 J
SW8270	ANTHRACENE	ug/kg	21.8 J	15.2 J	29.6 J	16.5 J	23.5 J	89.1 J	112 J	28.2 J	57.9 J
SW8270	BENZO(A)ANTHRACENE	ug/kg	61 J	59.9 J	76.7 J	52 J	52.9 J	206 J	218 J	82 J	140 J
SW8270	BENZO(A)PYRENE	ug/kg	53.5 J	64.1 J	83.8 J	63.8 J	65.5 J	254 J	214 J	86.9 J	154 J
SW8270	BENZO(B)FLUORANTHENE	ug/kg	94.5 J	131 J	173 J	127 J	130 J	304 J	308 J	103 J	305 J
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	51.2 J	56.2 J	72.5 J	66.1 J	68.9 J	203 J	154 J	82.4 J	150 J
SW8270	BENZO(K)FLUORANTHENE	ug/kg	51.9 J	33.1 J	25.1 J	68.7 J	50.1 J	238 J	110 J	132 J	96.1 J
SW8270	CHRYSENE	ug/kg	70.9 J	76.4 J	93 J	58.1 J	71 J	251 J	223 J	104 J	165 J
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	25.5 J	31.5 J	40 J	29.6 J	29 J	59.3 J	46.1 J	50.1 J	57.9 J
SW8270	FLUORANTHENE	ug/kg	86.5 J	92.5 J	124 J	100 J	113 J	372 J	330 J	142 J	296 J
SW8270	FLUORENE	ug/kg	16.2 J	11 UJ	20.1 J	11 UJ	20 J	61 J	107 J	17.9 J	44.7 J
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	49.8 J	61 J	73.4 J	58.6 J	56.5 J	174 J	131 J	89.6 J	119 J
SW8270	PHENANTHRENE	ug/kg	48 J	41 J	68 J	40 J	59.3 J	212 J	234 J	60.6 J	139 J
SW8270	PYRENE	ug/kg	97.4 J	96.9 J	136 J	104 J	121 J	370 J	357 J	152 J	313 J

**Table A2**  
**Validated Addendum 5 SMU-8 PECQ Sediment Analytical Data**

Location	OL-VC-80221	OL-VC-80221	OL-VC-80222	OL-VC-80222	OL-VC-80223	OL-VC-80223	OL-VC-80223	OL-VC-80223	OL-VC-80223	
Sample Depth	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft	0.00-0.13 Ft	0.13-0.50 Ft	0.13-0.50 Ft	
Field Sample ID	OL-1342-03	OL-1342-04	OL-1342-05	OL-1342-06	OL-1341-01	OL-1341-02	OL-1341-03	OL-1341-04	OL-1341-04	
Sample Date	8/11/2010	8/11/2010	8/11/2010	8/11/2010	8/11/2010	8/11/2010	8/11/2010	8/11/2010	8/11/2010	
SDG	JA53813	JA53813	JA53813	JA53813	JA53814	JA53814	JA53814	JA53814	JA53814	
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Field duplicate	Field duplicate	Field duplicate	
Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	
Method	Parameter Name	Units								
ASTM D4643-00	SOLIDS, PERCENT	%								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	31300 J	44200 J	29200 J	38900 J	24700 J	29500 J	22500 J	26400 J
SM2540G	SOLIDS, PERCENT	%	28.9	29.5	32	28.3	36.8	31.8	39.4	35.1
SW7471	MERCURY	mg/kg	2 J	3.1 J	3.9 J	4.5 J	1.5 J	2.2 J	1.4 J	2.5 J
SW8082	AROCOR-1016	ug/kg	12 UJ	11 UJ	10 UJ	12 UJ	9 UJ	10 UJ	8.4 UJ	9.4 UJ
SW8082	AROCOR-1221	ug/kg	12 UJ	11 UJ	10 UJ	12 UJ	9 UJ	10 UJ	8.4 UJ	9.4 UJ
SW8082	AROCOR-1232	ug/kg	12 UJ	11 UJ	10 UJ	12 UJ	9 UJ	10 UJ	8.4 UJ	9.4 UJ
SW8082	AROCOR-1242	ug/kg	12 UJ	11 UJ	10 UJ	12 UJ	41.5 J	103 J	35.8 J	29.1 J
SW8082	AROCOR-1248	ug/kg	124 J	172 J	85.9 J	133 J	9 UJ	10 UJ	8.4 UJ	9.4 UJ
SW8082	AROCOR-1254	ug/kg	47.9 J	78.5 J	58.2 J	58.1 J	32 J	79.5 J	28.2 J	21.7 J
SW8082	AROCOR-1260	ug/kg	21.8 J	36 J	22.1 J	29.7 J	20.4 J	47.4 J	19.6 J	12.2 J
SW8082	AROCOR-1268	ug/kg	12 UJ	11 UJ	10 UJ	12 UJ	9 UJ	10 UJ	8.4 UJ	9.4 UJ
SW8082	PCBS, N.O.S.	ug/kg	194 J	287 J	166 J	221 J	93.9 J	230 J	83.6 J	63 J
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	3.8 UJ	3.8 UJ	3.5 UJ	3.9 UJ	3 UJ	3.5 UJ	2.8 UJ	3.2 UJ
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	3.8 UJ	3.8 UJ	3.5 UJ	3.9 UJ	3 UJ	3.5 UJ	2.8 UJ	3.2 UJ
SW8260	1,2-DICHLOROBENZENE	ug/kg	1.8 J	3.2 J	1.5 J	2 J	3 UJ	1.8 J	2.8 UJ	2.8 J
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	3.8 UJ	3.8 UJ	3.5 UJ	3.9 UJ	3 UJ	3.5 UJ	2.8 UJ	3.2 UJ
SW8260	1,3-DICHLOROBENZENE	ug/kg	3.8 UJ	2.6 J	1.5 J	5 J	3 UJ	3.5 UJ	2.8 UJ	1.6 J
SW8260	1,4-DICHLOROBENZENE	ug/kg	7.4 J	18.6 J	11.6 J	34.1 J	3.2 J	7.2 J	2.6 J	12.3 J
SW8260	BENZENE	ug/kg	3.8 UJ	1.3 J	3.5 UJ	3.9 UJ	3 UJ	3.5 UJ	2.8 UJ	3.2 UJ
SW8260	CHLOROBENZENE	ug/kg	18 J	46.6 J	32.1 J	79.3 J	6.3 J	25 J	4.8 J	31.4 J
SW8260	ETHYLBENZENE	ug/kg	3.8 UJ	3.8 UJ	3.5 UJ	3.9 UJ	3 UJ	3.5 UJ	2.8 UJ	3.2 UJ
SW8260	NAPHTHALENE	ug/kg	19 UJ	19 UJ	17 UJ	20 UJ	15 UJ	17 UJ	14 UJ	16 UJ
SW8260	O-XYLENE	ug/kg	3.8 UJ	3.8 UJ	3.5 UJ	3.9 UJ	3 UJ	3.5 UJ	2.8 UJ	3.2 UJ
SW8260	TOLUENE	ug/kg	3.8 UJ	1.3 J	3.5 UJ	3.9 UJ	3 UJ	3.5 UJ	2.8 UJ	3.2 UJ
SW8260	XYLENES, M & P	ug/kg	3.8 UJ	4.1 J	1.8 J	3.4 J	3 UJ	1.7 J	2.8 UJ	2.5 J
SW8260	XYLENES, TOTAL	ug/kg	3.8 UJ	5.6 J	2.3 J	5.2 J	3 UJ	2.2 J	2.8 UJ	3.3 J
SW8270	ACENAPHTHENE	ug/kg	25.9 J	58.1 J	17.6 J	31.2 J	7.7 UJ	8.9 UJ	7.2 UJ	20.7 J
SW8270	ACENAPHTHYLENE	ug/kg	54.7 J	136 J	71.5 J	72.2 J	32 J	34.5 J	37 J	71.5 J
SW8270	ANTHRACENE	ug/kg	64.8 J	137 J	76.2 J	84.1 J	27 J	29.5 J	30.3 J	64.2 J
SW8270	BENZO(A)ANTHRACENE	ug/kg	159 J	270 J	190 J	166 J	88.4 J	83.6 J	86.9 J	173 J
SW8270	BENZO(A)PYRENE	ug/kg	181 J	282 J	210 J	168 J	111 J	98.1 J	125 J	209 J
SW8270	BENZO(B)FLUORANTHENE	ug/kg	200 J	418 J	227 J	253 J	126 J	99.8 J	125 J	176 J
SW8270	BENZO(G,H,I)PERYLENE	ug/kg	143 J	212 J	166 J	128 J	116 J	108 J	119 J	200 J
SW8270	BENZO(K)FLUORANTHENE	ug/kg	169 J	151 J	205 J	84.6 J	219 J	192 J	213 J	342 J
SW8270	CHRYSENE	ug/kg	175 J	281 J	210 J	181 J	107 J	97.9 J	128 J	202 J
SW8270	DIBENZO(A,H)ANTHRACENE	ug/kg	43.6 J	62.9 J	50.9 J	39.8 J	39.1 J	35.5 J	35.6 J	67.4 J
SW8270	FLUORANTHENE	ug/kg	267 J	423 J	313 J	276 J	190 J	172 J	202 J	354 J
SW8270	FLUORENE	ug/kg	39.6 J	105 J	57.3 J	108 J	15.1 J	20.3 J	10.9 J	28.8 J
SW8270	INDENO(1,2,3-CD)PYRENE	ug/kg	123 J	176 J	143 J	107 J	83.2 J	84.4 J	95.3 J	154 J
SW8270	PHENANTHRENE	ug/kg	149 J	320 J	158 J	174 J	66.9 J	69.5 J	78.6 J	145 J
SW8270	PYRENE	ug/kg	279 J	434 J	310 J	274 J	195 J	183 J	210 J	370 J



**ATTACHMENT A-3**

**VALIDATED LABORATORY DATA FOR  
POREWATER AND POREWATER SEDIMENT SAMPLES**

**Table A3-1  
Validated Porewater Analytical Data**

Location	OL-VC-10192	OL-VC-10192	OL-VC-10192	OL-VC-10192	OL-VC-10192	OL-VC-10192	OL-VC-10193	OL-VC-10193	OL-VC-10193		
Sample Depth	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	10.00-12.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft		
Field Sample ID	OL-1237-01DP	OL-1237-02DP	OL-1237-03DP	OL-1237-04DP		OL-1237-06DP	OL-1295-01DP	OL-1295-02DP	OL-1295-03DP		
Sample Date	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/14/2010	6/14/2010	6/14/2010		
SDG	JA48116	JA48116	JA48116	JA48116	JA48116	JA48116	JA49021	JA49021	JA49021		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units									
SM20-4500-HB	pH	S.U.	9.88	12.28	12.35	12.32	12.36	12.33	11.78	11.96	12.03
SM4500	SULFIDE	mg/L	0.2 UJ	0.16 J	1 J	3.4 J	4.5 J	10.4 J	0.2 UJ	0.2 UJ	0.2 UJ
SW7470	MERCURY	ug/L	2.8	2.6	11.8	11.2	9.4	4.1	4	5.7	2.6
SW8260	1,2,3-TRICHLORO BENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	5 U	20 U	20 U
SW8260	1,2,4-TRICHLORO BENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	5 U	20 U	20 U
SW8260	1,2-DICHLORO BENZENE	ug/L	0.7 J	1.6	0.82 J	1 U	1 U	1 U	154	20 U	20 U
SW8260	1,3,5-TRICHLORO BENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	5 U	20 U	20 U
SW8260	1,3-DICHLORO BENZENE	ug/L	0.28 J	0.35 J	1 U	1 U	1 U	1 U	2 J	20 U	20 U
SW8260	1,4-DICHLORO BENZENE	ug/L	1.5	2.4	1	0.31 J	1 U	1 U	252	20 U	20 U
SW8260	BENZENE	ug/L	257	143	77.6	41.7	10.2	3.6	93.7	50.1	46.3
SW8260	CHLORO BENZENE	ug/L	143	84.7	37.2	16.9	1.5	0.75 J	149	20 U	20 U
SW8260	ETHYLBENZENE	ug/L	0.95 J	1	0.59 J	0.27 J	1 U	1 U	10.9	12.4 J	8.2 J
SW8260	NAPHTHALENE	ug/L	12.6	36.8	22.5	7.1	1.3 J	5 U	1880	6710	2460
SW8260	O-XYLENE	ug/L	2.6	4.8	2.8	1.2	0.3 J	1 U	99.6	54.4	38.4
SW8260	TOLUENE	ug/L	3.9	6.1	4.9	3.3	1.5	1.1	75	72.4	67.1
SW8260	XYLENES, M & P	ug/L	4.3	9.2	5.6	2.1	0.57 J	0.29 J	182	160	97.4
SW8260	XYLENES, TOTAL	ug/L	6.9	14	8.5	3.3	0.87 J	0.29 J	281	214	136
SW9060	DISSOLVED ORGANIC CARBON	mg/L	98.9	196	162	246	295	365	164	345	390

**Table A3-1  
Validated Porewater Analytical Data**

Location	OL-VC-10193	OL-VC-10193	OL-VC-10193	OL-VC-20212	OL-VC-20212	OL-VC-20212	OL-VC-20212	OL-VC-20212	OL-VC-20212	OL-VC-20213	
Sample Depth	6.00-8.00 Ft	8.00-10.00 Ft	10.00-12.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-9.80 Ft	2.00-4.00 Ft		
Field Sample ID	OL-1295-04DP	OL-1295-05DP	OL-1295-06DP	OL-1075-01DP	OL-1075-02DP	OL-1075-03DP	OL-1075-04DP	OL-1075-05DP	OL-1295-08DP		
Sample Date	6/14/2010	6/14/2010	6/14/2010	5/19/2010	5/19/2010	5/19/2010	5/19/2010	5/19/2010	6/14/2010		
SDG	JA49021	JA49021	JA49021	JA46871	JA46871	JA46871	JA46871	JA46871	JA49021		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units									
SM20-4500-HB	pH	S.U.	12.1	12.11	12.1	11.85	11.53	8.47	7.11	6.95	10.38
SM4500	SULFIDE	mg/L	0.2 UJ	0.2 UJ	0.2 UJ	0.29	4.9	4.3	11.3	0.3	0.2 UJ
SW7470	MERCURY	ug/L	2.3	0.97	2.2	0.24	0.55	0.12 J	0.082 U	0.25	0.082 U
SW8260	1,2,3-TRICHLOROBENZENE	ug/L	10 UJ	5 UJ	25 UJ	5 U	1 U	1 U	1 U	5 U	1 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/L	10 UJ	5 UJ	25 UJ	5 U	1 U	1 U	1 U	5 U	1 U
SW8260	1,2-DICHLOROBENZENE	ug/L	10 UJ	5 UJ	25 UJ	5 U	1 U	1 U	1 U	5 U	1 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/L	10 UJ	5 UJ	25 UJ	5 U	1 U	1 U	1 U	5 U	1 U
SW8260	1,3-DICHLOROBENZENE	ug/L	10 UJ	5 UJ	25 UJ	5 U	1 U	1 U	1 U	5 U	1 U
SW8260	1,4-DICHLOROBENZENE	ug/L	10 UJ	5 UJ	25 UJ	5 U	1 U	1 U	1 U	5 U	1 U
SW8260	BENZENE	ug/L	56 J	55.3 J	63.7 J	748	327	52.2	362	601	1.6
SW8260	CHLOROBENZENE	ug/L	10 UJ	5 UJ	25 UJ	5 U	1 U	1 U	1 U	5 U	1 U
SW8260	ETHYLBENZENE	ug/L	14.7 J	19.4 J	48.9 J	4.7 J	1.9	1 U	1 U	5 U	0.35 J
SW8260	NAPHTHALENE	ug/L	1880 J	1520 J	4120 J	521	194	25.6	2.5 J	25 U	1.6 J
SW8260	O-XYLENE	ug/L	47 J	52.7 J	98.8 J	29.4	12	1.3	0.31 J	5 U	0.3 J
SW8260	TOLUENE	ug/L	91.6 J	107 J	247 J	300	105	10.4	2.5	3 J	0.77 J
SW8260	XYLENES, M & P	ug/L	127 J	143 J	276 J	80.1	28.2	2.5	0.54 J	5 U	1
SW8260	XYLENES, TOTAL	ug/L	174 J	195 J	375 J	110	40.2	3.8	0.85 J	5 U	1.3
SW9060	DISSOLVED ORGANIC CARBON	mg/L	284	450	466	22.8	17.5	9.1	9.4	12.7	8.5

**Table A3-1  
Validated Porewater Analytical Data**

		Location	OL-VC-20213	OL-VC-20213	OL-VC-20214	OL-VC-20215	OL-VC-20215	OL-VC-20216	OL-VC-20216	OL-VC-20216	OL-VC-20216
		Sample Depth	4.00-6.00 Ft	6.00-7.00 Ft	0.00-2.00 Ft	0.00-2.00 Ft	2.00-2.80 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft
		Field Sample ID	OL-1295-09DP	OL-1295-10DP	OL-1075-06DP	OL-1078-06DP	OL-1078-07DP	OL-1237-07DP	OL-1237-08DP	OL-1237-09DP	OL-1237-10DP
		Sample Date	6/14/2010	6/14/2010	5/19/2010	5/21/2010	5/21/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010
		SDG	JA49021	JA49021	JA46871	JA46781	JA46781	JA48116	JA48116	JA48116	JA48116
		Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water
Method	Parameter Name	Units									
SM20-4500-HB	pH	S.U.	9.3	8.25	10.14	10.61	10.56	7.44	7.16	7.15	7.17
SM4500	SULFIDE	mg/L	0.19 J	0.16 J	0.2 U			0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ
SW7470	MERCURY	ug/L	0.082 U	0.082 U	3.7	0.082 U	0.082 U	2.3	1.2	2.2	0.13 J
SW8260	1,2,3-TRICHLORO BENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,2,4-TRICHLORO BENZENE	ug/L	1 U	1 U	0.62 J	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,2-DICHLORO BENZENE	ug/L	1 U	1 U	0.71 J	1 U	1 U	0.32 J	0.64 J	0.52 J	1 U
SW8260	1,3,5-TRICHLORO BENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,3-DICHLORO BENZENE	ug/L	1 U	1 U	0.27 J	1 U	1 U	1.2	0.54 J	1 U	1 U
SW8260	1,4-DICHLORO BENZENE	ug/L	1 U	1 U	1.1	1 U	1 U	1.6	3.2	0.52 J	1 U
SW8260	BENZENE	ug/L	17.5	16.6	5.6	0.72 J	0.54 J	20.4	46.7	17.7	7.2
SW8260	CHLORO BENZENE	ug/L	1 U	1 U	0.49 J	1 U	1 U	7.5	16.6	2.7	1 U
SW8260	ETHYLBENZENE	ug/L	0.44 J	0.42 J	1 U	1 U	1 U	1 U	0.46 J	0.43 J	1 U
SW8260	NAPHTHALENE	ug/L	24.7	14.7	3.9 J	5 U	5 U	5 U	7.9	30.7	5.5
SW8260	O-XYLENE	ug/L	1.5	1.3	0.79 J	1 U	1 U	1.1	2.4	2.4	1.5
SW8260	TOLUENE	ug/L	2.3	1.4	1.4	1.3	1.6	0.93 J	0.78 J	0.76 J	0.47 J
SW8260	XYLENES, M & P	ug/L	2	1.4	0.94 J	1 U	1 U	0.94 J	1.8	0.79 J	0.91 J
SW8260	XYLENES, TOTAL	ug/L	3.5	2.7	1.7	0.45 J	0.47 J	2	4.1	3.2	2.4
SW9060	DISSOLVED ORGANIC CARBON	mg/L	12.5	9	23.1	30.2	29.2	37.2	48.6	46.2	43.4

**Table A3-1  
Validated Porewater Analytical Data**

Location	OL-VC-20216	OL-VC-20216	OL-VC-20217	OL-VC-20217	OL-VC-20217	OL-VC-20217	OL-VC-20217	OL-VC-20217	OL-VC-20217	OL-VC-30159	
Sample Depth	8.00-10.00 Ft	10.00-12.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	10.00-12.00 Ft	0.00-2.00 Ft		
Field Sample ID	OL-1237-11DP	OL-1237-12DP	OL-1237-13DP	OL-1237-14DP	OL-1237-15DP	OL-1237-16DP	OL-1237-17DP	OL-1237-18DP	OL-1268-01DP		
Sample Date	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/8/2010		
SDG	JA48116	JA48116	JA48116	JA48116	JA48116	JA48116	JA48116	JA48116	JA48494		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units									
SM20-4500-HB	pH	S.U.	7.22	7.63	7.39	7.58	7.64	8.27	9.59	11.64	11.63
SM4500	SULFIDE	mg/L	0.2 UJ	1.5 J	0.2 UJ	0.2 UJ	0.32 J	0.27 J	2.3 J	20.6 J	2.6
SW7470	MERCURY	ug/L	0.082 U	0.26	11.2	0.67	1	0.91	0.19 J	6.7	0.33
SW8260	1,2,3-TRICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,2-DICHLOROBENZENE	ug/L	3.5	1	0.5 J	2.7	4.4	14.7	3.7	1.2	1 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,3-DICHLOROBENZENE	ug/L	1 U	1 U	1.2	0.7 J	0.4 J	0.35 J	1 U	1 U	1 U
SW8260	1,4-DICHLOROBENZENE	ug/L	1.8	0.48 J	5.3	2.7	3.1	11.7	2.3	0.74 J	1 U
SW8260	BENZENE	ug/L	80.4	181	68.8	43.4	40.5	60.7	31.2	11.9	1240
SW8260	CHLOROBENZENE	ug/L	2.6	0.94 J	159	25.5	27.2	34	12.3	2.9	1 U
SW8260	ETHYLBENZENE	ug/L	9	5	1 U	4.1	3.2	15.7	5.4	2.5	0.87 J
SW8260	NAPHTHALENE	ug/L	443	172	1.5 J	97.8	124	658	196	118	31.6
SW8260	O-XYLENE	ug/L	48.1	16.2	2	22.6	10.9	37.7	15.9	8	7.5
SW8260	TOLUENE	ug/L	39.7	16.2	0.95 J	4.2	6.1	20.6	8.8	4	126
SW8260	XYLENES, M & P	ug/L	85.8	32.9	0.79 J	10.2	15.2	82.4	30	13.5	13.9
SW8260	XYLENES, TOTAL	ug/L	134	49.2	2.8	32.8	26.1	120	45.9	21.5	21.4
SW9060	DISSOLVED ORGANIC CARBON	mg/L	43	44.7	68.3	76.8	84.7	80.6	130	239	59.8

**Table A3-1  
Validated Porewater Analytical Data**

Location	OL-VC-30159	OL-VC-30159	OL-VC-30159	OL-VC-30159	OL-VC-30160	OL-VC-30160	OL-VC-30160	OL-VC-30160	OL-VC-30160	OL-VC-30160	
Sample Depth	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-9.60 Ft		
Field Sample ID	OL-1268-02DP	OL-1268-03DP	OL-1268-04DP	OL-1268-05DP	OL-1295-11DP	OL-1295-12DP	OL-1295-13DP	OL-1295-14DP	OL-1295-15DP		
Sample Date	6/8/2010	6/8/2010	6/8/2010	6/8/2010	6/14/2010	6/14/2010	6/14/2010	6/14/2010	6/14/2010		
SDG	JA48494	JA48494	JA48494	JA48494	JA49021	JA49021	JA49021	JA49021	JA49021		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units									
SM20-4500-HB	pH	S.U.	11.61	11.57	11.54	11.49	8.4	6.31	6.34	6.38	6.36
SM4500	SULFIDE	mg/L	20.5	25.3	23.7	24.7	13.8 J	11.2 J	9.7 J	9.7 J	5.5 J
SW7470	MERCURY	ug/L	0.16 J	0.082 U	0.15 J	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U
SW8260	1,2,3-TRICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	20 U	20 U	10 U	5 U	5 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	20 U	20 U	10 U	5 U	5 U
SW8260	1,2-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	20 U	20 U	10 U	5 U	5 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	20 U	20 U	10 U	5 U	5 U
SW8260	1,3-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	20 U	20 U	10 U	5 U	5 U
SW8260	1,4-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	20 U	20 U	10 U	5 U	5 U
SW8260	BENZENE	ug/L	1600 J	1640	1380 J	2340	3660	3100 J	2000	969	965
SW8260	CHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	20 U	20 U	10 U	5 U	5 U
SW8260	ETHYLBENZENE	ug/L	0.36 J	1 U	1 U	0.53 J	5.6 J	20 U	10 U	5 U	5 U
SW8260	NAPHTHALENE	ug/L	16.2	15.7	6.7	48.2	65.9 J	100 U	50 U	25 U	25 U
SW8260	O-XYLENE	ug/L	3.4	1.8	0.86 J	2.3	29.3	5.1 J	10 U	5 U	5 U
SW8260	TOLUENE	ug/L	92.8	69	56.9	130	515	124	57.3	16	9
SW8260	XYLENES, M & P	ug/L	4.4	2	0.86 J	1.9	66.8	11.7 J	3.7 J	5 U	2.2 J
SW8260	XYLENES, TOTAL	ug/L	7.9	3.8	1.7	4.3	96.1	16.8 J	3.7 J	5 U	2.2 J
SW9060	DISSOLVED ORGANIC CARBON	mg/L	60.9	69.1	68.3	60.8	46.2	39.9	35	50.4	28.9

**Table A3-1  
Validated Porewater Analytical Data**

Location	OL-VC-30161	OL-VC-30161	OL-VC-30161	OL-VC-30161	OL-VC-30161	OL-VC-30162	OL-VC-30162	OL-VC-30162	OL-VC-30162		
Sample Depth	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-9.50 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft		
Field Sample ID	OL-1296-01DP	OL-1296-02DP	OL-1296-03DP	OL-1296-04DP	OL-1296-05DP	OL-1202-01DP	OL-1202-02DP	OL-1202-03DP	OL-1202-04DP		
Sample Date	6/14/2010	6/14/2010	6/14/2010	6/14/2010	6/14/2010	5/24/2010	5/24/2010	5/24/2010	5/24/2010		
SDG	JA49022	JA49022	JA49022	JA49022	JA49022	JA47081	JA47081	JA47081	JA47081		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units									
SM20-4500-HB	pH	S.U.	12.1	12.02	12.04	11.06	8.11	11.22	11.42	11.41	11.36
SM4500	SULFIDE	mg/L	0.2 J	0.44 J	0.55 J	22 J	3.8 J	31.5 J	16.8 J	25 J	31.1 J
SW7470	MERCURY	ug/L	0.082 U	0.17 J	0.082 U	0.082 U	0.082 U	1.1	1.4	0.96	0.44
SW8260	1,2,3-TRICHLOROBENZENE	ug/L	5 U	10 U	5 U	10 U	1 U	5 U	20 U	20 U	10 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/L	5 U	10 U	5 U	10 U	1 U	5 U	20 U	20 U	10 U
SW8260	1,2-DICHLOROBENZENE	ug/L	5 U	10 U	5 U	10 U	1 UJ	5 U	20 U	20 U	10 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/L	5 U	10 U	5 U	10 U	1 UJ	5 U	20 U	20 U	10 U
SW8260	1,3-DICHLOROBENZENE	ug/L	5 U	10 U	5 U	10 U	1 UJ	5 U	20 U	20 U	10 U
SW8260	1,4-DICHLOROBENZENE	ug/L	5 U	10 U	5 U	10 U	1 UJ	5 U	20 U	20 U	10 U
SW8260	BENZENE	ug/L	125	165	179	640	756	1630	2330	2420	1940
SW8260	CHLOROBENZENE	ug/L	5 U	10 U	5 U	10 U	1 UJ	5 U	20 U	20 U	10 U
SW8260	ETHYLBENZENE	ug/L	36.9	55	44.7	31.9	3.5	5 U	20 U	20 U	10 U
SW8260	NAPHTHALENE	ug/L	902	1830	1660	719	73.5	25 U	100 U	100 U	50 U
SW8260	O-XYLENE	ug/L	252	386	297	202	17 J	5 U	20 U	20 U	10 U
SW8260	TOLUENE	ug/L	386	507	450	1170	1000	17.6	26.5	37.7	56.1
SW8260	XYLENES, M & P	ug/L	648	1020	762	620	40.4	1.9 J	20 U	20 U	10 U
SW8260	XYLENES, TOTAL	ug/L	900	1400	1060	822	57.3	1.9 J	20 U	20 U	10 U
SW9060	DISSOLVED ORGANIC CARBON	mg/L	60 J	66.4 J	72.6 J	62.3 J	46.4 J	42.9	51.3	57.2	51.8

**Table A3-1  
Validated Porewater Analytical Data**

Location	OL-VC-30162	OL-VC-30163	OL-VC-30163	OL-VC-30163	OL-VC-30163	OL-VC-30163	OL-VC-30164	OL-VC-30164	OL-VC-30164	OL-VC-30164	
Sample Depth	8.00-10.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-9.50 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	4.00-6.00 Ft	
Field Sample ID	OL-1202-05DP	OL-1296-06DP	OL-1296-07DP	OL-1296-08DP	OL-1296-09DP	OL-1296-10DP	OL-1202-06DP	OL-1202-07DP	OL-1202-08DP	OL-1202-08DP	
Sample Date	5/24/2010	6/14/2010	6/14/2010	6/14/2010	6/14/2010	6/14/2010	5/24/2010	5/24/2010	5/24/2010	5/24/2010	
SDG	JA47081	JA49022	JA49022	JA49022	JA49022	JA49022	JA47081	JA47081	JA47081	JA47081	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units									
SM20-4500-HB	pH	S.U.	11.18	11.91	11.84	11.82	7.95	6.72	7.31	6.95	6.63
SM4500	SULFIDE	mg/L	13.9 J	0.49 J	0.36 J	0.34 J	20.9 J	1.8 J	37.5 J	21.7 J	16.9 J
SW7470	MERCURY	ug/L	0.16 J	0.11 J	0.082 U	0.34	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U
SW8260	1,2,3-TRICHLOROBENZENE	ug/L	10 U	5 U	5 U	5 U	5 U	5 U	1 UJ	5 UJ	10 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/L	10 U	5 U	5 U	5 U	5 U	5 U	1 UJ	5 UJ	10 U
SW8260	1,2-DICHLOROBENZENE	ug/L	10 U	5 U	5 U	5 U	5 U	5 U	1 UJ	5 UJ	10 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/L	10 U	5 U	5 U	5 U	5 U	5 U	1 UJ	5 UJ	10 U
SW8260	1,3-DICHLOROBENZENE	ug/L	10 U	5 U	5 U	5 U	5 U	5 U	1 UJ	5 UJ	10 U
SW8260	1,4-DICHLOROBENZENE	ug/L	10 U	5 U	5 U	5 U	5 U	5 U	1 UJ	5 UJ	10 U
SW8260	BENZENE	ug/L	1590	166	159	375	789	592	8.3 J	1130 J	1320
SW8260	CHLOROBENZENE	ug/L	10 U	5 U	5 U	5 U	5 U	5 U	1 UJ	5 UJ	10 U
SW8260	ETHYLBENZENE	ug/L	10 U	38.8	36	30.7	3.5 J	2.5 J	4.7 J	25.1 J	19.5
SW8260	NAPHTHALENE	ug/L	50 U	1720	1810	1030	63.1	107	7.9 J	66.5 J	55.7
SW8260	O-XYLENE	ug/L	10 U	283	261	226	21.9	15.7	2.6 J	46.9 J	72
SW8260	TOLUENE	ug/L	140	438	406	613	787	316	0.47 J	91.6 J	278
SW8260	XYLENES, M & P	ug/L	10 U	676	639	545	50.7	44.4	21.3 J	204 J	171
SW8260	XYLENES, TOTAL	ug/L	10 U	959	899	771	72.5	60.1	23.9 J	251 J	243
SW9060	DISSOLVED ORGANIC CARBON	mg/L	42.6	82.9 J	79.5 J	68.1 J	66.9 J	44.3 J	7.6	26.6	27.4



**Table A3-1  
Validated Porewater Analytical Data**

Location	OL-VC-30164	OL-VC-30164	OL-VC-30165	OL-VC-30165	OL-VC-30165	OL-VC-30165	OL-VC-30165	OL-VC-30165	OL-VC-30166	OL-VC-30166	
Sample Depth	6.00-8.00 Ft	8.00-10.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft		
Field Sample ID	OL-1202-09DP	OL-1202-10DP	OL-1070-01DP	OL-1070-02DP	OL-1070-03DP	OL-1070-04DP	OL-1070-05DP	OL-1077-06DP	OL-1077-07DP		
Sample Date	5/24/2010	5/24/2010	5/12/2010	5/12/2010	5/12/2010	5/12/2010	5/12/2010	5/20/2010	5/20/2010		
SDG	JA47081	JA47081	JA46550	JA46550	JA46550	JA46550	JA46550	JA46717	JA46717		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units									
SM20-4500-HB	pH	S.U.	6.15	6.52	11.75	11.89	11.8	12.25	12.39	11.77	11.87
SM4500	SULFIDE	mg/L	20.5 J	17.9 J						6.6	19.6
SW7470	MERCURY	ug/L	0.082 U	0.082 U	1.8	1.2	6.6	0.29	0.096 J	0.45	0.72
SW8260	1,2,3-TRICHLOROBENZENE	ug/L	10 UJ	2 U	13 U	10 U	10 U	1 UJ	1 UJ	20 U	25 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/L	10 UJ	2 U	13 U	10 U	10 U	1 UJ	1 UJ	20 U	25 U
SW8260	1,2-DICHLOROBENZENE	ug/L	10 UJ	2 U	13 U	10 U	10 U	0.34 J	1 UJ	20 U	25 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/L	10 UJ	2 U	13 U	10 U	10 U	1 UJ	1 UJ	20 U	25 U
SW8260	1,3-DICHLOROBENZENE	ug/L	10 UJ	2 U	13 U	10 U	10 U	1 UJ	1 UJ	20 U	25 U
SW8260	1,4-DICHLOROBENZENE	ug/L	10 UJ	2 U	13 U	10 U	10 U	0.36 J	1 UJ	20 U	25 U
SW8260	BENZENE	ug/L	1350 J	895	1850	3410	4330	773 J	184 J	2330	2560
SW8260	CHLOROBENZENE	ug/L	10 UJ	2 U	13 U	10 U	10 U	0.64 J	1 UJ	20 U	25 U
SW8260	ETHYLBENZENE	ug/L	16 J	10.5	3.7 J	4.7 J	6.1 J	1 UJ	1 UJ	7.1 J	25 U
SW8260	NAPHTHALENE	ug/L	52.3 J	29.1	23.5 J	58.2	71.3	11.6 J	7.3 J	112	72 J
SW8260	O-XYLENE	ug/L	65.7 J	41.3	6.7 J	24.8	33.2	1.5 J	0.48 J	40.3	27.5
SW8260	TOLUENE	ug/L	670 J	434	214	692	980	70.5 J	13.5 J	845	623
SW8260	XYLENES, M & P	ug/L	177 J	101	16.6	63.2	82.3	2.5 J	0.71 J	98.7	69.7
SW8260	XYLENES, TOTAL	ug/L	243 J	142	23.4	88	115	4 J	1.2 J	139	97.2
SW9060	DISSOLVED ORGANIC CARBON	mg/L	30.6	32.7	85.8	71.4	110	193	227	61.1	43.4

**Table A3-1  
Validated Porewater Analytical Data**

Location	OL-VC-30166	OL-VC-30166	OL-VC-30166	OL-VC-30167	OL-VC-30167	OL-VC-30167	OL-VC-30167	OL-VC-30167	OL-VC-30167	OL-VC-30168	
Sample Depth	4.00-6.00 Ft	6.00-8.00 Ft	8.00-9.70 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-9.90 Ft	0.00-2.00 Ft		
Field Sample ID	OL-1077-08DP	OL-1077-09DP	OL-1077-10DP	OL-1077-11DP	OL-1077-12DP	OL-1077-13DP	OL-1077-14DP	OL-1077-15DP	OL-1078-01DP		
Sample Date	5/20/2010	5/20/2010	5/20/2010	5/20/2010	5/20/2010	5/20/2010	5/20/2010	5/20/2010	5/21/2010		
SDG	JA46717	JA46717	JA46717	JA46717	JA46717	JA46717	JA46717	JA46717	JA46781		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units									
SM20-4500-HB	pH	S.U.	11.88	11.89	11.84	11.99	11.95	12.3	12.27	12.26	11.36
SM4500	SULFIDE	mg/L	11.7	1.9	0.2 U	0.53	2	0.076 J	0.2 U	0.073 J	0.34
SW7470	MERCURY	ug/L	4.5	12.3	1.2	0.13 J	0.12 J	2.6	2.3	14.2	0.32
SW8260	1,2,3-TRICHLOROBENZENE	ug/L	10 U	20 U	20 U	1 UJ	1 U	1 U	1 U	1 U	1 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/L	10 U	20 U	20 U	1 UJ	1 U	1 U	1 U	1 U	1 U
SW8260	1,2-DICHLOROBENZENE	ug/L	10 U	20 U	20 U	0.26 J	1 U	1 U	1 U	0.28 J	1 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/L	10 U	20 U	20 U	1 UJ	1 U	1 U	1 U	1 U	1 U
SW8260	1,3-DICHLOROBENZENE	ug/L	10 U	20 U	20 U	1 UJ	1 U	1 U	1 U	1 U	1 U
SW8260	1,4-DICHLOROBENZENE	ug/L	10 U	20 U	20 U	0.36 J	1 U	1 U	1 U	0.37 J	1 U
SW8260	BENZENE	ug/L	1900	2030	2650	7.2 J	4.5	2.9	3.5	2.5	1
SW8260	CHLOROBENZENE	ug/L	10 U	20 U	20 U	1 UJ	1 U	1 U	1 U	1 U	1 U
SW8260	ETHYLBENZENE	ug/L	10 U	20 U	20 U	0.32 J	1 U	1 U	1 U	1 U	1 U
SW8260	NAPHTHALENE	ug/L	65.4	121	197	12 J	5	2.6 J	8	13.3	10.5
SW8260	O-XYLENE	ug/L	11.7	8.8 J	6.7 J	0.81 J	0.55 J	0.36 J	0.68 J	0.6 J	1 U
SW8260	TOLUENE	ug/L	298	225	191	2.4 J	2.2	1.5	1.8	1.5	1.2
SW8260	XYLENES, M & P	ug/L	27.7	19.7 J	13.7 J	0.98 J	0.83 J	0.39 J	0.99 J	0.94 J	1 U
SW8260	XYLENES, TOTAL	ug/L	39.4	28.6	20.3	1.8 J	1.4	0.75 J	1.7	1.5	1 U
SW9060	DISSOLVED ORGANIC CARBON	mg/L	68.5	78.8	92.5	169	254	218	215	164	76.7

**Table A3-1  
Validated Porewater Analytical Data**

Location	OL-VC-30168	OL-VC-30168	OL-VC-30168	OL-VC-30168	OL-VC-30169	OL-VC-30169	OL-VC-30169	OL-VC-30169	OL-VC-30169	OL-VC-30169	
Sample Depth	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-9.30 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-9.70 Ft		
Field Sample ID	OL-1078-02DP	OL-1078-03DP	OL-1078-04DP	OL-1078-05DP	OL-1077-16DP	OL-1077-17DP	OL-1077-18DP	OL-1077-19DP	OL-1077-20DP		
Sample Date	5/21/2010	5/21/2010	5/21/2010	5/21/2010	5/20/2010	5/20/2010	5/20/2010	5/20/2010	5/20/2010		
SDG	JA46781	JA46781	JA46781	JA46781	JA46717	JA46717	JA46717	JA46717	JA46717		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units									
SM20-4500-HB	pH	S.U.	9.09	7.39	7.01	7.26	12.35	12.35	12.33	12.25	12.2
SM4500	SULFIDE	mg/L	1.5	0.2 U	0.2 U	0.2 U	0.15 J	0.2 U	0.2 U	0.2 U	0.2 U
SW7470	MERCURY	ug/L	0.082 U	0.14 J	0.082 U	0.082 U	0.26	0.082 U	0.25	0.37	0.11 J
SW8260	1,2,3-TRICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 UJ	1 UJ	1 UJ	1 U	1 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 UJ	1 UJ	1 UJ	1 U	1 U
SW8260	1,2-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 UJ	0.27 J	0.36 J	0.34 J	0.45 J
SW8260	1,3,5-TRICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 UJ	1 UJ	1 UJ	1 U	1 U
SW8260	1,3-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 UJ	1 UJ	1 UJ	1 U	1 U
SW8260	1,4-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 UJ	1 UJ	0.29 J	1 U	0.36 J
SW8260	BENZENE	ug/L	0.6 J	1 U	1 U	1 U	101 J	34.6 J	21 J	26.6	47.1
SW8260	CHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 UJ	0.41 J	0.48 J	0.49 J	0.49 J
SW8260	ETHYLBENZENE	ug/L	1 U	1 U	1 U	1 U	1 UJ	1 UJ	1 UJ	1 U	1 U
SW8260	NAPHTHALENE	ug/L	14.2	5 U	5 U	5 U	9.3 J	8.6 J	15.9 J	14.9	21.9
SW8260	O-XYLENE	ug/L	0.29 J	1 U	1 U	1 U	1.6 J	1.1 J	1.1 J	1.1	1.3
SW8260	TOLUENE	ug/L	0.98 J	0.35 J	1 U	1 U	10.2 J	4.4 J	3.1 J	3.2	3.4
SW8260	XYLENES, M & P	ug/L	0.5 J	1 U	1 U	1 U	2.2 J	1.8 J	1.9 J	2	2.5
SW8260	XYLENES, TOTAL	ug/L	0.79 J	1 U	1 U	1 U	3.8 J	2.9 J	3 J	3.1	3.8
SW9060	DISSOLVED ORGANIC CARBON	mg/L	44.8	34.4	31.1	32.1	152	145	158	148	139

**Table A3-1  
Validated Porewater Analytical Data**

Location	OL-VC-40272	OL-VC-40272	OL-VC-40272	OL-VC-40272	OL-VC-40272	OL-VC-40273	OL-VC-40273	OL-VC-40273	OL-VC-40273		
Sample Depth	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft		
Field Sample ID	OL-1201-01DP	OL-1201-02DP	OL-1201-03DP	OL-1201-04DP		OL-1078-08DP	OL-1078-09DP	OL-1078-10DP	OL-1078-11DP		
Sample Date	5/21/2010	5/21/2010	5/21/2010	5/21/2010	5/21/2010	5/21/2010	5/21/2010	5/21/2010	5/21/2010		
SDG	JA47131	JA47131	JA47131	JA47131	JA47131	JA46781	JA46781	JA46781	JA46781		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units									
SM20-4500-HB	pH	S.U.	8.04	7.92	7.6	7.52	7.5	7.97	7.9	7.6	7.79
SM4500	SULFIDE	mg/L	0.2 U	0.15 J	0.21	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
SW7470	MERCURY	ug/L	0.12 J	0.092 J	0.65	0.082 U	0.2	0.11 J	0.082 U	0.082 U	0.082 U
SW8260	1,2,3-TRICHLORO BENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,2,4-TRICHLORO BENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,2-DICHLORO BENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,3,5-TRICHLORO BENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,3-DICHLORO BENZENE	ug/L	1 U	0.51 J	0.56 J	0.66 J	1.1	1 U	1 U	0.79 J	0.49 J
SW8260	1,4-DICHLORO BENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	BENZENE	ug/L	0.35 J	0.79 J	0.57 J	0.88 J	1.3	1 U	1 U	0.39 J	0.76 J
SW8260	CHLORO BENZENE	ug/L	1 U	0.42 J	0.54 J	0.75 J	1.1	1 U	1 U	0.8 J	1.5
SW8260	ETHYLBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	NAPHTHALENE	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	O-XYLENE	ug/L	1 U	1 U	1 U	1 U	0.33 J	1 U	1 U	1 U	0.49 J
SW8260	TOLUENE	ug/L	1 U	0.32 J	1 U	0.42 J	1 U	1 U	1 U	1 U	1 U
SW8260	XYLENES, M & P	ug/L	0.26 J	1 U	0.29 J	0.33 J	0.69 J	1 U	1 U	1 U	1.2
SW8260	XYLENES, TOTAL	ug/L	0.26 J	1 U	0.29 J	0.33 J	1	1 U	1 U	1 U	1.7
SW9060	DISSOLVED ORGANIC CARBON	mg/L	72.6	77.8	62.4	51.9	50.7	35.5	57.3	51.2	51.2

**Table A3-1  
Validated Porewater Analytical Data**

Location	OL-VC-40273	OL-VC-40274	OL-VC-40274	OL-VC-40274	OL-VC-40274	OL-VC-40274	OL-VC-40275	OL-VC-40275	OL-VC-40275		
Sample Depth	8.00-10.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-8.80 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft		
Field Sample ID	OL-1078-12DP	OL-1078-13DP	OL-1078-14DP	OL-1078-15DP	OL-1078-16DP	OL-1078-17DP	OL-1079-01DP	OL-1079-02DP	OL-1079-03DP		
Sample Date	5/21/2010	5/21/2010	5/21/2010	5/21/2010	5/21/2010	5/21/2010	5/21/2010	5/21/2010	5/21/2010		
SDG	JA46781	JA46781	JA46781	JA46781	JA46781	JA46781	JA46884	JA46884	JA46884		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units									
SM20-4500-HB	pH	S.U.	7.86	7.7	7.61	7.61	8.04	8.01	8.02	8.01	8.19
SM4500	SULFIDE	mg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.16 J	0.082 J	0.2 UJ	
SW7470	MERCURY	ug/L	1.4	0.082 U	0.082 U	0.21	0.32	0.63	46.6	0.49	0.38
SW8260	1,2,3-TRICHLORO BENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ
SW8260	1,2,4-TRICHLORO BENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ
SW8260	1,2-DICHLORO BENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ
SW8260	1,3,5-TRICHLORO BENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	0.19 J	0.22 J	0.13 J
SW8260	1,3-DICHLORO BENZENE	ug/L	1.1	0.85 J	0.43 J	0.28 J	0.64 J	0.53 J	1.9	2.8	1.8 J
SW8260	1,4-DICHLORO BENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	0.33 J	0.32 J	0.29 J
SW8260	BENZENE	ug/L	3.2	0.29 J	0.26 J	1 U	3.7	0.67 J	1.4	3.5	1.5 J
SW8260	CHLORO BENZENE	ug/L	3.7	1.5	1.4	0.53 J	3.5	1.2	4	10	8.1 J
SW8260	ETHYLBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	0.71 J	1.3	0.98 J
SW8260	NAPHTHALENE	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ
SW8260	O-XYLENE	ug/L	1	0.34 J	1 U	1 U	2	0.76 J	2.5	6.2	5 J
SW8260	TOLUENE	ug/L	0.48 J	0.32 J	1 U	0.33 J	0.34 J	0.59 J	0.71 J	1	0.46 J
SW8260	XYLENES, M & P	ug/L	2.6	0.62 J	1 U	1 U	6.2	1.7	9.8	21.2	19.7 J
SW8260	XYLENES, TOTAL	ug/L	3.6	0.96 J	1 U	1 U	8.2	2.4	12.3	27.5	24.7 J
SW9060	DISSOLVED ORGANIC CARBON	mg/L	40.6	34.5	53.5	41.9	37.2	42.6	37	29.2	20.2

**Table A3-1  
Validated Porewater Analytical Data**

Location	OL-VC-40275	OL-VC-40275	OL-VC-40276	OL-VC-40276	OL-VC-40276	OL-VC-40276	OL-VC-40276	OL-VC-40276	OL-VC-40277	OL-VC-40277	
Sample Depth	6.00-8.00 Ft	8.00-10.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft		
Field Sample ID	OL-1079-04DP	OL-1079-05DP	OL-1079-06DP	OL-1079-07DP	OL-1079-08DP	OL-1079-09DP	OL-1079-10DP	OL-1251-12DP	OL-1251-13DP		
Sample Date	5/21/2010	5/21/2010	5/21/2010	5/21/2010	5/21/2010	5/21/2010	5/21/2010	6/4/2010	6/4/2010		
SDG	JA46884	JA46884	JA46884	JA46884	JA46884	JA46884	JA46884	JA48331	JA48331		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units									
SM20-4500-HB	pH	S.U.	8.32	8.04	7.44	7.17	7.61	7.51	7.57	6.75	6.28
SM4500	SULFIDE	mg/L	0.24 J	0.2 UJ	0.16 J	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 U	0.2 U
SW7470	MERCURY	ug/L	0.12 J	0.24	0.082 U	0.082 U	0.082 U	4.5	0.49	7.1	0.082 U
SW8260	1,2,3-TRICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 UJ	1 UJ	1 U	1 U	1 U	1 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 UJ	1 UJ	1 U	1 U	1 U	1 U
SW8260	1,2-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	0.44 J	1 UJ	0.3 J	0.36 J	1 U	1 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 UJ	1 UJ	1 U	1 U	1 U	1 U
SW8260	1,3-DICHLOROBENZENE	ug/L	0.92 J	1 U	1 U	0.41 J	0.67 J	1	0.34 J	1 U	1 U
SW8260	1,4-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	0.44 J	1 UJ	0.3 J	0.36 J	1 U	1 U
SW8260	BENZENE	ug/L	1.4	0.54 J	1 U	0.37 J	1 UJ	1.1	0.89 J	20.1	29.7
SW8260	CHLOROBENZENE	ug/L	2.6	1 U	1 U	0.82 J	1.2 J	1.4	0.42 J	1 U	1 U
SW8260	ETHYLBENZENE	ug/L	0.68 J	1 U	1 U	1 UJ	0.35 J	1.9	1 U	1 U	1 U
SW8260	NAPHTHALENE	ug/L	5 U	5 U	5 U	5 UJ	5 UJ	5 U	5 U	5 U	5 U
SW8260	O-XYLENE	ug/L	2.9	0.44 J	1 U	1 UJ	1 UJ	0.67 J	0.68 J	1 U	1 U
SW8260	TOLUENE	ug/L	0.65 J	0.39 J	1 U	1 UJ	1 UJ	0.4 J	1 U	1 U	1 U
SW8260	XYLENES, M & P	ug/L	11.8	1.2	1 U	0.31 J	0.47 J	2.3	2.3	1 U	1 U
SW8260	XYLENES, TOTAL	ug/L	14.7	1.6	1 U	0.31 J	0.59 J	3	3	1 U	1 U
SW9060	DISSOLVED ORGANIC CARBON	mg/L	23.6	29.2	27.4	36.5	56.8	53.5	50.9	76.4	58.5

**Table A3-1  
Validated Porewater Analytical Data**

Location	OL-VC-40277	OL-VC-40277	OL-VC-40277	OL-VC-40278	OL-VC-40278	OL-VC-40278	OL-VC-40278	OL-VC-40278	OL-VC-40278	OL-VC-40279	
Sample Depth	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	0.00-2.00 Ft		
Field Sample ID	OL-1251-14DP	OL-1251-15DP	OL-1251-16DP	OL-1079-16DP	OL-1079-17DP	OL-1079-18DP	OL-1079-19DP	OL-1079-20DP	OL-1274-01DP		
Sample Date	6/4/2010	6/4/2010	6/4/2010	5/21/2010	5/21/2010	5/21/2010	5/21/2010	5/21/2010	6/9/2010		
SDG	JA48331	JA48331	JA48331	JA46884	JA46884	JA46884	JA46884	JA46884	JA48638		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units									
SM20-4500-HB	pH	S.U.	6.52	6.32	6.62	6.4	6.37	6.44	6.43	6.71	7.46
SM4500	SULFIDE	mg/L	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.15 J	1.3
SW7470	MERCURY	ug/L	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U
SW8260	1,2,3-TRICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,2-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/L	1 U	1 U	1 U	0.13 J	1 U	1 U	1 U	1 U	1 U
SW8260	1,3-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,4-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	BENZENE	ug/L	29.4	16.3	16.4	20.6	20.4	4.5	13.3	1	1 U
SW8260	CHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	ETHYLBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	NAPHTHALENE	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	O-XYLENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	TOLUENE	ug/L	1 U	0.39 J	1 U	1 U	1 U	1 U	1 U	1 U	2 U
SW8260	XYLENES, M & P	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	XYLENES, TOTAL	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW9060	DISSOLVED ORGANIC CARBON	mg/L	64.9	85.6	98.5	20.9	23	20.6	12.9	11.7	18.6 J

**Table A3-1  
Validated Porewater Analytical Data**

Location	OL-VC-40279	OL-VC-40279	OL-VC-40279	OL-VC-40279	OL-VC-40279	OL-VC-40280	OL-VC-40280	OL-VC-40280	OL-VC-40280		
Sample Depth	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	10.00-12.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft		
Field Sample ID	OL-1274-02DP	OL-1274-03DP	OL-1274-04DP	OL-1274-05DP	OL-1274-06DP	OL-1274-07DP	OL-1274-08DP	OL-1274-09DP	OL-1274-10DP		
Sample Date	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010		
SDG	JA48638	JA48638	JA48638	JA48638	JA48638	JA48638	JA48638	JA48638	JA48638		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units									
SM20-4500-HB	pH	S.U.	7.2	7.19	7.31	7.2	7.22	7.4	7.28	7.16	7.1
SM4500	SULFIDE	mg/L	1.7	0.9	0.81	0.79	0.27	0.79	0.84	1.9	2
SW7470	MERCURY	ug/L	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U
SW8260	1,2,3-TRICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,2-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,3-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	0.36 J	1 U	1 U	1 U
SW8260	1,4-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	BENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	CHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	ETHYLBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	NAPHTHALENE	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	O-XYLENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	TOLUENE	ug/L	2 U	1.5 U	1.5 U	1.6 U	1.4 U	1.9 U	1.9 U	1.7 U	1.3 U
SW8260	XYLENES, M & P	ug/L	1 U	1 U	1 U	1 U	1 U	0.67 J	1 U	1 U	1 U
SW8260	XYLENES, TOTAL	ug/L	1 U	1 U	1 U	1 U	1 U	0.67 J	1 U	1 U	1 U
SW9060	DISSOLVED ORGANIC CARBON	mg/L	16.6 J	15 J	14.1 J	14.8 J	13.4 J	15.5 J	17.6 J	16 J	15.9 J



**Table A3-1  
Validated Porewater Analytical Data**

Location	OL-VC-40280	OL-VC-40280	OL-VC-40281	OL-VC-40281	OL-VC-40281	OL-VC-40281	OL-VC-40281	OL-VC-40281	OL-VC-40281	OL-VC-40282	
Sample Depth	8.00-10.00 Ft	10.00-12.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	10.00-12.00 Ft	0.00-2.00 Ft		
Field Sample ID	OL-1274-11DP	OL-1274-12DP	OL-1274-13DP	OL-1274-14DP	OL-1274-15DP	OL-1274-16DP	OL-1274-17DP	OL-1274-18DP	OL-1275-01DP		
Sample Date	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	
SDG	JA48638	JA48638	JA48638	JA48638	JA48638	JA48638	JA48638	JA48638	JA48638	JA48639	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units									
SM20-4500-HB	pH	S.U.	6.99	7.02	7.3	6.87	6.82	6.68	6.57	6.65	7.81
SM4500	SULFIDE	mg/L	0.73	0.91	0.32	1.6	0.95	0.63	0.2 U	0.61	0.073 J
SW7470	MERCURY	ug/L	0.082 U	0.082 U	0.3	0.17 J	0.19 J	0.082 U	0.082 U	0.082 U	0.082 U
SW8260	1,2,3-TRICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,2-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.45 J
SW8260	1,3,5-TRICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,3-DICHLOROBENZENE	ug/L	1 U	1 U	0.52 J	1 U	1 U	1 U	1 U	1 U	1.1
SW8260	1,4-DICHLOROBENZENE	ug/L	1 U	1 U	0.54 J	1 U	1 U	1 U	1 U	1 U	7
SW8260	BENZENE	ug/L	1 U	1 U	1	0.99 J	0.74 J	0.36 J	0.28 J	1 U	1.4
SW8260	CHLOROBENZENE	ug/L	1 U	1 U	4.6	1.5	0.53 J	1 U	1 U	1 U	72
SW8260	ETHYLBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.33 J
SW8260	NAPHTHALENE	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	O-XYLENE	ug/L	1 U	1 U	0.27 J	1 U	1 U	1 U	1 U	1 U	1.7
SW8260	TOLUENE	ug/L	1.4 U	1.3 U	1.2 U	1 U	1 U	1.2 U	1.2 U	1 U	1.1 U
SW8260	XYLENES, M & P	ug/L	0.27 J	1 U	1.5	0.45 J	1 U	1 U	1 U	1 U	5.7
SW8260	XYLENES, TOTAL	ug/L	0.27 J	1 U	1.8	0.45 J	1 U	1 U	1 U	1 U	7.4
SW9060	DISSOLVED ORGANIC CARBON	mg/L	15.1 J	15.9 J	8.3 J	7.5 J	10.8 J	12.4 J	13 J	12.1 J	12.1

**Table A3-1  
Validated Porewater Analytical Data**

Location	OL-VC-40282	OL-VC-40282	OL-VC-40282	OL-VC-40282	OL-VC-40282	OL-VC-40283	OL-VC-40283	OL-VC-40283	OL-VC-40283		
Sample Depth	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	10.00-12.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft		
Field Sample ID	OL-1275-02DP	OL-1275-03DP	OL-1275-04DP	OL-1275-05DP	OL-1275-06DP	OL-1275-07DP	OL-1275-08DP	OL-1275-09DP	OL-1275-10DP		
Sample Date	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010		
SDG	JA48639	JA48639	JA48639	JA48639	JA48639	JA48639	JA48639	JA48639	JA48639		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units									
SM20-4500-HB	pH	S.U.	7.52	7.41	7.32	7.24	7.13	9.7	8.9	8.39	8.86
SM4500	SULFIDE	mg/L	1.1	1.5	1.2	1.2	1	0.2 U	0.2 U	0.16 J	0.2 U
SW7470	MERCURY	ug/L	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.18 J	8.1	12	21.5
SW8260	1,2,3-TRICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,2-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1.9	3.6	0.76 J	0.73 J
SW8260	1,3,5-TRICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.33 J	1.1
SW8260	1,3-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	0.74 J	3.1	4.2	3.3
SW8260	1,4-DICHLOROBENZENE	ug/L	0.64 J	1 U	1 U	1 U	1 U	0.71 J	1.3	0.73 J	0.54 J
SW8260	BENZENE	ug/L	0.92 J	0.25 J	1 U	1 U	1 U	2.3	6	7.4	5.3
SW8260	CHLOROBENZENE	ug/L	23.9	3.3	1.1	0.42 J	1 U	8.6	24.2	19.6	8.7
SW8260	ETHYLBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	4.4	12.7	7.4	6
SW8260	NAPHTHALENE	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	O-XYLENE	ug/L	0.46 J	1 U	1 U	1 U	1 U	8.8	27.2	21.2	20.2
SW8260	TOLUENE	ug/L	1 U	1 U	1 U	1 U	1 U	1.7 U	3.5 U	4.3 U	3.1 U
SW8260	XYLENES, M & P	ug/L	1 U	1 U	1 U	1 U	1 U	59.5	153	93.6	88.4
SW8260	XYLENES, TOTAL	ug/L	0.66 J	1 U	1 U	1 U	1 U	68.3	180	115	109
SW9060	DISSOLVED ORGANIC CARBON	mg/L	12.6	14.7	14.1	12	15.7	30.7	23.1	25.4	22.3

**Table A3-1  
Validated Porewater Analytical Data**

Location	OL-VC-40283	OL-VC-40283	OL-VC-40284	OL-VC-40284	OL-VC-40284	OL-VC-40284	OL-VC-40284	OL-VC-40284	OL-VC-40284	OL-VC-40285	
Sample Depth	8.00-10.00 Ft	10.00-12.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	10.00-12.00 Ft	0.00-2.00 Ft		
Field Sample ID	OL-1275-11DP	OL-1275-12DP	OL-1275-13DP	OL-1275-14DP	OL-1275-15DP	OL-1275-16DP	OL-1275-17DP	OL-1275-18DP	OL-1268-06DP		
Sample Date	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/8/2010		
SDG	JA48639	JA48639	JA48639	JA48639	JA48639	JA48639	JA48639	JA48639	JA48639	JA48494	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units									
SM20-4500-HB	pH	S.U.	8.64	7.75	8.74	8.45	7.81	8.93	9.38	8.89	7.37
SM4500	SULFIDE	mg/L	0.16 J	0.082 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
SW7470	MERCURY	ug/L	0.44	0.16 J	9	7.8	4.4	0.24	0.18 J	0.31	14.3
SW8260	1,2,3-TRICHLOROENZENE	ug/L	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,2,4-TRICHLOROENZENE	ug/L	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,2-DICHLOROENZENE	ug/L	0.28 J	1 UJ	0.49 J	0.86 J	0.7 J	0.52 J	1 U	1 U	1 U
SW8260	1,3,5-TRICHLOROENZENE	ug/L	1 U	1 UJ	1 U	0.24 J	0.9 J	1.3	0.44 J	1 U	2.9
SW8260	1,3-DICHLOROENZENE	ug/L	1 U	1 UJ	0.42 J	1.5	2.8	2.4	0.46 J	1 U	7.3
SW8260	1,4-DICHLOROENZENE	ug/L	1 U	1 UJ	0.55 J	1.2	1.2	0.61 J	0.28 J	1 U	0.65 J
SW8260	BENZENE	ug/L	2.5	0.91 J	2.9	7.1	8.3	6.1	2.6	1.6	1.1
SW8260	CHLOROENZENE	ug/L	1.2	0.56 J	8.5	29.5	36.1	13.7	2.7	0.81 J	1 U
SW8260	ETHYLBENZENE	ug/L	2.5	0.44 J	51.1	65	36	14.5	3.4	0.77 J	2.8
SW8260	NAPHTHALENE	ug/L	5 U	5 UJ	5 U	1.1 J	1.9 J	5 U	5 U	5 U	5 U
SW8260	O-XYLENE	ug/L	9	1.7 J	81.7	111	69.1	32.1	8.3	1.4	6
SW8260	TOLUENE	ug/L	2.1 U	1.3 UJ	3.4 U	4.6 U	4.6 U	5.5 U	3.1 U	2.2 U	1.7 U
SW8260	XYLENES, M & P	ug/L	43.3	7.7 J	592	729	314	129	37	8.6	21.4
SW8260	XYLENES, TOTAL	ug/L	52.3	9.4 J	674	840	384	161	45.3	10	27.4
SW9060	DISSOLVED ORGANIC CARBON	mg/L	18.4	13.9	25.2	24.1	24.2	25.5	23.5	24.4	25.5

**Table A3-1  
Validated Porewater Analytical Data**

Location	OL-VC-40285	OL-VC-40285	OL-VC-40285	OL-VC-40285	OL-VC-40285	OL-VC-40286	OL-VC-40286	OL-VC-40286	OL-VC-40286		
Sample Depth	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	10.00-12.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft		
Field Sample ID	OL-1268-07DP	OL-1268-08DP	OL-1268-09DP	OL-1268-10DP	OL-1268-11DP	OL-1268-12DP	OL-1268-13DP	OL-1268-14DP	OL-1268-15DP		
Sample Date	6/8/2010	6/8/2010	6/8/2010	6/8/2010	6/8/2010	6/8/2010	6/8/2010	6/8/2010	6/8/2010		
SDG	JA48494	JA48494	JA48494	JA48494	JA48494	JA48494	JA48494	JA48494	JA48494		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units									
SM20-4500-HB	pH	S.U.	7.29	6.61	6.62	6.67	6.83	6.79	6.63	6.58	6.88
SM4500	SULFIDE	mg/L	0.73	0.49	0.33	1.1	0.95	0.2	0.37	0.15	0.88
SW7470	MERCURY	ug/L	12.4	0.69	1.1	0.082	0.082	0.082	0.082	0.082	0.082
SW8260	1,2,3-TRICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,2-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/L	1.3	0.63	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,3-DICHLOROBENZENE	ug/L	2.4	0.64	1 U	1 U	1 U	1.5	1 U	1 U	1 U
SW8260	1,4-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	0.36	1 U	1 U	1 U
SW8260	BENZENE	ug/L	1.2	0.74	0.46	0.36	1 U	0.74	1 U	1 U	1 U
SW8260	CHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	ETHYLBENZENE	ug/L	1.2	0.29	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	NAPHTHALENE	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	O-XYLENE	ug/L	2.5	0.53	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	TOLUENE	ug/L	1.3	1 U	1 U	1.5	1 U	1 U	1 U	1 U	1 U
SW8260	XYLENES, M & P	ug/L	7	1.5	0.44	1 U	1 U	0.5	1 U	1 U	1 U
SW8260	XYLENES, TOTAL	ug/L	9.5	2	0.44	1 U	1 U	0.7	1 U	1 U	1 U
SW9060	DISSOLVED ORGANIC CARBON	mg/L	27.8	19.5	17.6	19	16.9	17.7	17.4	19.3	19.7

**Table A3-1  
Validated Porewater Analytical Data**

Location	OL-VC-40286	OL-VC-40286	OL-VC-40308	OL-VC-40308	OL-VC-40308	OL-VC-40308	OL-VC-40308	OL-VC-40308	OL-VC-40309	OL-VC-40309	
Sample Depth	8.00-10.00 Ft	10.00-12.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft		
Field Sample ID	OL-1268-16DP	OL-1268-17DP	OL-1201-06DP	OL-1201-07DP	OL-1201-08DP	OL-1201-09DP	OL-1201-10DP	OL-1079-11DP	OL-1079-12DP		
Sample Date	6/8/2010	6/8/2010	5/21/2010	5/21/2010	5/21/2010	5/21/2010	5/21/2010	5/21/2010	5/21/2010		
SDG	JA48494	JA48494	JA47131	JA47131	JA47131	JA47131	JA47131	JA46884	JA46884		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units									
SM20-4500-HB	pH	S.U.	6.92	7.29	7.72	7.78	7.7	7.64	7.31	8.5	9.39
SM4500	SULFIDE	mg/L	0.59	0.29	0.14 J	0.2 U	0.2 U	0.2 U	0.14 J	0.14 J	0.076 J
SW7470	MERCURY	ug/L	0.082 J	0.082 U	0.18 J	1	0.71	0.11 J	0.082 U	0.25	3.8
SW8260	1,2,3-TRICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2.5 UJ
SW8260	1,2,4-TRICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2.5 UJ
SW8260	1,2-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	0.26 J	1 U	1 U	1 U	3.1	7.7 J
SW8260	1,3,5-TRICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2.4 J
SW8260	1,3-DICHLOROBENZENE	ug/L	1 U	1 U	0.5 J	0.67 J	0.58 J	0.26 J	1 U	1.2	3.7 J
SW8260	1,4-DICHLOROBENZENE	ug/L	1 U	1 U	0.33 J	0.42 J	1 U	1 U	1 U	2.1	2.4 J
SW8260	BENZENE	ug/L	1 U	1 U	0.47 J	1.9	1.2	0.62 J	1 U	4.1	9.8 J
SW8260	CHLOROBENZENE	ug/L	1 U	1 U	0.84 J	1.3	0.56 J	0.53 J	1 U	11.4	7.7 J
SW8260	ETHYLBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	21.5	79.8 J
SW8260	NAPHTHALENE	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	13 UJ
SW8260	O-XYLENE	ug/L	1 U	1 U	1 U	0.36 J	1 U	1 U	1 U	35.2	142 J
SW8260	TOLUENE	ug/L	1 U	1 U	0.59 J	0.52 J	0.4 J	1 U	1 U	2	9.5 J
SW8260	XYLENES, M & P	ug/L	1 U	1 U	0.47 J	1.1	0.51 J	1 U	1 U	200	684 J
SW8260	XYLENES, TOTAL	ug/L	1 U	1 U	0.47 J	1.4	0.51 J	1 U	1 U	235	827 J
SW9060	DISSOLVED ORGANIC CARBON	mg/L	22.1	32.9	30.4	40.2	35.8	25.9	31	34.1	211

**Table A3-1  
Validated Porewater Analytical Data**

Location	OL-VC-40309	OL-VC-40309	OL-VC-40309	OL-VC-40310	OL-VC-40310	OL-VC-40310	OL-VC-40310	OL-VC-40310	OL-VC-40311	OL-VC-40311	
Sample Depth	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft		
Field Sample ID	OL-1079-13DP	OL-1079-14DP	OL-1079-15DP	OL-1202-11DP	OL-1202-12DP	OL-1202-13DP	OL-1202-14DP	OL-1203-01DP	OL-1203-02DP		
Sample Date	5/21/2010	5/21/2010	5/21/2010	5/24/2010	5/24/2010	5/24/2010	5/24/2010	5/24/2010	5/24/2010		
SDG	JA46884	JA46884	JA46884	JA47081	JA47081	JA47081	JA47081	JA47315	JA47315		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units									
SM20-4500-HB	pH	S.U.	9.1	8.72	8.05	6.88	6.24	6.43	6.38	6.42	6.27
SM4500	SULFIDE	mg/L	0.2 UJ	0.24 J	0.2 UJ	0.2 UJ	0.46 J	0.84 J	0.3 J	0.2 UJ	0.2 UJ
SW7470	MERCURY	ug/L	1.1	0.41	0.85	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U
SW8260	1,2,3-TRICHLOROENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U
SW8260	1,2,4-TRICHLOROENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U
SW8260	1,2-DICHLOROENZENE	ug/L	1.9	0.75 J	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U
SW8260	1,3,5-TRICHLOROENZENE	ug/L	1.4	0.93 J	0.35 J	1 U	1 U	1 U	1 UJ	1 U	1 U
SW8260	1,3-DICHLOROENZENE	ug/L	2.3	0.95 J	0.5 J	1 U	1 U	1 U	1 UJ	1 U	1 U
SW8260	1,4-DICHLOROENZENE	ug/L	0.86 J	0.42 J	0.53 J	1 U	1 U	1 U	1 UJ	1 U	1 U
SW8260	BENZENE	ug/L	12.4	9.8	4.1	1 U	0.8 J	0.33 J	1 UJ	10.3	11.9
SW8260	CHLOROENZENE	ug/L	2.7	0.86 J	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U
SW8260	ETHYLBENZENE	ug/L	52.3	15.4	1.8	1 U	1 U	1 U	1 UJ	1 U	1 U
SW8260	NAPHTHALENE	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U
SW8260	O-XYLENE	ug/L	93.8	35	4.7	1 U	1 U	1 U	1 UJ	1 U	1 U
SW8260	TOLUENE	ug/L	8.4	4	1	1 U	0.39 J	1 U	0.37 J	1 U	0.32 J
SW8260	XYLENES, M & P	ug/L	367	137	19.5	1 U	1 U	1 U	1 UJ	1 U	1 U
SW8260	XYLENES, TOTAL	ug/L	446	172	24.2	1 U	1 U	1 U	1 UJ	1 U	1 U
SW9060	DISSOLVED ORGANIC CARBON	mg/L	211	77.8	17	8.1	20.3	14.8	16.5	49	53.8

**Table A3-1  
Validated Porewater Analytical Data**

Location	OL-VC-40311	OL-VC-40311	OL-VC-40311	OL-VC-40312	OL-VC-40312	OL-VC-40312	OL-VC-40312	OL-VC-40312	OL-VC-40312
Sample Depth	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	
Field Sample ID	OL-1203-03DP	OL-1203-04DP	OL-1203-05DP	OL-1203-06DP	OL-1203-07DP	OL-1203-08DP	OL-1203-09DP	OL-1203-10DP	
Sample Date	5/24/2010	5/24/2010	5/24/2010	5/24/2010	5/24/2010	5/24/2010	5/24/2010	5/24/2010	
SDG	JA47315	JA47315	JA47315	JA47315	JA47315	JA47315	JA47315	JA47315	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units							
SM20-4500-HB	pH	S.U.	6.48	6.53	6.65	6.25	6.22	6.19	6.26
SM4500	SULFIDE	mg/L	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ
SW7470	MERCURY	ug/L	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U
SW8260	1,2,3-TRICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,2-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,3-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,4-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	BENZENE	ug/L	10.3	10.4	10.3	27.2	39.1	9.5	0.92 J
SW8260	CHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	ETHYLBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	NAPHTHALENE	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	O-XYLENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	TOLUENE	ug/L	1 U	1 U	0.39 J	0.33 J	0.35 J	0.45 J	1 U
SW8260	XYLENES, M & P	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	XYLENES, TOTAL	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW9060	DISSOLVED ORGANIC CARBON	mg/L	54.5	56.9	53.2	64.1	61	32.7	19.2

**Table A3-1  
Validated Porewater Analytical Data**

Location	OL-VC-60312	OL-VC-60312	OL-VC-60312	OL-VC-60313	OL-VC-60313	OL-VC-60313	OL-VC-60313	OL-VC-60313	OL-VC-60313	OL-VC-60314	
Sample Depth	0.00-2.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	0.00-2.00 Ft		
Field Sample ID	OL-1251-01DP	OL-1251-04DP	OL-1251-05DP	OL-1251-06DP		OL-1251-08DP	OL-1251-09DP	OL-1251-10DP	OL-1268-18DP		
Sample Date	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/8/2010		
SDG	JA48331	JA48331	JA48331	JA48331	JA48331	JA48331	JA48331	JA48331	JA48494		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units									
SM20-4500-HB	pH	S.U.	7.39	7.23	6.96	7.54	7.21	6.77	7.01	6.75	7.29
SM4500	SULFIDE	mg/L	0.2 U	2.9	2.7		3.8	2.4	3.4	1.9	
SW7470	MERCURY	ug/L	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U
SW8260	1,2,3-TRICHLOROBENZENE	ug/L	1 U		1 U	1 U		1 U	1 U	1 U	1 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/L	1 U		1 U	1 U		1 U	1 U	1 U	1 U
SW8260	1,2-DICHLOROBENZENE	ug/L	1 U		1 U	1 U		1 U	1 U	1 U	1 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/L	1 U		1 U	1 U		1 U	1 U	1 U	1 U
SW8260	1,3-DICHLOROBENZENE	ug/L	1 U		1 U	1 U		1 U	1 U	1 U	1 U
SW8260	1,4-DICHLOROBENZENE	ug/L	1 U		1 U	1 U		1 U	1 U	1 U	1 U
SW8260	BENZENE	ug/L	0.48 J		1 U	0.74 J		1 U	1 U	1 U	1 U
SW8260	CHLOROBENZENE	ug/L	1 U		1 U	1 U		1 U	1 U	1 U	1 U
SW8260	ETHYLBENZENE	ug/L	2.7		1 U	5		1 U	1 U	1 U	1 U
SW8260	NAPHTHALENE	ug/L	104		5 U	87.8		5 U	5 U	5 U	5 U
SW8260	O-XYLENE	ug/L	5.1		1 U	2.9		1 U	1 U	1 U	1 U
SW8260	TOLUENE	ug/L	1.2		0.5 J	3		0.65 J	0.63 J	0.7 J	1 U
SW8260	XYLENES, M & P	ug/L	2.1		1 U	3.5		1 U	1 U	1 U	1 U
SW8260	XYLENES, TOTAL	ug/L	7.2		1 U	6.5		1 U	1 U	1 U	1 U
SW9060	DISSOLVED ORGANIC CARBON	mg/L	23.2	35.1	39.6	22.4	20.7	20	25.9	31.1	25.1



**Table A3-1  
Validated Porewater Analytical Data**

Location	OL-VC-60314	OL-VC-60314	OL-VC-60314	OL-VC-60314	OL-VC-60314	OL-VC-60315	OL-VC-60315	OL-VC-60315	OL-VC-60315		
Sample Depth	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-9.40 Ft		
Field Sample ID	OL-1070-16DP	OL-1070-17DP	OL-1070-18DP	OL-1070-19DP	OL-1070-20DP	OL-1077-02DP	OL-1077-03DP	OL-1077-04DP	OL-1077-05DP		
Sample Date	5/12/2010	5/12/2010	5/12/2010	5/12/2010	5/12/2010	5/20/2010	5/20/2010	5/20/2010	5/20/2010		
SDG	JA46550	JA46550	JA46550	JA46550	JA46550	JA46717	JA46717	JA46717	JA46717		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units									
SM20-4500-HB	pH	S.U.	7.33	7.14	7.1	6.9	6.92	7.25	7.29	7	7.17
SM4500	SULFIDE	mg/L		0.13 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
SW7470	MERCURY	ug/L	0.082 U	0.15 J	0.082 U	0.082 U	0.082 U	0.082 U	0.33 U	0.082 U	0.082 U
SW8260	1,2,3-TRICHLORO BENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,2,4-TRICHLORO BENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,2-DICHLORO BENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,3,5-TRICHLORO BENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,3-DICHLORO BENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,4-DICHLORO BENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	BENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	CHLORO BENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	ETHYLBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	NAPHTHALENE	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
SW8260	O-XYLENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	TOLUENE	ug/L	1 U	1 U	0.34 J	1 U	1 U	1 U	1 U	0.36 J	1 U
SW8260	XYLENES, M & P	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	XYLENES, TOTAL	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW9060	DISSOLVED ORGANIC CARBON	mg/L	37.9	47.4	58.1	56.6	15.4	35.2	38.8	48.5	54.9

**Table A3-1  
Validated Porewater Analytical Data**

Location	OL-VC-60316	OL-VC-60316	OL-VC-60316	OL-VC-60316	OL-VC-60316	OL-VC-60317	OL-VC-60317	OL-VC-60317	OL-VC-60317		
Sample Depth	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft		
Field Sample ID	OL-1073-16DP	OL-1073-17DP	OL-1073-18DP	OL-1073-19DP	OL-1073-20DP	OL-1070-06DP	OL-1070-07DP	OL-1070-08DP	OL-1070-09DP		
Sample Date	5/18/2010	5/18/2010	5/18/2010	5/18/2010	5/18/2010	5/12/2010	5/12/2010	5/12/2010	5/12/2010		
SDG	JA46716	JA46716	JA46716	JA46716	JA46716	JA46550	JA46550	JA46550	JA46550		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units									
SM20-4500-HB	pH	S.U.	7.19	7.19	6.9	7.05	6.88	7.16	7.11	7.13	7.3
SM4500	SULFIDE	mg/L		3	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
SW7470	MERCURY	ug/L	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	9.9	0.27	0.99	0.082 U
SW8260	1,2,3-TRICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	2.6	1 U	1 U	1 U
SW8260	1,2-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	8.5	0.36 J	1 U	1 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	2.6	1 U	1 U	1 U
SW8260	1,3-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	3.8	1 U	1 U	1 U
SW8260	1,4-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	25.1	0.57 J	0.31 J	1 U
SW8260	BENZENE	ug/L	0.65 J	0.31 J	1 U	1 U	1 U	15.7	3.2	2.8	3.5
SW8260	CHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	51.7	1.2	0.69 J	1 U
SW8260	ETHYLBENZENE	ug/L	11.4	1.6	1 U	1 U	1 U	0.3 J	1 U	1.2	4.1
SW8260	NAPHTHALENE	ug/L	180	10.1	2 J	1.4 J	1.5 J	1.9 J	5.1	145	177
SW8260	O-XYLENE	ug/L	9.9	2.1	1 U	1 U	1 U	7	4.2	4.5	4.7
SW8260	TOLUENE	ug/L	0.74 J	0.37 J	0.33 J	0.34 J	1 U	1.3	0.4 J	0.97 J	2.5
SW8260	XYLENES, M & P	ug/L	3.4	0.42 J	1 U	1 U	1 U	9.6	1	1.4	4.9
SW8260	XYLENES, TOTAL	ug/L	13.3	2.5	1 U	1 U	1 U	16.6	5.2	5.9	9.6
SW9060	DISSOLVED ORGANIC CARBON	mg/L	29.4	25.2	34.3	45.7	48	66.7	59.5	76.4	94.7

**Table A3-1  
Validated Porewater Analytical Data**

		Location	OL-VC-60317	OL-VC-60318	OL-VC-60318	OL-VC-60318	OL-VC-60318	OL-VC-60318	OL-VC-60318	OL-VC-60319	OL-VC-60319	OL-VC-60319
		Sample Depth	8.00-10.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	0.00-2.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	2.00-4.00 Ft
		Field Sample ID	OL-1070-10DP	OL-1070-11DP	OL-1070-12DP	OL-1070-13DP	OL-1070-14DP	OL-1070-15DP	OL-1268-19DP	OL-1071-16DP	OL-1071-17DP	OL-1071-17DP
		Sample Date	5/12/2010	5/12/2010	5/12/2010	5/12/2010	5/12/2010	5/12/2010	6/8/2010	5/13/2010	5/13/2010	5/13/2010
		SDG	JA46550	JA46550	JA46550	JA46550	JA46550	JA46550	JA48494	JA46551	JA46551	JA46551
		Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water
Method	Parameter Name	Units										
SM20-4500-HB	pH	S.U.	7.05	7.11	7.23	7.04	7.14	7.07	6.89	7.27	6.97	
SM4500	SULFIDE	mg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U				
SW7470	MERCURY	ug/L	0.082 U	1.6	2.4	0.17 J	0.082 U	0.082 U	0.66 U	7.5	0.082 U	
SW8260	1,2,3-TRICHLOROBENZENE	ug/L	1 U	1 U	0.53 J	1 U	1 U	1 U	1 U		1 U	
SW8260	1,2,4-TRICHLOROBENZENE	ug/L	1 U	1 U	1.1	1 U	1 U	1 U	1 U		1 U	
SW8260	1,2-DICHLOROBENZENE	ug/L	1 U	1.1	4	1 U	1 U	1 U	1 U		1 U	
SW8260	1,3,5-TRICHLOROBENZENE	ug/L	1 U	0.42 J	2.3	1 U	1 U	1 U	1 U		1 U	
SW8260	1,3-DICHLOROBENZENE	ug/L	1 U	0.84 J	1.3	1 U	1 U	1 U	1 U		1 U	
SW8260	1,4-DICHLOROBENZENE	ug/L	1 U	2	5.5	1 U	1 U	1 U	1 U		1 U	
SW8260	BENZENE	ug/L	4.7	9.9	32.2	13.2	5.1	5.4	1 U		1 U	
SW8260	CHLOROBENZENE	ug/L	1 U	15.8	65	1 U	1 U	1 U	1 U		1 U	
SW8260	ETHYLBENZENE	ug/L	5.8	1 U	0.3	17.4	4.2	4.3	1 U		1 U	
SW8260	NAPHTHALENE	ug/L	190	45.9	4.2 J	1350	193	564	2.8 J			5 U
SW8260	O-XYLENE	ug/L	5.8	4.2	5.4	15.7	5	4.1	0.33 J			1 U
SW8260	TOLUENE	ug/L	3.2	0.78 J	1.8	6.4	2.3	2.4	1 U			1 U
SW8260	XYLENES, M & P	ug/L	7.7	1.7	2.3	7.4	4.8	3.4	1 U			1 U
SW8260	XYLENES, TOTAL	ug/L	13.5	5.9	7.7	23.1	9.8	7.5	0.33 J			1 U
SW9060	DISSOLVED ORGANIC CARBON	mg/L	108	61.1	73.9	79.3	111	70.4		36.4		29.5

**Table A3-1  
Validated Porewater Analytical Data**

Location	OL-VC-60319	OL-VC-60319	OL-VC-60319	OL-VC-60320	OL-VC-60320	OL-VC-60320	OL-VC-60320	OL-VC-60320	OL-VC-60320	OL-VC-60321	
Sample Depth	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	0.00-2.00 Ft		
Field Sample ID	OL-1071-18DP	OL-1071-19DP	OL-1071-20DP	OL-1072-01DP	OL-1072-02DP	OL-1072-03DP	OL-1072-04DP	OL-1072-05DP	OL-1071-01DP		
Sample Date	5/13/2010	5/13/2010	5/13/2010	5/13/2010	5/13/2010	5/13/2010	5/13/2010	5/13/2010	5/12/2010		
SDG	JA46551	JA46551	JA46551	JA46549	JA46549	JA46549	JA46549	JA46549	JA46549	JA46551	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units									
SM20-4500-HB	pH	S.U.	6.98	6.91	6.9	7.5	7.22	7.04	7.11	7.17	7.21
SM4500	SULFIDE	mg/L									0.2 U
SW7470	MERCURY	ug/L	0.082 U	0.082 U	0.2	0.64	0.082 U	0.082 U	0.087 J	0.16 J	1.1
SW8260	1,2,3-TRICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,2-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	0.72 J	0.27 J	1 U	1 U	1 U	1.1
SW8260	1,3,5-TRICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.34 J
SW8260	1,3-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.2
SW8260	1,4-DICHLOROBENZENE	ug/L	1 U	1 U	1 U	0.7 J	0.35 J	1 U	1 U	1 U	3.4
SW8260	BENZENE	ug/L	1 U	1 U	1 U	1	2.6	2.5	0.31 J	1 U	5.1
SW8260	CHLOROBENZENE	ug/L	1 U	1 U	1 U	0.81 J	1 U	1 U	1 U	1 U	17.6
SW8260	ETHYLBENZENE	ug/L	1 U	1 U	1 U	0.35 J	26.8	2.3	2.9	1.3	0.74 J
SW8260	NAPHTHALENE	ug/L	5 U	5 U	5 U	3.6 J	641	54.1	66.3	28.8	2.9 J
SW8260	O-XYLENE	ug/L	1 U	1 U	1 U	2.7	27.9	9.4	3.9	1.1	1.1
SW8260	TOLUENE	ug/L	1 U	1 U	1 U	0.36 J	2.5	0.93 J	0.39 J	1 U	0.99 J
SW8260	XYLENES, M & P	ug/L	1 U	1 U	1 U	1.7	15.4	6.3	1.7	0.49 J	3.4
SW8260	XYLENES, TOTAL	ug/L	1 U	1 U	1 U	4.4	43.3	15.7	5.5	1.6	4.5
SW9060	DISSOLVED ORGANIC CARBON	mg/L	35.5	41.9	50.8	25.1	50.4	45.4	34	40.2	60.1

**Table A3-1  
Validated Porewater Analytical Data**

Location	OL-VC-60321	OL-VC-60321	OL-VC-60321	OL-VC-60321	OL-VC-60322	OL-VC-60322	OL-VC-60322	OL-VC-60322	OL-VC-60322	OL-VC-60322	
Sample Depth	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft		
Field Sample ID	OL-1071-02DP	OL-1071-03DP	OL-1071-04DP	OL-1071-05DP	OL-1071-06DP	OL-1071-07DP	OL-1071-08DP	OL-1071-09DP	OL-1071-10DP		
Sample Date	5/12/2010	5/12/2010	5/12/2010	5/12/2010	5/12/2010	5/12/2010	5/12/2010	5/12/2010	5/12/2010		
SDG	JA46551	JA46551	JA46551	JA46551	JA46551	JA46551	JA46551	JA46551	JA46551		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units									
SM20-4500-HB	pH	S.U.	7.16	7.07	7.08	7.02	7.09	7.1	7.07	6.98	6.98
SM4500	SULFIDE	mg/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.89
SW7470	MERCURY	ug/L	0.082 U	0.41	0.082 U	0.082 U	0.59	0.67	1.7	0.082 U	0.082 U
SW8260	1,2,3-TRICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,2-DICHLOROBENZENE	ug/L	0.46 J	1 U	1 U	1 U	0.38 J	2.4	0.62 J	0.53 J	1 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	0.66 J	1 U	1 U	1 U
SW8260	1,3-DICHLOROBENZENE	ug/L	0.29 J	1 U	1 U	1 U	0.34 J	1	0.26 J	0.27 J	1 U
SW8260	1,4-DICHLOROBENZENE	ug/L	0.53 J	1 U	1 U	1 U	1.1	6.2	0.93 J	0.97 J	0.29 J
SW8260	BENZENE	ug/L	6.6	6.6	5.9	4.8	0.48 J	9.1	3.8	4.4	5.3
SW8260	CHLOROBENZENE	ug/L	2.8	0.43 J	1 U	1 U	3.1	12.1	1.8	0.76 J	1 U
SW8260	ETHYLBENZENE	ug/L	3.7	14.9	8.7	3.4	1 U	1 U	1 U	41.2	28
SW8260	NAPHTHALENE	ug/L	116	256	299	99.3	1.5 J	3.1 J	2.8 J	500	453
SW8260	O-XYLENE	ug/L	8.9	11.7	8.6	2.6	0.35 J	7.7	3.3	33.8	18.7
SW8260	TOLUENE	ug/L	2.3	2.9	2.6	2.3	1 U	1.2	0.41 J	6.5	5
SW8260	XYLENES, M & P	ug/L	4.7	5.6	10	3.2	0.43 J	10	1.1	18.7	23.5
SW8260	XYLENES, TOTAL	ug/L	13.6	17.3	18.6	5.8	0.77 J	17.7	4.4	52.4	42.2
SW9060	DISSOLVED ORGANIC CARBON	mg/L	51.5	47.9	73.2	80.2	37.5	51.6	50.7	55.1	67.7

**Table A3-1  
Validated Porewater Analytical Data**

Location	OL-VC-60323	OL-VC-60323	OL-VC-60323	OL-VC-60323	OL-VC-60323	OL-VC-60324	OL-VC-60324	OL-VC-60324	OL-VC-60324		
Sample Depth	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft		
Field Sample ID	OL-1071-11DP	OL-1071-12DP	OL-1071-13DP	OL-1071-14DP	OL-1071-15DP	OL-1072-06DP	OL-1072-07DP	OL-1072-08DP	OL-1072-09DP		
Sample Date	5/12/2010	5/12/2010	5/12/2010	5/12/2010	5/12/2010	5/13/2010	5/13/2010	5/13/2010	5/13/2010		
SDG	JA46551	JA46551	JA46551	JA46551	JA46551	JA46549	JA46549	JA46549	JA46549		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units									
SM20-4500-HB	pH	S.U.	7.03	7.1	7.08	7.15	7.09	7.02	6.91	6.92	6.78
SM4500	SULFIDE	mg/L									
SW7470	MERCURY	ug/L	1.4	1.8	0.082 U	0.43	0.38	3	2.2	0.22	1.4
SW8260	1,2,3-TRICHLOROBENZENE	ug/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/L	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U
SW8260	1,2-DICHLOROBENZENE	ug/L	7.8	0.86 J	0.46 J	0.43 J	1 U	7.2	1.2	0.46 J	10 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/L	4.7	1 U	1 U	1 U	1 U	5.8	0.67 J	1 U	10 U
SW8260	1,3-DICHLOROBENZENE	ug/L	3.6	0.47 J	0.31 J	0.25 J	1 U	7.9	1	0.29 J	10 U
SW8260	1,4-DICHLOROBENZENE	ug/L	20.4	1.4	0.73 J	1.2	0.28 J	21.2	2.8	0.94 J	10 U
SW8260	BENZENE	ug/L	8	6.6	4.8	7.1	7.6	10.4	10.8	5.7	16.5
SW8260	CHLOROBENZENE	ug/L	14.1	1.5	0.53 J	0.85 J	1 U	23.9	3.1	0.73 J	10 U
SW8260	ETHYLBENZENE	ug/L	0.52 J	0.73 J	9.1	77.8	38.7	0.81 J	1.7	50.4	228
SW8260	NAPHTHALENE	ug/L	2.8 J	45.7	116	931 J	530	70.4	12.3	537	2750
SW8260	O-XYLENE	ug/L	11.4	10.3	18.5	48.7	24.6	14.1	24.7	44.2	126
SW8260	TOLUENE	ug/L	0.88 J	1.2	2	9	5.5	1.1	0.99 J	5.8	50.1
SW8260	XYLENES, M & P	ug/L	15	4	8.2	66.5	33.3	20.2	9.2	21.1	196
SW8260	XYLENES, TOTAL	ug/L	26.5	14.3	26.7	115	57.9	34.4	33.9	65.3	322
SW9060	DISSOLVED ORGANIC CARBON	mg/L	57.9	87.4	46.6	72.9	61	76.8	56.9	56.6	51.5

**Table A3-1  
Validated Porewater Analytical Data**

Location	OL-VC-60324	OL-VC-60325	OL-VC-60325	OL-VC-60325	OL-VC-60325	OL-VC-60325	OL-VC-60325	OL-VC-60326	OL-VC-60326	OL-VC-60326	
Sample Depth	8.00-10.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft		
Field Sample ID	OL-1072-10DP	OL-1073-11DP	OL-1073-12DP	OL-1073-13DP	OL-1073-14DP	OL-1073-15DP	OL-1073-01DP	OL-1073-02DP	OL-1073-03DP		
Sample Date	5/13/2010	5/18/2010	5/18/2010	5/18/2010	5/18/2010	5/18/2010	5/17/2010	5/17/2010	5/17/2010		
SDG	JA46549	JA46716	JA46716	JA46716	JA46716	JA46716	JA46716	JA46716	JA46716	JA46716	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units									
SM20-4500-HB	pH	S.U.	7.12	7.05	7.01	6.96	7	6.98	7.04	7.02	6.96
SM4500	SULFIDE	mg/L		0.2 U	0.2 U	0.2 U	0.2 U	1.3			
SW7470	MERCURY	ug/L	0.082 U	0.22	0.44	0.95	0.082 U	0.082 U	0.36	0.99	0.96
SW8260	1,2,3-TRICHLOROBENZENE	ug/L	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/L	5 U	1 U	0.77 J	3.4	1 U	1 U	2.6		1 U
SW8260	1,2-DICHLOROBENZENE	ug/L	5 U	0.31 J	3.3	5.4	0.81 J	0.37 J	1.3	6	2.8
SW8260	1,3,5-TRICHLOROBENZENE	ug/L	5 U	1 U	1.6	2.4	0.76 J	1 U	1 U	3.6	2.4
SW8260	1,3-DICHLOROBENZENE	ug/L	5 U	0.35 J	1.6	2.3	0.43 J	0.3 J	2.6	2.6	2.2
SW8260	1,4-DICHLOROBENZENE	ug/L	5 U	0.91 J	5.6	10.8	1.6	1.1	7.1	12.4	10.9
SW8260	BENZENE	ug/L	3.7 J	0.54 J	14.2	11.4	1.8	3.6	1.9	9.6	16.9
SW8260	CHLOROBENZENE	ug/L	5 U	3.8	54.1	21.9	2.1	0.83 J	21.4	14.9	6.5
SW8260	ETHYLBENZENE	ug/L	62.8	0.29 J	0.56 J	1.4	0.67 J	35.3	1 U	0.51 J	4.1
SW8260	NAPHTHALENE	ug/L	1030	3 J	2.8 J	3.7 J	2.3 J	818	2.8 J	2.7 J	4.5 J
SW8260	O-XYLENE	ug/L	37.1	0.35 J	3	7	3	26.1	1.1	7.3	33
SW8260	TOLUENE	ug/L	10	1 U	1.5	1.4	1 U	6.5	0.45 J	0.8 J	1.1
SW8260	XYLENES, M & P	ug/L	57.8	0.67 J	3.5	12.2	1.6	30	1.1	9.7	16.7
SW8260	XYLENES, TOTAL	ug/L	94.9	1	6.5	19.2	4.6	56.1	2.2	17.1	49.7
SW9060	DISSOLVED ORGANIC CARBON	mg/L	34.4	51.2	73.9	78.8	42.4	73.1	45.8	49.9	55.8

**Table A3-1  
Validated Porewater Analytical Data**

Location	OL-VC-60326	OL-VC-60326	OL-VC-60327	OL-VC-60327	OL-VC-60327	OL-VC-60327	OL-VC-60327	OL-VC-60327	
Sample Depth	6.00-8.00 Ft	8.00-10.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft		
Field Sample ID	OL-1073-04DP	OL-1073-05DP	OL-1073-06DP	OL-1073-07DP	OL-1073-08DP	OL-1073-09DP	OL-1073-10DP		
Sample Date	5/17/2010	5/17/2010	5/17/2010	5/17/2010	5/17/2010	5/17/2010	5/17/2010		
SDG	JA46716	JA46716	JA46716	JA46716	JA46716	JA46716	JA46716		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units							
SM20-4500-HB	pH	S.U.	7	7.06	7.15	7	6.98	6.98	6.99
SM4500	SULFIDE	mg/L							
SW7470	MERCURY	ug/L	0.33	0.34	0.22	0.52	0.48	0.23	0.37
SW8260	1,2,3-TRICHLOROBENZENE	ug/L	1 U	20 U	1 U	1 U	1 U	4 U	10 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/L	1 U	20 U	1 U	2.1	0.9 J	4 U	10 U
SW8260	1,2-DICHLOROBENZENE	ug/L	2.1	20 U	0.58 J	3.3	2.4	4 U	10 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/L	1.1	20 U	0.89 J	1.6	0.63 J	4 U	10 U
SW8260	1,3-DICHLOROBENZENE	ug/L	0.94 J	20 U	1.3	2.5	1.5	4 U	10 U
SW8260	1,4-DICHLOROBENZENE	ug/L	5.6	20 U	3.6	6.2	4	4 U	10 U
SW8260	BENZENE	ug/L	14.3	18.7 J	0.77 J	10.7	12.2	10.6	15.7
SW8260	CHLOROBENZENE	ug/L	3	20 U	13.6	14.5	12.7	4 U	10 U
SW8260	ETHYLBENZENE	ug/L	150	212	0.52 J	0.38 J	0.31 J	97.3	173
SW8260	NAPHTHALENE	ug/L	2250	2160	6.8	1.8 J	1.6 J	1150	1750
SW8260	O-XYLENE	ug/L	148	97.3	1.4	10.5	8.9	54.5	96.9
SW8260	TOLUENE	ug/L	11	32.5	0.68 J	0.88 J	1	16.3	25.2
SW8260	XYLENES, M & P	ug/L	77.3	132	1.1	13.2	11	67.7	117
SW8260	XYLENES, TOTAL	ug/L	225	229	2.4	23.7	19.9	122	214
SW9060	DISSOLVED ORGANIC CARBON	mg/L	103	72.4	32.6	41.8	40.2	65.9	58.8



**Table A3-2  
Validated Porewater Sediment Analytical Data**

		Location	OL-VC-10192	OL-VC-10192	OL-VC-10192	OL-VC-10192	OL-VC-10192	OL-VC-10192	OL-VC-10192	OL-VC-10193	OL-VC-10193	OL-VC-10193
		Sample Depth	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	10.00-12.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	4.00-6.00 Ft
		Field Sample ID	OL-1237-01	OL-1237-02	OL-1237-03	OL-1237-04	OL-1237-05	OL-1237-06	OL-1295-01	OL-1295-02	OL-1295-03	OL-1295-03
		Sample Date	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/14/2010	6/14/2010	6/14/2010	6/14/2010
		SDG	JA48116	JA48116	JA48116	JA48116	JA48116	JA48116	JA49021	JA49021	JA49021	JA49021
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water
Method	Parameter Name	Units										
ASTM D1429-86	SPECIFIC GRAVITY	g/cc	1.3 J	1.2 J	1.2 J	1.3 J	1.2 J	1.2 J	1.4 J	1.1 J	1.3 J	1.3 J
ASTM D4643-00	SOLIDS, PERCENT	%										
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	50900 J	6170 J	8590 J	3290 J	2230 J	952 J	54200 J	13300 J	33500 J	33500 J
SM2540G	SOLIDS, PERCENT	%	40	29	31.8	36.7	25.6	38.4	47.1	26.6	34.1	34.1
SW7471	MERCURY	mg/kg	5.7 J	0.51 J	0.46 J	0.79 J	0.25 J	0.13 J	4 J	2.2 J	2.5 J	2.5 J
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	200 UJ	3.6 UJ	3.3 UJ	2.8 UJ	4 UJ	2.9 UJ	21000 UJ	890 UJ	2700 UJ	2700 UJ
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	200 UJ	3.6 UJ	3.3 UJ	2.8 UJ	4 UJ	2.9 UJ	21000 UJ	890 UJ	2700 UJ	2700 UJ
SW8260	1,2-DICHLOROBENZENE	ug/kg	242 J	7.5 J	3.6 J	1.5 J	4 UJ	2.9 UJ	21000 UJ	890 UJ	2700 UJ	2700 UJ
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	200 UJ	3.6 UJ	3.3 UJ	2.8 UJ	4 UJ	2.9 UJ	21000 UJ	890 UJ	2700 UJ	2700 UJ
SW8260	1,3-DICHLOROBENZENE	ug/kg	114 J	2 J	3.3 UJ	2.8 UJ	4 UJ	2.9 UJ	21000 UJ	890 UJ	2700 UJ	2700 UJ
SW8260	1,4-DICHLOROBENZENE	ug/kg	939 J	15.1 J	5.5 J	1.4 J	4 UJ	2.9 UJ	8910 J	890 UJ	2700 UJ	2700 UJ
SW8260	BENZENE	ug/kg	7830 J	297 J	120 J	55.6 J	14.4 J	6.8 J	21000 UJ	890 UJ	2700 UJ	2700 UJ
SW8260	CHLOROBENZENE	ug/kg	57000 J	300 J	90.2 J	38.3 J	8.5 J	2 J	21000 UJ	890 UJ	2700 UJ	2700 UJ
SW8260	ETHYLBENZENE	ug/kg	268 J	5.2 J	1.8 J	1 J	4 UJ	2.9 UJ	21000 UJ	890 UJ	2700 UJ	2700 UJ
SW8260	NAPHTHALENE	ug/kg	3690 J	187 J	123 J	84.8 J	22.3 J	3.6 J	2950000 J	166000 J	392000 J	392000 J
SW8260	O-XYLENE	ug/kg	529 J	19.6 J	8.1 J	5 J	4 UJ	2.9 UJ	12500 J	902 J	1540 J	1540 J
SW8260	TOLUENE	ug/kg	324 J	16 J	9.8 J	8.5 J	2.6 J	2.3 J	10200 J	542 J	1070 J	1070 J
SW8260	XYLENES, M & P	ug/kg	1210 J	48.4 J	18.7 J	10.3 J	4 UJ	2.9 UJ	35700 J	3410 J	5620 J	5620 J
SW8260	XYLENES, TOTAL	ug/kg	1740 J	68 J	26.8 J	15.3 J	2.5 J	2.9 UJ	48200 J	4310 J	7160 J	7160 J
SW9045	pH	S.U.	8.74 J	12.02 J	12.28 J	12.23 J	12.27 J	12.34 J	11.44 J	11.59 J	11.62 J	11.62 J

**Table A3-2  
Validated Porewater Sediment Analytical Data**

		Location	OL-VC-10193	OL-VC-10193	OL-VC-10193	OL-VC-20212	OL-VC-20212	OL-VC-20212	OL-VC-20212	OL-VC-20212	OL-VC-20213
		Sample Depth	6.00-8.00 Ft	8.00-10.00 Ft	10.00-12.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-9.80 Ft	0.00-2.00 Ft
		Field Sample ID	OL-1295-04	OL-1295-05	OL-1295-06	OL-1075-01	OL-1075-02	OL-1075-03	OL-1075-04	OL-1075-05	OL-1295-07
		Sample Date	6/14/2010	6/14/2010	6/14/2010	5/19/2010	5/19/2010	5/19/2010	5/19/2010	5/19/2010	6/14/2010
		SDG	JA49021	JA49021	JA49021	JA46871	JA46871	JA46871	JA46871	JA46871	JA49021
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water
Method	Parameter Name	Units									
ASTM D1429-86	SPECIFIC GRAVITY	g/cc	1.7 J	1.5	1.2 J	1.2 J	1.2 J	1.4 J	1.4 J	1.6	1.1
ASTM D4643-00	SOLIDS, PERCENT	%									
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	3810 J	2880 J	9270 J	2140 J	664 J	9400 J	9770 J	9120	15700 J
SM2540G	SOLIDS, PERCENT	%	42.6	53.6	28	27.7	35.7	49.2	48.3	55.7	88.6
SW7471	MERCURY	mg/kg	0.8 J	0.81	1.7 J	0.089 J	0.079 J	0.023 UJ	0.042 J	0.02 U	0.14
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	1000 UJ	570 U	620 UJ	310 UJ	2.7 UJ	2 UJ	2.2 UJ	1.8 U	1.2 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	1000 UJ	570 U	620 UJ	310 UJ	2.7 UJ	2 UJ	2.2 UJ	1.8 U	1.2 U
SW8260	1,2-DICHLOROBENZENE	ug/kg	1000 UJ	570 U	620 UJ	310 UJ	2.7 UJ	2 UJ	2.2 UJ	1.8 U	1.2 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	1000 UJ	570 U	620 UJ	310 UJ	2.7 UJ	2 UJ	2.2 UJ	1.8 U	1.2 UJ
SW8260	1,3-DICHLOROBENZENE	ug/kg	1000 UJ	570 U	620 UJ	310 UJ	2.7 UJ	2 UJ	2.2 UJ	1.8 U	1.2 U
SW8260	1,4-DICHLOROBENZENE	ug/kg	1000 UJ	570 U	620 UJ	310 UJ	1 J	2 UJ	2.2 UJ	1.8 U	1.2 U
SW8260	BENZENE	ug/kg	1000 UJ	570 U	330 J	1410 J	1090 J	20.1 J	1420 J	58.6	0.74 J
SW8260	CHLOROBENZENE	ug/kg	1000 UJ	570 U	620 UJ	310 UJ	2.7 UJ	2 UJ	2.2 UJ	1.8 U	1.2 U
SW8260	ETHYLBENZENE	ug/kg	454 J	286 J	1880 J	213 J	11.8 J	2 UJ	2.2 UJ	1.8 U	1.2 U
SW8260	NAPHTHALENE	ug/kg	180000 J	102000	109000 J	52400 J	3720 J	10.6 J	2.4 J	9.2 U	6 U
SW8260	O-XYLENE	ug/kg	1160 J	677	3560 J	1280 J	71.3 J	2 UJ	2.2 UJ	1.8 U	1.2 U
SW8260	TOLUENE	ug/kg	693 J	356 J	3310 J	3560 J	448 J	7.2 J	2.1 J	1.8 U	0.7 J
SW8260	XYLENES, M & P	ug/kg	3720 J	2370	10400 J	4530 J	221 J	2.1 J	2.2 UJ	1.8 U	1.2 U
SW8260	XYLENES, TOTAL	ug/kg	4880 J	3040	14000 J	5810 J	292 J	2.7 J	1.2 J	1.8 U	1.2 U
SW9045	pH	S.U.	11.58 J	11.69	11.54 J	11.9 J	11.41 J	8.99 J	7.67 J	7.66	8.17

**Table A3-2  
Validated Porewater Sediment Analytical Data**

		Location	OL-VC-20213	OL-VC-20213	OL-VC-20213	OL-VC-20214	OL-VC-20214	OL-VC-20215	OL-VC-20215	OL-VC-20216	OL-VC-20216
		Sample Depth	2.00-4.00 Ft	4.00-6.00 Ft	6.00-7.00 Ft	0.00-2.00 Ft	2.00-3.70 Ft	0.00-2.00 Ft	2.00-2.80 Ft	0.00-2.00 Ft	2.00-4.00 Ft
		Field Sample ID	OL-1295-08	OL-1295-09	OL-1295-10	OL-1075-06	OL-1075-07	OL-1078-06	OL-1078-07	OL-1237-07	OL-1237-08
		Sample Date	6/14/2010	6/14/2010	6/14/2010	5/19/2010	5/19/2010	5/21/2010	5/21/2010	6/2/2010	6/2/2010
		SDG	JA49021	JA49021	JA49021	JA46871	JA46871	JA46781	JA46781	JA48116	JA48116
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water
Method	Parameter Name	Units									
ASTM D1429-86	SPECIFIC GRAVITY	g/cc	1.3 J	1.5	1.6	1.5	2.6	2.2	2.3	1.4 J	1.2 J
ASTM D4643-00	SOLIDS, PERCENT	%									
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	24500 J	6960 J	13900 J	60400	13000	27800	20100	56600 J	64200 J
SM2540G	SOLIDS, PERCENT	%	17.7	59.3	58.7	60.8	85.3	80.2	80.7	44.4	31.9
SW7471	MERCURY	mg/kg	0.31 J	0.058	0.018 U	1.2	0.12	0.19 J	0.15 J	12.8 J	9.8 J
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	5.6 UJ	1.8 U	1.9 U	1.9 U	1.3 U	1.2 U	1.4 U	2.6 UJ	3.3 UJ
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	5.6 UJ	1.8 U	1.9 U	3.9	2.7	0.62 J	0.75 J	2.6 UJ	3.3 UJ
SW8260	1,2-DICHLOROBENZENE	ug/kg	5.6 UJ	1.8 U	1.9 U	3.3	0.67 J	1.2 U	1.4 U	15 J	20.1 J
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	5.6 UJ	1.8 U	1.9 U	0.82 J	1.3 U	1.2 U	1.4 U	7 J	5.9 J
SW8260	1,3-DICHLOROBENZENE	ug/kg	5.6 UJ	1.8 U	1.9 U	0.94 J	1.3 U	1.2 U	1.4 U	71.9 J	25.7 J
SW8260	1,4-DICHLOROBENZENE	ug/kg	5.6 UJ	1.8 U	1.9 U	4.8	0.76 J	1.2 U	1.4 U	88.1 J	140 J
SW8260	BENZENE	ug/kg	4 J	5.7	3.5	7.3	3	1 J	1.7	74.7 J	150 J
SW8260	CHLOROBENZENE	ug/kg	5.6 UJ	1.8 U	1.9 U	1.5 J	1.3 U	1.2 U	1.4 U	126 J	216 J
SW8260	ETHYLBENZENE	ug/kg	5.6 UJ	1.3 J	1.2 J	0.76 J	1.3 U	1.2 U	1.4 U	1.9 J	7.5 J
SW8260	NAPHTHALENE	ug/kg	21.6 J	261	4.2 J	16.5	10.4	1.6 J	7 U	16.3 J	105 J
SW8260	O-XYLENE	ug/kg	5.6 UJ	4.6	4.9	2.6	0.95 J	2	1.5	19.3 J	45.6 J
SW8260	TOLUENE	ug/kg	3.6 J	1.6 J	1.9 U	1.7 J	1 J	1.2	1.5	3.5 J	4.2 J
SW8260	XYLENES, M & P	ug/kg	3 J	6.4	2.3	3.3	1.3	1.8	1.5	18.5 J	32.4 J
SW8260	XYLENES, TOTAL	ug/kg	3 J	11	7.2	5.9	2.3	3.8	3	37.8 J	78 J
SW9045	pH	S.U.	10.24 J	9.5	8.13	10.37	10.42	10.72	10.61	7.58 J	7.13 J

**Table A3-2  
Validated Porewater Sediment Analytical Data**

Location	OL-VC-20216	OL-VC-20216	OL-VC-20216	OL-VC-20216	OL-VC-20217	OL-VC-20217	OL-VC-20217	OL-VC-20217	OL-VC-20217	OL-VC-20217
Sample Depth	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	10.00-12.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	
Field Sample ID	OL-1237-09	OL-1237-10	OL-1237-11	OL-1237-12	OL-1237-13	OL-1237-14	OL-1237-15	OL-1237-16	OL-1237-17	
Sample Date	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	
SDG	JA48116	JA48116	JA48116	JA48116	JA48116	JA48116	JA48116	JA48116	JA48116	
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units								
ASTM D1429-86	SPECIFIC GRAVITY	g/cc	1.4 J	1.3 J	1.4	1.5	1.2 J	1.3 J	1.8 J	1.4
ASTM D4643-00	SOLIDS, PERCENT	%								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	46100 J	172000 J	74600	28700	47200 J	66800 J	33600 J	38100
SM2540G	SOLIDS, PERCENT	%	39.1	46.5	51.3	56.7	39.1	45.1	46.1	50.4
SW7471	MERCURY	mg/kg	14.9 J	1.8 J	1.5	0.36	10.8 J	3.1 J	1.8 J	1.3
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	2.7 UJ	2.3 UJ	12 U	11 U	210 UJ	2.5 UJ	170 UJ	730 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	2.7 UJ	2.3 UJ	12 U	11 U	210 UJ	2.5 UJ	170 UJ	467 J
SW8260	1,2-DICHLOROBENZENE	ug/kg	8.9 J	1.7 J	16.7	20	224 J	15.8 J	1030 J	4400
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	3.9 J	2.3 UJ	12 U	11 U	210 UJ	2.5 UJ	110 J	730 U
SW8260	1,3-DICHLOROBENZENE	ug/kg	4.3 J	2.3 UJ	12 U	11 U	296 J	3.4 J	435 J	730 U
SW8260	1,4-DICHLOROBENZENE	ug/kg	11.9 J	1 J	7.2 J	10.4 J	2060 J	15.6 J	3080 J	4380
SW8260	BENZENE	ug/kg	57 J	15.7 J	27.2	24.9	2190 J	35.8 J	821 J	1220
SW8260	CHLOROBENZENE	ug/kg	35.1 J	1.5 J	7.2 J	11 U	32500 J	82.9 J	4660 J	3980
SW8260	ETHYLBENZENE	ug/kg	5 J	1.5 J	23.9	29.9	210 UJ	12.9 J	1110 J	2150
SW8260	NAPHTHALENE	ug/kg	256 J	111 J	1500	8840	523 J	175 J	62700 J	155000
SW8260	O-XYLENE	ug/kg	23.4 J	11.7 J	243	94.1	433 J	113 J	2690 J	4590
SW8260	TOLUENE	ug/kg	2.6 J	0.87 J	25.9	12.1	210 UJ	4.4 J	567 J	1270
SW8260	XYLENES, M & P	ug/kg	14.9 J	4.7 J	221	240	215 J	23.8 J	5590 J	13200
SW8260	XYLENES, TOTAL	ug/kg	38.2 J	16.4 J	464	334	648 J	137 J	8280 J	17800
SW9045	pH	S.U.	7.14 J	7.25 J	7.26	8	7.41 J	7.73 J	7.8 J	8.27

**Table A3-2  
Validated Porewater Sediment Analytical Data**

	Location	OL-VC-20217	OL-VC-30159	OL-VC-30159	OL-VC-30159	OL-VC-30159	OL-VC-30159	OL-VC-30159	OL-VC-30160	OL-VC-30160	OL-VC-30160
	Sample Depth	10.00-12.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	
	Field Sample ID	OL-1237-18	OL-1268-01	OL-1268-02	OL-1268-03	OL-1268-04	OL-1268-05	OL-1295-11	OL-1295-12	OL-1295-13	
	Sample Date	6/2/2010	6/8/2010	6/8/2010	6/8/2010	6/8/2010	6/8/2010	6/14/2010	6/14/2010	6/14/2010	
	SDG	JA48116	JA48494	JA48494	JA48494	JA48494	JA48494	JA49021	JA49021	JA49021	
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
	Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
	Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units									
ASTM D1429-86	SPECIFIC GRAVITY	g/cc	1.3 J	1.3 J	1.3 J	1.3 J	1.3 J	1.7	1.6	1.5	
ASTM D4643-00	SOLIDS, PERCENT	%									
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	14900 J	8470 J	9820 J	6830 J	4690 J	3600 J	11900 J	15400 J	13800 J
SM2540G	SOLIDS, PERCENT	%	45	36.7	39	34.3	32.6	36.2	60.2	59.7	56.1
SW7471	MERCURY	mg/kg	0.52 J	0.12 J	0.13 J	0.13 J	0.12 J	0.14 J	0.026 J	0.019 J	0.022 J
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	14 UJ	14 UJ	13 UJ	15 UJ	15 UJ	3.1 UJ	9.2 U	9.3 U	9.9 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	14 UJ	14 UJ	13 UJ	15 UJ	15 UJ	3.1 UJ	9.2 U	9.3 U	9.9 U
SW8260	1,2-DICHLOROBENZENE	ug/kg	14 UJ	14 UJ	13 UJ	15 UJ	15 UJ	3.1 UJ	9.2 U	9.3 U	9.9 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	14 UJ	14 UJ	13 UJ	15 UJ	15 UJ	3.1 UJ	9.2 U	9.3 U	9.9 U
SW8260	1,3-DICHLOROBENZENE	ug/kg	14 UJ	14 UJ	13 UJ	15 UJ	15 UJ	3.1 UJ	9.2 U	9.3 U	9.9 U
SW8260	1,4-DICHLOROBENZENE	ug/kg	14 UJ	14 UJ	13 UJ	15 UJ	15 UJ	3.1 UJ	9.2 U	9.3 U	9.9 U
SW8260	BENZENE	ug/kg	20.6 J	6860 J	6810 J	6420 J	7660 J	1080 J	1210	4230	5670
SW8260	CHLOROBENZENE	ug/kg	8.5 J	14 UJ	13 UJ	15 UJ	15 UJ	3.1 UJ	9.2 U	9.3 U	9.9 U
SW8260	ETHYLBENZENE	ug/kg	31.3 J	15 J	16.1 J	7.1 J	15 UJ	3.6 J	98.2	11.9	9.9 U
SW8260	NAPHTHALENE	ug/kg	5130 J	957 J	1700 J	731 J	488 J	526 J	7980	250	33.5 J
SW8260	O-XYLENE	ug/kg	80.2 J	121 J	147 J	45.9 J	18.9 J	15.1 J	656	57.7	10.5
SW8260	TOLUENE	ug/kg	21.1 J	1140 J	1170 J	882 J	560 J	227 J	1670	444	279
SW8260	XYLENES, M & P	ug/kg	144 J	262 J	242 J	64.3 J	22 J	18.2 J	2190	165	30.1
SW8260	XYLENES, TOTAL	ug/kg	224 J	382 J	390 J	110 J	40.9 J	33.3 J	2840	223	40.6
SW9045	pH	S.U.	11.3 J	11.64 J	11.58 J	11.54 J	11.44 J	11.41 J	9.22	7.02	6.86

**Table A3-2  
Validated Porewater Sediment Analytical Data**

		OL-VC-30160	OL-VC-30160	OL-VC-30161	OL-VC-30161	OL-VC-30161	OL-VC-30161	OL-VC-30161	OL-VC-30161	OL-VC-30162	OL-VC-30162
	Location	OL-VC-30160	OL-VC-30160	OL-VC-30161	OL-VC-30161	OL-VC-30161	OL-VC-30161	OL-VC-30161	OL-VC-30161	OL-VC-30162	OL-VC-30162
	Sample Depth	6.00-8.00 Ft	8.00-9.60 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-9.50 Ft	0.00-2.00 Ft	2.00-4.00 Ft	
	Field Sample ID	OL-1295-14	OL-1295-15	OL-1296-01	OL-1296-02	OL-1296-03	OL-1296-04	OL-1296-05	OL-1202-01	OL-1202-02	
	Sample Date	6/14/2010	6/14/2010	6/14/2010	6/14/2010	6/14/2010	6/14/2010	6/14/2010	5/24/2010	5/24/2010	
	SDG	JA49021	JA49021	JA49022	JA49022	JA49022	JA49022	JA49022	JA47081	JA47081	
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
	Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
	Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units									
ASTM D1429-86	SPECIFIC GRAVITY	g/cc	1.5	1.6	1.2 J	1.5	1.5	1.6	1.5	1.3 J	1.2 J
ASTM D4643-00	SOLIDS, PERCENT	%									
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	10800 J	11000 J	6530 J	11100	11700	7480	8200	8810 J	1820 J
SM2540G	SOLIDS, PERCENT	%	56.8	57.8	31.8	52.2	51.5	63.1	53.1	36.9	32.1
SW7471	MERCURY	mg/kg	0.023 J	0.033 J	0.064 J	0.024 J	0.15	0.018 U	0.022 U	0.21 J	0.47 J
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	9.8 U	1.8 U	260 UJ	560 U	600 U	220 U	1.9 U	12 UJ	3.2 UJ
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	9.8 U	1.8 U	260 UJ	560 U	600 U	220 U	1.9 U	12 UJ	3.2 UJ
SW8260	1,2-DICHLOROBENZENE	ug/kg	9.8 U	1.8 U	260 UJ	560 U	600 U	220 U	1.9 U	12 UJ	3.2 UJ
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	9.8 U	1.8 U	260 UJ	560 U	600 U	220 U	1.9 U	12 UJ	3.2 UJ
SW8260	1,3-DICHLOROBENZENE	ug/kg	9.8 U	1.8 U	260 UJ	560 U	600 U	220 U	1.9 U	12 UJ	3.2 UJ
SW8260	1,4-DICHLOROBENZENE	ug/kg	9.8 U	1.8 U	260 UJ	560 U	600 U	220 U	1.9 U	12 UJ	3.2 UJ
SW8260	BENZENE	ug/kg	981	365	292 J	560 U	600 U	220 U	1400	13500 J	11000 J
SW8260	CHLOROBENZENE	ug/kg	9.8 U	1.8 U	260 UJ	560 U	600 U	220 U	1.9 U	12 UJ	3.2 UJ
SW8260	ETHYLBENZENE	ug/kg	9.8 U	1.8 U	477 J	360 J	328 J	220 U	7	12 UJ	3.2 UJ
SW8260	NAPHTHALENE	ug/kg	49 U	9.2 U	37300 J	83100	71000	36300	94.2	86.2 J	11.9 J
SW8260	O-XYLENE	ug/kg	9.8 U	1.8 U	2980 J	2620	2380	562	29.6	6.4 J	3.2 UJ
SW8260	TOLUENE	ug/kg	42.7	10.7	2100 J	816	986	247	6320	280 J	67.9 J
SW8260	XYLENES, M & P	ug/kg	5.8 J	1.5 J	10100 J	8680	8000	1630	66.3	18.9 J	2.1 J
SW8260	XYLENES, TOTAL	ug/kg	7.8 J	2	13100 J	11300	10400	2190	96	25.3 J	2.1 J
SW9045	pH	S.U.	6.76	6.95	11.27 J	11.67	11.52	10.91	7.78	10.96 J	11.49 J

**Table A3-2  
Validated Porewater Sediment Analytical Data**

		Location	OL-VC-30162	OL-VC-30162	OL-VC-30162	OL-VC-30163	OL-VC-30163	OL-VC-30163	OL-VC-30163	OL-VC-30163	OL-VC-30163	OL-VC-30163	OL-VC-30163
		Sample Depth	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-9.50 Ft	0.00-2.00 Ft		
		Field Sample ID	OL-1202-03	OL-1202-04	OL-1202-05	OL-1296-06	OL-1296-07	OL-1296-08	OL-1296-09	OL-1296-10	OL-1202-06		
		Sample Date	5/24/2010	5/24/2010	5/24/2010	6/14/2010	6/14/2010	6/14/2010	6/14/2010	6/14/2010	5/24/2010		
		SDG	JA47081	JA47081	JA47081	JA49022	JA49022	JA49022	JA49022	JA49022	JA47081		
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
		Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units											
ASTM D1429-86	SPECIFIC GRAVITY	g/cc	1.3 J	1.3 J	1.2 J	1.7	1.7	1.6	1.6	1.6	1.5		
ASTM D4643-00	SOLIDS, PERCENT	%											
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	2740 J	2390 J	9600 J	11500	10200	10500	8920	9440	6500		
SM2540G	SOLIDS, PERCENT	%	36.6	33.5	31.3	63.8	64.7	65.6	61.1	57.9	56.1		
SW7471	MERCURY	mg/kg	0.044 J	0.056 J	0.1 J	0.017 J	0.018 U	0.017 U	0.018 U	0.02 U	0.088		
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	3.3 UJ	14 UJ	3.3 UJ	280 U	100 U	92 U	1.8 U	1.7 U	2 U		
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	3.3 UJ	14 UJ	3.3 UJ	280 U	100 U	92 U	1.8 U	1.7 U	2 U		
SW8260	1,2-DICHLOROBENZENE	ug/kg	3.3 UJ	14 UJ	3.3 UJ	280 U	100 U	92 U	1.8 U	1.7 U	2 U		
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	3.3 UJ	14 UJ	3.3 UJ	280 U	100 U	92 U	1.8 U	1.7 U	2 U		
SW8260	1,3-DICHLOROBENZENE	ug/kg	3.3 UJ	14 UJ	3.3 UJ	280 U	100 U	92 U	1.8 U	1.7 U	2 U		
SW8260	1,4-DICHLOROBENZENE	ug/kg	3.3 UJ	14 UJ	3.3 UJ	280 U	100 U	92 U	1.8 U	1.7 U	2 U		
SW8260	BENZENE	ug/kg	10300 J	15900 J	11900 J	280 U	48.2 J	77.4 J	601	390	2.4		
SW8260	CHLOROBENZENE	ug/kg	3.3 UJ	14 UJ	3.3 UJ	280 U	100 U	92 U	1.8 U	1.7 U	2 U		
SW8260	ETHYLBENZENE	ug/kg	1.2 J	6.3 J	4.6 J	280 U	134	69.7 J	16.4	2.9	7.5		
SW8260	NAPHTHALENE	ug/kg	18.1 J	54.6 J	36.3 J	38500	41900	20400	2200	51	58.9		
SW8260	O-XYLENE	ug/kg	3.3 UJ	14 UJ	2 J	711	1090	621	88.1	15.8	2.5		
SW8260	TOLUENE	ug/kg	170 J	823 J	1990 J	463	510	648	3340	2260	2 U		
SW8260	XYLENES, M & P	ug/kg	2.3 J	9.4 J	5.6 J	2670	3600	1890	288	42.8	20.1		
SW8260	XYLENES, TOTAL	ug/kg	3.3 J	13.3 J	7.6 J	3390	4690	2510	376	58.6	22.6		
SW9045	pH	S.U.	11.41 J	11.45 J	11.25 J	11.37	11.29	11.31	8.48	7.24	7.98		

**Table A3-2  
Validated Porewater Sediment Analytical Data**

		Location	OL-VC-30164	OL-VC-30164	OL-VC-30164	OL-VC-30164	OL-VC-30165	OL-VC-30165	OL-VC-30165	OL-VC-30165	OL-VC-30165	OL-VC-30165
		Sample Depth	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	
		Field Sample ID	OL-1202-07	OL-1202-08	OL-1202-09	OL-1202-10	OL-1070-01	OL-1070-02	OL-1070-03	OL-1070-04	OL-1070-05	
		Sample Date	5/24/2010	5/24/2010	5/24/2010	5/24/2010	5/12/2010	5/12/2010	5/12/2010	5/12/2010	5/12/2010	
		SDG	JA47081	JA47081	JA47081	JA47081	JA46550	JA46550	JA46550	JA46550	JA46550	
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
		Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units										
ASTM D1429-86	SPECIFIC GRAVITY	g/cc	1.5	1.6	1.5	1.5	1.3 J	1.3 J	1.2 J	1.2 J	1.3 J	
ASTM D4643-00	SOLIDS, PERCENT	%										
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	6690	7000	6260	8310	9800 J	918 J	904 J	717 J	2580 J	
SM2540G	SOLIDS, PERCENT	%	57.4	51.4	54.2	53	38.3	36.1	31.2	31.4	34.7	
SW7471	MERCURY	mg/kg	0.019 U	0.021 U	0.022 U	0.02 U	0.49 J	0.13 J	0.1 J	0.11 J	0.28 J	
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	8.7 U	8.8 U	2 U	140 U	16 UJ	17 UJ	20 UJ	3.4 UJ	3.1 UJ	
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	8.7 U	8.8 U	2 U	140 U	16 UJ	17 UJ	20 UJ	3.4 UJ	3.1 UJ	
SW8260	1,2-DICHLOROBENZENE	ug/kg	8.7 U	8.8 U	2 U	140 U	9.1 J	17 UJ	20 UJ	3.4 UJ	3.1 UJ	
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	8.7 U	8.8 U	2 UJ	140 U	16 UJ	17 UJ	20 UJ	3.4 UJ	3.1 UJ	
SW8260	1,3-DICHLOROBENZENE	ug/kg	8.7 U	8.8 U	2 U	140 U	16 UJ	17 UJ	20 UJ	3.4 UJ	3.1 UJ	
SW8260	1,4-DICHLOROBENZENE	ug/kg	8.7 U	8.8 U	2 U	140 U	19.7 J	17 UJ	20 UJ	3.4 UJ	3.1 UJ	
SW8260	BENZENE	ug/kg	14.7	583	244	5610	16000 J	7010 J	9090 J	861 J	198 J	
SW8260	CHLOROBENZENE	ug/kg	8.7 U	8.8 U	2 U	140 U	14.9 J	17 UJ	20 UJ	1.4 J	3.1 UJ	
SW8260	ETHYLBENZENE	ug/kg	22.3	83.9	19.6	567	46.4 J	17.2 J	26.4 J	3.4 UJ	3.1 UJ	
SW8260	NAPHTHALENE	ug/kg	3020	1270	234	2840	859 J	332 J	393 J	28.9 J	36.1 J	
SW8260	O-XYLENE	ug/kg	20.2	398	88.7	1560	302 J	89.6 J	140 J	3.2 J	3.1 UJ	
SW8260	TOLUENE	ug/kg	7.6 J	435	1820	18000	7730 J	1620 J	2820 J	121 J	18.9 J	
SW8260	XYLENES, M & P	ug/kg	339	1080	258	6750	590 J	255 J	371 J	5.3 J	1.9 J	
SW8260	XYLENES, TOTAL	ug/kg	359	1480	347	8300	892 J	345 J	511 J	8.5 J	3.1 J	
SW9045	pH	S.U.	7.53	7.11	7.46	7.04	11.48 J	11.88 J	11.85 J	12.06 J	12.13 J	



**Table A3-2  
Validated Porewater Sediment Analytical Data**

		Location	OL-VC-30166	OL-VC-30166	OL-VC-30166	OL-VC-30166	OL-VC-30166	OL-VC-30166	OL-VC-30167	OL-VC-30167	OL-VC-30167	OL-VC-30167
		Sample Depth	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-9.70 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	6.00-8.00 Ft
		Field Sample ID	OL-1077-06	OL-1077-07	OL-1077-08	OL-1077-09	OL-1077-10	OL-1077-11	OL-1077-12	OL-1077-13	OL-1077-14	OL-1077-14
		Sample Date	5/20/2010	5/20/2010	5/20/2010	5/20/2010	5/20/2010	5/20/2010	5/20/2010	5/20/2010	5/20/2010	5/20/2010
		SDG	JA46717	JA46717	JA46717	JA46717	JA46717	JA46717	JA46717	JA46717	JA46717	JA46717
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water
Method	Parameter Name	Units										
ASTM D1429-86	SPECIFIC GRAVITY	g/cc	1.3 J	1.3 J	1.3 J	1.2 J	1.2 J	1.2 J	1.1 J	1.3 J	1.3 J	1.3 J
ASTM D4643-00	SOLIDS, PERCENT	%										
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	3860 J	454 J	652 J	1130 J	1480 J	8780 J	6880 J	1290 J	2510 J	2510 J
SM2540G	SOLIDS, PERCENT	%	40.4	38.6	42.1	29.3	32.7	30.3	20.5	37.2	31.9	31.9
SW7471	MERCURY	mg/kg	0.1 J	0.2 J	0.21 J	0.075 J	0.22 J	0.23 J	0.34 J	0.15 J	0.17 J	0.17 J
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	2.3 UJ	2.9 UJ	2.5 UJ	3.4 UJ	3.2 UJ	3.6 UJ	5.8 UJ	2.6 UJ	3.3 UJ	3.3 UJ
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	2.3 UJ	2.9 UJ	2.5 UJ	3.4 UJ	3.2 UJ	3.6 UJ	5.8 UJ	2.6 UJ	3.3 UJ	3.3 UJ
SW8260	1,2-DICHLOROBENZENE	ug/kg	2.3 UJ	2.9 U	2.5 UJ	1.7 J	1.8 J	1.1 J	2.5 J	2.6 UJ	3.3 UJ	3.3 UJ
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	2.3 UJ	2.9 UJ	2.5 UJ	3.4 UJ	3.2 UJ	3.6 UJ	5.8 UJ	2.6 UJ	3.3 UJ	3.3 UJ
SW8260	1,3-DICHLOROBENZENE	ug/kg	2.3 UJ	2.9 UJ	2.5 UJ	3.4 UJ	3.2 UJ	3.6 UJ	5.8 UJ	2.6 UJ	3.3 UJ	3.3 UJ
SW8260	1,4-DICHLOROBENZENE	ug/kg	1.8 J	2.9 UJ	2.5 UJ	2.2 J	2.4 J	1.6 J	3.6 J	2.6 UJ	3.3 UJ	3.3 UJ
SW8260	BENZENE	ug/kg	8590 J	3840 J	2.7 J	6110 J	5350 J	11.9 J	21.1 J	3 J	4.8 J	4.8 J
SW8260	CHLOROBENZENE	ug/kg	1.2 J	2.9 UJ	2.5 UJ	2.6 J	3 J	3.6 UJ	5.8 UJ	2.6 UJ	3.3 UJ	3.3 UJ
SW8260	ETHYLBENZENE	ug/kg	81.3 J	11.8 J	2.5 UJ	2.1 J	2.4 J	3.6 UJ	3.4 J	2.6 UJ	3.3 UJ	3.3 UJ
SW8260	NAPHTHALENE	ug/kg	4140 J	351 J	61.8 J	648 J	1580 J	48.7 J	78.6 J	9.8 J	22.3 J	22.3 J
SW8260	O-XYLENE	ug/kg	432 J	74.9 J	2.5 UJ	12.1 J	12.9 J	2.5 J	6.5 J	2.6 UJ	3.3 UJ	3.3 UJ
SW8260	TOLUENE	ug/kg	9550 J	1530 J	1.6 J	297 J	353 J	5.6 J	15.2 J	2.3 J	3 J	3 J
SW8260	XYLENES, M & P	ug/kg	2500 J	185 J	2.5 UJ	23 J	26.2 J	3 J	10.4 J	2.6 UJ	2.2 J	2.2 J
SW8260	XYLENES, TOTAL	ug/kg	2930 J	260 J	2.5 UJ	35.1 J	39.1 J	5.5 J	16.9 J	1.6 J	3.6 J	3.6 J
SW9045	pH	S.U.	11.77 J	12.02 J	11.98 J	11.86 J	11.78 J	11.72 J	11.83 J	12.03 J	11.98 J	11.98 J

**Table A3-2  
Validated Porewater Sediment Analytical Data**

		OL-VC-30167	OL-VC-30168	OL-VC-30168	OL-VC-30168	OL-VC-30168	OL-VC-30168	OL-VC-30168	OL-VC-30169	OL-VC-30169	OL-VC-30169
	Location	OL-VC-30167	OL-VC-30168	OL-VC-30168	OL-VC-30168	OL-VC-30168	OL-VC-30168	OL-VC-30168	OL-VC-30169	OL-VC-30169	OL-VC-30169
	Sample Depth	8.00-9.90 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-9.30 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	
	Field Sample ID	OL-1077-15	OL-1078-01	OL-1078-02	OL-1078-03	OL-1078-04	OL-1078-05	OL-1077-16	OL-1077-17	OL-1077-18	
	Sample Date	5/20/2010	5/21/2010	5/21/2010	5/21/2010	5/21/2010	5/21/2010	5/20/2010	5/20/2010	5/20/2010	
	SDG	JA46717	JA46781	JA46781	JA46781	JA46781	JA46781	JA46717	JA46717	JA46717	
	Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
	Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
	Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units									
ASTM D1429-86	SPECIFIC GRAVITY	g/cc	1.2 J	1.2 J	1.4 J	1.4	1.4	1.5	1.2 J	1.2 J	1.2 J
ASTM D4643-00	SOLIDS, PERCENT	%									
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	1770 J	16900 J	20700 J	24700	16400	13600	4400 J	1710 J	1020 J
SM2540G	SOLIDS, PERCENT	%	29.2	30.1	45	53.5	53.2	56.4	26.7	29.8	31.6
SW7471	MERCURY	mg/kg	0.22 J	0.17 J	0.056 J	0.02 U	0.022 J	0.021 J	0.21 J	0.12 J	0.18 J
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	3.9 UJ	3.2 UJ	2.6 UJ	2.1 U	2 UJ	2 U	4.4 UJ	4 UJ	3.6 UJ
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	3.9 UJ	3.2 UJ	2.6 UJ	2.1 U	2 UJ	2 U	4.4 UJ	4 UJ	3.6 UJ
SW8260	1,2-DICHLOROBENZENE	ug/kg	3.9 UJ	0.87 J	2.6 UJ	2.1 U	2 UJ	2 U	2.1 J	2.1 J	1.8 J
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	3.9 UJ	3.2 UJ	2.6 UJ	2.1 U	2 UJ	2 U	4.4 UJ	4 UJ	3.6 UJ
SW8260	1,3-DICHLOROBENZENE	ug/kg	3.9 UJ	3.2 UJ	2.6 UJ	2.1 U	2 UJ	2 U	4.4 UJ	4 UJ	3.6 UJ
SW8260	1,4-DICHLOROBENZENE	ug/kg	3.9 UJ	2 J	2.6 UJ	2.1 U	2 UJ	2 U	1.7 J	1.7 J	1.5 J
SW8260	BENZENE	ug/kg	4.5 J	3.9 J	4.1 J	2.1 U	2 U	2 U	329 J	108 J	58.4 J
SW8260	CHLOROBENZENE	ug/kg	3.9 UJ	3.2 UJ	2.6 UJ	2.1 U	2 U	2 U	2.2 J	2.1 J	1.9 J
SW8260	ETHYLBENZENE	ug/kg	3.9 UJ	1.6 J	2.6 J	2.1 U	2 U	2 U	4.4 UJ	4 UJ	3.6 UJ
SW8260	NAPHTHALENE	ug/kg	25.6 J	172 J	305 J	11 U	9.8 U	9.9 U	104 J	80.1 J	71.5 J
SW8260	O-XYLENE	ug/kg	3.9 UJ	4.4 J	8.4 J	2.1 U	2 U	2 U	9 J	7 J	4.9 J
SW8260	TOLUENE	ug/kg	3.1 J	3.4 J	4.6 J	2.1 U	2 U	2 U	45 J	18.5 J	11.3 J
SW8260	XYLENES, M & P	ug/kg	3.9 UJ	7.7 J	12.4 J	2.1 U	2 U	2 U	16 J	12.7 J	9.4 J
SW8260	XYLENES, TOTAL	ug/kg	3 J	12.1 J	20.8 J	2.1 U	2 U	2 U	25 J	19.8 J	14.4 J
SW9045	pH	S.U.	11.99 J	11.25 J	10.14 J	7.8	7.51	7.65	12 J	12.15 J	12.22 J

**Table A3-2  
Validated Porewater Sediment Analytical Data**

		Location	OL-VC-30169	OL-VC-30169	OL-VC-40272	OL-VC-40272	OL-VC-40272	OL-VC-40272	OL-VC-40272	OL-VC-40273	OL-VC-40273
		Sample Depth	6.00-8.00 Ft	8.00-9.70 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft
		Field Sample ID	OL-1077-19	OL-1077-20	OL-1201-01	OL-1201-02	OL-1201-03	OL-1201-04	OL-1201-05	OL-1078-08	OL-1078-09
		Sample Date	5/20/2010	5/20/2010	5/21/2010	5/21/2010	5/21/2010	5/21/2010	5/21/2010	5/21/2010	5/21/2010
		SDG	JA46717	JA46717	JA47131	JA47131	JA47131	JA47131	JA47131	JA46781	JA46781
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water
Method	Parameter Name	Units									
ASTM D1429-86	SPECIFIC GRAVITY	g/cc	1.3 J	1.2 J	1.6	1.5	1.6	1.6	1.6	1.5	1.4
ASTM D4643-00	SOLIDS, PERCENT	%									
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	1420 J	4330 J	6470	8960	6380	7250	19700	5960	6720
SM2540G	SOLIDS, PERCENT	%	34	37.7	57.2	62	61.7	58.1	59.6	59	53.6
SW7471	MERCURY	mg/kg	0.18 J	0.34 J	0.88	1	0.63	1.6	2.2	1.4 J	1.3 J
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	3.3 UJ	3.2 UJ	2 U	1.8 U	1.7 U	1.8 U	1.9 U	1.7 U	1.9 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	3.3 UJ	3.2 UJ	2 U	1.8 U	1.7 U	1.8 U	1.9 U	1.7 U	1.9 U
SW8260	1,2-DICHLOROBENZENE	ug/kg	1.7 J	3.2 UJ	0.67 J	0.88 J	0.48 J	1.1 J	2.2	1.7 U	1.9 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	3.3 UJ	3.2 UJ	2 U	1.8 U	1.7 U	1.8 U	1.9 U	1.7 U	1.9 U
SW8260	1,3-DICHLOROBENZENE	ug/kg	3.3 UJ	3.2 UJ	2.7	7.3	4.6	12	13.7	0.84 J	1.9
SW8260	1,4-DICHLOROBENZENE	ug/kg	1.5 J	3.2 UJ	2 U	0.92 J	0.68 J	1.2 J	2.9	1.7 U	1.9 U
SW8260	BENZENE	ug/kg	42.3 J	19.8 J	2 U	0.7 J	0.6 J	1.4 J	3.4	1.7 U	1.9 U
SW8260	CHLOROBENZENE	ug/kg	1.5 J	3.2 UJ	1.2 J	1.7 J	2.7	5.3	10.5	1.7 U	1.9 U
SW8260	ETHYLBENZENE	ug/kg	3.3 UJ	3.2 UJ	2 U	1.8 U	1.7 U	1.8 U	1.9 U	1.7 U	1.9 U
SW8260	NAPHTHALENE	ug/kg	75.1 J	35.6 J	9.9 U	8.8 U	8.4 U	8.8 U	9.3 U	8.5 U	9.3 U
SW8260	O-XYLENE	ug/kg	4.3 J	3.2 UJ	2 U	1.8 U	1.7 U	1.8 U	2.4	1.7 U	1.9 U
SW8260	TOLUENE	ug/kg	6.3 J	1.7 J	2 U	0.52 J	1.7 U	1.8 U	0.69 J	1.7 U	1.9 U
SW8260	XYLENES, M & P	ug/kg	8.3 J	1.9 J	2.1	3.7	1.4 J	1.8	4.8	1.7 U	1.9 U
SW8260	XYLENES, TOTAL	ug/kg	12.6 J	2.9 J	2.6	4.4	1.8	2.6	7.2	1.7 U	1.9 U
SW9045	pH	S.U.	12.13 J	12.11 J	8.26	8.42	7.64	7.51	7.44	7.83	7.87

**Table A3-2  
Validated Porewater Sediment Analytical Data**

		Location	OL-VC-40273	OL-VC-40273	OL-VC-40273	OL-VC-40274	OL-VC-40274	OL-VC-40274	OL-VC-40274	OL-VC-40274	OL-VC-40275
		Sample Depth	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-8.80 Ft	0.00-2.00 Ft
		Field Sample ID	OL-1078-10	OL-1078-11	OL-1078-12	OL-1078-13	OL-1078-14	OL-1078-15	OL-1078-16	OL-1078-17	OL-1079-01
		Sample Date	5/21/2010	5/21/2010	5/21/2010	5/21/2010	5/21/2010	5/21/2010	5/21/2010	5/21/2010	5/21/2010
		SDG	JA46781	JA46781	JA46781	JA46781	JA46781	JA46781	JA46781	JA46781	JA46884
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water
Method	Parameter Name	Units									
ASTM D1429-86	SPECIFIC GRAVITY	g/cc	1.6	1.5	1.4	1.5	1.6	1.6	1.5	1.5	1.6
ASTM D4643-00	SOLIDS, PERCENT	%									
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	11800	12800	9950	29100	10500	15200	13200	14700	11600 J
SM2540G	SOLIDS, PERCENT	%	59.5	60.4	55.6	56.4	60.7	59.6	56.7	55	60
SW7471	MERCURY	mg/kg	1.2 J	1.8 J	31 J	0.88 J	1 J	3.7 J	25.9 J	41 J	27.7 J
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	1.8 U	1.9 U	1.9 U	2.1 U	1.6 U	1.7 U	2 UJ	1.7 U	1.7 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	1.8 U	1.9 U	1.9 U	2.1 U	1.6 U	1.7 U	2 UJ	1.3 J	1.7 U
SW8260	1,2-DICHLOROBENZENE	ug/kg	0.48 J	3.1	2	2.1 U	0.49 J	1.8	1.9 J	1.8	1.1 J
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	1.8 U	1.9 U	1.9 U	2.1 U	1.6 U	1.7 U	2.1 J	1.1 J	1.7 U
SW8260	1,3-DICHLOROBENZENE	ug/kg	5.3	16.3	15	0.63 J	7.3	12.1	24.7 J	23.3	14.6
SW8260	1,4-DICHLOROBENZENE	ug/kg	0.64 J	4.6	4.4	0.86 J	1.5 J	3.2	3.7 J	3.6	2.3
SW8260	BENZENE	ug/kg	1.8 U	5	3.8	2.1 U	1.6 U	0.92 J	1.6 J	4.4	1.7 U
SW8260	CHLOROBENZENE	ug/kg	2.2	14.9	24	2.1 U	1.6 U	7.2	21.7	53.4	9.9
SW8260	ETHYLBENZENE	ug/kg	1.8 U	1.9 U	0.71 J	2.1 U	1.6 U	1.7 U	2.3	3.2	2.3
SW8260	NAPHTHALENE	ug/kg	8.9 U	9.4 U	1.5 J	10 U	8.2 U	8.6 U	9.8 U	2.7 J	1.5 J
SW8260	O-XYLENE	ug/kg	1.8 U	5.7	21.9	2.1 U	1.6 U	1.6 J	6.1	9.1	7.8
SW8260	TOLUENE	ug/kg	1.8 U	0.6 J	0.58 J	2.1 U	1.6 U	1.7 U	0.84 J	1.9	0.52 J
SW8260	XYLENES, M & P	ug/kg	1.8 U	12.8	27.3	2.1 U	1.6 U	3.2	29.1	41.2	41.1
SW8260	XYLENES, TOTAL	ug/kg	1.8 U	18.5	49.3	2.1 U	1.6 U	4.8	35.3	50.4	48.9
SW9045	pH	S.U.	7.55	7.57	7.85	7.35	7.5	7.65	8.22	8.23	8.46

**Table A3-2  
Validated Porewater Sediment Analytical Data**

		Location	OL-VC-40275	OL-VC-40275	OL-VC-40275	OL-VC-40275	OL-VC-40276	OL-VC-40276	OL-VC-40276	OL-VC-40276
		Sample Depth	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft
		Field Sample ID	OL-1079-02	OL-1079-03	OL-1079-04	OL-1079-05	OL-1079-06	OL-1079-07	OL-1079-08	OL-1079-09
		Sample Date	5/21/2010	5/21/2010	5/21/2010	5/21/2010	5/21/2010	5/21/2010	5/21/2010	5/21/2010
		SDG	JA46884	JA46884	JA46884	JA46884	JA46884	JA46884	JA46884	JA46884
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water
Method	Parameter Name	Units								
ASTM D1429-86	SPECIFIC GRAVITY	g/cc	1.6	1.5	1.5	1.4 J	1.5	1.5	1.5	1.5
ASTM D4643-00	SOLIDS, PERCENT	%								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	12900 J	9600 J	12700 J	12400 J	7360 J	7950 J	12000 J	16300 J
SM2540G	SOLIDS, PERCENT	%	58.4	52.4	50.4	49.9	55.7	58	59.8	56.2
SW7471	MERCURY	mg/kg	33.7 J	16.8 J	19.7 J	10.8 J	1.4 J	1.7 J	52.8 J	62.2 J
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	1.9 U	2 U	2.3 U	2 U	2 U	1.8 U	1.7 U	2 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	1.9 U	2 U	2.3 U	2 U	2 U	1.8 U	1.7 U	2 U
SW8260	1,2-DICHLOROBENZENE	ug/kg	0.8 J	1.7 J	1.1 J	2 U	2 U	1.8 U	1.7 U	2 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	0.64 J	2 U	2.3 U	2 U	2 U	1.8 U	1.7 U	2 U
SW8260	1,3-DICHLOROBENZENE	ug/kg	13.4	18.2	3.5	2 U	0.74 J	5.7	6.7	11.3
SW8260	1,4-DICHLOROBENZENE	ug/kg	1.6 J	2.4	0.96 J	2 U	2 U	0.84 J	2.4	2.2
SW8260	BENZENE	ug/kg	1 J	1.7 J	1.1 J	2 U	2 U	1.8 U	0.84 J	1.1 J
SW8260	CHLOROBENZENE	ug/kg	25.9	32.4	3.6	2 U	1.6 J	5.7	11.6	7.3
SW8260	ETHYLBENZENE	ug/kg	3.5	6.9	1.8 J	2 U	2 U	1.8 U	1.7 U	2 U
SW8260	NAPHTHALENE	ug/kg	9.3 U	2.5 J	11 U	9.8 U	10 U	9.2 U	8.5 U	10 U
SW8260	O-XYLENE	ug/kg	15.8	24.8	5.7	2 U	2 U	1.8 U	0.84 J	2.6
SW8260	TOLUENE	ug/kg	0.98 J	0.97 J	0.7 J	0.71 J	2 U	1.8 U	1.7 U	2 U
SW8260	XYLENES, M & P	ug/kg	63	128	37.9	1.4 J	2 U	1.8 U	3.6	14.6
SW8260	XYLENES, TOTAL	ug/kg	78.8	153	43.6	2.1 J	2 U	1.8 U	4.4	17.2
SW9045	pH	S.U.	8.16	8.26	8.63	8.41 J	7.49	7.44	7.61	7.88

**Table A3-2  
Validated Porewater Sediment Analytical Data**

Location	OL-VC-40276	OL-VC-40277	OL-VC-40277	OL-VC-40277	OL-VC-40277	OL-VC-40277	OL-VC-40277	OL-VC-40278	OL-VC-40278	OL-VC-40278	
Sample Depth	8.00-10.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	4.00-6.00 Ft	
Field Sample ID	OL-1079-10	OL-1251-12	OL-1251-13	OL-1251-14	OL-1251-15	OL-1251-16	OL-1079-16	OL-1079-17	OL-1079-18	OL-1079-18	
Sample Date	5/21/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	5/21/2010	5/21/2010	5/21/2010	5/21/2010	
SDG	JA46884	JA48331	JA48331	JA48331	JA48331	JA48331	JA46884	JA46884	JA46884	JA46884	
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units									
ASTM D1429-86	SPECIFIC GRAVITY	g/cc	1.4	70.5	74.2	77	76.5	76.3	1.5	1.5	1.5
ASTM D4643-00	SOLIDS, PERCENT	%									
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	19300 J	38600	8410	7990	6720	6870	9750 J	9990 J	6640 J
SM2540G	SOLIDS, PERCENT	%	51.5	49.9	61.4	61.5	62.6	64	56.2	56.2	58
SW7471	MERCURY	mg/kg	20.9 J	1.1	0.09	0.018 U	0.017 U	0.016 U	0.11 J	0.015 UJ	0.02 J
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	2.3 U	2.1 U	1.6 U	1.7 U	1.4 U	1.6 U	2 U	1.9 U	1.8 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	2.3 U	2.1 U	1.6 U	1.7 U	1.4 U	1.6 U	2 U	1.9 U	1.8 U
SW8260	1,2-DICHLOROBENZENE	ug/kg	2.3 U	2.1 U	1.6 U	1.7 U	1.4 U	1.6 U	2 U	1.9 U	1.8 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	2.3 U	2.1 U	1.6 U	1.7 U	1.4 U	1.6 U	1.5 J	1.9 U	1.8 U
SW8260	1,3-DICHLOROBENZENE	ug/kg	6.3	2.1 U	1.6 U	1.7 U	1.4 U	1.6 U	2 U	1.9 U	1.8 U
SW8260	1,4-DICHLOROBENZENE	ug/kg	1.2 J	1.1 J	1.6 U	1.7 U	1.4 U	1.6 U	2 U	1.9 U	1.8 U
SW8260	BENZENE	ug/kg	1.3 J	109	10.1	13.1	10	69	59.8	35.7	38.2
SW8260	CHLOROBENZENE	ug/kg	3.6	0.83 J	1.6 U	1.7 U	1.4 U	1.6 U	2 U	1.9 U	1.8 U
SW8260	ETHYLBENZENE	ug/kg	2.3 U	2.1 U	1.6 U	1.7 U	1.4 U	1.6 U	2 U	1.9 U	1.8 U
SW8260	NAPHTHALENE	ug/kg	11 U	10 U	7.8 U	8.5 U	7.1 U	7.8 U	2.2 J	9.3 U	9 U
SW8260	O-XYLENE	ug/kg	6.4	2.1 U	1.6 U	1.7 U	1.4 U	1.6 U	2 U	1.9 U	1.8 U
SW8260	TOLUENE	ug/kg	0.73 J	0.76 J	1.6 U	1.7 U	1.4 U	1.6 U	0.6 J	1.9 U	1.8 U
SW8260	XYLENES, M & P	ug/kg	23.9	2.1 U	1.6 U	1.7 U	1.4 U	1.6 U	2 U	1.9 U	1.8 U
SW8260	XYLENES, TOTAL	ug/kg	30.3	2.1 U	1.6 U	1.7 U	1.4 U	1.6 U	2 U	1.9 U	1.8 U
SW9045	pH	S.U.	7.89	7.25	7.24	7.02	7.13	7.14	6.88	6.87	6.91

**Table A3-2  
Validated Porewater Sediment Analytical Data**

Location	OL-VC-40278	OL-VC-40278	OL-VC-40279	OL-VC-40279	OL-VC-40279	OL-VC-40279	OL-VC-40279	OL-VC-40279	OL-VC-40279	OL-VC-40280
Sample Depth	6.00-8.00 Ft	8.00-10.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	10.00-12.00 Ft	0.00-2.00 Ft	
Field Sample ID	OL-1079-19	OL-1079-20	OL-1274-01	OL-1274-02	OL-1274-03	OL-1274-04	OL-1274-05	OL-1274-06	OL-1274-07	
Sample Date	5/21/2010	5/21/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	
SDG	JA46884	JA46884	JA48638	JA48638	JA48638	JA48638	JA48638	JA48638	JA48638	JA48638
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water
Method	Parameter Name	Units								
ASTM D1429-86	SPECIFIC GRAVITY	g/cc	1.6	1.7	1.6	1.6	1.6	2	1.5	1.6
ASTM D4643-00	SOLIDS, PERCENT	%								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	10100 J	8350 J	5430 J	6270 J	6160 J	5630 J	6180 J	5480 J
SM2540G	SOLIDS, PERCENT	%	57.8	66.1	60	58	56	62.3	59.5	60
SW7471	MERCURY	mg/kg	0.016 UJ	0.015 UJ	0.37	0.13	0.019 U	0.028 J	0.021 J	0.02 U
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	1.8 U	1.7 U	1.9 U	1.9 U	2 U	1.8 U	1.9 U	1.9 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	1.8 U	1.7 U	1.9 U	1.9 U	2 U	1.8 U	1.9 U	1.9 U
SW8260	1,2-DICHLOROBENZENE	ug/kg	1.8 U	1.7 U	1.9 U	1.9 U	2 U	1.8 U	1.9 U	1.9 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	1.8 U	1.7 U	1.9 U	1.9 U	2 U	1.8 UJ	1.9 U	1.9 U
SW8260	1,3-DICHLOROBENZENE	ug/kg	1.8 U	1.7 U	1.9 U	1.9 U	2 U	1.8 U	1.9 U	1.9 U
SW8260	1,4-DICHLOROBENZENE	ug/kg	1.8 U	1.7 U	1.9 U	1.9 U	2 U	1.8 U	1.9 U	1.9 U
SW8260	BENZENE	ug/kg	17.4	1.7 U	1.9 U	1.9 U	2 U	1.8 U	1.9 U	1.9 U
SW8260	CHLOROBENZENE	ug/kg	1.8 U	1.7 U	1.9 U	1.9 U	2 U	1.8 U	1.9 U	1.9 U
SW8260	ETHYLBENZENE	ug/kg	1.8 U	1.7 U	1.9 U	1.9 U	2 U	1.8 U	1.9 U	1.9 U
SW8260	NAPHTHALENE	ug/kg	9 U	8.4 U	9.3 U	9.6 U	9.9 U	8.9 U	9.3 U	9.3 U
SW8260	O-XYLENE	ug/kg	1.8 U	1.7 U	1.9 U	1.9 U	2 U	1.8 U	1.9 U	1.9 U
SW8260	TOLUENE	ug/kg	1.8 U	1.7 U	1.9 U	1.9 U	2 U	1.8 U	1.9 U	1.9 U
SW8260	XYLENES, M & P	ug/kg	1.8 U	1.7 U	1.9 U	1.9 U	2 U	1.8 U	1.9 U	1.9 U
SW8260	XYLENES, TOTAL	ug/kg	1.8 U	1.7 U	1.9 U	1.9 U	2 U	1.8 U	1.9 U	1.9 U
SW9045	pH	S.U.	6.96	7.6	8.08	7.94	7.87	7.91	7.93	8.06

**Table A3-2  
Validated Porewater Sediment Analytical Data**

Location	OL-VC-40280	OL-VC-40280	OL-VC-40280	OL-VC-40280	OL-VC-40280	OL-VC-40281	OL-VC-40281	OL-VC-40281	OL-VC-40281
Sample Depth	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	10.00-12.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft
Field Sample ID	OL-1274-08	OL-1274-09	OL-1274-10	OL-1274-11	OL-1274-12	OL-1274-13	OL-1274-14	OL-1274-15	OL-1274-16
Sample Date	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010
SDG	JA48638	JA48638	JA48638	JA48638	JA48638	JA48638	JA48638	JA48638	JA48638
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water
Method	Parameter Name	Units							
ASTM D1429-86	SPECIFIC GRAVITY	g/cc	1.5	1.4	1.5	1.7	1.3	1.5	1.5
ASTM D4643-00	SOLIDS, PERCENT	%							
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	6700 J	6710 J	7220 J	4560 J	5910 J	17300 J	9720 J
SM2540G	SOLIDS, PERCENT	%	61.3	59.6	60.1	63.9	61.2	60.1	58.7
SW7471	MERCURY	mg/kg	0.26	0.082	0.032 J	0.022 J	0.019 U	1.3	0.85
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	1.8 U	1.9 U	1.8 U	1.7 U	1.8 U	1.8 U	1.9 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	1.8 U	1.9 U	1.8 U	1.7 U	1.8 U	1.8 U	1.9 U
SW8260	1,2-DICHLOROBENZENE	ug/kg	1.8 U	1.9 U	1.8 U	1.7 U	1.8 U	1.8 U	1.9 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	1.8 U	1.9 U	1.8 U	1.7 U	1.8 U	1.8 U	1.9 U
SW8260	1,3-DICHLOROBENZENE	ug/kg	1.8 U	1.9 U	1.8 U	1.7 U	1.8 U	1.3 J	1.9 U
SW8260	1,4-DICHLOROBENZENE	ug/kg	1.8 U	1.9 U	1.8 U	1.7 U	1.8 U	2.1	1.9 U
SW8260	BENZENE	ug/kg	1.8 U	1.9 U	1.8 U	1.7 U	1.8 U	1.8 U	1.9 U
SW8260	CHLOROBENZENE	ug/kg	1.8 U	1.9 U	1.8 U	1.7 U	1.8 U	12.2	3.6
SW8260	ETHYLBENZENE	ug/kg	1.8 U	1.9 U	1.8 U	1.7 U	1.8 U	1.8 U	1.9 U
SW8260	NAPHTHALENE	ug/kg	9.1 U	9.3 U	9.2 U	8.7 U	9.1 U	9.2 U	9.5 U
SW8260	O-XYLENE	ug/kg	1.8 U	1.9 U	1.8 U	1.7 U	1.8 U	1.8 U	1.9 U
SW8260	TOLUENE	ug/kg	1.8 U	1.9 U	1.8 U	1.7 U	1.8 U	1.8 U	1.9 U
SW8260	XYLENES, M & P	ug/kg	1.8 U	1.9 U	1.8 U	1.7 U	1.8 U	1.9	1.9 U
SW8260	XYLENES, TOTAL	ug/kg	1.8 U	1.9 U	1.8 U	1.7 U	1.8 U	1.9	1.9 U
SW9045	pH	S.U.	7.75	7.91	8.17	8.1	8.05	7.7	7.62



**Table A3-2  
Validated Porewater Sediment Analytical Data**

Location	OL-VC-40281	OL-VC-40281	OL-VC-40282	OL-VC-40282	OL-VC-40282	OL-VC-40282	OL-VC-40282	OL-VC-40282	OL-VC-40282	OL-VC-40283
Sample Depth	8.00-10.00 Ft	10.00-12.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	10.00-12.00 Ft	0.00-2.00 Ft	
Field Sample ID	OL-1274-17	OL-1274-18	OL-1275-01	OL-1275-02	OL-1275-03	OL-1275-04	OL-1275-05	OL-1275-06	OL-1275-07	
Sample Date	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	
SDG	JA48638	JA48638	JA48639	JA48639	JA48639	JA48639	JA48639	JA48639	JA48639	
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units								
ASTM D1429-86	SPECIFIC GRAVITY	g/cc	1.6	1.6	1.6	1.5	1.5	1.6	1.5	1.4
ASTM D4643-00	SOLIDS, PERCENT	%								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	8500 J	7460 J	12300	12700	7270	11600	10900	9860
SM2540G	SOLIDS, PERCENT	%	61.1	64.7	57.2	54.3	57.5	60.7	58.8	56.4
SW7471	MERCURY	mg/kg	0.017 U	0.017 U	1.2 J	0.92 J	0.097 J	0.026 J	0.02 U	0.023 J
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	1.7 U	1.9 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	1.7 U	1.9 U
SW8260	1,2-DICHLOROBENZENE	ug/kg	1.8 U	1.7 U	1.2 J	1.8 U	1.7 U	1.8 U	1.7 U	1.9 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	1.7 U	1.9 U
SW8260	1,3-DICHLOROBENZENE	ug/kg	1.8 U	1.7 U	5.7	1.8 U	1.7 U	1.8 U	1.7 U	1.9 U
SW8260	1,4-DICHLOROBENZENE	ug/kg	1.8 U	1.7 U	54.2	1.8 U	1.7 U	1.8 U	1.7 U	1.9 U
SW8260	BENZENE	ug/kg	1.8 U	1.7 U	0.68 J	1.8 U	1.7 U	1.8 U	1.7 U	1.9 U
SW8260	CHLOROBENZENE	ug/kg	1.8 U	1.7 U	265	18.6	3.4	0.82 J	1.7 U	1.9 U
SW8260	ETHYLBENZENE	ug/kg	1.8 U	1.7 U	1.7 U	1.8 U	1.7 U	1.8 U	1.7 U	1.9 U
SW8260	NAPHTHALENE	ug/kg	9.1 U	8.6 U	8.7 U	9 U	8.7 U	9.2 U	8.5 U	9.4 U
SW8260	O-XYLENE	ug/kg	1.8 U	1.7 U	7.3	1.8 U	1.7 U	1.8 U	1.7 U	1.9 U
SW8260	TOLUENE	ug/kg	1.8 U	1.7 U	0.68 J	0.61 J	1.7 U	1.1 J	1 J	1.9 U
SW8260	XYLENES, M & P	ug/kg	1.8 U	1.7 U	11.8	1.8 U	1.7 U	1.8 U	1.7 U	1.9 U
SW8260	XYLENES, TOTAL	ug/kg	1.8 U	1.7 U	19.1	1.8 U	1.7 U	1.8 U	1.7 U	1.9 U
SW9045	pH	S.U.	7.53	7.58	8.1	7.86	7.67	7.9	7.78	7.66

**Table A3-2  
Validated Porewater Sediment Analytical Data**

Location	OL-VC-40283	OL-VC-40283	OL-VC-40283	OL-VC-40283	OL-VC-40283	OL-VC-40284	OL-VC-40284	OL-VC-40284	OL-VC-40284
Sample Depth	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	10.00-12.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft
Field Sample ID	OL-1275-08	OL-1275-09	OL-1275-10	OL-1275-11	OL-1275-12	OL-1275-13	OL-1275-14	OL-1275-15	OL-1275-16
Sample Date	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010	6/9/2010
SDG	JA48639	JA48639	JA48639	JA48639	JA48639	JA48639	JA48639	JA48639	JA48639
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water
Method	Parameter Name	Units							
ASTM D1429-86	SPECIFIC GRAVITY	g/cc	1.5 J	1.4	1.5	1.5 J	1.5	1.4	1.5
ASTM D4643-00	SOLIDS, PERCENT	%							
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	6320 J	12600	12600	23500 J	68400	3460	6560
SM2540G	SOLIDS, PERCENT	%	48	58.7	54	49.5	52.1	57.6	51.7
SW7471	MERCURY	mg/kg	78.6 J	53 J	22.3 J	5.4 J	0.65 J	19.2 J	83.3 J
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	2.2 UJ	1.8 U	1.9 U	2.2 UJ	2 U	120 U	2 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	1.1 J	0.85 J	0.69 J	2.2 UJ	2 U	120 U	1.3 J
SW8260	1,2-DICHLOROBENZENE	ug/kg	14.5 J	4.4	2.3	2.2 J	2 U	120 U	4.3
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	2.4 J	4.6	5.1	2.2 UJ	2 U	120 U	5.5
SW8260	1,3-DICHLOROBENZENE	ug/kg	25.9 J	38.1	3.5	2.2 UJ	2 U	37.9 J	12.4
SW8260	1,4-DICHLOROBENZENE	ug/kg	8.6 J	5.9	1.5 J	2.1 J	2 U	51.9 J	9.1
SW8260	BENZENE	ug/kg	5.9 J	1 J	3.3	2.1 J	0.78 J	120 U	3.8
SW8260	CHLOROBENZENE	ug/kg	65.7 J	34	6.2	2.9 J	1.1 J	195	82.2
SW8260	ETHYLBENZENE	ug/kg	48.1 J	19.6	14.7	9 J	2 U	1480	176
SW8260	NAPHTHALENE	ug/kg	2.8 J	3.1 J	2.2 J	11 UJ	9.8 U	620 U	2.1 J
SW8260	O-XYLENE	ug/kg	91.2 J	53.1	43.1	26.8 J	2 U	1940	281
SW8260	TOLUENE	ug/kg	5.6 J	2.2	3.1	2.1 J	0.65 J	120 U	4.1
SW8260	XYLENES, M & P	ug/kg	666 J	260	276	50.2 J	2	18900	585
SW8260	XYLENES, TOTAL	ug/kg	757 J	313	319	77 J	2.7	20800	866
SW9045	pH	S.U.	9.12 J	8.62	9.09	8.72 J	8.09	8.97	8.8

**Table A3-2  
Validated Porewater Sediment Analytical Data**

Location	OL-VC-40284	OL-VC-40284	OL-VC-40285	OL-VC-40285	OL-VC-40285	OL-VC-40285	OL-VC-40285	OL-VC-40285	OL-VC-40285	OL-VC-40286
Sample Depth	8.00-10.00 Ft	10.00-12.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	10.00-12.00 Ft	0.00-2.00 Ft	
Field Sample ID	OL-1275-17	OL-1275-18	OL-1268-06	OL-1268-07	OL-1268-08	OL-1268-09	OL-1268-10	OL-1268-11	OL-1268-12	
Sample Date	6/9/2010	6/9/2010	6/8/2010	6/8/2010	6/8/2010	6/8/2010	6/8/2010	6/8/2010	6/8/2010	
SDG	JA48639	JA48639	JA48494	JA48494	JA48494	JA48494	JA48494	JA48494	JA48494	
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units								
ASTM D1429-86	SPECIFIC GRAVITY	g/cc	1.4 J	1.4	1.7	1.6	1.6	1.5	1.5	1.6
ASTM D4643-00	SOLIDS, PERCENT	%								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	40400 J	48400	10600	14100	4680	5270	4810	15300
SM2540G	SOLIDS, PERCENT	%	41.3	52.7	62.8	63.8	58.9	61.9	55.7	51.9
SW7471	MERCURY	mg/kg	3.5 J	0.57 J	95	96.2	2.3	1.2	0.086	0.085
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	2.5 UJ	2.1 U	1.8 U	1.7 U	1.9 U	1.8 U	2 U	2.1 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	2.5 UJ	2.1 U	5.2	1.4 J	1.9 U	1.8 U	2 U	2.1 U
SW8260	1,2-DICHLOROBENZENE	ug/kg	1.6 J	0.67 J	1.7 J	0.49 J	1.9 U	1.8 U	2 U	2.1 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	2.5 UJ	2.1 U	128	41.7	2.7	0.93 J	2 U	2.1 U
SW8260	1,3-DICHLOROBENZENE	ug/kg	2.5 UJ	2.1 U	117	7.5	1.5 J	0.59 J	2 U	2.1 U
SW8260	1,4-DICHLOROBENZENE	ug/kg	2.4 J	1.4 J	9.2	1.4 J	1.9 U	1.8 U	2 U	2.1 U
SW8260	BENZENE	ug/kg	4.2 J	3.9	1.8 U	1.7 U	1.9 U	1.8 U	2 U	2.1 U
SW8260	CHLOROBENZENE	ug/kg	4.9 J	3.6	0.99 J	1.7 U	1.9 U	1.8 U	2 U	2.1 U
SW8260	ETHYLBENZENE	ug/kg	2 J	2.1 U	20.9	5.6	1.9 U	1.8 U	2 U	2.1 U
SW8260	NAPHTHALENE	ug/kg	12 UJ	11 U	2.1 J	8.7 U	9.4 U	9 U	10 U	11 U
SW8260	O-XYLENE	ug/kg	5.1 J	1.2 J	45.5	3.5	1.9 U	1.8 U	2 U	2.1 U
SW8260	TOLUENE	ug/kg	2.9 J	1.7 J	1.8	0.88 J	1.9 U	1.8 U	2 U	2.1 U
SW8260	XYLENES, M & P	ug/kg	19.8 J	5.9	209	13.3	2.4	1.3 J	2 U	2.1 U
SW8260	XYLENES, TOTAL	ug/kg	24.8 J	7.1	254	16.8	3.1	1.3 J	2 U	2.1 U
SW9045	pH	S.U.	9.55 J	9.09	7.85	8.01	7.54	7.35	7.57	7.54

**Table A3-2  
Validated Porewater Sediment Analytical Data**

Location	OL-VC-40286	OL-VC-40286	OL-VC-40286	OL-VC-40286	OL-VC-40286	OL-VC-40308	OL-VC-40308	OL-VC-40308	OL-VC-40308		
Sample Depth	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	10.00-12.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft		
Field Sample ID	OL-1268-13	OL-1268-14	OL-1268-15	OL-1268-16	OL-1268-17	OL-1201-06	OL-1201-07	OL-1201-08	OL-1201-09		
Sample Date	6/8/2010	6/8/2010	6/8/2010	6/8/2010	6/8/2010	5/21/2010	5/21/2010	5/21/2010	5/21/2010		
SDG	JA48494	JA48494	JA48494	JA48494	JA48494	JA47131	JA47131	JA47131	JA47131		
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units									
ASTM D1429-86	SPECIFIC GRAVITY	g/cc	1.6	1.6	1.5	1.8	1.8	1.4 J	1.4 J	1.4 J	1.3 J
ASTM D4643-00	SOLIDS, PERCENT	%									
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	14200	5650	8810	6570	4790	19200 J	19200 J	19200 J	84000 J
SM2540G	SOLIDS, PERCENT	%	62.1	56.8	53.3	70.4	73.7	43.1	45.8	47.2	42.5
SW7471	MERCURY	mg/kg	0.05 J	0.02 U	0.02 U	0.021 J	0.033 J	0.046 J	53.5 J	64.7 J	2.9 J
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	1.8 U	2 U	2.1 U	1.6 U	1.5 U	2.6 UJ	2.2 UJ	2.1 UJ	2.3 UJ
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	1.8 U	2 U	2.1 U	1.6 U	1.5 U	2.6 UJ	2.2 UJ	2.1 UJ	2.3 UJ
SW8260	1,2-DICHLOROBENZENE	ug/kg	1.8 U	2 U	2.1 U	1.6 U	1.5 U	2.6 UJ	3.2 J	0.85 J	2.3 UJ
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	1.8 U	2 U	2.1 U	1.6 U	1.5 U	2.6 UJ	2.2 UJ	0.77 J	2.3 UJ
SW8260	1,3-DICHLOROBENZENE	ug/kg	0.63 J	2 U	2.1 U	1.6 U	1.5 U	10 J	12.3 J	13.1 J	2.3 UJ
SW8260	1,4-DICHLOROBENZENE	ug/kg	1.8 U	2 U	2.1 U	1.6 U	1.5 U	4.9 J	4.7 J	2.4 J	2.3 UJ
SW8260	BENZENE	ug/kg	1.8 U	2 U	2.1 U	1.6 U	1.5 U	1.3 J	3.9 J	3.3 J	2.9 J
SW8260	CHLOROBENZENE	ug/kg	1.8 U	2 U	2.1 U	1.6 U	1.5 U	12.1 J	8.6 J	6.3 J	2.3 UJ
SW8260	ETHYLBENZENE	ug/kg	1.8 U	2 U	2.1 U	1.6 U	1.5 U	2.6 UJ	1.1 J	2.1 UJ	2.3 UJ
SW8260	NAPHTHALENE	ug/kg	8.9 U	9.8 U	10 U	7.9 U	7.4 U	13 UJ	11 UJ	11 UJ	12 UJ
SW8260	O-XYLENE	ug/kg	1.8 U	2 U	2.1 U	1.6 U	1.5 U	2.6 UJ	2.1 J	1.6 J	2.3 UJ
SW8260	TOLUENE	ug/kg	1.8 U	2 U	2.1 U	1.6 U	0.78 J	2.6 UJ	0.94 J	0.88 J	2.3 UJ
SW8260	XYLENES, M & P	ug/kg	1.8 U	2 U	2.1 U	1.6 U	1.5 U	4.4 J	13 J	5.6 J	2.3 UJ
SW8260	XYLENES, TOTAL	ug/kg	1.8 U	2 U	2.1 U	1.6 U	1.5 U	5.4 J	15.1 J	7.1 J	2.3 UJ
SW9045	pH	S.U.	7.58	7.57	7.37	7.94	8.02	8.18 J	8.11 J	8.14 J	7.73 J

**Table A3-2  
Validated Porewater Sediment Analytical Data**

Location	OL-VC-40308	OL-VC-40309	OL-VC-40309	OL-VC-40309	OL-VC-40309	OL-VC-40309	OL-VC-40310	OL-VC-40310	OL-VC-40310		
Sample Depth	8.00-10.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft		
Field Sample ID	OL-1201-10	OL-1079-11	OL-1079-12	OL-1079-13	OL-1079-14	OL-1079-15	OL-1202-11	OL-1202-12	OL-1202-13		
Sample Date	5/21/2010	5/21/2010	5/21/2010	5/21/2010	5/21/2010	5/21/2010	5/24/2010	5/24/2010	5/24/2010		
SDG	JA47131	JA46884	JA46884	JA46884	JA46884	JA46884	JA47081	JA47081	JA47081		
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units									
ASTM D1429-86	SPECIFIC GRAVITY	g/cc	1.5	1.6	1.5	1.5 J	1.4 J	1.5	1.5	1.7	1.6
ASTM D4643-00	SOLIDS, PERCENT	%									
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	22400	3200 J	8790 J	6380 J	9740 J	10200 J	59300	13600	9730
SM2540G	SOLIDS, PERCENT	%	51.2	53.1	53.6	49.6	45.4	54.5	58.4	62.6	60.6
SW7471	MERCURY	mg/kg	0.79	76.7 J	66.6 J	48 J	61.5 J	0.16 J	13.1	0.016 J	0.34
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	2 U	2 U	130 U	9.2 UJ	1.5 J	2.1 U	1.8 U	1.8 U	1.8 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	2 U	2.5	175	16.6 J	1.9 J	2.1 U	1.8 U	1.8 U	1.8 U
SW8260	1,2-DICHLOROBENZENE	ug/kg	2 U	65.5	431	18.1 J	3.7 J	2.1 U	1.8 U	1.8 U	1.8 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	2 U	4.5	1610	71.6 J	5.2 J	2.1 U	1.8 UJ	1.8 U	1.8 U
SW8260	1,3-DICHLOROBENZENE	ug/kg	2 U	20.6	497	35.2 J	3.8 J	5.5	1.8 U	1.8 U	1.8 U
SW8260	1,4-DICHLOROBENZENE	ug/kg	2 U	27.2	189	13.2 J	1.5 J	1 J	1.8 U	1.8 U	1.8 U
SW8260	BENZENE	ug/kg	2 U	7.9	130 U	15.4 J	16.9 J	2.1	1.8 U	5.8	1.8 U
SW8260	CHLOROBENZENE	ug/kg	2 U	42.4	101 J	8.8 J	2.4 J	1.2 J	1.8 U	1.8 U	1.8 U
SW8260	ETHYLBENZENE	ug/kg	2 U	269	2850	280 J	58.5 J	1.3 J	1.8 U	1.8 U	1.8 U
SW8260	NAPHTHALENE	ug/kg	10 U	2.6 J	670 U	12.5 J	2.4 J	10 U	9.1 U	1.8 J	8.8 U
SW8260	O-XYLENE	ug/kg	2 U	838	4340	499 J	149 J	3.7	1.8 U	1.8 U	1.8 U
SW8260	TOLUENE	ug/kg	2 U	12.2	89.5 J	20.8 J	11.8 J	0.65 J	1.8 U	1.8 U	1.8 U
SW8260	XYLENES, M & P	ug/kg	2 U	7470	33200	2930 J	646 J	18.2	1.8 U	1.8 U	1.8 U
SW8260	XYLENES, TOTAL	ug/kg	2 U	8310	37600	3430 J	795 J	21.9	1.8 U	1.8 U	1.8 U
SW9045	pH	S.U.	7.88	9.55	9.31	9.21 J	9 J	8.37	7.33	7.27	7.12

**Table A3-2  
Validated Porewater Sediment Analytical Data**

Location	OL-VC-40310	OL-VC-40311	OL-VC-40311	OL-VC-40311	OL-VC-40311	OL-VC-40311	OL-VC-40312	OL-VC-40312	OL-VC-40312
Sample Depth	6.00-8.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft
Field Sample ID	OL-1202-14	OL-1203-01	OL-1203-02	OL-1203-03	OL-1203-04	OL-1203-05	OL-1203-06	OL-1203-07	OL-1203-08
Sample Date	5/24/2010	5/24/2010	5/24/2010	5/24/2010	5/24/2010	5/24/2010	5/24/2010	5/24/2010	5/24/2010
SDG	JA47081	JA47315	JA47315	JA47315	JA47315	JA47315	JA47315	JA47315	JA47315
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water
Method	Parameter Name	Units							
ASTM D1429-86	SPECIFIC GRAVITY	g/cc	1.6	1.6	1.7	1.6	1.6	1.6	1.7
ASTM D4643-00	SOLIDS, PERCENT	%		60.7	63.3	61	60		
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	6730	12700	7930	10200	8240	7340	17400
SM2540G	SOLIDS, PERCENT	%	61.7				79.4	61.9	64.7
SW7471	MERCURY	mg/kg	0.017 U	0.075	0.019 U	0.019 U	0.018 U	0.02 J	0.041 J
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	1.8 U	1.8 U	1.6 U	1.7 U	1.8 U	1.4 U	1.6 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	1.8 U	1.8 U	1.6 U	1.7 U	1.8 U	1.4 U	1.6 U
SW8260	1,2-DICHLOROBENZENE	ug/kg	1.8 U	1.8 U	1.6 U	1.7 U	1.8 U	1.4 U	1.6 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	1.8 U	1.8 U	1.6 U	1.7 U	1.8 U	1.4 U	1.6 U
SW8260	1,3-DICHLOROBENZENE	ug/kg	1.8 U	1.8 U	1.6 U	1.7 U	1.8 U	1.4 U	1.6 U
SW8260	1,4-DICHLOROBENZENE	ug/kg	1.8 U	1.8 U	1.6 U	1.7 U	1.8 U	1.4 U	1.6 U
SW8260	BENZENE	ug/kg	1.8 U	11.5	2.4	46.5	2.3	2.8	124 J
SW8260	CHLOROBENZENE	ug/kg	1.8 U	1.8 U	1.6 U	1.7 U	1.8 U	1.4 U	1.6 U
SW8260	ETHYLBENZENE	ug/kg	1.8 U	1.8 U	1.6 U	1.7 U	1.8 U	1.4 U	1.6 U
SW8260	NAPHTHALENE	ug/kg	8.8 U	9.2 U	7.9 U	8.5 U	9.1 U	6.8 U	8.2 U
SW8260	O-XYLENE	ug/kg	1.8 U	1.8 U	1.6 U	1.7 U	1.8 U	1.4 U	1.6 U
SW8260	TOLUENE	ug/kg	1.8 U	1.8 U	1.6 U	1.7 U	1.8 U	1.4 U	1.6 U
SW8260	XYLENES, M & P	ug/kg	1.8 U	1.8 U	1.6 U	1.7 U	1.8 U	1.4 U	1.6 U
SW8260	XYLENES, TOTAL	ug/kg	1.8 U	1.8 U	1.6 U	1.7 U	1.8 U	1.4 U	1.6 U
SW9045	pH	S.U.	7.1	7.16	6.93	7.03	7.3	7.23	7.17

**Table A3-2  
Validated Porewater Sediment Analytical Data**

Location	OL-VC-40312	OL-VC-40312	OL-VC-60312	OL-VC-60312	OL-VC-60312	OL-VC-60312	OL-VC-60312	OL-VC-60312	OL-VC-60313	OL-VC-60313
Sample Depth	6.00-8.00 Ft	8.00-10.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	
Field Sample ID	OL-1203-09	OL-1203-10	OL-1251-01	OL-1251-02	OL-1251-03	OL-1251-04	OL-1251-05	OL-1251-06	OL-1251-07	
Sample Date	5/24/2010	5/24/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	
SDG	JA47315	JA47315	JA48331	JA48331	JA48331	JA48331	JA48331	JA48331	JA48331	
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units								
ASTM D1429-86	SPECIFIC GRAVITY	g/cc	1.7	1.6	1.6	1.7	1.5	1.5	1.6	1.5
ASTM D4643-00	SOLIDS, PERCENT	%								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	20600	46400	21200	5680	15600	13100	9660	30300
SM2540G	SOLIDS, PERCENT	%	65.5	63.9	59.5	71.8	60.8	61.6	62.1	57.2
SW7471	MERCURY	mg/kg	0.017 U	0.018 U	0.12	0.016 J	0.018 U	0.021 J	0.018 U	0.38
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	1.6 U	1.6 U	1.8 U	1.4 U	1.7 U	1.7 U	1.7 U	1.9 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	1.6 U	1.6 U	1.8 U	1.4 U	1.7 U	1.7 U	1.7 U	1.9 U
SW8260	1,2-DICHLOROBENZENE	ug/kg	1.6 U	1.6 U	1.8 U	1.4 U	1.7 U	1.7 U	1.7 U	1.9 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	1.6 U	1.6 U	1.8 U	1.4 U	1.7 U	1.7 U	1.7 U	1.9 U
SW8260	1,3-DICHLOROBENZENE	ug/kg	1.6 U	1.6 U	1.8 U	1.4 U	1.7 U	1.7 U	1.7 U	1.9 U
SW8260	1,4-DICHLOROBENZENE	ug/kg	1.6 U	1.6 U	1.8 U	1.4 U	1.7 U	1.7 U	1.7 U	1.9 U
SW8260	BENZENE	ug/kg	0.76 J	1.6 U	1.8 U	1.4 U	1.7 U	1.7 U	1.7 U	1.9 U
SW8260	CHLOROBENZENE	ug/kg	1.6 U	1.6 U	1.8 U	1.4 U	1.7 U	1.7 U	1.7 U	1.9 U
SW8260	ETHYLBENZENE	ug/kg	1.6 U	1.6 U	1.8 U	1.4 U	1.7 U	1.7 U	1.7 U	9.2
SW8260	NAPHTHALENE	ug/kg	7.8 U	7.8 U	3 J	6.1 J	8.7 U	8.5 U	8.4 U	137
SW8260	O-XYLENE	ug/kg	1.6 U	1.6 U	2.5	1.4 U	1.7 U	1.7 U	1.7 U	6.5
SW8260	TOLUENE	ug/kg	1.6 U	1.6 U	1.8 U	1.4 U	0.57 J	1.7 U	1.7 U	1.4 J
SW8260	XYLENES, M & P	ug/kg	1.6 U	1.6 U	1.8 U	1.4 U	1.7 U	1.7 U	1.7 U	6.6
SW8260	XYLENES, TOTAL	ug/kg	1.6 U	1.6 U	3.1	1.4 U	1.7 U	1.7 U	1.7 U	13
SW9045	pH	S.U.	7.05	7.12	7.77	8.07	7.87	7.63	7.52	7.6

**Table A3-2  
Validated Porewater Sediment Analytical Data**

Location	OL-VC-60313	OL-VC-60313	OL-VC-60313	OL-VC-60314	OL-VC-60314	OL-VC-60314	OL-VC-60314	OL-VC-60314	OL-VC-60314	OL-VC-60314
Sample Depth	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	0.00-2.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	
Field Sample ID	OL-1251-08	OL-1251-09	OL-1251-10	OL-1268-18	OL-1070-16	OL-1070-17	OL-1070-18	OL-1070-19	OL-1070-20	
Sample Date	6/4/2010	6/4/2010	6/4/2010	6/8/2010	5/12/2010	5/12/2010	5/12/2010	5/12/2010	5/12/2010	
SDG	JA48331	JA48331	JA48331	JA48494	JA46550	JA46550	JA46550	JA46550	JA46550	
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units								
ASTM D1429-86	SPECIFIC GRAVITY	g/cc	1.5	1.6	1.6	1.7	1.5	1.5	1.5	1.4
ASTM D4643-00	SOLIDS, PERCENT	%								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	9740	7350	8840	2930	7080	12400	10800	16600
SM2540G	SOLIDS, PERCENT	%	53.4	64.2	61.2	70.7	57.9	58	52.2	54.1
SW7471	MERCURY	mg/kg	0.021 U	0.017 U	0.017 U	0.091	0.018 U	0.018 U	0.021 U	0.021 U
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	2.1 U	1.4 U	1.8 U	1.5 U	1.9 U	1.8 U	2.1 U	2 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	2.1 U	1.4 U	1.8 U	1.5 U	1.9 U	1.8 U	2.1 U	2 U
SW8260	1,2-DICHLOROBENZENE	ug/kg	2.1 U	1.4 U	1.8 U	1.5 U	1.9 U	1.8 U	2.1 U	2 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	2.1 U	1.4 U	1.8 U	1.5 U	1.9 U	1.8 U	2.1 U	2 U
SW8260	1,3-DICHLOROBENZENE	ug/kg	2.1 U	1.4 U	1.8 U	1.5 U	1.9 U	1.8 U	2.1 U	2 U
SW8260	1,4-DICHLOROBENZENE	ug/kg	2.1 U	1.4 U	1.8 U	1.5 U	1.9 U	1.8 U	2.1 U	2 U
SW8260	BENZENE	ug/kg	2.1 U	1.4 U	1.8 U	1.5 U	1.9 U	1.8 U	2.1 U	2 U
SW8260	CHLOROBENZENE	ug/kg	2.1 U	1.4 U	1.8 U	1.5 U	1.9 U	1.8 U	2.1 U	2 U
SW8260	ETHYLBENZENE	ug/kg	2.1 U	1.4 U	1.8 U	1.5 U	1.9 U	1.8 U	2.1 U	2 U
SW8260	NAPHTHALENE	ug/kg	10 U	7 U	9.1 U	7.5 U	9.4 U	9.2 U	10 U	9.8 U
SW8260	O-XYLENE	ug/kg	2.1 U	1.4 U	1.8 U	1.5 U	1.9 U	1.8 U	2.1 U	2 U
SW8260	TOLUENE	ug/kg	0.69 J	0.52 J	0.67 J	0.52 J	1.9 U	1.8 U	2.1 U	2 U
SW8260	XYLENES, M & P	ug/kg	2.1 U	1.4 U	1.8 U	1.5 U	1.9 U	1.8 U	2.1 U	2 U
SW8260	XYLENES, TOTAL	ug/kg	2.1 U	1.4 U	1.8 U	1.5 U	1.9 U	1.8 U	2.1 U	2 U
SW9045	pH	S.U.	7.07	7.46	4.01	8.04	7.21	7.49	7.14	7.21



**Table A3-2  
Validated Porewater Sediment Analytical Data**

Location	OL-VC-60315	OL-VC-60315	OL-VC-60315	OL-VC-60315	OL-VC-60315	OL-VC-60316	OL-VC-60316	OL-VC-60316	OL-VC-60316
Sample Depth	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-9.40 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft
Field Sample ID	OL-1077-01	OL-1077-02	OL-1077-03	OL-1077-04	OL-1077-05	OL-1073-16	OL-1073-17	OL-1073-18	OL-1073-19
Sample Date	5/20/2010	5/20/2010	5/20/2010	5/20/2010	5/20/2010	5/18/2010	5/18/2010	5/18/2010	5/18/2010
SDG	JA46717	JA46717	JA46717	JA46717	JA46717	JA46716	JA46716	JA46716	JA46716
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water
Method	Parameter Name	Units							
ASTM D1429-86	SPECIFIC GRAVITY	g/cc	1.9	1.7	1.7	1.7	1.6	1.7	1.6
ASTM D4643-00	SOLIDS, PERCENT	%							
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	1890	15200	11900	19200	22100	18900 J	14300 J
SM2540G	SOLIDS, PERCENT	%	78	65.1	67.9	62.1	57.9	64.9	58.3
SW7471	MERCURY	mg/kg	0.013 U	0.017 J	0.015 U	0.018 U	0.019 U	0.13	0.019 U
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	1.3 U	1.7 U	1.5 U	1.6 U	1.9 U	7 U	1.7 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	1.3 U	1.7 U	1.5 U	1.6 U	1.9 U	7 U	1.7 U
SW8260	1,2-DICHLOROBENZENE	ug/kg	1.3 U	1.7 U	1.5 U	1.6 U	1.9 U	7 U	1.7 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	1.3 U	1.7 U	1.5 U	1.6 U	1.9 U	7 U	1.7 U
SW8260	1,3-DICHLOROBENZENE	ug/kg	1.3 U	1.7 U	1.5 U	1.6 U	1.9 U	7 U	1.7 U
SW8260	1,4-DICHLOROBENZENE	ug/kg	1.3 U	1.7 U	1.5 U	1.6 U	1.9 U	7 U	1.7 U
SW8260	BENZENE	ug/kg	1.3 U	1.7 U	1.5 U	1.6 U	1.9 U	7 U	1.7 U
SW8260	CHLOROBENZENE	ug/kg	1.3 U	1.7 U	1.5 U	1.6 U	1.9 U	7 U	1.7 U
SW8260	ETHYLBENZENE	ug/kg	1.3 U	1.7 U	1.5 U	1.6 U	1.9 U	45.1	1.7 U
SW8260	NAPHTHALENE	ug/kg	6.5 U	8.5 U	7.7 U	8.1 U	9.6 U	1410	11.6
SW8260	O-XYLENE	ug/kg	1.3 U	1.7 U	1.5 U	1.6 U	1.9 U	29.4	1.7 U
SW8260	TOLUENE	ug/kg	1.3 U	0.61 J	1.5 U	0.48 J	1.9 U	7 U	1.7 U
SW8260	XYLENES, M & P	ug/kg	1.3 U	1.7 U	1.5 U	1.6 U	1.9 U	3.3 J	1.7 U
SW8260	XYLENES, TOTAL	ug/kg	1.3 U	1.7 U	1.5 U	1.6 U	1.9 U	32.8	1.7 U
SW9045	pH	S.U.	8.01	7.49	7.47	7.26	7.1	7.26	7.08
									7.35
									7.06

**Table A3-2  
Validated Porewater Sediment Analytical Data**

Location	OL-VC-60316	OL-VC-60317	OL-VC-60317	OL-VC-60317	OL-VC-60317	OL-VC-60317	OL-VC-60317	OL-VC-60318	OL-VC-60318	OL-VC-60318	
Sample Depth	8.00-10.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	4.00-6.00 Ft	
Field Sample ID	OL-1073-20	OL-1070-06	OL-1070-07	OL-1070-08	OL-1070-09	OL-1070-10	OL-1070-11	OL-1070-12	OL-1070-13	OL-1070-13	
Sample Date	5/18/2010	5/12/2010	5/12/2010	5/12/2010	5/12/2010	5/12/2010	5/12/2010	5/12/2010	5/12/2010	5/12/2010	
SDG	JA46716	JA46550	JA46550	JA46550	JA46550	JA46550	JA46550	JA46550	JA46550	JA46550	
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units									
ASTM D1429-86	SPECIFIC GRAVITY	g/cc	1.5	1.3 J	1.4 J	1.5	1.5	1.5	1.4	1.3 J	1.5
ASTM D4643-00	SOLIDS, PERCENT	%									
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	20500 J	63900 J	67300 J	37100	52500	31600	41800	60400 J	45600
SM2540G	SOLIDS, PERCENT	%	56.8	39.2	47.2	56.9	55.1	56.2	56.2	44.9	55.2
SW7471	MERCURY	mg/kg	0.018 U	10.4 J	1.9 J	2.8	4.9	2.1	4.4	10.8 J	2.4
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	2 U	210 UJ	4.2 UJ	130 U	130 U	130 U	2 U	14 UJ	130 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	2 U	536 J	4.2 UJ	130 U	130 U	130 U	2 U	17.2 J	130 U
SW8260	1,2-DICHLOROBENZENE	ug/kg	2 U	1050 J	2.3 J	130 U	130 U	130 U	11.3	63.4 J	130 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	2 U	533 J	4.2 UJ	130 U	130 U	130 U	2.1	38.5 J	130 U
SW8260	1,3-DICHLOROBENZENE	ug/kg	2 U	519 J	4.2 UJ	130 U	130 U	130 U	9.4	49.1 J	130 U
SW8260	1,4-DICHLOROBENZENE	ug/kg	2 U	2640 J	3.7 J	130 U	130 U	130 U	31	137 J	130 U
SW8260	BENZENE	ug/kg	2 U	178 J	4.9 J	130 U	130 U	130 U	18	150 J	91.5 J
SW8260	CHLOROBENZENE	ug/kg	2 U	2700 J	5.3 J	130 U	130 U	130 U	76.4	715 J	130 U
SW8260	ETHYLBENZENE	ug/kg	2 U	210 UJ	4.2 UJ	66.6 J	220	322	2 U	11.1 J	1050
SW8260	NAPHTHALENE	ug/kg	9.8 U	166 J	18.7 J	10100	14500	19400	3.1 J	394 J	114000
SW8260	O-XYLENE	ug/kg	2 U	392 J	25.7 J	140	207	279	2.7	209 J	823
SW8260	TOLUENE	ug/kg	2 U	210 UJ	4.2 UJ	100 J	176	112 J	1.3 J	23.7 J	148
SW8260	XYLENES, M & P	ug/kg	2 U	574 J	6.6 J	75.4 J	258	406	3.2	102 J	447
SW8260	XYLENES, TOTAL	ug/kg	2 U	966 J	32.3 J	216	464	685	5.9	310 J	1270
SW9045	pH	S.U.	7.21	7.65 J	7.27 J	7.82	7.64	7.75	7.62	7.8 J	7.79

**Table A3-2  
Validated Porewater Sediment Analytical Data**

Method	Parameter Name	Units		
ASTM D1429-86	SPECIFIC GRAVITY	g/cc	1.5	1.4
ASTM D4643-00	SOLIDS, PERCENT	%		
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	49800	56500
SM2540G	SOLIDS, PERCENT	%	55.5	50.1
SW7471	MERCURY	mg/kg	4.9	1.6
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	130 U	150 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	130 U	150 U
SW8260	1,2-DICHLOROBENZENE	ug/kg	130 U	150 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	130 U	150 U
SW8260	1,3-DICHLOROBENZENE	ug/kg	130 U	150 U
SW8260	1,4-DICHLOROBENZENE	ug/kg	130 U	150 U
SW8260	BENZENE	ug/kg	130 U	150 U
SW8260	CHLOROBENZENE	ug/kg	130 U	150 U
SW8260	ETHYLBENZENE	ug/kg	265	163
SW8260	NAPHTHALENE	ug/kg	17500	12600
SW8260	O-XYLENE	ug/kg	258	137 J
SW8260	TOLUENE	ug/kg	129 J	78.2 J
SW8260	XYLENES, M & P	ug/kg	294	199
SW8260	XYLENES, TOTAL	ug/kg	552	335
SW9045	pH	S.U.	7.53	7.54

Location	OL-VC-60318	OL-VC-60318
Sample Depth	6.00-8.00 Ft	8.00-10.00 Ft
Field Sample ID	OL-1070-14	OL-1070-15
Sample Date	5/12/2010	5/12/2010
SDG	JA46550	JA46550
Matrix	SOIL	SOIL
Sample Purpose	Regular sample	Regular sample
Sample Type	Pore water	Pore water



**Table A3-2  
Validated Porewater Sediment Analytical Data**

Location	OL-VC-60320	OL-VC-60320	OL-VC-60321	OL-VC-60321	OL-VC-60321	OL-VC-60321	OL-VC-60321	OL-VC-60321	OL-VC-60322	OL-VC-60322	
Sample Depth	6.00-8.00 Ft	8.00-10.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft		
Field Sample ID	OL-1072-04	OL-1072-05	OL-1071-01	OL-1071-02	OL-1071-03	OL-1071-04	OL-1071-05	OL-1071-06	OL-1071-07		
Sample Date	5/13/2010	5/13/2010	5/12/2010	5/12/2010	5/12/2010	5/12/2010	5/12/2010	5/12/2010	5/12/2010		
SDG	JA46549	JA46549	JA46551	JA46551	JA46551	JA46551	JA46551	JA46551	JA46551		
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units									
ASTM D1429-86	SPECIFIC GRAVITY	g/cc	1.5	1.5	1.3 J	1.5	1.5	1.4 J	1.4 J	1.3 J	
ASTM D4643-00	SOLIDS, PERCENT	%									
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	41300	20200	47800 J	51200	35700	54100	59500 J	35100 J	77600 J
SM2540G	SOLIDS, PERCENT	%	56	61	43.6	50.6	54.3	54.7	49.9	47.9	42.5
SW7471	MERCURY	mg/kg	1.8	1	2.4 J	1.9	1.9	2.3	4.7 J	1.5 J	6.5 J
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	1.9 U	1.7 U	2.7 UJ	2.4 U	130 U	130 U	150 UJ	2.3 UJ	180 UJ
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	1.9 U	1.7 U	2.7 UJ	2.4 U	130 U	130 U	150 UJ	2.3 UJ	240 J
SW8260	1,2-DICHLOROBENZENE	ug/kg	1.9 U	1.7 U	42.9 J	5.4	130 U	130 U	150 UJ	7.2 J	601 J
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	1.9 U	1.7 U	9 J	1.2 J	130 U	130 U	150 UJ	1.5 J	229 J
SW8260	1,3-DICHLOROBENZENE	ug/kg	1.9 U	1.7 U	35.9 J	4.2	130 U	130 U	150 UJ	8.5 J	438 J
SW8260	1,4-DICHLOROBENZENE	ug/kg	1.9 U	1.7 U	111 J	8.4	48.3 J	130 U	150 UJ	25.8 J	2050 J
SW8260	BENZENE	ug/kg	1.9 U	1.7 U	12.5 J	9.4	85.7 J	74.3 J	111 J	3 J	217 J
SW8260	CHLOROBENZENE	ug/kg	1.9 U	1.7 U	154 J	36.9	130 U	52.4 J	150 UJ	49.5 J	2580 J
SW8260	ETHYLBENZENE	ug/kg	12.7	19.4	1.5 J	1 J	1070	1380	361 J	2.3 UJ	180 UJ
SW8260	NAPHTHALENE	ug/kg	223	895	17.1 J	91.2	19600	125000	16400 J	3.3 J	675 J
SW8260	O-XYLENE	ug/kg	8.8	18.1	8.8 J	17.1	599	897	177 J	3.9 J	907 J
SW8260	TOLUENE	ug/kg	1.1 J	3.1	1.9 J	2.4	183	231	418 J	2.3 UJ	157 J
SW8260	XYLENES, M & P	ug/kg	6.2	14.7	15.7 J	8.4	443	1340	276 J	1.6 J	1360 J
SW8260	XYLENES, TOTAL	ug/kg	15	32.8	24.5 J	25.4	1040	2230	453 J	5.5 J	2270 J
SW9045	pH	S.U.	7.76	7.51	7.68 J	7.69	7.66	7.61	7.43 J	7.48 J	7.5 J

**Table A3-2  
Validated Porewater Sediment Analytical Data**

Location	OL-VC-60322	OL-VC-60322	OL-VC-60322	OL-VC-60323	OL-VC-60323	OL-VC-60323	OL-VC-60323	OL-VC-60323	OL-VC-60323	OL-VC-60324	
Sample Depth	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	0.00-2.00 Ft		
Field Sample ID	OL-1071-08	OL-1071-09	OL-1071-10	OL-1071-11	OL-1071-12	OL-1071-13	OL-1071-14	OL-1071-15	OL-1072-06		
Sample Date	5/12/2010	5/12/2010	5/12/2010	5/12/2010	5/12/2010	5/12/2010	5/12/2010	5/12/2010	5/13/2010		
SDG	JA46551	JA46551	JA46551	JA46551	JA46551	JA46551	JA46551	JA46551	JA46549		
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units									
ASTM D1429-86	SPECIFIC GRAVITY	g/cc	1.4 J	1.4 J	1.3	1.4 J	1.3 J	1.5 J	1.5	1.4	1.3 J
ASTM D4643-00	SOLIDS, PERCENT	%									
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	75600 J	55200 J	43700	75800 J	69300 J	67300 J	76100	39400	78400 J
SM2540G	SOLIDS, PERCENT	%	45.2	48.2	50.1	37.7	45.9	47.3	52.6	51.2	39.7
SW7471	MERCURY	mg/kg	26.6 J	1.9 J	1.7	12.5 J	15.2 J	1.6 J	2.5	2	6.6 J
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	2.5 UJ	160 UJ	150 U	210 UJ	170 UJ	160 UJ	140 U	150 U	200 UJ
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	2.5 UJ	160 UJ	150 U	122 J	170 UJ	160 UJ	140 U	150 U	91.8 J
SW8260	1,2-DICHLOROBENZENE	ug/kg	8.9 J	51.1 J	150 U	564 J	155 J	160 UJ	81.1 J	150 U	441 J
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	4.9 J	160 UJ	150 U	186 J	170 UJ	160 UJ	140 U	150 U	196 J
SW8260	1,3-DICHLOROBENZENE	ug/kg	7.7 J	160 UJ	150 U	393 J	133 J	160 UJ	140 U	150 U	508 J
SW8260	1,4-DICHLOROBENZENE	ug/kg	29 J	132 J	150 U	1790 J	615 J	71.4 J	141	150 U	1380 J
SW8260	BENZENE	ug/kg	10.1 J	112 J	150 U	156 J	170 J	107 J	141	65.5 J	150 J
SW8260	CHLOROBENZENE	ug/kg	19.1 J	160 UJ	150 U	1440 J	255 J	160 UJ	47.1 J	150 U	1080 J
SW8260	ETHYLBENZENE	ug/kg	0.99 J	1200 J	2370	210 UJ	71.9 J	75.6 J	12300	2850	84.7 J
SW8260	NAPHTHALENE	ug/kg	3.5 J	4180 J	57800	266 J	786 J	1630 J	203000	76200	7890 J
SW8260	O-XYLENE	ug/kg	16.8 J	1300 J	1360	460 J	708 J	710 J	6470	1510	614 J
SW8260	TOLUENE	ug/kg	1.7 J	329 J	175	164 J	193 J	125 J	718	159	110 J
SW8260	XYLENES, M & P	ug/kg	15.9 J	686 J	2150	540 J	440 J	217 J	10200	2540	1080 J
SW8260	XYLENES, TOTAL	ug/kg	32.7 J	1990 J	3510	1000 J	1150 J	926 J	16700	4060	1700 J
SW9045	pH	S.U.	7.61 J	7.43 J	7.57	7.62 J	7.6 J	7.52 J	7.55	7.77	7.53 J

**Table A3-2  
Validated Porewater Sediment Analytical Data**

Location	OL-VC-60324	OL-VC-60324	OL-VC-60324	OL-VC-60324	OL-VC-60325	OL-VC-60325	OL-VC-60325	OL-VC-60325	OL-VC-60325	OL-VC-60325
Sample Depth	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	0.00-2.00 Ft	2.00-4.00 Ft	4.00-6.00 Ft	6.00-8.00 Ft	8.00-10.00 Ft	
Field Sample ID	OL-1072-07	OL-1072-08	OL-1072-09	OL-1072-10	OL-1073-11	OL-1073-12	OL-1073-13	OL-1073-14	OL-1073-15	
Sample Date	5/13/2010	5/13/2010	5/13/2010	5/13/2010	5/18/2010	5/18/2010	5/18/2010	5/18/2010	5/18/2010	
SDG	JA46549	JA46549	JA46549	JA46549	JA46716	JA46716	JA46716	JA46716	JA46716	
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units								
ASTM D1429-86	SPECIFIC GRAVITY	g/cc	1.4 J	1.4 J	1.5	1.6	1.3 J	1.3 J	1.3 J	1.4 J
ASTM D4643-00	SOLIDS, PERCENT	%								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	79600 J	83500 J	49700	11000	39400 J	61000 J	76900 J	62800 J
SM2540G	SOLIDS, PERCENT	%	39.8	47.4	54.2	67.5	44.1	42.8	42.8	47.1
SW7471	MERCURY	mg/kg	16.1 J	3.4 J	2.1	0.19	4.3 J	12.5 J	10.9 J	2.9 J
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	200 UJ	160 UJ	670 U	98 U	2.8 UJ	2.9 UJ	180 UJ	2.2 UJ
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	200 UJ	160 UJ	670 U	98 U	2.8 UJ	9.8 J	379 J	2.2 UJ
SW8260	1,2-DICHLOROBENZENE	ug/kg	254 J	52.8 J	670 U	98 U	2.7 J	24.5 J	468 J	2.9 J
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	200 UJ	160 UJ	670 U	98 U	2.8 UJ	20.8 J	238 J	1.4 J
SW8260	1,3-DICHLOROBENZENE	ug/kg	229 J	160 UJ	670 U	98 U	4.3 J	17 J	213 J	1.4 J
SW8260	1,4-DICHLOROBENZENE	ug/kg	1090 J	124 J	670 U	98 U	18.2 J	54.9 J	1260 J	5.2 J
SW8260	BENZENE	ug/kg	128 J	129 J	670 U	98 U	1.8 J	52.3 J	112 J	9.4 J
SW8260	CHLOROBENZENE	ug/kg	371 J	160 UJ	670 U	98 U	48.6 J	343 J	826 J	8.8 J
SW8260	ETHYLBENZENE	ug/kg	88.2 J	9300 J	25900	1320	2.8 UJ	4.5 J	88.3 J	3 J
SW8260	NAPHTHALENE	ug/kg	1040 J	161000 J	333000	48300	5.8 J	9.6 J	273 J	5 J
SW8260	O-XYLENE	ug/kg	1000 J	5250 J	13100	722	2.7 J	16.7 J	405 J	16.2 J
SW8260	TOLUENE	ug/kg	95.4 J	694 J	2360	73.3 J	0.92 J	8.6 J	58.6 J	0.95 J
SW8260	XYLENES, M & P	ug/kg	1100 J	4380 J	24000	1250	3.7 J	23.2 J	838 J	5.9 J
SW8260	XYLENES, TOTAL	ug/kg	2110 J	9630 J	37100	1970	6.4 J	39.9 J	1240 J	22.1 J
SW9045	pH	S.U.	7.47 J	7.48 J	7.77	7.4	7.4 J	7.58 J	7.48 J	7.5 J





**Table A3-2**  
**Validated Porewater Sediment Analytical Data**

Method	Parameter Name	Units	
ASTM D1429-86	SPECIFIC GRAVITY	g/cc	1.6
ASTM D4643-00	SOLIDS, PERCENT	%	
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	38300 J
SM2540G	SOLIDS, PERCENT	%	64.3
SW7471	MERCURY	mg/kg	1.2
SW8260	1,2,3-TRICHLOROBENZENE	ug/kg	520 U
SW8260	1,2,4-TRICHLOROBENZENE	ug/kg	520 U
SW8260	1,2-DICHLOROBENZENE	ug/kg	520 U
SW8260	1,3,5-TRICHLOROBENZENE	ug/kg	520 U
SW8260	1,3-DICHLOROBENZENE	ug/kg	520 U
SW8260	1,4-DICHLOROBENZENE	ug/kg	520 U
SW8260	BENZENE	ug/kg	520 U
SW8260	CHLOROBENZENE	ug/kg	520 U
SW8260	ETHYLBENZENE	ug/kg	8210
SW8260	NAPHTHALENE	ug/kg	181000
SW8260	O-XYLENE	ug/kg	4130
SW8260	TOLUENE	ug/kg	489 J
SW8260	XYLENES, M & P	ug/kg	4620
SW8260	XYLENES, TOTAL	ug/kg	8750
SW9045	pH	S.U.	7.76

Location	OL-VC-60327
Sample Depth	8.00-10.00 Ft
Field Sample ID	OL-1073-10
Sample Date	5/17/2010
SDG	JA46716
Matrix	SOIL
Sample Purpose	Regular sample
Sample Type	Pore water

**ATTACHMENT A-4**

**VALIDATED LABORATORY DATA FOR GROUNDWATER  
VIBRACORE SAMPLES**

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-20201	OL-VC-20202	OL-VC-20202	OL-VC-20202	OL-VC-20202	OL-VC-20202	OL-VC-20202	OL-VC-20202	OL-VC-20202
Sample Depth	0.00-0.25 Ft	0.00-0.25 Ft	0.50-0.75 Ft	0.75-1.00 Ft	1.00-1.25 Ft	1.25-1.50 Ft	1.50-1.75 Ft	2.00-2.50 Ft	
Field Sample ID	OL-1219-20	OL-1219-06	OL-1219-08	OL-1219-09	OL-1219-10	OL-1219-11	OL-1219-12	OL-1219-13	
Sample Date	5/27/2010	5/27/2010	5/27/2010	5/27/2010	5/27/2010	5/27/2010	5/27/2010	5/27/2010	
SDG	JA47631	JA47631	JA47631	JA47631	JA47631	JA47631	JA47631	JA47631	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units							
E300.0	CHLORIDE	mg/L	2030	1130	1420	1640	1740	1860	1710
E300.0	SULFATE	mg/L							135
E353.2	NITRATE	mg/L							
E353.2	NITROGEN, NITRATE-NITRITE	mg/L							
SM-4500-CIC	CHLORIDE	mg/L							
SM20-4500-HB	pH	S.U.	9.38	8.24	7.96	8.28	8.64	8.74	8.97
SM4500-NO2B	NITRITE	mg/l							
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L							
SW6010	CALCIUM	mg/L							
SW6010	IRON	mg/L							
SW6010	MAGNESIUM	mg/L							
SW6010	MANGANESE	mg/L							
SW6010	POTASSIUM	mg/L							
SW6010	SODIUM	mg/L							
SW9050	Conductivity	umhos/cm	7220	4250	5040	5450	5810	6010	5630

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-20202	OL-VC-20202	OL-VC-20202	OL-VC-20202	OL-VC-20202	OL-VC-20202	OL-VC-20203	OL-VC-20203		
Sample Depth	2.00-2.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	0.00-0.25 Ft	0.25-0.50 Ft		
Field Sample ID	OL-1219-14	OL-1219-15	OL-1219-16	OL-1219-17	OL-1219-18	OL-1219-19	OL-1218-15	OL-1218-16		
Sample Date	5/27/2010	5/27/2010	5/27/2010	5/27/2010	5/27/2010	5/27/2010	5/27/2010	5/27/2010		
SDG	JA47631	JA47631	JA47631	JA47631	JA47631	JA47631	JA47628	JA47628		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Field duplicate	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	1760	1840	1970	1910	2440	3170	3280	3310
E300.0	SULFATE	mg/L	120	67.6	72.3	98.1	249	271		
E353.2	NITRATE	mg/L								
E353.2	NITROGEN, NITRATE-NITRITE	mg/L								
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	9.33	9.51	9.46	10.34	11.14	10.94	9.92	9.97
SM4500-NO2B	NITRITE	mg/l								
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L								
SW6010	CALCIUM	mg/L								
SW6010	IRON	mg/L								
SW6010	MAGNESIUM	mg/L								
SW6010	MANGANESE	mg/L								
SW6010	POTASSIUM	mg/L								
SW6010	SODIUM	mg/L								
SW9050	Conductivity	umhos/cm	5980	5570	2850	6230	9320	10600	10200	10400

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-20203	OL-VC-20203	OL-VC-20203	OL-VC-20203	OL-VC-20203	OL-VC-20203	OL-VC-20204	OL-VC-20204
Sample Depth	0.50-0.75 Ft	1.50-1.75 Ft	2.00-2.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft	0.00-4.50 Ft	0.00-0.25 Ft	0.25-0.50 Ft
Field Sample ID	OL-1218-17	OL-1219-01	OL-1219-02	OL-1219-03	OL-1219-04	OL-1219-05	OL-1239-09	OL-1239-10
Sample Date	5/27/2010	5/27/2010	5/27/2010	5/27/2010	5/27/2010	5/27/2010	6/2/2010	6/2/2010
SDG	JA47628	JA47631	JA47631	JA47631	JA47631	JA47631	JA48092	JA48092
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water
Method	Parameter Name	Units						
E300.0	CHLORIDE	mg/L	3040	12000	15100	16300	16300	2140
E300.0	SULFATE	mg/L			1740	2140	2120	
E353.2	NITRATE	mg/L			0.52 U	0.52 U		
E353.2	NITROGEN, NITRATE-NITRITE	mg/L			0.5 U	0.5 U	0.5 U	
SM-4500-CIC	CHLORIDE	mg/L						
SM20-4500-HB	pH	S.U.	9.73	9.52	8.53	7.55	7.97	7.31
SM4500-NO2B	NITRITE	mg/l			0.02 UJ	0.02 UJ		
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L			0.22 J	0.5 UJ		
SW6010	CALCIUM	mg/L			650	887	1130	
SW6010	IRON	mg/L			6.32	0.663	0.653	
SW6010	MAGNESIUM	mg/L			67.2	142	144	
SW6010	MANGANESE	mg/L			0.251	0.357	0.446	
SW6010	POTASSIUM	mg/L			118	135	140	
SW6010	SODIUM	mg/L			5380	9450	9900	
SW9050	Conductivity	umhos/cm	9520	3370	42600	46300	45900	7220
								12900

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-20204	OL-VC-20204	OL-VC-20204	OL-VC-20204	OL-VC-20204	OL-VC-20204	OL-VC-20204	OL-VC-20204	OL-VC-20204	
Sample Depth	0.50-0.75 Ft	0.75-1.00 Ft	1.00-1.25 Ft	1.25-1.50 Ft	1.50-1.75 Ft	2.00-2.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft		
Field Sample ID	OL-1239-11	OL-1239-12	OL-1239-13	OL-1239-14	OL-1239-15	OL-1239-16	OL-1239-17	OL-1239-18		
Sample Date	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010		
SDG	JA48092	JA48092	JA48092	JA48092	JA48092	JA48092	JA48092	JA48092		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	6540	8590	11700	14100	16000	21400	30600	36100
E300.0	SULFATE	mg/L						22.4	86.2	547
E353.2	NITRATE	mg/L						0.52 U	0.52 U	0.11 J
E353.2	NITROGEN, NITRATE-NITRITE	mg/L						0.5 U	0.041 J	0.11 J
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	7.29	7.36	7.3	7.26	7.15	7.09	7.25	7.39
SM4500-NO2B	NITRITE	mg/l						0.02 U	0.02 U	0.0024 J
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L						3.5 J	5.7 J	4 J
SW6010	CALCIUM	mg/L						452	427	597
SW6010	IRON	mg/L						6.53	3.5	1.67
SW6010	MAGNESIUM	mg/L						484	463	532
SW6010	MANGANESE	mg/L						1.21	0.431	0.301
SW6010	POTASSIUM	mg/L						86.7	54.5	79
SW6010	SODIUM	mg/L						12000	12300	19100
SW9050	Conductivity	umhos/cm	19000	25400	31800	38900	43900	55400	70000	81100

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-20204	OL-VC-20204	OL-VC-20204	OL-VC-20204	OL-VC-20204A	OL-VC-20204A	OL-VC-20204A	OL-VC-20204A		
Sample Depth	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	9.00-9.50 Ft	0.00-0.25 Ft	0.25-0.50 Ft	0.50-0.75 Ft	0.75-1.00 Ft		
Field Sample ID	OL-1239-19	OL-1239-20	OL-1240-01	OL-1240-02	OL-1240-03	OL-1240-04	OL-1240-05	OL-1240-06		
Sample Date	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010		
SDG	JA48092	JA48092	JA48096	JA48096	JA48096	JA48096	JA48096	JA48096		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	39300	45100	52500	61500	2560	4330	6340	8780
E300.0	SULFATE	mg/L	967	1780	2970	3860				
E353.2	NITRATE	mg/L	0.16 J	0.17 J	0.52 U	0.048 J				
E353.2	NITROGEN, NITRATE-NITRITE	mg/L	0.16 J	0.17 J	0.041 J	0.048 J				
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	7.27	7.1	6.97	6.92	7.26	7.29	7.45	7.38
SM4500-NO2B	NITRITE	mg/l	0.02 U	0.0024 J	0.02 U	0.02 U				
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L	3.4	1.4	1.4	1.4				
SW6010	CALCIUM	mg/L	627	642	865	904				
SW6010	IRON	mg/L	0.639	0.507	1.16	0.348 J				
SW6010	MAGNESIUM	mg/L	349	248	211	202				
SW6010	MANGANESE	mg/L	0.557	0.557	0.655	0.478				
SW6010	POTASSIUM	mg/L	75	104	111	123				
SW6010	SODIUM	mg/L	15800	11100	10800	11600				
SW9050	Conductivity	umhos/cm	90000	101000	115000	130000	8640	13400	19400	24400

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-20204A	OL-VC-20204A	OL-VC-20204A	OL-VC-20204A	OL-VC-20204A	OL-VC-20204A	OL-VC-20204A	OL-VC-20204A	OL-VC-20204A	
Sample Depth	1.00-1.25 Ft	1.25-1.50 Ft	1.50-1.75 Ft	2.00-2.50 Ft	2.00-2.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft		
Field Sample ID	OL-1240-07	OL-1240-08	OL-1240-09	OL-1240-10	OL-1240-11	OL-1240-12	OL-1240-13	OL-1240-14		
Sample Date	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010		
SDG	JA48096	JA48096	JA48096	JA48096	JA48096	JA48096	JA48096	JA48096		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Field duplicate	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	11800	14800	17700	20900	21100	29200	35300	39700
E300.0	SULFATE	mg/L				55.2	53.9	174	546	1270
E353.2	NITRATE	mg/L				0.1 J	0.52 U	0.046 J	0.52 U	0.13 J
E353.2	NITROGEN, NITRATE-NITRITE	mg/L				0.11 J	0.5 U	0.062 J	0.5 U	0.13 J
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	7.41	7.46	7.29	7.15	7.16	7.44	7.27	7.15
SM4500-NO2B	NITRITE	mg/l				0.0082 J	0.02 U	0.016 J	0.02 U	0.02 U
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L				2.3	1.2	1.3	4.2	2
SW6010	CALCIUM	mg/L				468	452	486	509	569
SW6010	IRON	mg/L				3.8	3.21	9.06	1.14	0.462 J
SW6010	MAGNESIUM	mg/L				423	413	500	332	257
SW6010	MANGANESE	mg/L				1.08	1.03	0.442	0.231	0.482
SW6010	POTASSIUM	mg/L				84.6	81.8	70.8	101	97.5
SW6010	SODIUM	mg/L				11600	11000	15500	12300	10900
SW9050	Conductivity	umhos/cm	32200	38900	45100	55200	54200	73100	81500	88500



**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-20204A	OL-VC-20204A	OL-VC-20204A	OL-VC-20205	OL-VC-20205	OL-VC-20205	OL-VC-20205	OL-VC-20205		
Sample Depth	6.00-6.50 Ft	7.50-8.00 Ft	9.00-9.50 Ft	0.00-0.25 Ft	0.25-0.50 Ft	0.50-0.75 Ft	0.75-1.00 Ft	1.00-1.25 Ft		
Field Sample ID	OL-1240-15	OL-1240-16	OL-1240-17	OL-1212-10	OL-1212-11	OL-1212-12	OL-1212-13	OL-1212-14		
Sample Date	6/2/2010	6/2/2010	6/2/2010	5/26/2010	5/26/2010	5/26/2010	5/26/2010	5/26/2010		
SDG	JA48096	JA48096	JA48096	JA47528	JA47528	JA47528	JA47528	JA47528		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	44900	54900	64100	2480	5200	8750	11600	16100
E300.0	SULFATE	mg/L	2090	3200	4160					
E353.2	NITRATE	mg/L	0.11 J	0.064 J	0.17 J					
E353.2	NITROGEN, NITRATE-NITRITE	mg/L	0.11 J	0.064 J	0.17 J					
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	7.07	6.91	6.86	7.37	7.41	7.31	7.57	7.34
SM4500-NO2B	NITRITE	mg/l	0.02 U	0.02 U	0.02 U					
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L	1.6	1.8	0.74					
SW6010	CALCIUM	mg/L	707	872	784					
SW6010	IRON	mg/L	0.313 J	0.417 J	0.277 J					
SW6010	MAGNESIUM	mg/L	227	214	174					
SW6010	MANGANESE	mg/L	0.525	0.539	0.42					
SW6010	POTASSIUM	mg/L	106	121	99.4					
SW6010	SODIUM	mg/L	10800	11800	8560					
SW9050	Conductivity	umhos/cm	99900	117000	130000	8120	15600	25400	32200	42200

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-20205	OL-VC-20205	OL-VC-20205	OL-VC-20205	OL-VC-20205	OL-VC-20205	OL-VC-20205	OL-VC-20205	OL-VC-20205	
Sample Depth	1.25-1.50 Ft	1.50-1.75 Ft	2.00-2.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	6.00-6.50 Ft	6.00-6.50 Ft	
Field Sample ID	OL-1212-15	OL-1212-16	OL-1212-17	OL-1212-18	OL-1212-19	OL-1212-20	OL-1214-01	OL-1214-02	OL-1214-02	
Sample Date	5/26/2010	5/26/2010	5/26/2010	5/26/2010	5/26/2010	5/26/2010	5/26/2010	5/26/2010	5/26/2010	
SDG	JA47528	JA47528	JA47528	JA47528	JA47528	JA47528	JA47529	JA47529	JA47529	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Field duplicate	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units								
E300.0	CHLORIDE	18400	20600	26100	34300	41900	48900	53700	55400	
E300.0	SULFATE			157	683	1430	2270	2860	3000	
E353.2	NITRATE			0.52 U	0.076 J	0.52 U				
E353.2	NITROGEN, NITRATE-NITRITE			0.5 U	0.081 J	0.5 U	0.5 U	0.5 U	0.5 U	
SM-4500-CIC	CHLORIDE									
SM20-4500-HB	pH	7.49	7.29	7.32	7.14	7.18	7.08	7.16	7.09	
SM4500-NO2B	NITRITE			0.02 UJ	0.0054 J	0.02 UJ				
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)			4.1 J	2.7 J	2.1 J				
SW6010	CALCIUM			579	747	1100	1220	1360	1400	
SW6010	IRON			4.02	7.05	0.993	0.447	0.124 J	0.289 J	
SW6010	MAGNESIUM			300	328	316	285	268	281	
SW6010	MANGANESE			0.461	0.397	0.53	1.09	1.42	1.52	
SW6010	POTASSIUM			94.9	134	169	201	171	196	
SW6010	SODIUM			14100	21400	25500	27400	28800	23300	
SW9050	Conductivity	46200	52200	67100	83300	96800	114000	120000	123000	

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-20205	OL-VC-20205	OL-VC-30176	OL-VC-30176	OL-VC-30176	OL-VC-30176	OL-VC-30176	OL-VC-30176	OL-VC-30176
Sample Depth	7.50-8.00 Ft	9.00-9.50 Ft	0.00-0.25 Ft	0.25-0.50 Ft	0.50-0.75 Ft	0.75-1.00 Ft	1.00-1.25 Ft	1.25-1.50 Ft	
Field Sample ID	OL-1214-03	OL-1214-04	OL-1263-12	OL-1263-13	OL-1263-14	OL-1263-15	OL-1263-16	OL-1263-17	
Sample Date	5/26/2010	5/26/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	
SDG	JA47529	JA47529	JA48379	JA48379	JA48379	JA48379	JA48379	JA48379	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units							
E300.0	CHLORIDE	63100	71100						
E300.0	SULFATE	3610	4030						
E353.2	NITRATE	0.52 U							
E353.2	NITROGEN, NITRATE-NITRITE	0.5 U	0.5 U						
SM-4500-CIC	CHLORIDE			2100	3390	3720	3760	3800	3760
SM20-4500-HB	pH	7.06	7.01	10.08	11.42	11.64	11.67	11.73	11.76
SM4500-NO2B	NITRITE	0.0024 J							
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)								
SW6010	CALCIUM	1570	1790						
SW6010	IRON	0.604	0.633						
SW6010	MAGNESIUM	293	315						
SW6010	MANGANESE	1.71	1.97						
SW6010	POTASSIUM	233	275						
SW6010	SODIUM	27900	32200						
SW9050	Conductivity	umhos/cm	136000	147000	11100	11200	12100	13300	13200

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-30176	OL-VC-30176	OL-VC-30176	OL-VC-30176	OL-VC-30176	OL-VC-30176	OL-VC-30176	OL-VC-30176	OL-VC-30176	
Sample Depth	1.50-1.75 Ft	2.00-2.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	9.00-9.50 Ft		
Field Sample ID	OL-1263-18	OL-1263-19	OL-1263-20	OL-1264-01	OL-1264-02	OL-1264-03	OL-1264-04	OL-1264-05		
Sample Date	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010		
SDG	JA48379	JA48379	JA48379	JA48380	JA48380	JA48380	JA48380	JA48380		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE		4200	4500	5320	6240	6800	10300	12200	
E300.0	SULFATE		191	191	192	186	217	235	218	
E353.2	NITRATE			0.13 J	0.088 J			0.26 J		
E353.2	NITROGEN, NITRATE-NITRITE		0.17 J	0.14 J	0.11 J	0.21 J	0.27 J	0.31 J	0.29 J	
SM-4500-CIC	CHLORIDE	3910								
SM20-4500-HB	pH	11.84	11.91	11.95	11.99	12.01	12.02	12.01	11.97	
SM4500-NO2B	NITRITE			0.0051 J	0.017 J			0.052 J		
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)			0.1 U	0.1 U			0.1 U		
SW6010	CALCIUM		1190	1180	1230	1240	676	1100	654	
SW6010	IRON		4.77	13.9	5.41	5.16	2.52	5.98	1.72	
SW6010	MAGNESIUM		23	64.6	25.9	18.1	13.6	24.8	6.58	
SW6010	MANGANESE		0.314	1.16	0.426	0.331	0.236	0.325	0.113	
SW6010	POTASSIUM		111	96.4	130	141	80.3	133	67.1	
SW6010	SODIUM		1450	1430	1980	2800	2020	4190	3340	
SW9050	Conductivity	14400	15400	15900	19500	23000	22300	28200	36900	

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-30177	OL-VC-30177	OL-VC-30177	OL-VC-30177	OL-VC-30177	OL-VC-30177	OL-VC-30177	OL-VC-30177	OL-VC-30177
Sample Depth	0.00-0.25 Ft	0.25-0.50 Ft	0.50-0.75 Ft	0.75-1.00 Ft	1.00-1.25 Ft	1.25-1.50 Ft	1.50-1.75 Ft	2.00-2.50 Ft	
Field Sample ID	OL-1264-06	OL-1264-07	OL-1264-08	OL-1264-09	OL-1264-10	OL-1264-11	OL-1264-12	OL-1264-13	
Sample Date	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	
SDG	JA48380	JA48380	JA48380	JA48380	JA48380	JA48380	JA48380	JA48380	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units							
E300.0	CHLORIDE	mg/L							16800
E300.0	SULFATE	mg/L							305
E353.2	NITRATE	mg/L							0.061 J
E353.2	NITROGEN, NITRATE-NITRITE	mg/L							0.061 J
SM-4500-CIC	CHLORIDE	mg/L	5460	7080	8550	9590	11300	11900	13100
SM20-4500-HB	pH	S.U.	8.62	9.6	10.43	10.79	11.05	11.1	11.24
SM4500-NO2B	NITRITE	mg/l							0.02 U
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L							0.012 J
SW6010	CALCIUM	mg/L							770
SW6010	IRON	mg/L							1.39
SW6010	MAGNESIUM	mg/L							3.09
SW6010	MANGANESE	mg/L							0.0606
SW6010	POTASSIUM	mg/L							61.7
SW6010	SODIUM	mg/L							5990
SW9050	Conductivity	umhos/cm	17000	20600	24100	28000	31800	31900	36000

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-30177	OL-VC-30177	OL-VC-30177	OL-VC-30177	OL-VC-30177	OL-VC-30177	OL-VC-30177	OL-VC-30177	OL-VC-30178
Sample Depth	2.00-2.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	9.00-9.50 Ft	0.00-0.25 Ft	
Field Sample ID	OL-1264-14	OL-1264-15	OL-1264-16	OL-1264-17	OL-1264-18	OL-1264-19	OL-1264-20	OL-1248-12	
Sample Date	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/3/2010	
SDG	JA48380	JA48380	JA48380	JA48380	JA48380	JA48380	JA48380	JA48267	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Field duplicate	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units							
E300.0	CHLORIDE	17600	20700	26500	28100	32200	39600	54800	
E300.0	SULFATE	293	335	390	600	708	1340	2140	
E353.2	NITRATE		0.14 J		0.26 J		0.25 J		
E353.2	NITROGEN, NITRATE-NITRITE	0.17 J	0.14 J	0.27 J	0.27 J	0.33 J	0.25 J	0.23 J	
SM-4500-CIC	CHLORIDE								1080
SM20-4500-HB	pH	11.35	11.47	11.62	11.65	11.63	11.57	11.24	7.36
SM4500-NO2B	NITRITE		0.02 U		0.012 J				R
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)		0.012 J		0.035 J		0.025 J		
SW6010	CALCIUM	689	868	1560	982	914	677	558	
SW6010	IRON	1.71	5.21	8.25	1.64	1.98	2.29	1.73	
SW6010	MAGNESIUM	3.91	20.5	39.2	6.03	8.3	9.07	5.63	
SW6010	MANGANESE	0.0835	0.327	0.641	0.0721	0.121	0.0925	0.0558	
SW6010	POTASSIUM	51.3	66.6	141	95.2	99	91.1	107	
SW6010	SODIUM	5550	7130	12700	9040	10200	8940	10900	
SW9050	Conductivity	46200	52300	63600	71600	78500	97200	119000	4190

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-30178	OL-VC-30178	OL-VC-30178	OL-VC-30178	OL-VC-30178	OL-VC-30178	OL-VC-30178	OL-VC-30178	OL-VC-30178
Sample Depth	0.25-0.50 Ft	0.50-0.75 Ft	0.75-1.00 Ft	1.00-1.25 Ft	1.25-1.50 Ft	1.50-1.75 Ft	2.00-2.50 Ft	3.00-3.50 Ft	
Field Sample ID	OL-1248-13	OL-1248-14	OL-1248-15	OL-1248-16	OL-1248-17	OL-1248-18	OL-1248-19	OL-1248-20	
Sample Date	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	
SDG	JA48267	JA48267	JA48267	JA48267	JA48267	JA48267	JA48267	JA48267	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units							
E300.0	CHLORIDE	mg/L					3360	4560	
E300.0	SULFATE	mg/L					66.3	56.6	
E353.2	NITRATE	mg/L					0.16 J	0.2 J	
E353.2	NITROGEN, NITRATE-NITRITE	mg/L					0.16 J	0.2 J	
SM-4500-CIC	CHLORIDE	mg/L	1330	1560	7080	1960	2240	2360	
SM20-4500-HB	pH	S.U.	7.34	7.35	7.54	7.52	7.47	7.48	8.32
SM4500-NO2B	NITRITE	mg/l						0.02 U	0.02 U
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L						0.2	0.1 U
SW6010	CALCIUM	mg/L						182	650
SW6010	IRON	mg/L						2.44	0.527
SW6010	MAGNESIUM	mg/L						28.7	1.59
SW6010	MANGANESE	mg/L						0.0741	0.0183
SW6010	POTASSIUM	mg/L						50.8	57
SW6010	SODIUM	mg/L						1750	2230
SW9050	Conductivity	umhos/cm	5010	5570	63400	6960	7630	8300	9700

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-30178	OL-VC-30178	OL-VC-30178	OL-VC-30178	OL-VC-30178	OL-VC-30179	OL-VC-30179	OL-VC-30179	OL-VC-30179	
Sample Depth	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	9.00-9.50 Ft	0.00-0.25 Ft	0.25-0.50 Ft	0.50-0.75 Ft		
Field Sample ID	OL-1249-01	OL-1249-02	OL-1249-03	OL-1249-04	OL-1249-05	OL-1247-17	OL-1247-18	OL-1247-19		
Sample Date	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010		
SDG	JA48265	JA48265	JA48265	JA48265	JA48265	JA48264	JA48264	JA48264		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	6430	8630	9880	13900	17800	6640	10700	15200
E300.0	SULFATE	mg/L	182	253	266	304	249			
E353.2	NITRATE	mg/L	0.52 U	0.15 J	0.25 J	0.34 J	0.26 J			
E353.2	NITROGEN, NITRATE-NITRITE	mg/L	0.041 J	0.15 J	0.25 J	0.34 J	0.27 J			
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	11.58	11.84	11.9	11.9	11.95	7.6	7.36	7.5
SM4500-NO2B	NITRITE	mg/l	0.02 U	0.02 U	0.02 U	0.0021 J	0.0082 J			
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.055 J			
SW6010	CALCIUM	mg/L	1120	1300	1320	1350	1160			
SW6010	IRON	mg/L	2.56	1.28	1.02	5.36	4.24			
SW6010	MAGNESIUM	mg/L	9.31	4.45 J	3.75	25	18.8			
SW6010	MANGANESE	mg/L	0.162	0.0739	0.0643	0.39	0.3			
SW6010	POTASSIUM	mg/L	61.8	74.2	78.8	81.8	91.9			
SW6010	SODIUM	mg/L	2970	4160	5150	6820	9250			
SW9050	Conductivity	umhos/cm	18700	25000	28700	37800	45800	19200	28100	38600



**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-30179	OL-VC-30179	OL-VC-30179	OL-VC-30179	OL-VC-30179	OL-VC-30179	OL-VC-30179
Sample Depth	0.75-1.00 Ft	1.00-1.25 Ft	1.25-1.50 Ft	1.50-1.75 Ft	2.00-2.50 Ft	2.00-2.50 Ft	3.00-3.50 Ft
Field Sample ID	OL-1247-20	OL-1248-01	OL-1248-02	OL-1248-03	OL-1248-04	OL-1248-05	OL-1248-06
Sample Date	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010
SDG	JA48264	JA48267	JA48267	JA48267	JA48267	JA48267	JA48267
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Field duplicate	Regular sample
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water
Method	Parameter Name	Units					
E300.0	CHLORIDE	mg/L	17800			30000	31500
E300.0	SULFATE	mg/L				305	351
E353.2	NITRATE	mg/L				0.25 J	0.24 J
E353.2	NITROGEN, NITRATE-NITRITE	mg/L				0.25 J	0.24 J
SM-4500-CIC	CHLORIDE	mg/L		20800	25100	26500	
SM20-4500-HB	pH	S.U.	7.8	7.8	8.4	8.9	9.87
SM4500-NO2B	NITRITE	mg/l				0.0029 J	0.0037 J
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L				0.062 J	0.051 J
SW6010	CALCIUM	mg/L				595	606
SW6010	IRON	mg/L				1.84	1.64
SW6010	MAGNESIUM	mg/L				2.85	2.41
SW6010	MANGANESE	mg/L				0.0354	0.0294
SW6010	POTASSIUM	mg/L				94.6	93.4
SW6010	SODIUM	mg/L				13600	13700
SW9050	Conductivity	umhos/cm	41700	52600	60600	64100	71600
						71600	72200
							83400



**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-30180	OL-VC-30180	OL-VC-30180	OL-VC-30180	OL-VC-30180	OL-VC-30180	OL-VC-30180	OL-VC-30180	OL-VC-30180	
Sample Depth	0.75-1.00 Ft	1.00-1.25 Ft	1.25-1.50 Ft	1.50-1.75 Ft	2.00-2.50 Ft	2.00-2.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft		
Field Sample ID	OL-1249-09	OL-1249-10	OL-1249-11	OL-1249-12	OL-1249-13	OL-1249-14	OL-1249-15	OL-1249-16		
Sample Date	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010		
SDG	JA48265	JA48265	JA48265	JA48265	JA48265	JA48265	JA48265	JA48265		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Field duplicate	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	5430	6990	9220	11400	13200	13300	15200	17600
E300.0	SULFATE	mg/L					183	168	238	237
E353.2	NITRATE	mg/l					146 J	0.17 J	0.17 J	0.17 J
E353.2	NITROGEN, NITRATE-NITRITE	mg/L					146 J	0.17 J	0.17 J	0.17 J
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	7.6	7.79	8.65	10.3	10.91	10.73	10.76	11.18
SM4500-NO2B	NITRITE	mg/l					0.02 U	0.02 U	0.02 U	0.02 U
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L					0.016 J	0.1 U	0.1 U	0.1 U
SW6010	CALCIUM	mg/L					1110	1010	1110	1020
SW6010	IRON	mg/L					4.37	3.01	0.605	0.357
SW6010	MAGNESIUM	mg/L					17.5	11.8	1.68	0.856 J
SW6010	MANGANESE	mg/L					0.28	0.187	0.0267	0.0161
SW6010	POTASSIUM	mg/L					69.7	65.8	79.9	85.8
SW6010	SODIUM	mg/L					6920	6650	8050	9080
SW9050	Conductivity	umhos/cm	16100	19200	24200	29100	32800	31700	36300	41900



**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-40287	OL-VC-40287	OL-VC-40287	OL-VC-40287	OL-VC-40287	OL-VC-40287	OL-VC-40287	OL-VC-40287	OL-VC-40287	
Sample Depth	1.00-1.25 Ft	1.25-1.50 Ft	1.50-1.75 Ft	2.00-2.50 Ft	2.00-2.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft		
Field Sample ID	OL-1263-01	OL-1263-02	OL-1263-03	OL-1263-04	OL-1263-05	OL-1263-06	OL-1263-07	OL-1263-08		
Sample Date	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010		
SDG	JA48379	JA48379	JA48379	JA48379	JA48379	JA48379	JA48379	JA48379		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Field duplicate	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L			7250	6910	8330	9550	11800	
E300.0	SULFATE	mg/L			588	569	738	847	957	
E353.2	NITRATE	mg/l					0.52 U		0.52 U	
E353.2	NITROGEN, NITRATE-NITRITE	mg/L			0.052 J	0.5 U	0.5 U	0.5 U	0.5 U	
SM-4500-CIC	CHLORIDE	mg/L	2420	3280	4940					
SM20-4500-HB	pH	S.U.	7.67	7.62	7.32	7.15	7.2	7.24	7.05	
SM4500-NO2B	NITRITE	mg/l					0.02 U		0.02 U	
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L					0.1 U		0.1 U	
SW6010	CALCIUM	mg/L			439	467	466	686	614	
SW6010	IRON	mg/L			0.124 J	0.21 J	0.258 J	1.72	0.422 J	
SW6010	MAGNESIUM	mg/L			73.2	70.4	82.1	97.4	118	
SW6010	MANGANESE	mg/L			0.125	0.129	0.0945	0.144	0.0603	
SW6010	POTASSIUM	mg/L			23.5	22.5	27.4	31.1	35.6	
SW6010	SODIUM	mg/L			4870	3360	5110	5970	7430	
SW9050	Conductivity	umhos/cm	8140	10400	15600	20000	20600	23600	27700	34000

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-40287	OL-VC-40287	OL-VC-40287	OL-VC-40288	OL-VC-40288	OL-VC-40288	OL-VC-40288	OL-VC-40288
Sample Depth	6.00-6.50 Ft	7.50-8.00 Ft	9.00-9.50 Ft	0.00-0.25 Ft	0.25-0.50 Ft	0.50-0.75 Ft	0.75-1.00 Ft	1.00-1.25 Ft
Field Sample ID	OL-1263-09	OL-1263-10	OL-1263-11	OL-1260-01	OL-1260-02	OL-1260-03	OL-1260-04	OL-1260-05
Sample Date	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010
SDG	JA48379	JA48379	JA48379	JA48376	JA48376	JA48376	JA48376	JA48376
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water
Method	Parameter Name	Units						
E300.0	CHLORIDE	mg/L	14400	17400	20800			
E300.0	SULFATE	mg/L	1180	1450	1540			
E353.2	NITRATE	mg/l	0.52 U					
E353.2	NITROGEN, NITRATE-NITRITE	mg/L	0.5 U	0.5 U	0.056 J			
SM-4500-CIC	CHLORIDE	mg/L			1420	1770	2020	2180
SM20-4500-HB	pH	S.U.	7.12	7.22	7.13	7.46	7.48	7.47
SM4500-NO2B	NITRITE	mg/l	0.02 U					
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L	0.1 U					
SW6010	CALCIUM	mg/L	745	592	789			
SW6010	IRON	mg/L	0.884	1.08	1.48			
SW6010	MAGNESIUM	mg/L	137	144	178			
SW6010	MANGANESE	mg/L	0.0754	0.073	0.137			
SW6010	POTASSIUM	mg/L	40.5	45.9	55.3			
SW6010	SODIUM	mg/L	8850	9750	11700			
SW9050	Conductivity	umhos/cm	38500	46200	55900	5040	6100	6860
							7480	9120



**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-40288	OL-VC-40288	OL-VC-40289	OL-VC-40289	OL-VC-40289	OL-VC-40289	OL-VC-40289	OL-VC-40289	OL-VC-40289
Sample Depth	7.50-8.00 Ft	9.00-9.50 Ft	0.00-0.25 Ft	0.25-0.50 Ft	0.50-0.75 Ft	0.75-1.00 Ft	1.00-1.25 Ft	1.25-1.50 Ft	
Field Sample ID	OL-1260-14	OL-1260-15	OL-1262-02	OL-1262-03	OL-1262-04	OL-1262-05	OL-1262-06	OL-1262-07	
Sample Date	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	
SDG	JA48376	JA48376	JA48378	JA48378	JA48378	JA48378	JA48378	JA48378	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units							
E300.0	CHLORIDE	mg/L	11300	14800					
E300.0	SULFATE	mg/L	805	1020					
E353.2	NITRATE	mg/l							
E353.2	NITROGEN, NITRATE-NITRITE	mg/L	0.5 U	0.5 U					
SM-4500-CIC	CHLORIDE	mg/L			664	605	811	818	1310
SM20-4500-HB	pH	S.U.	7.09	7.15	7.31	7.27	7.14	7.58	7.56
SM4500-NO2B	NITRITE	mg/l							
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L							
SW6010	CALCIUM	mg/L	396	512					
SW6010	IRON	mg/L	0.0322 J	0.22					
SW6010	MAGNESIUM	mg/L	78	121					
SW6010	MANGANESE	mg/L	0.0229	0.0268 J					
SW6010	POTASSIUM	mg/L	24.4	39.7					
SW6010	SODIUM	mg/L	5110	8190					
SW9050	Conductivity	umhos/cm	32600	40100	3550	3550	42100	3690	4850
									2370





**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-40289	OL-VC-40289A	OL-VC-40289A	OL-VC-40289A	OL-VC-40289A	OL-VC-40289A	OL-VC-40289A	OL-VC-40289A	OL-VC-40289A
Sample Depth	9.00-9.30 Ft	0.00-0.25 Ft	0.25-0.50 Ft	0.50-0.75 Ft	0.75-1.00 Ft	1.00-1.25 Ft	1.25-1.50 Ft	1.50-1.75 Ft	
Field Sample ID	OL-1262-16	OL-1260-16	OL-1260-17	OL-1260-18	OL-1260-19	OL-1260-20	OL-1261-01	OL-1261-02	
Sample Date	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	
SDG	JA48378	JA48376	JA48376	JA48376	JA48376	JA48376	JA48377	JA48377	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units							
E300.0	CHLORIDE	mg/L	11300						
E300.0	SULFATE	mg/L	903						
E353.2	NITRATE	mg/l							
E353.2	NITROGEN, NITRATE-NITRITE	mg/L	0.5 U						
SM-4500-CIC	CHLORIDE	mg/L		1060	1420	1590	1740	2210	2550
SM20-4500-HB	pH	S.U.	7.14	7.46	7.45	7.4	7.38	7.45	7.44
SM4500-NO2B	NITRITE	mg/l							
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L							
SW6010	CALCIUM	mg/L	510						
SW6010	IRON	mg/L	0.237 J						
SW6010	MAGNESIUM	mg/L	108						
SW6010	MANGANESE	mg/L	0.0366						
SW6010	POTASSIUM	mg/L	31.1						
SW6010	SODIUM	mg/L	6440						
SW9050	Conductivity	umhos/cm	32100	4080	4990	5650	6530	7660	8670
									9600

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-40289A	OL-VC-40289A	OL-VC-40289A	OL-VC-40289A	OL-VC-40289A	OL-VC-40290	OL-VC-40290	OL-VC-40290
Sample Depth	2.00-2.50 Ft	2.00-2.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft	0.00-0.25 Ft	0.25-0.50 Ft	0.50-0.75 Ft
Field Sample ID	OL-1261-03	OL-1261-04	OL-1261-05	OL-1261-06	OL-1261-07	OL-1270-16	OL-1270-17	OL-1270-18
Sample Date	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/8/2010	6/8/2010	6/8/2010
SDG	JA48377	JA48377	JA48377	JA48377	JA48377	JA48481	JA48481	JA48481
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Sample Purpose	Regular sample	Field duplicate	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water
Method	Parameter Name	Units						
E300.0	CHLORIDE	3940	3890	5240	6370	7380		
E300.0	SULFATE	284	264	462	557	695		
E353.2	NITRATE			0.52 U	0.52 U			
E353.2	NITROGEN, NITRATE-NITRITE			0.5 U	0.5 U	0.5 U		
SM-4500-CIC	CHLORIDE					4240	4720	5160
SM20-4500-HB	pH	7.29	7.22	7.12	7.11	7.18	7.34	7.29
SM4500-NO2B	NITRITE			0.02 U	0.0021 J			
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)			0.1 U	0.1 U			
SW6010	CALCIUM		324	595	378	444		
SW6010	IRON		0.57	0.459 J	0.306 J	1.24		
SW6010	MAGNESIUM		40.1	71.3	50.4	59.6		
SW6010	MANGANESE		0.0886	0.102	0.04	0.0807		
SW6010	POTASSIUM		16	29.3	21	28.3		
SW6010	SODIUM		1410	2870	2200	2830		
SW9050	Conductivity	12100	12100	163000	18700	21700	13000	15000
								16000

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-40290	OL-VC-40290	OL-VC-40290	OL-VC-40290	OL-VC-40290	OL-VC-40290	OL-VC-40290	OL-VC-40290	
Sample Depth	0.75-1.00 Ft	1.00-1.25 Ft	1.25-1.50 Ft	1.50-1.75 Ft	2.00-2.50 Ft	2.00-2.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft	
Field Sample ID	OL-1270-19	OL-1270-20	OL-1271-01	OL-1271-02	OL-1271-03	OL-1271-04	OL-1271-05	OL-1271-06	
Sample Date	6/8/2010	6/8/2010	6/8/2010	6/8/2010	6/8/2010	6/8/2010	6/8/2010	6/8/2010	
SDG	JA48481	JA48481	JA48482	JA48482	JA48482	JA48482	JA48482	JA48482	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Field duplicate	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units							
E300.0	CHLORIDE					8110	8240	9930	12300
E300.0	SULFATE					58.1	39.6	104	131
E353.2	NITRATE							0.064 J	
E353.2	NITROGEN, NITRATE-NITRITE						0.5 U	0.072 J	0.5 U
SM-4500-CIC	CHLORIDE	5680	5710	6340	6750				
SM20-4500-HB	pH	7.23	7.14	7.03	6.99	7.03	6.98	6.99	6.78
SM4500-NO2B	NITRITE							0.0079 J	
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)							0.1 U	
SW6010	CALCIUM					1410	1490	1460	1720
SW6010	IRON					0.25 J	0.277 J	0.355 J	0.397 J
SW6010	MAGNESIUM					176	188	130	129
SW6010	MANGANESE					0.113	0.132	0.124	0.143
SW6010	POTASSIUM					42.9	44.9	37.2	41
SW6010	SODIUM					2760	2870	2520	2950
SW9050	Conductivity	17200	18100	19100	20100	21500	22500	26200	31400

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-40290	OL-VC-40290	OL-VC-40290	OL-VC-40290	OL-VC-40291	OL-VC-40291	OL-VC-40291	OL-VC-40291
Sample Depth	5.00-5.50 Ft	7.50-8.00 Ft	6.00-6.50 Ft	9.00-9.50 Ft	0.00-0.25 Ft	0.25-0.50 Ft	0.50-0.75 Ft	0.75-1.00 Ft
Field Sample ID	OL-1271-07	OL-1271-08	OL-1271-09	OL-1271-10	OL-1271-11	OL-1271-12	OL-1271-13	OL-1271-14
Sample Date	6/8/2010	6/8/2010	6/8/2010	6/8/2010	6/8/2010	6/8/2010	6/8/2010	6/8/2010
SDG	JA48482	JA48482	JA48482	JA48482	JA48482	JA48482	JA48482	JA48482
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water
Method	Parameter Name	Units						
E300.0	CHLORIDE	mg/L	14500	19500	13700	21600		
E300.0	SULFATE	mg/L	229	562	349	711		
E353.2	NITRATE	mg/l	0.52 U	0.52 U	0.52 U	0.52 U		
E353.2	NITROGEN, NITRATE-NITRITE	mg/L	0.5 U	0.5 U	0.5 U	0.5 U		
SM-4500-CIC	CHLORIDE	mg/L				4060	4090	14300
SM20-4500-HB	pH	S.U.	6.6	6.65	6.75	6.78	7.52	7.33
SM4500-NO2B	NITRITE	mg/l	0.02 U	0.0035 J	0.02 U	0.0026 J		7.07
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L	0.1 U	0.1 U	0.1 U	0.1 U		
SW6010	CALCIUM	mg/L	2690	2960	2930	2270		
SW6010	IRON	mg/L	0.253 J	0.21 J	0.236 J	0.295 J		
SW6010	MAGNESIUM	mg/L	200	229	215	211		
SW6010	MANGANESE	mg/L	0.172	0.169	0.173	0.152		
SW6010	POTASSIUM	mg/L	65.1	82.2	73	87.6		
SW6010	SODIUM	mg/L	5460	8050	6760	9230		
SW9050	Conductivity	umhos/cm	37300	48800	36000	54200	12700	12700
							16600	21000

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-40291	OL-VC-40291	OL-VC-40291	OL-VC-40291	OL-VC-40291	OL-VC-40291	OL-VC-40291	OL-VC-40291	
Sample Depth	1.00-1.25 Ft	1.25-1.50 Ft	1.50-1.75 Ft	2.00-2.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	
Field Sample ID	OL-1271-15	OL-1271-16	OL-1271-17	OL-1271-18	OL-1271-19	OL-1271-20	OL-1272-01	OL-1272-02	
Sample Date	6/8/2010	6/8/2010	6/8/2010	6/8/2010	6/8/2010	6/8/2010	6/8/2010	6/8/2010	
SDG	JA48482	JA48482	JA48482	JA48482	JA48482	JA48482	JA48483	JA48483	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units							
E300.0	CHLORIDE				13800	18700	21900	25400	27200
E300.0	SULFATE				62	106	183	210	269
E353.2	NITRATE				0.52 U		0.52 U		0.52 U
E353.2	NITROGEN, NITRATE-NITRITE				0.5 U	0.5 U	0.5 U	0.14 J	0.5 U
SM-4500-CIC	CHLORIDE	8410	9590	10900					
SM20-4500-HB	pH	6.98	6.97	6.9	6.84	6.52	6.61	6.47	6.38
SM4500-NO2B	NITRITE				0.02 U		0.02 U		0.02 U
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)				0.1 U		0.1 U		0.027 J
SW6010	CALCIUM				3500	4490	5490	6200	5600
SW6010	IRON				0.295	0.303	0.0839 J	0.434	0.677
SW6010	MAGNESIUM				260	242	244	249	208
SW6010	MANGANESE				0.267	0.279	0.28	0.321	0.267
SW6010	POTASSIUM				83.3	99.2	110	116	98.3
SW6010	SODIUM				3990	5480	6780	7480	6840
SW9050	Conductivity	23600	27000	29800	34400	44800	50700	58500	51600

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-40292	OL-VC-40292	OL-VC-40292	OL-VC-40292	OL-VC-40292	OL-VC-40292	OL-VC-40292	OL-VC-40292	OL-VC-40292
Sample Depth	0.00-0.25 Ft	0.25-0.50 Ft	0.50-0.75 Ft	0.75-1.00 Ft	1.00-1.25 Ft	1.25-1.50 Ft	1.50-1.75 Ft	2.00-2.50 Ft	
Field Sample ID	OL-1272-03	OL-1272-04	OL-1272-05	OL-1272-06	OL-1272-07	OL-1272-08	OL-1272-09	OL-1272-10	
Sample Date	6/8/2010	6/8/2010	6/8/2010	6/8/2010	6/8/2010	6/8/2010	6/8/2010	6/8/2010	
SDG	JA48483	JA48483	JA48483	JA48483	JA48483	JA48483	JA48483	JA48483	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units							
E300.0	CHLORIDE	mg/L							5200
E300.0	SULFATE	mg/L							24.8
E353.2	NITRATE	mg/l							
E353.2	NITROGEN, NITRATE-NITRITE	mg/L							
SM-4500-CIC	CHLORIDE	mg/L	1700	3100	3100	1330	1470	3240	4500
SM20-4500-HB	pH	S.U.	7.4	7.39	7.31	6.98	7.06	7.33	7.39
SM4500-NO2B	NITRITE	mg/l							
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L							
SW6010	CALCIUM	mg/L							445
SW6010	IRON	mg/L							5.13
SW6010	MAGNESIUM	mg/L							1420
SW6010	MANGANESE	mg/L							0.431
SW6010	POTASSIUM	mg/L							37 J
SW6010	SODIUM	mg/L							1160
SW9050	Conductivity	umhos/cm	5550	8900	9090	5350	5610	11100	14500

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-40292	OL-VC-40292	OL-VC-40292	OL-VC-40292	OL-VC-40292	OL-VC-40292	OL-VC-40292	OL-VC-40293	OL-VC-40293
Sample Depth	2.00-2.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	0.00-0.25 Ft	0.25-0.50 Ft	
Field Sample ID	OL-1272-11	OL-1272-12	OL-1272-13	OL-1272-14	OL-1272-15	OL-1272-16	OL-1273-01	OL-1273-02	
Sample Date	6/8/2010	6/8/2010	6/8/2010	6/8/2010	6/8/2010	6/8/2010	6/8/2010	6/8/2010	
SDG	JA48483	JA48483	JA48483	JA48483	JA48483	JA48483	JA48484	JA48484	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Field duplicate	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units							
E300.0	CHLORIDE	mg/L		5370	4410	3730	2960	2700	
E300.0	SULFATE	mg/L		72.8	43.5	39.4	42.3	24.6	
E353.2	NITRATE	mg/l		0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	
E353.2	NITROGEN, NITRATE-NITRITE	mg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
SM-4500-CIC	CHLORIDE	mg/L						3390	3540
SM20-4500-HB	pH	S.U.		7.41	7.52	7.63	7.48	7.66	7.97
SM4500-NO2B	NITRITE	mg/l		0.02 U	0.0024 J	0.02 U	0.02 U	0.02 U	7.71
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L		0.21	1	0.62	0.34	0.41	
SW6010	CALCIUM	mg/L		131	189	354	110	443	
SW6010	IRON	mg/L		1.81	2.23	5.49	1.57	9.89	
SW6010	MAGNESIUM	mg/L		1440	1270	872	626	528	
SW6010	MANGANESE	mg/L		0.322	0.25	0.686	0.208	0.624	
SW6010	POTASSIUM	mg/L		56.4	68.8	75.2	80.9	87.4	
SW6010	SODIUM	mg/L		1260	1260	1150	1010	927	
SW9050	Conductivity	umhos/cm		14800	13700	10500	9520	8860	10900



**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-40293	OL-VC-40293	OL-VC-40293	OL-VC-40293	OL-VC-40293	OL-VC-40293	OL-VC-40293	OL-VC-40293	
Sample Depth	0.50-0.75 Ft	0.75-1.00 Ft	1.00-1.25 Ft	1.25-1.50 Ft	1.50-1.75 Ft	2.00-2.50 Ft	2.00-2.50 Ft	3.00-3.50 Ft	
Field Sample ID	OL-1273-03	OL-1273-04	OL-1273-05	OL-1273-06	OL-1273-07	OL-1273-08	OL-1273-09	OL-1273-10	
Sample Date	6/8/2010	6/8/2010	6/8/2010	6/8/2010	6/8/2010	6/8/2010	6/8/2010	6/8/2010	
SDG	JA48484	JA48484	JA48484	JA48484	JA48484	JA48484	JA48484	JA48484	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Field duplicate	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units							
E300.0	CHLORIDE						6980	7030	8320
E300.0	SULFATE						23.7	27	65.1
E353.2	NITRATE								0.52 U
E353.2	NITROGEN, NITRATE-NITRITE						0.5 U		0.5 U
SM-4500-CIC	CHLORIDE	3910	4420	5310	5750	5380			
SM20-4500-HB	pH	7.66	7.68	7.69	7.73	7.67	7.58	7.61	7.45
SM4500-NO2B	NITRITE								0.0029 J
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)								0.1 U
SW6010	CALCIUM						480	472	799
SW6010	IRON						2.91	2.55	2.62
SW6010	MAGNESIUM						945	931	908
SW6010	MANGANESE						0.449	0.413	0.881
SW6010	POTASSIUM						67.4	70.4	84.4
SW6010	SODIUM						1930	2100	2530
SW9050	Conductivity	12500	14000	16100	17000	15900	18900	18700	22500

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-40293	OL-VC-40293	OL-VC-40293	OL-VC-40294	OL-VC-40294	OL-VC-40294	OL-VC-40294	OL-VC-40294	OL-VC-40294
Sample Depth	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	0.00-0.25 Ft	0.25-0.50 Ft	0.50-0.75 Ft	0.75-1.00 Ft	1.00-1.25 Ft	
Field Sample ID	OL-1273-11	OL-1273-12	OL-1273-13	OL-1238-16	OL-1238-17	OL-1238-18	OL-1238-19	OL-1238-20	
Sample Date	6/8/2010	6/8/2010	6/8/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	
SDG	JA48484	JA48484	JA48484	JA48094	JA48094	JA48094	JA48094	JA48094	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units							
E300.0	CHLORIDE	mg/L	10500	13700	18800	819	1310	1630	2390
E300.0	SULFATE	mg/L	42	47	10 J				
E353.2	NITRATE	mg/L							
E353.2	NITROGEN, NITRATE-NITRITE	mg/L	0.5 U	0.5 U	0.5 U				
SM-4500-CIC	CHLORIDE	mg/L							
SM20-4500-HB	pH	S.U.	7.33	7.55	7.78	7.58	7.78	7.99	8.2
SM4500-NO2B	NITRITE	mg/l							
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L							
SW6010	CALCIUM	mg/L	1070	1640	2140				
SW6010	IRON	mg/L	1.48	5	1.04				
SW6010	MAGNESIUM	mg/L	764	812	806				
SW6010	MANGANESE	mg/L	0.805	0.958	0.696				
SW6010	POTASSIUM	mg/L	94.1	119	135				
SW6010	SODIUM	mg/L	3390	5250	7640				
SW9050	Conductivity	umhos/cm	27800	34700	47100	3270	4620	5000	6940

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-40294	OL-VC-40294	OL-VC-40294	OL-VC-40294	OL-VC-40294	OL-VC-40294	OL-VC-40294	OL-VC-40294	OL-VC-40294	
Sample Depth	2.00-2.50 Ft	2.00-2.50 Ft	1.25-1.50 Ft	1.50-1.75 Ft	3.00-3.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft		
Field Sample ID	OL-1239-01	OL-1239-02	OL-1239-03	OL-1239-04	OL-1239-05	OL-1239-06	OL-1239-07	OL-1239-08		
Sample Date	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010		
SDG	JA48092	JA48092	JA48092	JA48092	JA48092	JA48092	JA48092	JA48092		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Field duplicate	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	2410	2560	2030	2090	2680	2840	2960	3030
E300.0	SULFATE	mg/L	14.1	16.3			16.7	10.7	12.5	3.8 J
E353.2	NITRATE	mg/L					0.13 J	0.18 J	0.16 J	0.089 J
E353.2	NITROGEN, NITRATE-NITRITE	mg/L		0.13 J			0.14 J	0.19 J	0.16 J	0.093 J
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	8.06	7.98	7.98	8.04	8.08	8.29	8.41	8.56
SM4500-NO2B	NITRITE	mg/l					0.0054 J	0.0069 J	0.02 U	0.0037 J
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L					0.027 J	0.17 J	0.016 J	0.25 J
SW6010	CALCIUM	mg/L		451			556	473	585	527
SW6010	IRON	mg/L		2.18			2.85	1.16	2.14	0.692
SW6010	MAGNESIUM	mg/L		184			164	141	125	130
SW6010	MANGANESE	mg/L		0.257			0.354	0.172	0.179	0.0849
SW6010	POTASSIUM	mg/L		58.2			62.9	69.1	77.5	86.2
SW6010	SODIUM	mg/L		661			699	719	763	824
SW9050	Conductivity	umhos/cm	7240	6690	4960	2970	8170	7210	8640	8830

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-40295	OL-VC-40295	OL-VC-40295	OL-VC-40295	OL-VC-40295	OL-VC-40295	OL-VC-40295	OL-VC-40295	OL-VC-40295
Sample Depth	0.00-0.25 Ft	0.25-0.50 Ft	0.50-0.75 Ft	0.75-1.00 Ft	1.00-1.25 Ft	1.25-1.50 Ft	1.50-1.75 Ft	2.00-2.50 Ft	
Field Sample ID	OL-1255-13	OL-1255-14	OL-1255-15	OL-1255-16	OL-1255-17	OL-1255-18	OL-1255-19	OL-1255-20	
Sample Date	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	
SDG	JA48304	JA48304	JA48304	JA48304	JA48304	JA48304	JA48304	JA48304	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units							
E300.0	CHLORIDE	mg/L							1870
E300.0	SULFATE	mg/L							19.2
E353.2	NITRATE	mg/L							0.52 U
E353.2	NITROGEN, NITRATE-NITRITE	mg/L							0.5 U
SM-4500-CIC	CHLORIDE	mg/L	535	630	782	900	1110	1220	1330
SM20-4500-HB	pH	S.U.	7.05	7.04	7.35	7.4	7.52	7.37	7.58
SM4500-NO2B	NITRITE	mg/l							0.0021 J
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L							0.012 J
SW6010	CALCIUM	mg/L							468
SW6010	IRON	mg/L							4.63
SW6010	MAGNESIUM	mg/L							404
SW6010	MANGANESE	mg/L							0.647
SW6010	POTASSIUM	mg/L							20.1
SW6010	SODIUM	mg/L							516
SW9050	Conductivity	umhos/cm	2710	3230	3810	4070	4620	5120	5440

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-40295	OL-VC-40295	OL-VC-40295	OL-VC-40295	OL-VC-40295	OL-VC-40295	OL-VC-40295	OL-VC-40296	
Sample Depth	3.00-3.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	9.00-9.50 Ft	0.00-0.25 Ft	
Field Sample ID	OL-1256-01	OL-1256-02	OL-1256-03	OL-1256-04	OL-1256-05	OL-1256-06	OL-1256-07	OL-1243-02	
Sample Date	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/2/2010	
SDG	JA48303	JA48303	JA48303	JA48303	JA48303	JA48303	JA48303	JA48095	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Regular sample	Field duplicate	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units							
E300.0	CHLORIDE	2030	2010	2310	2520	2670	2860	2910	690
E300.0	SULFATE	7.1 J	66.2 J	17	22 J	6.7	10.6	10.7	
E353.2	NITRATE			0.15 J	0.13 J	0.13 J	0.11 J	0.12 J	
E353.2	NITROGEN, NITRATE-NITRITE	0.15 J	0.5 U	0.15 J	0.13 J	0.13 J	0.11 J	0.12 J	
SM-4500-CIC	CHLORIDE								
SM20-4500-HB	pH	7.36	7.41	7.5	7.46	7.46	7.65	7.8	7.07
SM4500-NO2B	NITRITE			0.0024 J	0.02 U	0.0032 J	0.02 U	0.02 U	
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)			0.012 J	8.5	0.097 J	0.2	1.4	
SW6010	CALCIUM	184	164	527	284	278	229	128	
SW6010	IRON	1.93	2.21	3.9	2.53	3.06	2.11	1.6	
SW6010	MAGNESIUM	437	442	495	547	547	619	609	
SW6010	MANGANESE	0.447	0.468	0.807	0.576	1.1	0.727	0.387	
SW6010	POTASSIUM	21.2	21.8	25.6	28.9	33.1	37.2	38	
SW6010	SODIUM	541	561	646	698	729	773	747	
SW9050	Conductivity	7220	7200	7070	7040	9660	9590	9600	3110

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-40296	OL-VC-40296	OL-VC-40296	OL-VC-40296	OL-VC-40296	OL-VC-40296	OL-VC-40296	OL-VC-40296	OL-VC-40296	
Sample Depth	0.25-0.50 Ft	0.50-0.75 Ft	0.75-1.00 Ft	1.00-1.25 Ft	1.25-1.50 Ft	1.50-1.75 Ft	2.00-2.50 Ft	2.00-2.50 Ft		
Field Sample ID	OL-1243-03	OL-1243-04	OL-1243-05	OL-1243-06	OL-1243-07	OL-1243-08	OL-1243-09	OL-1243-10		
Sample Date	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010		
SDG	JA48095	JA48095	JA48095	JA48095	JA48095	JA48095	JA48095	JA48095		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Field duplicate		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	839	955	1100	1280	1360	1440	1660	1660
E300.0	SULFATE	mg/L							20.1	18.6
E353.2	NITRATE	mg/L								
E353.2	NITROGEN, NITRATE-NITRITE	mg/L							0.5 U	0.5 U
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	7.26	7.45	7.44	7.65	7.56	7.61	7.72	7.74
SM4500-NO2B	NITRITE	mg/l								
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L								
SW6010	CALCIUM	mg/L							121	150
SW6010	IRON	mg/L							1.07	1.67
SW6010	MAGNESIUM	mg/L							401	394
SW6010	MANGANESE	mg/L							0.277	0.331
SW6010	POTASSIUM	mg/L							20	20.4
SW6010	SODIUM	mg/L							458	470
SW9050	Conductivity	umhos/cm	3610	4060	4640	5210	5350	5580	6190	6200

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-40296	OL-VC-40296	OL-VC-40296	OL-VC-40296	OL-VC-40296	OL-VC-40296	OL-VC-40296	OL-VC-40296A	OL-VC-40296A
Sample Depth	3.00-3.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	9.00-9.50 Ft	0.00-0.25 Ft	0.25-0.50 Ft	
Field Sample ID	OL-1243-11	OL-1243-12	OL-1243-13	OL-1243-14	OL-1243-15	OL-1243-16	OL-1257-02	OL-1257-03	
Sample Date	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/4/2010	6/4/2010	
SDG	JA48095	JA48095	JA48095	JA48095	JA48095	JA48095	JA48334	JA48334	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units							
E300.0	CHLORIDE	1830	2180	2300	2560	2680	2990		
E300.0	SULFATE	17.3	16.1	11.5	14.4	14	32.6	J	
E353.2	NITRATE	0.52	0.52	0.52	0.52	0.52	0.52	U	
E353.2	NITROGEN, NITRATE-NITRITE	0.057	0.5	0.5	0.5	0.5	0.5	U	
SM-4500-CIC	CHLORIDE								66.4 774
SM20-4500-HB	pH	7.72	7.56	7.51	7.41	7.58	7.64	7.26	7.08
SM4500-NO2B	NITRITE	0.022	0.0068	0.0037	0.02	0.0035	0.0082	J	
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	0.018	0.27	0.08	0.14	0.01	0.77	J	
SW6010	CALCIUM	142	199	263	256	207	609		
SW6010	IRON	0.784	0.951	3.02	5.72	1.56	9.55		
SW6010	MAGNESIUM	435	434	412	495	534	559		
SW6010	MANGANESE	0.291	0.419	0.594	0.739	0.69	1.31		
SW6010	POTASSIUM	22.7	23.1	28.4	34.6	40.6	41.5		
SW6010	SODIUM	544	547	574	678	724	732		
SW9050	Conductivity	7090	7840	8460	9120	9600	9590	3140	3490

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-40296A	OL-VC-40296A	OL-VC-40296A	OL-VC-40296A	OL-VC-40296A	OL-VC-40296A	OL-VC-40296A	OL-VC-40296A	OL-VC-40296A
Sample Depth	0.50-0.75 Ft	0.75-1.00 Ft	1.00-1.25 Ft	1.25-1.50 Ft	1.50-1.75 Ft	2.00-2.50 Ft	2.00-2.50 Ft	3.00-3.50 Ft	
Field Sample ID	OL-1257-04	OL-1257-05	OL-1257-06	OL-1257-07	OL-1257-08	OL-1257-09	OL-1257-10	OL-1257-11	
Sample Date	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	
SDG	JA48334	JA48334	JA48334	JA48334	JA48334	JA48334	JA48334	JA48334	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Field duplicate	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units							
E300.0	CHLORIDE	mg/L				1530	1480	1840	
E300.0	SULFATE	mg/L				17 J	32.4 J	23.4	
E353.2	NITRATE	mg/L						0.52 U	
E353.2	NITROGEN, NITRATE-NITRITE	mg/L				0.5 U	0.5 U	0.5 U	
SM-4500-CIC	CHLORIDE	mg/L	885	1000	1180	1250	1390		
SM20-4500-HB	pH	S.U.	7.14	7.64	7.7	7.7	7.82	7.88	7.84
SM4500-NO2B	NITRITE	mg/l							0.02 U
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L							0.033 J
SW6010	CALCIUM	mg/L					101	182	136
SW6010	IRON	mg/L					1.75	2.64	1.33
SW6010	MAGNESIUM	mg/L					492	475	463
SW6010	MANGANESE	mg/L					0.208	0.299	0.233
SW6010	POTASSIUM	mg/L					18.4	18.4 J	22.7
SW6010	SODIUM	mg/L					438	435	542
SW9050	Conductivity	umhos/cm	4160	4660	5140	5710	6150	6360	6510



**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-40296A	OL-VC-40296A	OL-VC-40296A	OL-VC-40296A	OL-VC-40296A	OL-VC-40297	OL-VC-40297	OL-VC-40297		
Sample Depth	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	9.00-9.50 Ft	0.00-0.25 Ft	0.25-0.50 Ft	0.50-0.75 Ft		
Field Sample ID	OL-1257-12	OL-1257-13	OL-1257-14	OL-1257-15	OL-1257-16	OL-1240-18	OL-1240-19	OL-1240-20		
Sample Date	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/2/2010	6/2/2010	6/2/2010		
SDG	JA48334	JA48334	JA48334	JA48334	JA48334	JA48096	JA48096	JA48096		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	2110	2380	2580	2760	2880	798	1270	1440
E300.0	SULFATE	mg/L	8	8.1	7.5	13.6	4.1	J		
E353.2	NITRATE	mg/L	0.52	0.52	0.52	0.52	0.52	U		
E353.2	NITROGEN, NITRATE-NITRITE	mg/L	0.5	0.5	0.5	0.5	0.5	U		
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	7.7	7.44	7.47	7.48	7.63	8.22	9.28	9.57
SM4500-NO2B	NITRITE	mg/l	0.02	0.02	0.02	0.02	0.02	U		
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L	0.02	0.018	0.025	0.054	0.76			
SW6010	CALCIUM	mg/L	230	269	271	352	283			
SW6010	IRON	mg/L	1.73	2.05	2.35	5.3	4.04			
SW6010	MAGNESIUM	mg/L	469	481	507	543	584			
SW6010	MANGANESE	mg/L	0.399	0.601	0.827	1.02	0.846			
SW6010	POTASSIUM	mg/L	25.5	30.1	34.6	39.2	43.2			
SW6010	SODIUM	mg/L	604	661	707	734	763			
SW9050	Conductivity	umhos/cm	8110	9220	9620	9950	10300	3120	4170	4760

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-40297	OL-VC-40297	OL-VC-40297	OL-VC-40297	OL-VC-40297	OL-VC-40297	OL-VC-40297	OL-VC-40297	OL-VC-40297	
Sample Depth	0.75-1.00 Ft	1.00-1.25 Ft	1.25-1.50 Ft	1.50-1.75 Ft	2.00-2.50 Ft	2.00-2.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft		
Field Sample ID	OL-1241-01	OL-1241-02	OL-1241-03	OL-1241-04	OL-1241-05	OL-1241-06	OL-1241-07	OL-1241-08		
Sample Date	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010		
SDG	JA48097	JA48097	JA48097	JA48097	JA48097	JA48097	JA48097	JA48097		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Field duplicate	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	1750	1870	1930	2010	2430	2390	2940	2930
E300.0	SULFATE	mg/L					17.1	11.6	31.4	191
E353.2	NITRATE	mg/L							0.3	J
E353.2	NITROGEN, NITRATE-NITRITE	mg/L							0.31	J
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	9.76	9.78	9.55	9.45	9.09	9.2	7.95	7.79
SM4500-NO2B	NITRITE	mg/l							0.0065	J
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L							0.52	J
SW6010	CALCIUM	mg/L							302	
SW6010	IRON	mg/L							0.727	
SW6010	MAGNESIUM	mg/L							296	
SW6010	MANGANESE	mg/L							0.47	
SW6010	POTASSIUM	mg/L							54.4	
SW6010	SODIUM	mg/L							826	
SW9050	Conductivity	umhos/cm	5050	5580	5770	6140	7290	7160	8870	9170

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-40297	OL-VC-40297	OL-VC-40297	OL-VC-40297	OL-VC-40297A	OL-VC-40297A	OL-VC-40297A	OL-VC-40297A		
Sample Depth	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	9.00-9.50 Ft	0.00-0.25 Ft	0.25-0.50 Ft	0.50-0.75 Ft	0.75-1.00 Ft		
Field Sample ID	OL-1241-09	OL-1241-10	OL-1241-11	OL-1241-12	OL-1241-13	OL-1241-14	OL-1241-15	OL-1241-16		
Sample Date	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010		
SDG	JA48097	JA48097	JA48097	JA48097	JA48097	JA48097	JA48097	JA48097		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	3110	3120	3030	3140	670	926	1020	1330
E300.0	SULFATE	mg/L	19	14.7	13.9	11.4				
E353.2	NITRATE	mg/L	0.076 J	0.52 U	0.52 U	0.084 J				
E353.2	NITROGEN, NITRATE-NITRITE	mg/L	0.076 J	0.04 J	0.5 U	0.084 J				
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	7.71	7.56	7.6	7.93	7.21	8.76	9.02	9.42
SM4500-NO2B	NITRITE	mg/l	0.02 UJ	0.02 UJ	0.02 UJ	0.02 UJ				
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L	0.07 J	0.25 UJ	0.027 J	0.7 J				
SW6010	CALCIUM	mg/L	199	233	366	241				
SW6010	IRON	mg/L	1.3	2.24	5.51	2.15				
SW6010	MAGNESIUM	mg/L	369	344	358	310				
SW6010	MANGANESE	mg/L	0.624	0.656	1.11	0.465				
SW6010	POTASSIUM	mg/L	54.9	55	66	61.6				
SW6010	SODIUM	mg/L	862	831	896	797				
SW9050	Conductivity	umhos/cm	9620	9760	9550	9720	3750	3270	3710	4490

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-40297A	OL-VC-40297A	OL-VC-40297A	OL-VC-40297A	OL-VC-40297A	OL-VC-40297A	OL-VC-40297A	OL-VC-40297A	OL-VC-40297A	
Sample Depth	1.00-1.25 Ft	1.25-1.50 Ft	1.50-1.75 Ft	2.00-2.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft		
Field Sample ID	OL-1241-17	OL-1241-18	OL-1241-19	OL-1241-20	OL-1242-02	OL-1242-03	OL-1242-04	OL-1242-05		
Sample Date	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010		
SDG	JA48097	JA48097	JA48097	JA48097	JA48093	JA48093	JA48093	JA48093		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	1530	1590	1710	1940	3070	3110	3100	3230	
E300.0	SULFATE				6.4	14.5	7.6	11	19	J
E353.2	NITRATE				0.1	0.12	0.16	0.09	0.13	J
E353.2	NITROGEN, NITRATE-NITRITE				0.1	0.13	0.16	0.09	0.13	J
SM-4500-CIC	CHLORIDE									
SM20-4500-HB	pH	9.55	9.67	9.66	9.69	7.53	7.63	7.58	7.84	
SM4500-NO2B	NITRITE				0.02	0.006	0.02	0.02	0.0032	J
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)				0.1	0.009	0.12	0.12	0.3	
SW6010	CALCIUM				449	545	341	268	423	
SW6010	IRON				1.12	5.52	1.87	2.15	3.64	
SW6010	MAGNESIUM				143	390	368	347	334	
SW6010	MANGANESE				0.222	0.963	0.574	0.845	0.731	
SW6010	POTASSIUM				39.4	58.6	59.4	62	69.4	
SW6010	SODIUM				512	893	899	891	885	
SW9050	Conductivity	4850	5070	5300	5810	9770	9470	9840	9580	

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-40297A	OL-VC-40298	OL-VC-40298	OL-VC-40298	OL-VC-40298	OL-VC-40298	OL-VC-40298	OL-VC-40298	OL-VC-40298	
Sample Depth	9.00-9.50 Ft	0.00-0.25 Ft	0.25-0.50 Ft	0.50-0.75 Ft	0.75-1.00 Ft	1.00-1.25 Ft	1.25-1.50 Ft	1.50-1.75 Ft	1.75-2.00 Ft	
Field Sample ID	OL-1242-06	OL-1258-12	OL-1258-13	OL-1258-14	OL-1258-15	OL-1258-16	OL-1258-17	OL-1258-18	OL-1258-19	
Sample Date	6/2/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	
SDG	JA48093	JA48335	JA48335	JA48335	JA48335	JA48335	JA48335	JA48335	JA48335	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	3180							
E300.0	SULFATE	mg/L	22.8							
E353.2	NITRATE	mg/L	0.075 J							
E353.2	NITROGEN, NITRATE-NITRITE	mg/L	0.079 J							
SM-4500-CIC	CHLORIDE	mg/L		2850	4530	5570	6380	8330	9220	10500
SM20-4500-HB	pH	S.U.	8.17	7.23	7.22	7.17	7.17	7.18	7.03	7.2
SM4500-NO2B	NITRITE	mg/l	0.0043 J							
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L	0.1 U							
SW6010	CALCIUM	mg/L	252							
SW6010	IRON	mg/L	1.55							
SW6010	MAGNESIUM	mg/L	334							
SW6010	MANGANESE	mg/L	0.189							
SW6010	POTASSIUM	mg/L	65.3							
SW6010	SODIUM	mg/L	864							
SW9050	Conductivity	umhos/cm	9250	9780	14600	17900	20100	24100	27400	30300

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-40298	OL-VC-40298	OL-VC-40298	OL-VC-40298	OL-VC-40298	OL-VC-40298	OL-VC-40298	OL-VC-40298	OL-VC-40298	
Sample Depth	2.00-2.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	9.00-9.50 Ft		
Field Sample ID	OL-1258-19	OL-1258-20	OL-1259-01	OL-1259-02	OL-1259-03	OL-1259-04	OL-1259-05	OL-1259-06		
Sample Date	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010		
SDG	JA48335	JA48335	JA48308	JA48308	JA48308	JA48308	JA48308	JA48308		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Field duplicate	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	14100	17300			19700	22700	23600	25100
E300.0	SULFATE	mg/L	149	75.9			124	142	66.8	61.7
E353.2	NITRATE	mg/L	0.52 U	0.52 U	0.15 J	0.14 J	0.27 J	0.19 J	0.51 J	0.39 J
E353.2	NITROGEN, NITRATE-NITRITE	mg/L	0.5 U	0.5 U	0.15 J	0.14 J	0.27 J	0.19 J	0.51	0.39 J
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	7.03	6.88	6.96	7.07	7.01	7.14	6.94	6.93
SM4500-NO2B	NITRITE	mg/l	0.0026 J	0.02 U	0.0025 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L	0.42 J	0.85	1.6	0.87	1.2	1.3	1.7	1.9
SW6010	CALCIUM	mg/L	1180	1290	1320	1230	1050	881	738	720
SW6010	IRON	mg/L	0.557	0.583	0.638	0.259 J	0.506	0.352 J	0.274 J	0.176 J
SW6010	MAGNESIUM	mg/L	120	138	160	155	155	179	182	205
SW6010	MANGANESE	mg/L	0.472	0.624	0.627	0.372	0.217	0.24	0.293	0.353
SW6010	POTASSIUM	mg/L	59.1	74.9	56.8	57.7	61.4	69.2	67.6	76.6
SW6010	SODIUM	mg/L	7090	9070	9230	9710	10300	10800	11400	13600
SW9050	Conductivity	umhos/cm	38300	45500			48400	55900	58800	60000

**Table A4**  
**Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-40299	OL-VC-40299	OL-VC-40299	OL-VC-40299	OL-VC-40299	OL-VC-40299	OL-VC-40299	OL-VC-40299		
Sample Depth	0.00-0.25 Ft	0.25-0.50 Ft	0.50-0.75 Ft	0.75-1.00 Ft	1.00-1.25 Ft	1.25-1.50 Ft	1.50-1.75 Ft	2.00-2.50 Ft		
Field Sample ID	OL-1254-03	OL-1254-04	OL-1254-05	OL-1254-06	OL-1254-07	OL-1254-08	OL-1254-09	OL-1254-10		
Sample Date	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010		
SDG	JA48309	JA48309	JA48309	JA48309	JA48309	JA48309	JA48309	JA48309		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L						7070		
E300.0	SULFATE	mg/L						157		
E353.2	NITRATE	mg/L								
E353.2	NITROGEN, NITRATE-NITRITE	mg/L								
SM-4500-CIC	CHLORIDE	mg/L	922	1600	1920	2090	3610	4170	4720	
SM20-4500-HB	pH	S.U.	7.44	7.36	7.36	7.29	7.32	7.33	7.21	7.07
SM4500-NO2B	NITRITE	mg/l								
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L								
SW6010	CALCIUM	mg/L							694	
SW6010	IRON	mg/L							2.3	
SW6010	MAGNESIUM	mg/L							64	
SW6010	MANGANESE	mg/L							0.61	
SW6010	POTASSIUM	mg/L							17.1	
SW6010	SODIUM	mg/L							2240	
SW9050	Conductivity	umhos/cm	3670	5580	6400	7260	11000	12800	15100	20300

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-40299	OL-VC-40299	OL-VC-40299	OL-VC-40299	OL-VC-40299	OL-VC-40299	OL-VC-40299	OL-VC-40299	OL-VC-40301
Sample Depth	2.00-2.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	9.00-9.50 Ft	0.00-0.25 Ft	
Field Sample ID	OL-1254-11	OL-1254-12	OL-1254-13	OL-1254-14	OL-1254-15	OL-1254-16	OL-1254-17	OL-1266-11	
Sample Date	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/7/2010	
SDG	JA48309	JA48309	JA48309	JA48309	JA48309	JA48309	JA48309	JA48382	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Field duplicate	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units							
E300.0	CHLORIDE	mg/L	6900	9170	12100	14000	16400	18100	21900
E300.0	SULFATE	mg/L	107	123	48.2	43.5	31.2	23.2	33
E353.2	NITRATE	mg/L		0.52 U	0.52 U	0.52 U	0.056 J	0.52 U	
E353.2	NITROGEN, NITRATE-NITRITE	mg/L		0.5 U	0.5 U	0.5 U	0.056 J	0.5 U	0.5 U
SM-4500-CIC	CHLORIDE	mg/L							612
SM20-4500-HB	pH	S.U.	7.05	6.9	7.06	6.63	0	6.86	6.96
SM4500-NO2B	NITRITE	mg/l		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L		0.88	2	0.31	5	4.9	
SW6010	CALCIUM	mg/L	858	823	874	909	802	746	773
SW6010	IRON	mg/L	2.77	0.282 J	0.219 J	0.321 J	0.279 J	0.392 J	0.307 J
SW6010	MAGNESIUM	mg/L	81.9	86	105	132	145	153	186
SW6010	MANGANESE	mg/L	0.908	0.26	0.459	0.276	0.36	0.677	0.695
SW6010	POTASSIUM	mg/L	21.4	32	34.9	43.7	48.4	51.3	59.6
SW6010	SODIUM	mg/L	2940	5110	6170	7800	9290	10200	12000
SW9050	Conductivity	umhos/cm	19400	24600	31300	35000	42400	45000	54500
									2710



**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-40301	OL-VC-40301	OL-VC-40301	OL-VC-40301	OL-VC-40301	OL-VC-40301	OL-VC-40301	OL-VC-40301	OL-VC-40301
Sample Depth	0.25-0.50 Ft	0.50-0.75 Ft	0.75-1.00 Ft	1.00-1.25 Ft	1.25-1.50 Ft	1.50-1.75 Ft	2.00-2.50 Ft	3.00-3.50 Ft	
Field Sample ID	OL-1266-12	OL-1266-13	OL-1266-14	OL-1266-15	OL-1266-16	OL-1266-17	OL-1266-18	OL-1266-19	
Sample Date	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	
SDG	JA48382	JA48382	JA48382	JA48382	JA48382	JA48382	JA48382	JA48382	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units							
E300.0	CHLORIDE							1660	2330
E300.0	SULFATE							18.7	74.8
E353.2	NITRATE							0.52	0.52 U
E353.2	NITROGEN, NITRATE-NITRITE							0.5	0.5 U
SM-4500-CIC	CHLORIDE	745	855	1060	1090	1150	1250		
SM20-4500-HB	pH	7.54	7.32	7.26	7.39	7.52	7.29	7.3	7.26
SM4500-NO2B	NITRITE							0.0032	0.02 U
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)							0.02	0.01 J
SW6010	CALCIUM							273	432
SW6010	IRON							1.68	8.83
SW6010	MAGNESIUM							245	391
SW6010	MANGANESE							0.649	0.791
SW6010	POTASSIUM							14.4	23.1
SW6010	SODIUM							390	752
SW9050	Conductivity	3240	3750	4890	4800	4930	5490	6940	8810

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-40301	OL-VC-40301	OL-VC-40301	OL-VC-40301	OL-VC-40301	OL-VC-40301	OL-VC-40301	OL-VC-40301	OL-VC-40301
Sample Depth	4.00-4.50 Ft	5.00-5.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	9.00-9.30 Ft	0.00-0.25 Ft	0.50-0.75 Ft	
Field Sample ID	OL-1266-20	OL-1267-01	OL-1267-02	OL-1267-03	OL-1267-04	OL-1267-05	OL-1265-16	OL-1265-17	
Sample Date	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	
SDG	JA48382	JA48383	JA48383	JA48383	JA48383	JA48383	JA48381	JA48381	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Regular sample	Regular sample	Field duplicate	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units							
E300.0	CHLORIDE	mg/L	3050	3900	3870	4710	5010	6580	
E300.0	SULFATE	mg/L	6 J	931	684	636	966	595	
E353.2	NITRATE	mg/L	0.52 U						
E353.2	NITROGEN, NITRATE-NITRITE	mg/L	0.5 U			0.5 U		0.5 U	
SM-4500-CIC	CHLORIDE	mg/L						9590	26500
SM20-4500-HB	pH	S.U.	6.93	6.89	6.88	6.71	6.9	6.69	6.9
SM4500-NO2B	NITRITE	mg/l	0.0029 J						
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L	0.1 U						
SW6010	CALCIUM	mg/L	651			1510	1040	1070	
SW6010	IRON	mg/L	20.2			28	25.9	27.1	
SW6010	MAGNESIUM	mg/L	350			149	87.8	118	
SW6010	MANGANESE	mg/L	1.79			2.38	1.6	3.47	
SW6010	POTASSIUM	mg/L	25.9			24	25.4	39.9	
SW6010	SODIUM	mg/L	962			1070	1240	2650	
SW9050	Conductivity	umhos/cm	10800	11900	11700	13700	14800	18000	27400
									66100

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-40302	OL-VC-40302	OL-VC-40302	OL-VC-40302	OL-VC-40302	OL-VC-40302	OL-VC-40302	OL-VC-40302		
Sample Depth	0.25-0.50 Ft	0.75-1.00 Ft	1.00-1.25 Ft	1.25-1.50 Ft	1.50-1.75 Ft	2.00-2.50 Ft	2.00-2.50 Ft	3.00-3.50 Ft		
Field Sample ID	OL-1265-18	OL-1265-19	OL-1265-20	OL-1266-01	OL-1266-02	OL-1266-03	OL-1266-04	OL-1266-05		
Sample Date	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010		
SDG	JA48381	JA48381	JA48381	JA48382	JA48382	JA48382	JA48382	JA48382		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Field duplicate	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L					33200	33700	35800	
E300.0	SULFATE	mg/L					144	230	549	
E353.2	NITRATE	mg/L							0.52 U	
E353.2	NITROGEN, NITRATE-NITRITE	mg/L					0.5 U	0.5	0.5 U	
SM-4500-CIC	CHLORIDE	mg/L	19600	29200	29800	28000	25800			
SM20-4500-HB	pH	S.U.	7.03	7.45	7.79	8.15	7.94	7.3	7.12	6.82
SM4500-NO2B	NITRITE	mg/l								0.0021 J
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L								0.1 U
SW6010	CALCIUM	mg/L						5470	5470	3820
SW6010	IRON	mg/L						7.54	3.47	1.36
SW6010	MAGNESIUM	mg/L						337	375	294
SW6010	MANGANESE	mg/L						1.39	0.797	0.311
SW6010	POTASSIUM	mg/L						160	169	128
SW6010	SODIUM	mg/L						11100	12300	9500
SW9050	Conductivity	umhos/cm	51500	72100	72600	69500	64100	74900	75900	69500

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-40302	OL-VC-40302	OL-VC-40302	OL-VC-40302	OL-VC-40302	OL-VC-40305	OL-VC-40305	OL-VC-40305
Sample Depth	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	9.00-9.50 Ft	0.00-0.25 Ft	0.25-0.50 Ft	0.50-0.75 Ft
Field Sample ID	OL-1266-06	OL-1266-07	OL-1266-08	OL-1266-09	OL-1266-10	OL-1265-01	OL-1265-02	OL-1265-03
Sample Date	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010
SDG	JA48382	JA48382	JA48382	JA48382	JA48382	JA48381	JA48381	JA48381
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water
Method	Parameter Name	Units						
E300.0	CHLORIDE	mg/L	35500	36600	38500	38900	39500	
E300.0	SULFATE	mg/L	377	1100	353	373	807	
E353.2	NITRATE	mg/L	0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	
E353.2	NITROGEN, NITRATE-NITRITE	mg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
SM-4500-CIC	CHLORIDE	mg/L					8110	13100
SM20-4500-HB	pH	S.U.	6.57	6.53	6.32	6.41	6.7	7.1
SM4500-NO2B	NITRITE	mg/l	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	
SW6010	CALCIUM	mg/L	6200	7330	7670	8600	6020	
SW6010	IRON	mg/L	0.774	0.803	0.381 J	0.356 J	0.781	
SW6010	MAGNESIUM	mg/L	425	430	410	397	361	
SW6010	MANGANESE	mg/L	0.398	0.348	0.332	0.377	0.367	
SW6010	POTASSIUM	mg/L	173	170	167	169	168	
SW6010	SODIUM	mg/L	12700	13300	12000	12800	14600	
SW9050	Conductivity	umhos/cm	80300	75500	84300	87000	57800	23100
								34600
								47300

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-40305	OL-VC-40305	OL-VC-40305	OL-VC-40305	OL-VC-40305	OL-VC-40305	OL-VC-40305	OL-VC-40305	OL-VC-40305
Sample Depth	0.75-1.00 Ft	1.00-1.25 Ft	1.25-1.50 Ft	1.50-1.75 Ft	2.00-2.50 Ft	2.00-2.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft	
Field Sample ID	OL-1265-04	OL-1265-05	OL-1265-06	OL-1265-07	OL-1265-08	OL-1265-09	OL-1265-10	OL-1265-11	
Sample Date	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	
SDG	JA48381	JA48381	JA48381	JA48381	JA48381	JA48381	JA48381	JA48381	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Field duplicate	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units							
E300.0	CHLORIDE	mg/L				58800	62900	69500	80100
E300.0	SULFATE	mg/L				83.7	71.2 J	52.2 J	72.2 J
E353.2	NITRATE	mg/L						0.52 U	0.52 U
E353.2	NITROGEN, NITRATE-NITRITE	mg/L				0.4 J	0.22 J	0.5 U	0.5 U
SM-4500-CIC	CHLORIDE	mg/L	23300	30100	34100	37800			
SM20-4500-HB	pH	S.U.	6.6	6.63	6.56	6.5	6.63	6.43	6.18
SM4500-NO2B	NITRITE	mg/l						0.02 U	0.02 U
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L						0.1 U	0.1 U
SW6010	CALCIUM	mg/L					14000	18500	21600
SW6010	IRON	mg/L					38.5	12.1	14.8
SW6010	MAGNESIUM	mg/L					95.7	91.2	98
SW6010	MANGANESE	mg/L					2.86	2.91	2.88
SW6010	POTASSIUM	mg/L					220	283	357
SW6010	SODIUM	mg/L					11800	16700	19800
SW9050	Conductivity	umhos/cm	53600	73200	80800	86800	110000	117000	133000

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-40305	OL-VC-40305	OL-VC-40305	OL-VC-40305	OL-VC-40306	OL-VC-40306	OL-VC-40306	OL-VC-40306	OL-VC-40306
Sample Depth	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	9.00-9.50 Ft	0.00-0.25 Ft	0.25-0.50 Ft	0.50-0.75 Ft	0.75-1.00 Ft	
Field Sample ID	OL-1265-12	OL-1265-13	OL-1265-14	OL-1265-15	OL-1261-08	OL-1261-09	OL-1261-10	OL-1261-11	
Sample Date	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	
SDG	JA48381	JA48381	JA48381	JA48381	JA48377	JA48377	JA48377	JA48377	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units							
E300.0	CHLORIDE	mg/L	74400	76500	77900	77600			
E300.0	SULFATE	mg/L	46.5 J	69.1 J	79.5 J	52.2 J			
E353.2	NITRATE	mg/L		0.52 U	0.52 U				
E353.2	NITROGEN, NITRATE-NITRITE	mg/L	0.5 U	0.5 U	0.5 U	0.5 U			
SM-4500-CIC	CHLORIDE	mg/L				995	1420	1950	2480
SM20-4500-HB	pH	S.U.	6.05	6.06	6.06	6.06	6.91	6.94	7.01
SM4500-NO2B	NITRITE	mg/l		0.02 U	0.02 U				
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L		0.1 U	0.1 U				
SW6010	CALCIUM	mg/L	22600	22000	23200	24200			
SW6010	IRON	mg/L	3.48	2.55	2.99	2.4			
SW6010	MAGNESIUM	mg/L	91.7	87.7	83.8	88.2			
SW6010	MANGANESE	mg/L	2.16	2	2.24	1.97			
SW6010	POTASSIUM	mg/L	370	368	386	399			
SW6010	SODIUM	mg/L	19500	19300	19800	20400			
SW9050	Conductivity	umhos/cm	141000	143000	142000	142000	4250	5410	7190

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-40306	OL-VC-40306	OL-VC-40306	OL-VC-40306	OL-VC-40306	OL-VC-40306	OL-VC-40306	OL-VC-40306	OL-VC-40306
Sample Depth	1.00-1.25 Ft	1.25-1.50 Ft	1.50-1.75 Ft	2.00-2.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	
Field Sample ID	OL-1261-12	OL-1261-13	OL-1261-14	OL-1261-15	OL-1261-16	OL-1261-17	OL-1261-18	OL-1261-19	
Sample Date	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	6/7/2010	
SDG	JA48377	JA48377	JA48377	JA48377	JA48377	JA48377	JA48377	JA48377	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units							
E300.0	CHLORIDE				6310	8620	10300	12400	14600
E300.0	SULFATE				21.2	92.8	27.6	25.5	29.9
E353.2	NITRATE				0.056 J	0.52 U	0.52 U	0.52 U	0.17 J
E353.2	NITROGEN, NITRATE-NITRITE				0.062 J	0.5 U	0.5 U	0.5 U	0.17 J
SM-4500-CIC	CHLORIDE	3760	3240	4420					
SM20-4500-HB	pH	7.07	7.13	7.01	6.97	6.96	6.97	7.01	7.07
SM4500-NO2B	NITRITE				0.0065 J	0.02 U	0.0087 J	0.02 U	0.0024 J
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)				0.1 U	0.05 U	0.1 U	0.1 U	0.1 U
SW6010	CALCIUM				989	971	1210	1570	931
SW6010	IRON				17.7	6.88	4.46	3.39	1.36
SW6010	MAGNESIUM				635	804	828	819	323
SW6010	MANGANESE				1.48	2.5	2.61	2.25	0.998
SW6010	POTASSIUM				45.6	61.3	70.6	83.8	44.4
SW6010	SODIUM				2020	2780	3330	4110	2390
SW9050	Conductivity	12100	10900	14000	189000	24100	28200	33300	38100

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-40306	OL-VC-40306	OL-VC-40307	OL-VC-40307	OL-VC-40307	OL-VC-40307	OL-VC-40307	OL-VC-40307	OL-VC-40307	
Sample Depth	7.50-8.00 Ft	9.00-9.50 Ft	0.00-0.25 Ft	0.25-0.50 Ft	0.50-0.75 Ft	0.75-1.00 Ft	1.00-1.25 Ft	1.25-1.50 Ft		
Field Sample ID	OL-1261-20	OL-1262-01	OL-1256-08	OL-1256-09	OL-1256-10	OL-1256-11	OL-1256-12	OL-1256-13		
Sample Date	6/7/2010	6/7/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010		
SDG	JA48377	JA48378	JA48303	JA48303	JA48303	JA48303	JA48303	JA48303		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	17600	21400						
E300.0	SULFATE	mg/L	52.1	35.3						
E353.2	NITRATE	mg/L	0.52 U	0.52 U						
E353.2	NITROGEN, NITRATE-NITRITE	mg/L	0.5 U	0.5 U						
SM-4500-CIC	CHLORIDE	mg/L			3830	3100	3980	7560	1070	11100
SM20-4500-HB	pH	S.U.	6.95	6.84	7.24	7.08	7.42	7.44	7.62	7.85
SM4500-NO2B	NITRITE	mg/l	0.0032 J	0.0084 J						
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L	0.1 U	0.01 J						
SW6010	CALCIUM	mg/L	2580	3570						
SW6010	IRON	mg/L	16.5	4.31						
SW6010	MAGNESIUM	mg/L	442	189						
SW6010	MANGANESE	mg/L	2.57	2.41						
SW6010	POTASSIUM	mg/L	107	98.5						
SW6010	SODIUM	mg/L	6620	8530						
SW9050	Conductivity	umhos/cm	44700	52300	11600	9700	12800	21400	2730	27700



**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-40307	OL-VC-40307	OL-VC-40307	OL-VC-40307	OL-VC-40307	OL-VC-50087	OL-VC-50087	OL-VC-50087		
Sample Depth	1.50-1.75 Ft	2.00-2.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	9.00-9.50 Ft	0.00-0.25 Ft	0.25-0.50 Ft	0.50-0.75 Ft		
Field Sample ID	OL-1256-14	OL-1256-15	OL-1256-19	OL-1256-20	OL-1257-01	OL-1242-07	OL-1242-08	OL-1242-09		
Sample Date	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/2/2010	6/2/2010	6/2/2010		
SDG	JA48303	JA48303	JA48303	JA48303	JA48334	JA48093	JA48093	JA48093		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	14300		33800	34500	611	680	1070	
E300.0	SULFATE	mg/L	311		42	15.7 J				
E353.2	NITRATE	mg/L		0.2 J	0.21 J	0.52 U				
E353.2	NITROGEN, NITRATE-NITRITE	mg/L		0.2 J	0.21 J	0.5 U				
SM-4500-CIC	CHLORIDE	mg/L	10700							
SM20-4500-HB	pH	S.U.	7.69	7.57	6.57	6.67	6.9	7.17	7.23	7.27
SM4500-NO2B	NITRITE	mg/l			0.02 U	0.02 U	0.02 U			
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L			0.048 J	0.067 J	0.029 J			
SW6010	CALCIUM	mg/L			3680	2570	1100			
SW6010	IRON	mg/L			0.301 J	0.753	0.71			
SW6010	MAGNESIUM	mg/L			175	166	185			
SW6010	MANGANESE	mg/L			0.545	0.58	0.277			
SW6010	POTASSIUM	mg/L			83	77.6	72.2			
SW6010	SODIUM	mg/L			11800	12000	2600			
SW9050	Conductivity	umhos/cm	29000	36400		74500	84300	3190	3590	4630

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-50087	OL-VC-50087	OL-VC-50087	OL-VC-50087	OL-VC-50087	OL-VC-50087	OL-VC-50087	OL-VC-50087	OL-VC-50087	
Sample Depth	0.75-1.00 Ft	1.00-1.25 Ft	1.25-1.50 Ft	1.50-1.75 Ft	2.00-2.50 Ft	2.00-2.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft		
Field Sample ID	OL-1242-10	OL-1242-11	OL-1242-12	OL-1242-13	OL-1242-14	OL-1242-15	OL-1242-16	OL-1242-17		
Sample Date	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010		
SDG	JA48093	JA48093	JA48093	JA48093	JA48093	JA48093	JA48093	JA48093		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Field duplicate	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	2140	3260	4640	6040	8900	9090	13700	17400
E300.0	SULFATE	mg/L					462	421	593	870
E353.2	NITRATE	mg/L								
E353.2	NITROGEN, NITRATE-NITRITE	mg/L								
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	7.38	7.63	7.33	7.45	7.22	7.36	7.34	7.13
SM4500-NO2B	NITRITE	mg/l								
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L								
SW6010	CALCIUM	mg/L								
SW6010	IRON	mg/L								
SW6010	MAGNESIUM	mg/L								
SW6010	MANGANESE	mg/L								
SW6010	POTASSIUM	mg/L								
SW6010	SODIUM	mg/L								
SW9050	Conductivity	umhos/cm	7280	9910	14100	13700	17300	24600	35600	45900

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-50087	OL-VC-50087	OL-VC-50087	OL-VC-50087	OL-VC-50088	OL-VC-50088	OL-VC-50088	OL-VC-50088	OL-VC-50088	
Sample Depth	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	9.00-9.50 Ft	0.00-0.25 Ft	0.25-0.50 Ft	0.50-0.75 Ft	0.75-1.00 Ft		
Field Sample ID	OL-1242-18	OL-1242-19	OL-1242-20	OL-1243-01	OL-1231-09	OL-1231-10	OL-1231-11	OL-1231-12		
Sample Date	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010		
SDG	JA48093	JA48093	JA48093	JA48095	JA47862	JA47862	JA47862	JA47862		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	22200	26900	32200	38500	1090	1970	2850	5180
E300.0	SULFATE	mg/L	893	1140	1580	1860				
E353.2	NITRATE	mg/L	0.13 J	0.18 J	0.12 J					
E353.2	NITROGEN, NITRATE-NITRITE	mg/L	0.13 J	0.18 J	0.12 J	0.05 J				
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	7.07	7.19	7.16	7.26	6.97	7.08	7.18	7.22
SM4500-NO2B	NITRITE	mg/l	0.02 U	0.0049 J	0.02 U					
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L	0.46	0.4	0.16					
SW6010	CALCIUM	mg/L	1390	1490	1250	1940				
SW6010	IRON	mg/L	0.344 J	0.202 J	1.36	2.6				
SW6010	MAGNESIUM	mg/L	315	343	284	450				
SW6010	MANGANESE	mg/L	1.14	1.1	0.762	1.22				
SW6010	POTASSIUM	mg/L	187	205	169	268				
SW6010	SODIUM	mg/L	12100	13200	11500	17900				
SW9050	Conductivity	umhos/cm	56000	64500	76000	87400	4220	7050	9800	16200

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-50088	OL-VC-50088	OL-VC-50088	OL-VC-50088	OL-VC-50088	OL-VC-50088	OL-VC-50088	OL-VC-50088	OL-VC-50088	
Sample Depth	1.00-1.25 Ft	1.25-1.50 Ft	1.50-1.75 Ft	2.00-2.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft		
Field Sample ID	OL-1231-13	OL-1231-14	OL-1231-15	OL-1231-16	OL-1231-17	OL-1231-18	OL-1231-19	OL-1231-20		
Sample Date	6/1/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010		
SDG	JA47862	JA47862	JA47862	JA47862	JA47862	JA47862	JA47862	JA47862		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	6460	5390	4500	8050	11900	15900	19700	23900	
E300.0	SULFATE				9.1 J	13.6 J	8.6 J	20 UJ	120 UJ	
E353.2	NITRATE				0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	
E353.2	NITROGEN, NITRATE-NITRITE				0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
SM-4500-CIC	CHLORIDE									
SM20-4500-HB	pH	7.1	7.07	7.06	6.86	6.76	6.73	6.7	6.62	
SM4500-NO2B	NITRITE				0.02 U	0.02 U	0.02 U	0.0026 J	0.02 U	
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)				0.29 J	0.27 J	0.19 J	0.1 J	0.07 J	
SW6010	CALCIUM				813	1170	1300	1520	2020	
SW6010	IRON				15.8	24.3	49.1	76.2	122	
SW6010	MAGNESIUM				152	213	270	351	476	
SW6010	MANGANESE				2.35	3.37	4.91	5.95	8.76	
SW6010	POTASSIUM				62.3	86	108	146	207	
SW6010	SODIUM				3550	5030	6200	8250	11500	
SW9050	Conductivity	19600	17000	14500	24200	32800	43700	51300	60300	

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-50088	OL-VC-50088	OL-VC-50088A	OL-VC-50088A	OL-VC-50088A	OL-VC-50088A	OL-VC-50088A	OL-VC-50088A	OL-VC-50088A	
Sample Depth	7.50-8.00 Ft	9.00-9.50 Ft	0.00-0.25 Ft	0.25-0.50 Ft	0.50-0.75 Ft	0.75-1.00 Ft	1.00-1.25 Ft	1.25-1.50 Ft		
Field Sample ID	OL-1232-01	OL-1232-02	OL-1232-15	OL-1232-16	OL-1232-17	OL-1232-18	OL-1232-19	OL-1232-20		
Sample Date	6/1/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010		
SDG	JA47853	JA47853	JA47853	JA47853	JA47853	JA47853	JA47853	JA47853		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	29100	36700	1710	2750	3500	4800	6000	6970
E300.0	SULFATE	mg/L	10.2 J	40 U						
E353.2	NITRATE	mg/L	0.14 J	0.51 U						
E353.2	NITROGEN, NITRATE-NITRITE	mg/L	0.14 J	0.5 U						
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	6.64	6.78	7.23	7.13	7.06	7.06	7.03	6.97
SM4500-NO2B	NITRITE	mg/l	0.01 UJ	0.01 UJ						
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L	0.5 UJ	0.87 J						
SW6010	CALCIUM	mg/L	2290	1750						
SW6010	IRON	mg/L	107	16.1						
SW6010	MAGNESIUM	mg/L	567	450						
SW6010	MANGANESE	mg/L	8.29	4.61						
SW6010	POTASSIUM	mg/L	261	216						
SW6010	SODIUM	mg/L	13800	11100						
SW9050	Conductivity	umhos/cm	67800	84000	6180	9040	11600	15000	18100	20400

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-50088A	OL-VC-50088A	OL-VC-50088A	OL-VC-50088A	OL-VC-50088A	OL-VC-50088A	OL-VC-50088A	OL-VC-50088A	OL-VC-50088A	
Sample Depth	1.50-1.75 Ft	2.00-2.50 Ft	2.00-2.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft		
Field Sample ID	OL-1233-01	OL-1233-02	OL-1233-03	OL-1233-04	OL-1233-05	OL-1233-06	OL-1233-07	OL-1233-08		
Sample Date	6/1/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010		
SDG	JA47863	JA47863	JA47863	JA47863	JA47863	JA47863	JA47863	JA47863		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Field duplicate	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	7610	9170	9190	13200	17400	21500	25500	33100
E300.0	SULFATE	mg/L		17.2	14.4	12.3 J	6.5 J	6.4 J	6.6 J	30 U
E353.2	NITRATE	mg/L		0.52 U		0.52 U	0.52 U	0.52 U	0.34 J	0.52 U
E353.2	NITROGEN, NITRATE-NITRITE	mg/L		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.34 J	0.5 U
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	7.35	6.8	6.93	6.84	6.54	6.58	6.61	6.63
SM4500-NO2B	NITRITE	mg/l		0.02 U		0.02 U	0.0037 J	0.02 U	0.02 U	0.02 U
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L		0.19 J		0.5 U	0.12 J	0.5 U	0.5 U	0.5 U
SW6010	CALCIUM	mg/L		695	792	944	1090	1540	1770	1980
SW6010	IRON	mg/L		8.33	7.67	17.5	67.3	122	114	21.4
SW6010	MAGNESIUM	mg/L		129	147	208	266	416	493	587
SW6010	MANGANESE	mg/L		1.74	2.02	3.27	5.38	7.74	7.48	5.66
SW6010	POTASSIUM	mg/L		43.4	50.7	71	88.7	142	191	243
SW6010	SODIUM	mg/L		3160	3770	4910	6390	9280	11500	14600
SW9050	Conductivity	umhos/cm	19000	22300	24700	35600	44400	48900	58800	73000

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-50088A	OL-VC-50089	OL-VC-50089	OL-VC-50089	OL-VC-50089	OL-VC-50089	OL-VC-50089	OL-VC-50089	OL-VC-50089	
Sample Depth	9.00-9.50 Ft	0.00-0.25 Ft	0.25-0.50 Ft	0.50-0.75 Ft	0.75-1.00 Ft	1.00-1.25 Ft	1.25-1.50 Ft	1.50-1.75 Ft		
Field Sample ID	OL-1233-09	OL-1234-01	OL-1234-02	OL-1234-03	OL-1234-04	OL-1234-05	OL-1234-06	OL-1234-07		
Sample Date	6/1/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010		
SDG	JA47863	JA47864	JA47864	JA47864	JA47864	JA47864	JA47864	JA47864		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	38800	964	1600	2410	2950	4430	4960	5480
E300.0	SULFATE	mg/L	18.3	J						
E353.2	NITRATE	mg/L	0.52	U						
E353.2	NITROGEN, NITRATE-NITRITE	mg/L	0.5	U						
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	6.68	7.29	7.3	7.28	7.16	7.02	7.03	7.06
SM4500-NO2B	NITRITE	mg/l	0.02	U						
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L	0.5	U						
SW6010	CALCIUM	mg/L	2990							
SW6010	IRON	mg/L	14.9							
SW6010	MAGNESIUM	mg/L	765							
SW6010	MANGANESE	mg/L	6.68							
SW6010	POTASSIUM	mg/L	339							
SW6010	SODIUM	mg/L	18700							
SW9050	Conductivity	umhos/cm	82700	3830	5530	7760	9790	13300	14400	14500

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-50089	OL-VC-50089	OL-VC-50089	OL-VC-50089	OL-VC-50089	OL-VC-50089	OL-VC-50089	OL-VC-50089	OL-VC-50089	
Sample Depth	2.00-2.50 Ft	2.00-2.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	9.00-9.50 Ft		
Field Sample ID	OL-1234-08	OL-1234-09	OL-1234-10	OL-1234-11	OL-1234-12	OL-1234-13	OL-1234-14	OL-1234-15		
Sample Date	6/1/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010		
SDG	JA47864	JA47864	JA47864	JA47864	JA47864	JA47864	JA47864	JA47864		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Field duplicate	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	7020	7500	9860	18500	13400	20000	22800	29900	
E300.0	SULFATE	12.2 J	22.9 J	70.2	20 U	65.4	18.5 J	69.3	85.5	
E353.2	NITRATE	0.52 U		0.21 J	0.14 J	0.11 J	0.051 J	0.35 J	0.52 U	
E353.2	NITROGEN, NITRATE-NITRITE	0.5 U	0.5 U	0.21 J	0.14 J	0.11 J	0.051 J	0.35 J	0.5 U	
SM-4500-CIC	CHLORIDE									
SM20-4500-HB	pH	6.86	6.83	6.89	6.59	6.52	6.52	6.58	6.62	
SM4500-NO2B	NITRITE	0.0037 J		0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	0.5 U		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
SW6010	CALCIUM	983	833	1230	1950	1540	2440	2590	3340	
SW6010	IRON	16.6 J	7.38 J	21.4	122	64.1	123	110	44.8	
SW6010	MAGNESIUM	173	169	270	548	371	656	703	1000	
SW6010	MANGANESE	2.4	1.74	3.46	9.65	6.91	9.67	9.53	10.1	
SW6010	POTASSIUM	60.5	70.9	104	214	138	259	290	360	
SW6010	SODIUM	2890	2980	4150	8200	5880	9620	10500	13800	
SW9050	Conductivity	20200	20700	27400	46400	34300	46800	55800	70700	



**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-60274	OL-VC-60274	OL-VC-60274	OL-VC-60274	OL-VC-60274	OL-VC-60274	OL-VC-60274	OL-VC-60274	OL-VC-60274
Sample Depth	0.25-0.50 Ft	1.50-1.75 Ft	2.00-2.50 Ft	2.00-2.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	
Field Sample ID	OL-1244-02	OL-1244-07	OL-1244-08	OL-1244-09	OL-1244-10	OL-1244-11	OL-1244-12	OL-1244-13	
Sample Date	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	
SDG	JA48266	JA48266	JA48266	JA48266	JA48266	JA48266	JA48266	JA48266	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Regular sample	Regular sample	Regular sample	Field duplicate	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units							
E300.0	CHLORIDE	mg/L		10900	11100	16500	17000	23500	27600
E300.0	SULFATE	mg/L		455	536	285	231	286	212
E353.2	NITRATE	mg/L				0.18 J			
E353.2	NITROGEN, NITRATE-NITRITE	mg/L				0.18 J			0.21 J
SM-4500-CIC	CHLORIDE	mg/L	1110	2580					
SM20-4500-HB	pH	S.U.	11.53	11.17	7.99	8.01	7.27	7.36	7.3
SM4500-NO2B	NITRITE	mg/l					0.02 U		
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L					0.029 J		
SW6010	CALCIUM	mg/L					1390		3180
SW6010	IRON	mg/L					5.88		11.1
SW6010	MAGNESIUM	mg/L					35.6		108
SW6010	MANGANESE	mg/L					0.602		2.67
SW6010	POTASSIUM	mg/L					97.1		81.5
SW6010	SODIUM	mg/L					8120		10300
SW9050	Conductivity	umhos/cm	88300	4260	27900	27400	38100	40400	54300

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-60274	OL-VC-60274	OL-VC-60275	OL-VC-60275	OL-VC-60275	OL-VC-60275	OL-VC-60275	OL-VC-60275	OL-VC-60275
Sample Depth	7.50-8.00 Ft	9.00-9.50 Ft	0.25-0.50 Ft	0.50-0.75 Ft	0.75-1.00 Ft	1.00-1.25 Ft	1.25-1.50 Ft	1.50-1.75 Ft	1.50-1.75 Ft
Field Sample ID	OL-1244-14	OL-1244-15	OL-1247-03	OL-1247-04	OL-1247-05	OL-1247-06	OL-1247-07	OL-1247-08	OL-1247-08
Sample Date	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010
SDG	JA48266	JA48266	JA48264	JA48264	JA48264	JA48264	JA48264	JA48264	JA48264
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water
Method	Parameter Name	Units							
E300.0	CHLORIDE	mg/L	31700	38000	1610	1460	1550		1820
E300.0	SULFATE	mg/L	215	126					
E353.2	NITRATE	mg/L	0.24 J	0.52 U					
E353.2	NITROGEN, NITRATE-NITRITE	mg/L	0.24 J	0.5 U					
SM-4500-CIC	CHLORIDE	mg/L							
SM20-4500-HB	pH	S.U.	6.88	6.76	7.22	7.11	7.31	7.43	8.16
SM4500-NO2B	NITRITE	mg/l	0.02 U	0.02 U					
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L	0.1 U	0.071 J					
SW6010	CALCIUM	mg/L	1740	372					
SW6010	IRON	mg/L	5.28	0.0204 J					
SW6010	MAGNESIUM	mg/L	116	42.4					
SW6010	MANGANESE	mg/L	0.457	0.0525					
SW6010	POTASSIUM	mg/L	69.2	12.7					
SW6010	SODIUM	mg/L	12900	19500					
SW9050	Conductivity	umhos/cm	72800	82600	5720	5670	5640	5770	6170

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-60275	OL-VC-60275	OL-VC-60275	OL-VC-60275	OL-VC-60275	OL-VC-60275	OL-VC-60275	OL-VC-60275	OL-VC-60275	
Sample Depth	2.00-2.50 Ft	2.00-2.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	9.00-9.50 Ft		
Field Sample ID	OL-1247-09	OL-1247-10	OL-1247-11	OL-1247-12	OL-1247-13	OL-1247-14	OL-1247-15	OL-1247-16		
Sample Date	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010		
SDG	JA48264	JA48264	JA48264	JA48264	JA48264	JA48264	JA48264	JA48264		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Field duplicate	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	1970	1930	2620	3090	3890	7550	16800	27500	
E300.0	SULFATE	242	183	57.8	45.9	39.2	41.1	11.8	61.9	
E353.2	NITRATE			0.053 J	0.52 U			0.24 J		
E353.2	NITROGEN, NITRATE-NITRITE			0.053 J	0.5 U			0.24 J		
SM-4500-CIC	CHLORIDE									
SM20-4500-HB	pH	7.39	7.43	7.54	7.64	7.79	7.54	6.99	6.9	
SM4500-NO2B	NITRITE			0.02 U	0.02 U			0.02 U		
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)			0.091 J	0.57			0.15		
SW6010	CALCIUM	219	165	286	275	167	279	737	1160	
SW6010	IRON	8.23	8.37	3.16	2.19	2.38	1.69	0.875	0.823	
SW6010	MAGNESIUM	12.9	13.2	11.9	12.7	8.37	16	47.9	115	
SW6010	MANGANESE	0.337	0.246	0.294	0.17	0.0978	0.115	0.138	0.152	
SW6010	POTASSIUM	16.5	11.7	31	36.6	26.7	28.5	42.2	57.2	
SW6010	SODIUM	653	449	1280	1400	1040	1930	4680	8250	
SW9050	Conductivity	6300	6260	7920	9460	10800	19700	42300	65700	

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-60276	OL-VC-60276	OL-VC-60276	OL-VC-60276	OL-VC-60276	OL-VC-60276	OL-VC-60276	OL-VC-60276	OL-VC-60276
Sample Depth	0.00-0.25 Ft	0.25-0.50 Ft	0.50-0.75 Ft	0.75-1.00 Ft	1.00-1.25 Ft	1.25-1.50 Ft	1.50-1.75 Ft	2.00-2.50 Ft	
Field Sample ID	OL-1250-01	OL-1250-02	OL-1250-03	OL-1250-04	OL-1250-05	OL-1250-06	OL-1250-07	OL-1250-08	
Sample Date	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	
SDG	JA48261	JA48261	JA48261	JA48261	JA48261	JA48261	JA48261	JA48261	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units							
E300.0	CHLORIDE	mg/L	6670	6640	7610	7390	7760	7120	8130
E300.0	SULFATE	mg/L							130
E353.2	NITRATE	mg/L							
E353.2	NITROGEN, NITRATE-NITRITE	mg/L							
SM-4500-CIC	CHLORIDE	mg/L							
SM20-4500-HB	pH	S.U.	7.93	7.94	7.93	7.97	7.95	8.09	7.92
SM4500-NO2B	NITRITE	mg/l							
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L							
SW6010	CALCIUM	mg/L							
SW6010	IRON	mg/L							
SW6010	MAGNESIUM	mg/L							
SW6010	MANGANESE	mg/L							
SW6010	POTASSIUM	mg/L							
SW6010	SODIUM	mg/L							
SW9050	Conductivity	umhos/cm	19100	19900	21300	20800	22000	16900	21800

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-60276	OL-VC-60276	OL-VC-60276	OL-VC-60276	OL-VC-60276	OL-VC-60276	OL-VC-60276	OL-VC-60276	OL-VC-60276
Sample Depth	2.00-2.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	9.00-9.50 Ft	0.00-6.00 Ft	
Field Sample ID	OL-1250-09	OL-1250-10	OL-1250-11	OL-1250-12	OL-1250-13	OL-1250-14	OL-1250-15	OL-1250-16	
Sample Date	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	
SDG	JA48261	JA48261	JA48261	JA48261	JA48261	JA48261	JA48261	JA48261	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Field duplicate	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units							
E300.0	CHLORIDE	mg/L	9850	14800	17200	19700	22600	27500	33100
E300.0	SULFATE	mg/L	147	129	165	150	151	155	96.2
E353.2	NITRATE	mg/L		0.52 U	0.16 J				
E353.2	NITROGEN, NITRATE-NITRITE	mg/L		0.5 U	0.16 J				
SM-4500-CIC	CHLORIDE	mg/L							
SM20-4500-HB	pH	S.U.	7.87	7.49	7.24	7.2	7.23	6.97	6.89
SM4500-NO2B	NITRITE	mg/l		0.02 U	0.02 U				
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L		0.061 J	0.057 J				
SW6010	CALCIUM	mg/L		652	532	1180		860	1000
SW6010	IRON	mg/L		3.06	1.36	9.68		1.89	2.25
SW6010	MAGNESIUM	mg/L		62.7	66.8	79.8		115	142
SW6010	MANGANESE	mg/L		0.448	0.211	1.19		0.332	0.317
SW6010	POTASSIUM	mg/L		30	30.7	23.2		37.7	41.4
SW6010	SODIUM	mg/L		4940	5900	5150		10200	11700
SW9050	Conductivity	umhos/cm	26500	38400	43900	50000	56400	66100	78900

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-60277	OL-VC-60277	OL-VC-60277	OL-VC-60277	OL-VC-60277	OL-VC-60277	OL-VC-60277	OL-VC-60277	OL-VC-60277
Sample Depth	0.00-0.25 Ft	1.00-1.25 Ft	1.25-1.50 Ft	1.50-1.75 Ft	2.00-2.50 Ft	2.00-2.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft	
Field Sample ID	OL-1244-16	OL-1244-20	OL-1245-01	OL-1245-02	OL-1245-03	OL-1245-04	OL-1245-05	OL-1245-06	
Sample Date	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	
SDG	JA48266	JA48266	JA48262	JA48262	JA48262	JA48262	JA48262	JA48262	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Field duplicate	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units							
E300.0	CHLORIDE	mg/L		291	342	383	367	378	400
E300.0	SULFATE	mg/L				48.1	74.9	134	98.1
E353.2	NITRATE	mg/L							
E353.2	NITROGEN, NITRATE-NITRITE	mg/L						0.5 U	0.61
SM-4500-CIC	CHLORIDE	mg/L	369	269					
SM20-4500-HB	pH	S.U.	8.12	8.07	8.2	8.54	8.82	8.88	9.25
SM4500-NO2B	NITRITE	mg/l							
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L							
SW6010	CALCIUM	mg/L					383	390	422
SW6010	IRON	mg/L					42.2	30.9	35.9
SW6010	MAGNESIUM	mg/L					31.5	24.5	35.8
SW6010	MANGANESE	mg/L					1.36	1.02	1.39
SW6010	POTASSIUM	mg/L					13.3	19.7	18
SW6010	SODIUM	mg/L					142	210	210
SW9050	Conductivity	umhos/cm	2070	1540	1430	1420	1530	1530	1570

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-60277	OL-VC-60277	OL-VC-60277	OL-VC-60277	OL-VC-60278	OL-VC-60278	OL-VC-60278	OL-VC-60278	OL-VC-60278	
Sample Depth	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	9.00-9.50 Ft	0.00-0.25 Ft	0.25-0.50 Ft	0.50-0.75 Ft	0.75-1.00 Ft		
Field Sample ID	OL-1245-07	OL-1245-08	OL-1245-09	OL-1245-10	OL-1245-11	OL-1245-12	OL-1245-13	OL-1245-14		
Sample Date	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010		
SDG	JA48262	JA48262	JA48262	JA48262	JA48262	JA48262	JA48262	JA48262		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	510	1150	5150	8050	625	686	652	646
E300.0	SULFATE	mg/L	182	74.6	178	140				
E353.2	NITRATE	mg/L								
E353.2	NITROGEN, NITRATE-NITRITE	mg/L								
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	9.56	9.36	8.09	7.93	7.47	7.68	7.64	7.63
SM4500-NO2B	NITRITE	mg/l								
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L								
SW6010	CALCIUM	mg/L								
SW6010	IRON	mg/L								
SW6010	MAGNESIUM	mg/L								
SW6010	MANGANESE	mg/L								
SW6010	POTASSIUM	mg/L								
SW6010	SODIUM	mg/L								
SW9050	Conductivity	umhos/cm	2010	3800	15200	22400	2580	2560	2760	2360

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-60278	OL-VC-60278	OL-VC-60278	OL-VC-60278	OL-VC-60278	OL-VC-60278	OL-VC-60278	OL-VC-60278	OL-VC-60278A
Sample Depth	3.00-3.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	9.00-9.50 Ft	0.00-6.00 Ft	2.00-2.50 Ft	
Field Sample ID	OL-1245-19	OL-1245-20	OL-1246-01	OL-1246-02	OL-1246-03	OL-1246-04	OL-1246-05	OL-1246-13	
Sample Date	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	
SDG	JA48262	JA48262	JA48263	JA48263	JA48263	JA48263	JA48263	JA48263	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units							
E300.0	CHLORIDE	mg/L	1620	6760	11700	15700	24300	32700	3310
E300.0	SULFATE	mg/L	345	141	42.5	27.7	74.6	163	255
E353.2	NITRATE	mg/L							
E353.2	NITROGEN, NITRATE-NITRITE	mg/L							
SM-4500-CIC	CHLORIDE	mg/L							
SM20-4500-HB	pH	S.U.	7.58	7.63	7.62	7.64	7.44	7.04	7.72
SM4500-NO2B	NITRITE	mg/l							
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L							
SW6010	CALCIUM	mg/L						1270	
SW6010	IRON	mg/L						4.36	
SW6010	MAGNESIUM	mg/L						173	
SW6010	MANGANESE	mg/L						0.662	
SW6010	POTASSIUM	mg/L						65.1	
SW6010	SODIUM	mg/L						16300	
SW9050	Conductivity	umhos/cm	5610	19100	31600	39200	58200	75900	8980



**Table A4**  
**Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-60278A	OL-VC-60278A	OL-VC-60278A	OL-VC-60278A	OL-VC-60278A	OL-VC-60278A	OL-VC-60278A	OL-VC-60278A	OL-VC-60279
Sample Depth	3.00-3.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	9.00-9.50 Ft	0.00-6.00 Ft	0.75-1.00 Ft	
Field Sample ID	OL-1246-15	OL-1246-16	OL-1246-17	OL-1246-18	OL-1246-19	OL-1246-20	OL-1247-01	OL-1252-04	
Sample Date	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/3/2010	6/4/2010	
SDG	JA48263	JA48263	JA48263	JA48263	JA48263	JA48263	JA48264	JA48332	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units							
E300.0	CHLORIDE	mg/L	8860	12900	15400	19500	29300	34100	
E300.0	SULFATE	mg/L	51.7	14.3	71.4	20.5	120	194	
E353.2	NITRATE	mg/L							
E353.2	NITROGEN, NITRATE-NITRITE	mg/L							
SM-4500-CIC	CHLORIDE	mg/L							1770
SM20-4500-HB	pH	S.U.	7.66	7.58	7.6	7.39	7.2	7.1	7.09
SM4500-NO2B	NITRITE	mg/l							
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L							
SW6010	CALCIUM	mg/L	447	508			392		
SW6010	IRON	mg/L	3.81	4.36			7.79		
SW6010	MAGNESIUM	mg/L	25.4	51.5			18.8		
SW6010	MANGANESE	mg/L	0.465	0.293			0.473		
SW6010	POTASSIUM	mg/L	25.2	21.8			11.5		
SW6010	SODIUM	mg/L	2740	4400			1910		
SW9050	Conductivity	umhos/cm	23900	34100	37800	47200	65100	75600	7250

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-60279	OL-VC-60279	OL-VC-60279	OL-VC-60279	OL-VC-60279	OL-VC-60279	OL-VC-60279	OL-VC-60279	OL-VC-60279
Sample Depth	1.00-1.25 Ft	1.25-1.50 Ft	1.50-1.75 Ft	3.00-3.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	
Field Sample ID	OL-1252-05	OL-1252-06	OL-1252-07	OL-1252-11	OL-1252-12	OL-1252-13	OL-1252-14	OL-1252-15	
Sample Date	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	
SDG	JA48332	JA48332	JA48332	JA48332	JA48332	JA48332	JA48332	JA48332	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units							
E300.0	CHLORIDE	mg/L			458	617	2750	6100	10900
E300.0	SULFATE	mg/L			476	376	402	254	283
E353.2	NITRATE	mg/L							
E353.2	NITROGEN, NITRATE-NITRITE	mg/L							
SM-4500-CIC	CHLORIDE	mg/L	2020	1860	944				
SM20-4500-HB	pH	S.U.	7.47	7.72	7.55	7.94	7.8	7.34	7.72
SM4500-NO2B	NITRITE	mg/l							
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L							
SW6010	CALCIUM	mg/L							
SW6010	IRON	mg/L							
SW6010	MAGNESIUM	mg/L							
SW6010	MANGANESE	mg/L							
SW6010	POTASSIUM	mg/L							
SW6010	SODIUM	mg/L							
SW9050	Conductivity	umhos/cm	7190	6640	6590	2620	3000	8920	17700

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-60279	OL-VC-60281	OL-VC-60281	OL-VC-60281A	OL-VC-60281A	OL-VC-60281A	OL-VC-60281A	OL-VC-60281A		
Sample Depth	9.00-9.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft	2.00-2.50 Ft	2.00-2.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft		
Field Sample ID	OL-1252-16	OL-1233-18	OL-1233-19	OL-1258-04	OL-1258-05	OL-1258-06	OL-1258-07	OL-1258-08		
Sample Date	6/4/2010	6/1/2010	6/1/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010		
SDG	JA48332	JA47863	JA47863	JA48335	JA48335	JA48335	JA48335	JA48335		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Field duplicate	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	25200	2520	3790	1050	984	1200	1500	1680
E300.0	SULFATE	mg/L	40.3	43.3	100	1180	2840	704	10.6	404
E353.2	NITRATE	mg/L						0.52	U	
E353.2	NITROGEN, NITRATE-NITRITE	mg/L						0.5	U	
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	7.11	7.48	7.47	6.93	6.9	7.12	7.4	7.39
SM4500-NO2B	NITRITE	mg/l						0.0051	J	
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L						0.1	U	
SW6010	CALCIUM	mg/L						417	309	
SW6010	IRON	mg/L						5.52	3.9	
SW6010	MAGNESIUM	mg/L						36.1	29.1	
SW6010	MANGANESE	mg/L						0.235	0.462	
SW6010	POTASSIUM	mg/L						39.1	26.9	
SW6010	SODIUM	mg/L						430	484	
SW9050	Conductivity	umhos/cm	61800	7850	11100	5440	6700	5130	5620	5880

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-60281A	OL-VC-60281A	OL-VC-60281A	OL-VC-60282	OL-VC-60282	OL-VC-60282	OL-VC-60282	OL-VC-60283		
Sample Depth	6.00-6.50 Ft	7.50-8.00 Ft	9.00-9.50 Ft	0.00-0.25 Ft	0.25-0.50 Ft	3.00-3.50 Ft	5.00-5.50 Ft	0.75-1.00 Ft		
Field Sample ID	OL-1258-09	OL-1258-10	OL-1258-11	OL-1232-03	OL-1232-04	OL-1232-12	OL-1232-14	OL-1230-19		
Sample Date	6/4/2010	6/4/2010	6/4/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010		
SDG	JA48335	JA48335	JA48335	JA47853	JA47853	JA47853	JA47853	JA47865		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	1570	1680	2230	1740	2240	16400	19900	2300
E300.0	SULFATE	mg/L	153	200	498			28.8	132	
E353.2	NITRATE	mg/L								
E353.2	NITROGEN, NITRATE-NITRITE	mg/L								
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	7.51	7.56	7.62	7.68	7.64	7.32	7.17	7
SM4500-NO2B	NITRITE	mg/l								
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L								
SW6010	CALCIUM	mg/L						841		
SW6010	IRON	mg/L						30		
SW6010	MAGNESIUM	mg/L						140		
SW6010	MANGANESE	mg/L						1.39		
SW6010	POTASSIUM	mg/L						25.5		
SW6010	SODIUM	mg/L						3320		
SW9050	Conductivity	umhos/cm	5680	5950	8060	5790	6990	41100	49700	7950

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-60283	OL-VC-60283	OL-VC-60283	OL-VC-60283	OL-VC-60283	OL-VC-60283	OL-VC-60283	OL-VC-60283	OL-VC-60284	
Sample Depth	1.25-1.50 Ft	1.50-1.75 Ft	2.00-2.50 Ft	2.00-2.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	1.00-1.25 Ft		
Field Sample ID	OL-1231-01	OL-1231-02	OL-1231-03	OL-1231-04	OL-1231-06	OL-1231-07	OL-1231-08	OL-1224-20		
Sample Date	6/1/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010	5/28/2010		
SDG	JA47862	JA47862	JA47862	JA47862	JA47862	JA47862	JA47862	JA47793		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Field duplicate	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	2410	2680	2710	2810	13600	17800	19600	4070
E300.0	SULFATE	mg/L			183 J	269 J	91.8 J	46.3 J	81.7 J	
E353.2	NITRATE	mg/L								
E353.2	NITROGEN, NITRATE-NITRITE	mg/L								
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	7.38	7.11	7.17	7.16	7.25	7.25	7.33	7.31
SM4500-NO2B	NITRITE	mg/l								
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L								
SW6010	CALCIUM	mg/L								
SW6010	IRON	mg/L								
SW6010	MAGNESIUM	mg/L								
SW6010	MANGANESE	mg/L								
SW6010	POTASSIUM	mg/L								
SW6010	SODIUM	mg/L								
SW9050	Conductivity	umhos/cm	7900	8890	8810	9350	37000	46000	51700	12100

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-60284	OL-VC-60284	OL-VC-60284	OL-VC-60284	OL-VC-60284	OL-VC-60284	OL-VC-60284	OL-VC-60284	
Sample Depth	1.50-1.75 Ft	2.00-2.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	
Field Sample ID	OL-1225-02	OL-1225-03	OL-1225-04	OL-1225-05	OL-1225-06	OL-1225-07	OL-1225-08	OL-1225-09	
Sample Date	5/28/2010	5/28/2010	5/28/2010	5/28/2010	5/28/2010	5/28/2010	5/28/2010	5/28/2010	
SDG	JA47795	JA47795	JA47795	JA47795	JA47795	JA47795	JA47795	JA47795	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Field duplicate	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units							
E300.0	CHLORIDE	4870	6400	7670	8290	8260	8890	10600	14300
E300.0	SULFATE		137	10.5	17.3	22.2	56.7	67.6	16.7
E353.2	NITRATE							0.51	0.043
E353.2	NITROGEN, NITRATE-NITRITE			0.072	0.5			0.5	0.043
SM-4500-CIC	CHLORIDE								
SM20-4500-HB	pH	7.14	7.32	7.38	7.56	7.45	7.25	7.4	7.34
SM4500-NO2B	NITRITE							0.01	0.01
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)							0.5	0.5
SW6010	CALCIUM			597	532	517	518	790	516
SW6010	IRON			2.77	1.52	1.46	4.55	3.59	0.631
SW6010	MAGNESIUM			223	205	190	93.7	139	118
SW6010	MANGANESE			0.545	0.51	0.483	0.401	1.15	0.639
SW6010	POTASSIUM			45.3	46.8	45	35.4	54.4	34
SW6010	SODIUM			3410	3840	3640	3200	5860	4960
SW9050	Conductivity	14300	18300	21100	22500	22900	24300	28600	38100

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-60284	OL-VC-60285	OL-VC-60285	OL-VC-60285	OL-VC-60285	OL-VC-60285	OL-VC-60285	OL-VC-60285	OL-VC-60285	
Sample Depth	9.00-9.50 Ft	0.25-0.50 Ft	0.50-0.75 Ft	0.75-1.00 Ft	1.00-1.25 Ft	1.25-1.50 Ft	1.50-1.75 Ft	2.00-2.50 Ft		
Field Sample ID	OL-1225-10	OL-1226-04	OL-1226-05	OL-1226-06	OL-1226-07	OL-1226-08	OL-1226-09	OL-1226-10		
Sample Date	5/28/2010	5/28/2010	5/28/2010	5/28/2010	5/28/2010	5/28/2010	5/28/2010	5/28/2010		
SDG	JA47795	JA47794	JA47794	JA47794	JA47794	JA47794	JA47794	JA47794		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	18900	2870	3360	3670	3400	4650	4300	6040
E300.0	SULFATE	mg/L	118							131
E353.2	NITRATE	mg/L								
E353.2	NITROGEN, NITRATE-NITRITE	mg/L								0.5 U
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	7.45	7.46	7.49	7.53	7.74	7.49	7.19	7.42
SM4500-NO2B	NITRITE	mg/l								
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L								
SW6010	CALCIUM	mg/L								1780
SW6010	IRON	mg/L								13.9
SW6010	MAGNESIUM	mg/L								125
SW6010	MANGANESE	mg/L								2.16
SW6010	POTASSIUM	mg/L								28.4
SW6010	SODIUM	mg/L								2630
SW9050	Conductivity	umhos/cm	47400	9440	10800	11500	10900	14100	12900	16700

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-60285	OL-VC-60285	OL-VC-60285	OL-VC-60285	OL-VC-60286	OL-VC-60286	OL-VC-60286	OL-VC-60286	OL-VC-60286	
Sample Depth	3.00-3.50 Ft	3.00-3.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	0.75-1.00 Ft	1.00-1.25 Ft	1.25-1.50 Ft	1.50-1.75 Ft		
Field Sample ID	OL-1226-11	OL-1226-12	OL-1226-15	OL-1226-16	OL-1226-19	OL-1226-20	OL-1227-02	OL-1227-03		
Sample Date	5/28/2010	5/28/2010	5/28/2010	5/28/2010	5/28/2010	5/28/2010	5/28/2010	5/28/2010		
SDG	JA47794	JA47794	JA47794	JA47794	JA47794	JA47794	JA47796	JA47796		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Field duplicate	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	7960	7940	16500	20200	4970	5860	7970	6910
E300.0	SULFATE	mg/L	98.7	134	70.8	55.6				
E353.2	NITRATE	mg/L								
E353.2	NITROGEN, NITRATE-NITRITE	mg/L				0.5 U				
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	7.32	7.41	7.13	7.21	7.38	7.06	7.4	
SM4500-NO2B	NITRITE	mg/l								
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L								
SW6010	CALCIUM	mg/L				1610				
SW6010	IRON	mg/L				1.03				
SW6010	MAGNESIUM	mg/L				465				
SW6010	MANGANESE	mg/L				0.799				
SW6010	POTASSIUM	mg/L				131				
SW6010	SODIUM	mg/L				9200				
SW9050	Conductivity	umhos/cm	22300	22300	43800	52200	14700	17400	1400	



**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-60286	OL-VC-60286	OL-VC-60286	OL-VC-60286	OL-VC-60286	OL-VC-60287	OL-VC-60287	OL-VC-60287	OL-VC-60287	
Sample Depth	2.00-2.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	0.75-1.00 Ft	1.00-1.25 Ft	1.25-1.50 Ft		
Field Sample ID	OL-1227-04	OL-1227-07	OL-1227-08	OL-1227-09	OL-1227-10	OL-1207-04	OL-1207-05	OL-1207-06		
Sample Date	5/28/2010	5/28/2010	5/28/2010	5/28/2010	5/28/2010	5/25/2010	5/25/2010	5/25/2010		
SDG	JA47796	JA47796	JA47796	JA47796	JA47796	JA47416	JA47416	JA47416		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	12900	28200	31500	33900	37100	2780	3170	4130
E300.0	SULFATE	mg/L	269	18.3 J	14.7 J	16.4 J	25.3 J			
E353.2	NITRATE	mg/L		0.094 J			0.13 J			
E353.2	NITROGEN, NITRATE-NITRITE	mg/L		0.094 J	0.5 U	0.043 J	0.13 J			
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	7.32	6.76	6.85	6.79	6.66	7.66	7.32	7.74
SM4500-NO2B	NITRITE	mg/l		0.02 U			0.02 U			
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L		0.5 U			0.11 J			
SW6010	CALCIUM	mg/L		3070	3560	3890	4060			
SW6010	IRON	mg/L		0.42 J	0.572	0.125 J	0.088 U			
SW6010	MAGNESIUM	mg/L		662	890	1030	1110			
SW6010	MANGANESE	mg/L		0.955	1.18	1.73	2.45			
SW6010	POTASSIUM	mg/L		236	306	322	363			
SW6010	SODIUM	mg/L		10600	12800	14200	15600			
SW9050	Conductivity	umhos/cm	33200	61300	70600	74700	82500	9130	10300	12900

**Table A4  
Validated Groundwater Vibracore Analytical Data**

		OL-VC-60287	OL-VC-60287	OL-VC-60287	OL-VC-60287	OL-VC-60287	OL-VC-60287	OL-VC-60288	OL-VC-60288
Location		OL-VC-60287	OL-VC-60287	OL-VC-60287	OL-VC-60287	OL-VC-60287	OL-VC-60287	OL-VC-60288	OL-VC-60288
Sample Depth		1.50-1.75 Ft	2.00-2.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	1.50-1.75 Ft	2.00-2.50 Ft
Field Sample ID		OL-1207-07	OL-1207-08	OL-1207-09	OL-1207-10	OL-1207-11	OL-1207-12	OL-1215-10	OL-1215-11
Sample Date		5/25/2010	5/25/2010	5/25/2010	5/25/2010	5/25/2010	5/25/2010	5/26/2010	5/26/2010
SDG		JA47416	JA47416	JA47416	JA47416	JA47416	JA47416	JA47530	JA47530
Matrix		WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Sample Purpose		Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
Sample Type		Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water
Method	Parameter Name								
		Units							
E300.0	CHLORIDE	mg/L	5220	9400	16600	20600	26600	29900	6180
E300.0	SULFATE	mg/L		19	33.2	13.2 J	16.9 J	44.3	
E353.2	NITRATE	mg/L							
E353.2	NITROGEN, NITRATE-NITRITE	mg/L		0.5 U		0.5 U	0.5 U		
SM-4500-CIC	CHLORIDE	mg/L							
SM20-4500-HB	pH	S.U.	7.55	7.73	7.35	7.18	7.03	6.76	7.71
SM4500-NO2B	NITRITE	mg/l							
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L							
SW6010	CALCIUM	mg/L		711		2790	4350		
SW6010	IRON	mg/L		1.61		1.07	0.645		
SW6010	MAGNESIUM	mg/L		69.8		366	698		
SW6010	MANGANESE	mg/L		0.158		0.857	1.27		
SW6010	POTASSIUM	mg/L		83.2		248	373		
SW6010	SODIUM	mg/L		4330		8130	10200		
SW9050	Conductivity	umhos/cm	15400	24900	42400	51900	62000	67900	13900
									26500

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-60288	OL-VC-60288	OL-VC-60288	OL-VC-60288	OL-VC-60288	OL-VC-60288	OL-VC-60288	OL-VC-60288	OL-VC-60289
Sample Depth	2.00-2.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	9.00-9.50 Ft	0.25-0.50 Ft	
Field Sample ID	OL-1215-12	OL-1215-13	OL-1215-14	OL-1215-15	OL-1215-16	OL-1215-17	OL-1215-18	OL-1252-17	
Sample Date	5/26/2010	5/26/2010	5/26/2010	5/26/2010	5/26/2010	5/26/2010	5/26/2010	6/4/2010	
SDG	JA47530	JA47530	JA47530	JA47530	JA47530	JA47530	JA47530	JA48332	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Field duplicate	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units							
E300.0	CHLORIDE	mg/L	10100	13500	19000	26800	33000	40500	44700
E300.0	SULFATE	mg/L	39	30.9	14.7 J	11.4 J	26.8 J	36.7	12.6 J
E353.2	NITRATE	mg/L							
E353.2	NITROGEN, NITRATE-NITRITE	mg/L							
SM-4500-CIC	CHLORIDE	mg/L							981
SM20-4500-HB	pH	S.U.	7.67	7.75	7.55	7.16	7.19	7.07	7.08
SM4500-NO2B	NITRITE	mg/l							
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L							
SW6010	CALCIUM	mg/L				865		1560	1960
SW6010	IRON	mg/L				1.44		0.898	2.33
SW6010	MAGNESIUM	mg/L				123		209	258
SW6010	MANGANESE	mg/L				0.406		0.488	0.771
SW6010	POTASSIUM	mg/L				72.6		90.8	97.8
SW6010	SODIUM	mg/L				10300		16100	18600
SW9050	Conductivity	umhos/cm	27600	34900	47900	65000	77000	92400	102000
									4220

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-60289	OL-VC-60289	OL-VC-60289	OL-VC-60289	OL-VC-60289	OL-VC-60289	OL-VC-60289	OL-VC-60289	
Sample Depth	0.00-0.25 Ft	0.50-0.75 Ft	0.75-1.00 Ft	1.00-1.25 Ft	2.00-2.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft	
Field Sample ID	OL-1252-18	OL-1252-19	OL-1252-20	OL-1253-01	OL-1253-04	OL-1253-05	OL-1253-06	OL-1253-07	
Sample Date	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	
SDG	JA48332	JA48332	JA48332	JA48333	JA48333	JA48333	JA48333	JA48333	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units							
E300.0	CHLORIDE					3310	7680	16200	28600
E300.0	SULFATE					653	91.2	40	27.2
E353.2	NITRATE								0.52 U
E353.2	NITROGEN, NITRATE-NITRITE							0.5 U	0.5 U
SM-4500-CIC	CHLORIDE	1020	1030	1130	1160				
SM20-4500-HB	pH	S.U. 6.86	6.95	6.97	6.98	6.74	6.72	6.83	6.64
SM4500-NO2B	NITRITE								0.011 J
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)								5.6
SW6010	CALCIUM							841	823
SW6010	IRON							68.4	44.7
SW6010	MAGNESIUM							150	186
SW6010	MANGANESE							2.52	2.36
SW6010	POTASSIUM							33.2	44.4
SW6010	SODIUM							5800	11700
SW9050	Conductivity	umhos/cm 4610	4250	4550	4790	11200	22800	121000	93800

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-60289	OL-VC-60290	OL-VC-60290	OL-VC-60290	OL-VC-60290	OL-VC-60290	OL-VC-60290	OL-VC-60290	OL-VC-60290
Sample Depth	6.00-6.40 Ft	0.00-0.25 Ft	0.25-0.50 Ft	0.50-0.75 Ft	0.75-1.00 Ft	1.00-1.25 Ft	1.25-1.50 Ft	1.50-1.75 Ft	
Field Sample ID	OL-1253-08	OL-1216-14	OL-1216-15	OL-1216-16	OL-1216-17	OL-1216-18	OL-1216-19	OL-1216-20	
Sample Date	6/4/2010	5/26/2010	5/26/2010	5/26/2010	5/26/2010	5/26/2010	5/26/2010	5/26/2010	
SDG	JA48333	JA47531	JA47531	JA47531	JA47531	JA47531	JA47531	JA47531	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units							
E300.0	CHLORIDE	mg/L	33400	616	649	700	791	965	1060
E300.0	SULFATE	mg/L	90.6						
E353.2	NITRATE	mg/L							
E353.2	NITROGEN, NITRATE-NITRITE	mg/L							
SM-4500-CIC	CHLORIDE	mg/L							
SM20-4500-HB	pH	S.U.	6.73	7.42	7.4	7.5	7.71	7.6	7.5
SM4500-NO2B	NITRITE	mg/l							
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L							
SW6010	CALCIUM	mg/L	1410						
SW6010	IRON	mg/L	100						
SW6010	MAGNESIUM	mg/L	201						
SW6010	MANGANESE	mg/L	3.69						
SW6010	POTASSIUM	mg/L	43.5						
SW6010	SODIUM	mg/L	12000						
SW9050	Conductivity	umhos/cm	79600	3080	3250	3690	4030	5040	5680

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-60290	OL-VC-60290	OL-VC-60290	OL-VC-60290	OL-VC-60290	OL-VC-60290	OL-VC-60290	OL-VC-60290	OL-VC-60290	
Sample Depth	2.00-2.50 Ft	2.00-2.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	9.00-9.50 Ft		
Field Sample ID	OL-1217-01	OL-1217-02	OL-1217-03	OL-1217-04	OL-1217-05	OL-1217-06	OL-1217-07	OL-1217-08		
Sample Date	5/26/2010	5/26/2010	5/26/2010	5/26/2010	5/26/2010	5/26/2010	5/26/2010	5/26/2010		
SDG	JA47532	JA47532	JA47532	JA47532	JA47532	JA47532	JA47532	JA47532		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Field duplicate	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	1570	1660	2280	2840	3660	5810	7470	11100
E300.0	SULFATE	mg/L	44 J	17.9 J	28.1	39.6	13.8	11.4	67.6	21.4
E353.2	NITRATE	mg/L			0.52 U	0.52 U	0.52 U	0.52 U	0.52 U	
E353.2	NITROGEN, NITRATE-NITRITE	mg/L			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	7.53	7.45	7.52	7.62	7.61	7.55	7.66	7.52
SM4500-NO2B	NITRITE	mg/l			0.02 U	0.032	0.02 U	0.02 U	0.0029 J	
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L			0.031 J	0.05 U	0.012 J	0.1 U	0.1 U	
SW6010	CALCIUM	mg/L		307	564	855	254	388	253	364
SW6010	IRON	mg/L		2.88	8.33	15.7	1.3	3.4	2.09	4.85
SW6010	MAGNESIUM	mg/L		84	114	112	84.5	97.3	89.2	128
SW6010	MANGANESE	mg/L		0.377	0.744	1.09	0.333	0.419	0.186	0.287
SW6010	POTASSIUM	mg/L		32.7	49.9	52	56	70.4	66.9	72
SW6010	SODIUM	mg/L		536	830	1040	1510	2770	3590	5870
SW9050	Conductivity	umhos/cm	7650	8340	10700	12500	15000	20500	24000	32900

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-60290A	OL-VC-60290A	OL-VC-60290A	OL-VC-60290A	OL-VC-60290A	OL-VC-60290A	OL-VC-60290A	OL-VC-60290A	OL-VC-60290A	
Sample Depth	0.00-0.25 Ft	0.50-0.75 Ft	0.75-1.00 Ft	1.00-1.25 Ft	1.25-1.50 Ft	1.50-1.75 Ft	2.00-2.50 Ft	2.00-2.50 Ft		
Field Sample ID	OL-1215-19	OL-1216-01	OL-1216-02	OL-1216-03	OL-1216-04	OL-1216-05	OL-1216-06	OL-1216-07		
Sample Date	5/26/2010	5/26/2010	5/26/2010	5/26/2010	5/26/2010	5/26/2010	5/26/2010	5/26/2010		
SDG	JA47530	JA47531	JA47531	JA47531	JA47531	JA47531	JA47531	JA47531		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Field duplicate	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	670	877	1030	1380	1480	1700	2230	2210
E300.0	SULFATE	mg/L							31.2 J	15.1 J
E353.2	NITRATE	mg/L								
E353.2	NITROGEN, NITRATE-NITRITE	mg/L								
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	7.36	7.85	7.85	7.66	7.56	7.52	7.37	7.46
SM4500-NO2B	NITRITE	mg/l								
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L								
SW6010	CALCIUM	mg/L							370	289
SW6010	IRON	mg/L							6.13 J	2.61 J
SW6010	MAGNESIUM	mg/L							101	94.9
SW6010	MANGANESE	mg/L							0.457 J	0.265 J
SW6010	POTASSIUM	mg/L							43.2	46.1
SW6010	SODIUM	mg/L							775	797
SW9050	Conductivity	umhos/cm	3870	4250	5010	6820	7330	8400	10500	10700

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-60290A	OL-VC-60290A	OL-VC-60290A	OL-VC-60290A	OL-VC-60290A	OL-VC-60290A	OL-VC-60291	OL-VC-60291		
Sample Depth	3.00-3.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	9.00-9.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft		
Field Sample ID	OL-1216-08	OL-1216-09	OL-1216-10	OL-1216-11	OL-1216-12	OL-1216-13	OL-1224-10	OL-1224-11		
Sample Date	5/26/2010	5/26/2010	5/26/2010	5/26/2010	5/26/2010	5/26/2010	5/28/2010	5/28/2010		
SDG	JA47531	JA47531	JA47531	JA47531	JA47531	JA47531	JA47793	JA47793		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	2820	3470	6120	9130	14100	14900	17000	
E300.0	SULFATE	mg/L	70.4	8	14.8	7.7 J	8.6 J	171	111	
E353.2	NITRATE	mg/L			0.52 U		0.52 U			
E353.2	NITROGEN, NITRATE-NITRITE	mg/L		0.5 U	0.5 U		0.5 U			
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	7.92	7.17	7.49	7.22	7.27	7.31	7.26	7.19
SM4500-NO2B	NITRITE	mg/l	0.0057 J		0.02 U	0.02 U	0.02 U			
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L	0.5 U		0.069 J	0.37 J	0.1 U			
SW6010	CALCIUM	mg/L	74.4	298	347	414	398			
SW6010	IRON	mg/L	1.2	2.77	16.6	4.65	2.84			
SW6010	MAGNESIUM	mg/L	37.8	115	88	118	112			
SW6010	MANGANESE	mg/L	0.0463	0.206	0.469	0.328	0.221			
SW6010	POTASSIUM	mg/L	38.9	63.1	52.6	70.8	80.1			
SW6010	SODIUM	mg/L	722	1450	1480	2630	4060			
SW9050	Conductivity	umhos/cm	10900	15500	42300	21500	28200	39600	36400	43000



**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-60291	OL-VC-60291	OL-VC-60291	OL-VC-60292	OL-VC-60292	OL-VC-60292	OL-VC-60292	OL-VC-60292	OL-VC-60292	
Sample Depth	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	2.00-2.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft		
Field Sample ID	OL-1224-12	OL-1224-13	OL-1224-14	OL-1229-07	OL-1229-09	OL-1229-10	OL-1229-11	OL-1229-12		
Sample Date	5/28/2010	5/28/2010	5/28/2010	5/28/2010	5/28/2010	5/28/2010	5/28/2010	5/28/2010		
SDG	JA47793	JA47793	JA47793	JA47797	JA47797	JA47797	JA47797	JA47797		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	18900	20000	22000	10800	12000	14400	15700	16400
E300.0	SULFATE	mg/L	22.7	24.9	24.5	60	107	41.8	56.4	91.2
E353.2	NITRATE	mg/L								
E353.2	NITROGEN, NITRATE-NITRITE	mg/L								
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	7.15	7.16	7.14	7.31	7.34	7.22	7.23	7.35
SM4500-NO2B	NITRITE	mg/l								
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L								
SW6010	CALCIUM	mg/L						1170	1230	
SW6010	IRON	mg/L						1.01	0.577	
SW6010	MAGNESIUM	mg/L						264	284	
SW6010	MANGANESE	mg/L						0.96	1.05	
SW6010	POTASSIUM	mg/L						42.5	47.4	
SW6010	SODIUM	mg/L						7280	8120	
SW9050	Conductivity	umhos/cm	49200	50800	55200	29000	31800	37900	40700	42500

**Table A4  
Validated Groundwater Vibracore Analytical Data**

		OL-VC-60292	OL-VC-60292	OL-VC-60293	OL-VC-60293	OL-VC-60293	OL-VC-60293	OL-VC-60293	OL-VC-60293
Location		OL-VC-60292	OL-VC-60292	OL-VC-60293	OL-VC-60293	OL-VC-60293	OL-VC-60293	OL-VC-60293	OL-VC-60293
Sample Depth		7.50-8.00 Ft	9.00-9.40 Ft	0.75-1.00 Ft	1.00-1.25 Ft	1.25-1.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft
Field Sample ID		OL-1229-13	OL-1229-14	OL-1207-16	OL-1207-17	OL-1207-19	OL-1208-03	OL-1208-04	OL-1208-05
Sample Date		5/28/2010	5/28/2010	5/25/2010	5/25/2010	5/25/2010	5/25/2010	5/25/2010	5/25/2010
SDG		JA47797	JA47797	JA47416	JA47416	JA47416	JA47417	JA47417	JA47417
Matrix		WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Sample Purpose		Regular sample	Regular sample	Regular sample	Regular sample	Field duplicate	Regular sample	Regular sample	Regular sample
Sample Type		Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water
Method	Parameter Name								
	Units								
E300.0	CHLORIDE	17200	18200	1000	1420	1730	5310	6160	7490
E300.0	SULFATE	129 J	157 J				10.5	19.6	10.7
E353.2	NITRATE								
E353.2	NITROGEN, NITRATE-NITRITE	0.16 J							0.5 U
SM-4500-CIC	CHLORIDE								
SM20-4500-HB	pH	7.18	7.36	7.21	7.29	7.37	7.31	7.47	7.3
SM4500-NO2B	NITRITE								
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)								
SW6010	CALCIUM	1250	1170						1100
SW6010	IRON	0.72	0.619						2.72
SW6010	MAGNESIUM	303	280						122
SW6010	MANGANESE	1.37	0.967						1.36
SW6010	POTASSIUM	54.8	54.4						29.3
SW6010	SODIUM	10200	9880						3600
SW9050	Conductivity	44000	47600	4030	5320	5920	16100	17900	21900

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-60293	OL-VC-60293	OL-VC-60293	OL-VC-60294	OL-VC-60294	OL-VC-60294	OL-VC-60294	OL-VC-60294		
Sample Depth	6.00-6.50 Ft	7.50-8.00 Ft	9.00-9.50 Ft	0.00-0.25 Ft	0.25-0.50 Ft	2.00-2.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft		
Field Sample ID	OL-1208-06	OL-1208-07	OL-1208-08	OL-1208-09	OL-1208-10	OL-1208-16	OL-1208-17	OL-1208-18		
Sample Date	5/25/2010	5/25/2010	5/25/2010	5/25/2010	5/25/2010	5/25/2010	5/25/2010	5/25/2010		
SDG	JA47417	JA47417	JA47417	JA47417	JA47417	JA47417	JA47417	JA47417		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	8450	10100	11500	824	1320	5360	6150	6920
E300.0	SULFATE	mg/L	14.7	13.1	18.5			4.7 J	4.4 J	6.7 J
E353.2	NITRATE	mg/L								
E353.2	NITROGEN, NITRATE-NITRITE	mg/L	0.5 U	0.5 U	0.5 U					0.5 U
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	7.48	7.35	7.32	7.75	7.86	7.26	7.18	7.18
SM4500-NO2B	NITRITE	mg/l								
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L								
SW6010	CALCIUM	mg/L	710	840	792					768
SW6010	IRON	mg/L	6.95	1.6	0.803					2.53
SW6010	MAGNESIUM	mg/L	116	142	147					122
SW6010	MANGANESE	mg/L	1.05	0.998	0.857					1.62
SW6010	POTASSIUM	mg/L	21.5	19.8	26.2					27.7
SW6010	SODIUM	mg/L	4010	5330	6160					3470
SW9050	Conductivity	umhos/cm	24200	28400	31900	3140	4630	15300	18200	20200

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-60294	OL-VC-60294	OL-VC-60294	OL-VC-60294	OL-VC-60294A	OL-VC-60294A	OL-VC-60294A	OL-VC-60294A		
Sample Depth	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	9.00-9.50 Ft	0.00-0.25 Ft	0.25-0.50 Ft	0.50-0.75 Ft	3.00-3.50 Ft		
Field Sample ID	OL-1208-19	OL-1208-20	OL-1209-01	OL-1209-02	OL-1235-11	OL-1235-12	OL-1235-14	OL-1235-19		
Sample Date	5/25/2010	5/25/2010	5/25/2010	5/25/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010		
SDG	JA47417	JA47417	JA47418	JA47418	JA47861	JA47861	JA47861	JA47861		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	7810	8450	10100	11700	579	823	6580	
E300.0	SULFATE	mg/L	17.1	26.3	96.2	90.3			15.9	
E353.2	NITRATE	mg/L								
E353.2	NITROGEN, NITRATE-NITRITE	mg/L	0.5 U	0.5 U	0.5 U	0.5 U				
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	7.34	7.23	7.41	7.42	7.74	7.46	7.54	7.23
SM4500-NO2B	NITRITE	mg/l								
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L								
SW6010	CALCIUM	mg/L	741	497	890	789			600	
SW6010	IRON	mg/L	1.51	1.66	2.79	3.09			6.93	
SW6010	MAGNESIUM	mg/L	121	95.9	148	170			91.8	
SW6010	MANGANESE	mg/L	1.4	0.563	0.911	0.643			1.2	
SW6010	POTASSIUM	mg/L	27.3	20.2	19.8	26.1			21	
SW6010	SODIUM	mg/L	3600	2560	5310	5600			2350	
SW9050	Conductivity	umhos/cm	22300	25000	28000	31700	2620	3490	19700	

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-60294A	OL-VC-60294A	OL-VC-60294A	OL-VC-60294A	OL-VC-60294A	OL-VC-60294A	OL-VC-60295	OL-VC-60295
Sample Depth	4.00-4.50 Ft	5.00-5.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	9.00-9.50 Ft	0.00-0.25 Ft	0.25-0.50 Ft
Field Sample ID	OL-1235-20	OL-1236-01	OL-1236-02	OL-1236-03	OL-1236-04	OL-1236-05	OL-1254-18	OL-1254-19
Sample Date	6/1/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010	6/4/2010	6/4/2010
SDG	JA47861	JA47860	JA47860	JA47860	JA47860	JA47860	JA48309	JA48309
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Sample Purpose	Regular sample	Regular sample	Field duplicate	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water
Method	Parameter Name	Units						
E300.0	CHLORIDE	mg/L	7280	8070	8010	8590	10000	14100
E300.0	SULFATE	mg/L	26.9	34.3 J	46.3	37.3 J	27.1	30.4
E353.2	NITRATE	mg/L						
E353.2	NITROGEN, NITRATE-NITRITE	mg/L				0.5 U		565
SM-4500-CIC	CHLORIDE	mg/L						5940
SM20-4500-HB	pH	S.U.	7.14	7.03	7.12	7.33	7.15	7.2
SM4500-NO2B	NITRITE	mg/l						
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L						
SW6010	CALCIUM	mg/L	764			491	541	521
SW6010	IRON	mg/L	3.48			2.12	7.8	3.21
SW6010	MAGNESIUM	mg/L	117			77.6	86	78.8
SW6010	MANGANESE	mg/L	1.68			0.311	0.548	0.439
SW6010	POTASSIUM	mg/L	24.9			9.37 J	9.29 J	9.65 J
SW6010	SODIUM	mg/L	2850			2520	2680	2970
SW9050	Conductivity	umhos/cm	20800	23000	23100	25300	29200	32500
							18000	20000

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-60295	OL-VC-60295	OL-VC-60295	OL-VC-60295	OL-VC-60296	OL-VC-60296	OL-VC-60296	OL-VC-60296	OL-VC-60296
Sample Depth	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	9.00-9.50 Ft	0.00-0.25 Ft	0.25-0.50 Ft	0.50-0.75 Ft	0.75-1.00 Ft	
Field Sample ID	OL-1255-09	OL-1255-10	OL-1255-11	OL-1255-12	OL-1209-03	OL-1209-04	OL-1209-05	OL-1209-06	
Sample Date	6/4/2010	6/4/2010	6/4/2010	6/4/2010	5/25/2010	5/25/2010	5/25/2010	5/25/2010	
SDG	JA48304	JA48304	JA48304	JA48304	JA47418	JA47418	JA47418	JA47418	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units							
E300.0	CHLORIDE	mg/L	11600	13300		807	1170	1950	2270
E300.0	SULFATE	mg/L	2360	96.4					
E353.2	NITRATE	mg/L							
E353.2	NITROGEN, NITRATE-NITRITE	mg/L	0.5 U	0.5 U	0.5 U				
SM-4500-CIC	CHLORIDE	mg/L							
SM20-4500-HB	pH	S.U.	7.01	7.15	7.01	7.03	7.46	7.69	7.23
SM4500-NO2B	NITRITE	mg/l							
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L							
SW6010	CALCIUM	mg/L	427	1600	1150	1490			
SW6010	IRON	mg/L	15.5	19.1	4.62	15.7			
SW6010	MAGNESIUM	mg/L	49.1	223	238	220			
SW6010	MANGANESE	mg/L	0.748	2.3	1.84	2.5			
SW6010	POTASSIUM	mg/L	13.5	55.8	56.6	55.2			
SW6010	SODIUM	mg/L	1300	6540	8280	6680			
SW9050	Conductivity	umhos/cm	32000	3750		3400	4430	6710	7730

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-60296	OL-VC-60296	OL-VC-60296	OL-VC-60296	OL-VC-60296	OL-VC-60296	OL-VC-60296	OL-VC-60296	OL-VC-60297	
Sample Depth	2.00-2.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	9.00-9.50 Ft	0.00-0.25 Ft		
Field Sample ID	OL-1209-11	OL-1209-12	OL-1209-13	OL-1209-14	OL-1209-15	OL-1209-16	OL-1209-17	OL-1214-05		
Sample Date	5/25/2010	5/25/2010	5/25/2010	5/25/2010	5/25/2010	5/25/2010	5/25/2010	5/26/2010		
SDG	JA47418	JA47418	JA47418	JA47418	JA47418	JA47418	JA47418	JA47529		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Field duplicate	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	4390	8970	10600	11700	12800	14200	16000	1960
E300.0	SULFATE	mg/L	88.5	79	44.1	42.2	53.1	98.3	25.7	
E353.2	NITRATE	mg/L								
E353.2	NITROGEN, NITRATE-NITRITE	mg/L			0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	7.46	7.69	7.46	7.37	7.32	7.36	6.91	7.48
SM4500-NO2B	NITRITE	mg/l								
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L								
SW6010	CALCIUM	mg/L			893	822	1320	1270	1710	
SW6010	IRON	mg/L			4.96	3.24	0.958	3.25	3.91	
SW6010	MAGNESIUM	mg/L			191	210	304	306	436	
SW6010	MANGANESE	mg/L			1.4	1.06	1.14	0.683	3.24	
SW6010	POTASSIUM	mg/L			30	30.6	35.2	42.8	48.1	
SW6010	SODIUM	mg/L			3100	3600	5540	5640	7100	
SW9050	Conductivity	umhos/cm	13100	24800	29100	31600	34200	37800	42300	6290

**Table A4**  
**Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-60297	OL-VC-60297	OL-VC-60297	OL-VC-60297	OL-VC-60297	OL-VC-60297	OL-VC-60297	OL-VC-60297	OL-VC-60297	
Sample Depth	0.25-0.50 Ft	0.50-0.75 Ft	0.75-1.00 Ft	1.00-1.25 Ft	1.25-1.50 Ft	1.50-1.75 Ft	2.00-2.50 Ft	3.00-3.50 Ft		
Field Sample ID	OL-1214-06	OL-1214-07	OL-1214-08	OL-1214-09	OL-1214-10	OL-1214-11	OL-1214-12	OL-1214-13		
Sample Date	5/26/2010	5/26/2010	5/26/2010	5/26/2010	5/26/2010	5/26/2010	5/26/2010	5/26/2010		
SDG	JA47529	JA47529	JA47529	JA47529	JA47529	JA47529	JA47529	JA47529		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	3070	4070	5110	6130	7240	8480	11800	15900
E300.0	SULFATE	mg/L							28	19.1
E353.2	NITRATE	mg/L								
E353.2	NITROGEN, NITRATE-NITRITE	mg/L							0.5 U	0.5 U
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	7.45	7.52	7.4	7.41	7.34	7.27	7.37	7.29
SM4500-NO2B	NITRITE	mg/l								
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L								
SW6010	CALCIUM	mg/L							508	1010
SW6010	IRON	mg/L							0.212	1.09
SW6010	MAGNESIUM	mg/L							202	268
SW6010	MANGANESE	mg/L							0.287	0.646
SW6010	POTASSIUM	mg/L							55.3	74.9
SW6010	SODIUM	mg/L							5520	7050
SW9050	Conductivity	umhos/cm	9550	11200	14800	17600	20500	24400	32500	42100



**Table A4  
Validated Groundwater Vibracore Analytical Data**

		OL-VC-60297	OL-VC-60297	OL-VC-60297	OL-VC-60297	OL-VC-60297	OL-VC-60302	OL-VC-60302	OL-VC-60302
Location		OL-VC-60297	OL-VC-60297	OL-VC-60297	OL-VC-60297	OL-VC-60297	OL-VC-60302	OL-VC-60302	OL-VC-60302
Sample Depth		4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	9.00-9.50 Ft	0.75-1.00 Ft	1.00-1.25 Ft	1.25-1.50 Ft
Field Sample ID		OL-1214-14	OL-1214-15	OL-1214-16	OL-1214-17	OL-1214-18	OL-1301-04	OL-1301-05	OL-1301-06
Sample Date		5/26/2010	5/26/2010	5/26/2010	5/26/2010	5/26/2010	6/14/2010	6/14/2010	6/14/2010
SDG		JA47529	JA47529	JA47529	JA47529	JA47529	JA49017	JA49017	JA49017
Matrix		WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Sample Purpose		Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
Sample Type		Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water
Method	Parameter Name	Units							
E300.0	CHLORIDE	20200	24200	27200	32400	37600			
E300.0	SULFATE	31.5	8.2 J	7.8 J	7.1 J	9.9 J			
E353.2	NITRATE								
E353.2	NITROGEN, NITRATE-NITRITE	0.5 U	0.5 U	0.5 U	5.4	0.5 U			
SM-4500-CIC	CHLORIDE						21800	24000	25700
SM20-4500-HB	pH	7.08	6.82	6.85	6.88	6.79	7.19	7.08	7.06
SM4500-NO2B	NITRITE								
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)								
SW6010	CALCIUM	803	869	1210	1270	1250			
SW6010	IRON	0.468	0.345	0.498	0.413	0.479			
SW6010	MAGNESIUM	317	359	390	454	420			
SW6010	MANGANESE	0.395	0.42	0.532	0.616	0.824			
SW6010	POTASSIUM	94.4	105	122	156	149			
SW6010	SODIUM	8690	12600	11700	14800	13900			
SW9050	Conductivity	52800	58700	65600	75200	86500	58200	62000	67000

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-60302	OL-VC-60302	OL-VC-60302	OL-VC-60302	OL-VC-60302	OL-VC-60302	OL-VC-60302	OL-VC-60302	OL-VC-60302	
Sample Depth	1.50-1.75 Ft	2.00-2.50 Ft	2.00-2.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft		
Field Sample ID	OL-1301-07	OL-1301-08	OL-1301-09	OL-1301-10	OL-1301-11	OL-1301-12	OL-1301-13	OL-1301-14		
Sample Date	6/14/2010	6/14/2010	6/14/2010	6/14/2010	6/14/2010	6/14/2010	6/14/2010	6/14/2010		
SDG	JA49017	JA49017	JA49017	JA49017	JA49017	JA49017	JA49017	JA49017		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Field duplicate	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE		33100	32900	36900	41100	42200	46100	46200	
E300.0	SULFATE		38.1 J	47	80.5	51.4	33.6 J	34.9 J	34.2 J	
E353.2	NITRATE									
E353.2	NITROGEN, NITRATE-NITRITE							0.053 J	0.5 U	
SM-4500-CIC	CHLORIDE	25200								
SM20-4500-HB	pH	7.03	6.97	7.15	7.01	6.89	6.69	6.68	6.72	
SM4500-NO2B	NITRITE									
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)									
SW6010	CALCIUM					1040	677	757	745	
SW6010	IRON					1.04	3.24	4.43	1.43	
SW6010	MAGNESIUM					92.2	129	117	162	
SW6010	MANGANESE					0.795	0.274	0.408	0.187	
SW6010	POTASSIUM					34.8	44.3	38.3	51.3	
SW6010	SODIUM					7060	9610	7860	11400	
SW9050	Conductivity	63300	80100	78300	87500	95200	99000	103000	103000	

**Table A4  
Validated Groundwater Vibracore Analytical Data**

		OL-VC-60302	OL-VC-60303	OL-VC-60303	OL-VC-60303	OL-VC-60303	OL-VC-60303	OL-VC-60303	OL-VC-60303
Location		OL-VC-60302	OL-VC-60303	OL-VC-60303	OL-VC-60303	OL-VC-60303	OL-VC-60303	OL-VC-60303	OL-VC-60303
Sample Depth		9.00-9.50 Ft	0.00-0.25 Ft	1.25-1.50 Ft	1.50-1.75 Ft	2.00-2.50 Ft	2.00-2.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft
Field Sample ID		OL-1301-15	OL-1301-16	OL-1302-01	OL-1302-02	OL-1302-03	OL-1302-04	OL-1302-05	OL-1302-06
Sample Date		6/14/2010	6/14/2010	6/14/2010	6/14/2010	6/14/2010	6/14/2010	6/14/2010	6/14/2010
SDG		JA49017	JA49017	JA49018	JA49018	JA49018	JA49018	JA49018	JA49018
Matrix		WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Sample Purpose		Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Field duplicate	Regular sample	Regular sample
Sample Type		Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water
Method	Parameter Name								
	Units								
E300.0	CHLORIDE	47200		5920	6600	8570	9400	9320	10700
E300.0	SULFATE	35.2 J				113	71.9	33.9	168
E353.2	NITRATE								
E353.2	NITROGEN, NITRATE-NITRITE	0.5 U							
SM-4500-CIC	CHLORIDE		885						
SM20-4500-HB	pH	6.7	7.56	7.6	7.58	7.45	7.41	7.34	7.12
SM4500-NO2B	NITRITE								
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)								
SW6010	CALCIUM	613					370		
SW6010	IRON	1.16					1.36		
SW6010	MAGNESIUM	130					80		
SW6010	MANGANESE	0.144					0.223		
SW6010	POTASSIUM	41.5					8.25		
SW6010	SODIUM	9530					3250		
SW9050	Conductivity	106000	3500	17800	19300	24400	25900	26200	27000

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-60303	OL-VC-60303	OL-VC-60303	OL-VC-60303	OL-VC-60304	OL-VC-60304	OL-VC-60304	OL-VC-60304	OL-VC-60304	
Sample Depth	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	9.00-9.50 Ft	1.50-1.75 Ft	2.00-2.50 Ft	2.00-2.50 Ft	3.00-3.50 Ft		
Field Sample ID	OL-1302-07	OL-1302-08	OL-1302-09	OL-1302-10	OL-1303-07	OL-1303-08	OL-1303-09	OL-1303-10		
Sample Date	6/14/2010	6/14/2010	6/14/2010	6/14/2010	6/15/2010	6/15/2010	6/15/2010	6/15/2010		
SDG	JA49018	JA49018	JA49018	JA49018	JA49165	JA49165	JA49165	JA49165		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Field duplicate	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	12600	13300	15200	17300		12500	12900	
E300.0	SULFATE	mg/L	33.1	48.6	106	69.2		141	193	
E353.2	NITRATE	mg/L								
E353.2	NITROGEN, NITRATE-NITRITE	mg/L								
SM-4500-CIC	CHLORIDE	mg/L					10200			
SM20-4500-HB	pH	S.U.	6.98	7	7.47	7.4	7.69	7.27	7.42	7.18
SM4500-NO2B	NITRITE	mg/l								
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L								
SW6010	CALCIUM	mg/L	538		535	596				
SW6010	IRON	mg/L	4.27		4.21	1.34				
SW6010	MAGNESIUM	mg/L	92.8		106	113				
SW6010	MANGANESE	mg/L	0.615		0.36	0.411				
SW6010	POTASSIUM	mg/L	7.52 J		9.64 J	9.87 J				
SW6010	SODIUM	mg/L	3190		4820	4360				
SW9050	Conductivity	umhos/cm	35100	35400	40300	45400	22900	32400	31700	38300

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-60304	OL-VC-60304	OL-VC-60304	OL-VC-60304	OL-VC-60304	OL-VC-70144	OL-VC-70144	OL-VC-70144		
Sample Depth	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	9.00-9.50 Ft	0.00-0.25 Ft	0.25-0.50 Ft	0.50-0.75 Ft		
Field Sample ID	OL-1303-11	OL-1303-12	OL-1303-13	OL-1303-14	OL-1303-15	OL-1228-06	OL-1228-07	OL-1228-08		
Sample Date	6/15/2010	6/15/2010	6/15/2010	6/15/2010	6/15/2010	5/28/2010	5/28/2010	5/28/2010		
SDG	JA49165	JA49165	JA49165	JA49165	JA49165	JA47792	JA47792	JA47792		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	16800	17700	18900	20200	21900	9880	12300	12500
E300.0	SULFATE	mg/L	114	122	68.8	114	118			
E353.2	NITRATE	mg/L								
E353.2	NITROGEN, NITRATE-NITRITE	mg/L								
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	7.11	7.12	7.21	7.22	7.37	7.15	7.11	7.09
SM4500-NO2B	NITRITE	mg/l								
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L								
SW6010	CALCIUM	mg/L					169			
SW6010	IRON	mg/L					1.6			
SW6010	MAGNESIUM	mg/L					36.8			
SW6010	MANGANESE	mg/L					0.0975			
SW6010	POTASSIUM	mg/L					2.97			
SW6010	SODIUM	mg/L					7050			
SW9050	Conductivity	umhos/cm	41700	43700	49000	51500	53300	26700	32800	33200

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-70144	OL-VC-70144	OL-VC-70144	OL-VC-70144	OL-VC-70144	OL-VC-70144	OL-VC-70144	OL-VC-70144	OL-VC-70144	
Sample Depth	0.75-1.00 Ft	1.00-1.25 Ft	1.25-1.50 Ft	1.50-1.75 Ft	3.00-3.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft		
Field Sample ID	OL-1228-09	OL-1228-10	OL-1228-11	OL-1228-12	OL-1228-14	OL-1228-15	OL-1228-16	OL-1228-17		
Sample Date	5/28/2010	5/28/2010	5/28/2010	5/28/2010	5/28/2010	5/28/2010	5/28/2010	5/28/2010		
SDG	JA47792	JA47792	JA47792	JA47792	JA47792	JA47792	JA47792	JA47792		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	12900	12500	12400	12700	15100	18300	19500	20900
E300.0	SULFATE	mg/L					35	17.3 J	9.9 J	8.1 J
E353.2	NITRATE	mg/L								
E353.2	NITROGEN, NITRATE-NITRITE	mg/L						0.5 U	0.064 J	0.5 U
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	7.25	7.1	7.26	7.36	7.06	7.04	7.07	6.94
SM4500-NO2B	NITRITE	mg/l								
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L								
SW6010	CALCIUM	mg/L						812	665	705
SW6010	IRON	mg/L						0.147	0.144	0.245
SW6010	MAGNESIUM	mg/L						142	154	173
SW6010	MANGANESE	mg/L						0.248	0.2	0.265
SW6010	POTASSIUM	mg/L						55.9	53.1	52.5
SW6010	SODIUM	mg/L						10400	10400	12400
SW9050	Conductivity	umhos/cm	34200	33500	33100	33700	39300	101000	51500	54300

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-70144	OL-VC-70144	OL-VC-70145	OL-VC-70145	OL-VC-70145	OL-VC-70145	OL-VC-70145	OL-VC-70145	OL-VC-70145	
Sample Depth	7.50-8.00 Ft	9.00-9.50 Ft	0.00-0.25 Ft	0.25-0.50 Ft	0.50-0.75 Ft	2.00-2.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft		
Field Sample ID	OL-1228-18	OL-1228-19	OL-1227-11	OL-1227-12	OL-1227-13	OL-1227-18	OL-1227-19	OL-1227-20		
Sample Date	5/28/2010	5/28/2010	5/28/2010	5/28/2010	5/28/2010	5/28/2010	5/28/2010	5/28/2010		
SDG	JA47792	JA47792	JA47796	JA47796	JA47796	JA47796	JA47796	JA47796		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	22200	24700	8590	15000	19800	40000	44100	46400
E300.0	SULFATE	mg/L	13.3 J	9.5 J				19.7 J	14.2 J	13.1 J
E353.2	NITRATE	mg/L		0.52 U						
E353.2	NITROGEN, NITRATE-NITRITE	mg/L	0.5 U	0.5 U					0.5 U	0.5 U
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	7.02	6.94	6.81	7.06	7.1	6.83	6.69	6.76
SM4500-NO2B	NITRITE	mg/l		0.02 U						
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L		0.095 J						
SW6010	CALCIUM	mg/L	1090	711					1510	1310
SW6010	IRON	mg/L	0.965	0.432					0.193 J	0.155 J
SW6010	MAGNESIUM	mg/L	185	185					165	181
SW6010	MANGANESE	mg/L	0.525	0.256					0.231	0.163
SW6010	POTASSIUM	mg/L	45.5	42.7					67.6	67.6
SW6010	SODIUM	mg/L	11300	11900					9340	9900
SW9050	Conductivity	umhos/cm	123000	62300	24800	6840	49300	88800	97400	100000

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-70145	OL-VC-70145	OL-VC-70145	OL-VC-70145	OL-VC-70145	OL-VC-70146	OL-VC-70146	OL-VC-70146	OL-VC-70146	
Sample Depth	5.00-5.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	9.00-9.50 Ft	2.00-2.50 Ft	2.00-2.50 Ft	3.00-3.50 Ft		
Field Sample ID	OL-1228-01	OL-1228-02	OL-1228-03	OL-1228-04	OL-1228-05	OL-1221-15	OL-1221-16	OL-1221-17		
Sample Date	5/28/2010	5/28/2010	5/28/2010	5/28/2010	5/28/2010	5/27/2010	5/27/2010	5/27/2010		
SDG	JA47792	JA47792	JA47792	JA47792	JA47792	JA47630	JA47630	JA47630		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Field duplicate	Regular sample	Regular sample	Regular sample	Regular sample	Field duplicate	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	47300	47500	48200	50000	50900	39700	40000	44000
E300.0	SULFATE	mg/L	21.7 J	24.7 J	18.1 J	13.3 J	13.8 J	15.9 J	13.3 J	15.5 J
E353.2	NITRATE	mg/L			0.52 U	0.52 U	0.12 J			0.52 U
E353.2	NITROGEN, NITRATE-NITRITE	mg/L			0.5 U	0.5 U	0.12 J		0.5 U	0.5 U
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	6.78	6.76	6.8	6.57	6.81	6.72	6.58	6.64
SM4500-NO2B	NITRITE	mg/l			0.02 U	0.02 U	0.02 U			0.0035 J
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L			0.5 U	0.5 U	0.069 J			0.01 J
SW6010	CALCIUM	mg/L			1620	961	959		3270	3080
SW6010	IRON	mg/L			3.19	0.256	0.422		5.42	1.14
SW6010	MAGNESIUM	mg/L			249	229	236		214	257
SW6010	MANGANESE	mg/L			0.568	0.124	0.127 J		1.34	1.12
SW6010	POTASSIUM	mg/L			57.5	39.9	36.7		103	113
SW6010	SODIUM	mg/L			20600	15800	15300		19900	23800
SW9050	Conductivity	umhos/cm	106000	104000	107000	109000	110000	95500	95800	101000



**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-70146	OL-VC-70146	OL-VC-70146	OL-VC-70146	OL-VC-70146	OL-VC-70146	OL-VC-70147	OL-VC-70147	
Sample Depth	4.00-4.50 Ft	5.00-5.50 Ft	0.00-6.00 Ft	6.00-6.50 Ft	7.50-8.00 Ft	9.00-9.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft	
Field Sample ID	OL-1221-18	OL-1221-19	OL-1221-20	OL-1223-01	OL-1223-02	OL-1223-03	OL-1217-17	OL-1217-18	
Sample Date	5/27/2010	5/27/2010	5/27/2010	5/27/2010	5/27/2010	5/27/2010	5/26/2010	5/26/2010	
SDG	JA47630	JA47630	JA47630	JA47629	JA47629	JA47629	JA47532	JA47532	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units							
E300.0	CHLORIDE	mg/L	45500	47100	46700	49900	50000	12900	14300
E300.0	SULFATE	mg/L	18.7 J	15.6 J	11.1 J	15.6 J	12.1 J	10.7 J	10.6 J
E353.2	NITRATE	mg/L			0.52 U	0.52 U	0.52 U		
E353.2	NITROGEN, NITRATE-NITRITE	mg/L		0.5 U		0.5 U	0.5 U		
SM-4500-CIC	CHLORIDE	mg/L							
SM20-4500-HB	pH	S.U.	6.82	6.83	6.67	6.71	6.66	6.98	7.05
SM4500-NO2B	NITRITE	mg/l			0.02 U	0.02 U	0.02 U		
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L			0.1 U	0.1 U	0.1 U		
SW6010	CALCIUM	mg/L		2260	1770	1560	1570	2580	940
SW6010	IRON	mg/L		0.47 J	0.422	1.69	0.43	0.864	4.11
SW6010	MAGNESIUM	mg/L		364	317	326	355	139	142
SW6010	MANGANESE	mg/L		0.652	0.505	0.401	0.31	1.77	0.533
SW6010	POTASSIUM	mg/L		60.1 J	81	73.9	70.6	15.6	15.7
SW6010	SODIUM	mg/L		26700	26600	27500	28600	7520	7950
SW9050	Conductivity	umhos/cm	106000	109000	104000	104000	102000	34500	38000

**Table A4**  
**Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-70147	OL-VC-70147	OL-VC-70147	OL-VC-70148	OL-VC-70148	OL-VC-70148	OL-VC-70148	OL-VC-70148	OL-VC-70148	
Sample Depth	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	0.00-0.25 Ft	0.25-0.50 Ft	0.50-0.75 Ft	0.75-1.00 Ft	0.75-1.00 Ft	0.75-1.00 Ft	
Field Sample ID	OL-1217-19	OL-1217-20	OL-1217-21	OL-1211-14	OL-1211-15	OL-1211-16	OL-1211-17	OL-1211-18	OL-1211-18	
Sample Date	5/26/2010	5/26/2010	5/26/2010	5/26/2010	5/26/2010	5/26/2010	5/26/2010	5/26/2010	5/26/2010	
SDG	JA47532	JA47532	JA47532	JA47527	JA47527	JA47527	JA47527	JA47527	JA47527	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Field duplicate	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	16000	17000	19200	590	708	792	880	907
E300.0	SULFATE	mg/L	11.6 J	16 U	10.4 J					
E353.2	NITRATE	mg/L								
E353.2	NITROGEN, NITRATE-NITRITE	mg/L								
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	7.11	6.91	7.15	7.34	7.51	7.64	7.72	7.73
SM4500-NO2B	NITRITE	mg/l								
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L								
SW6010	CALCIUM	mg/L	1790	1380	2010					
SW6010	IRON	mg/L	1.62	0.815	0.904					
SW6010	MAGNESIUM	mg/L	160	166	193					
SW6010	MANGANESE	mg/L	1.07	0.685	1.16					
SW6010	POTASSIUM	mg/L	16.2	17.1	21.1					
SW6010	SODIUM	mg/L	8800	9570	12200					
SW9050	Conductivity	umhos/cm	41800	44800	47900	2770	3650	4200	4590	4730

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-70148	OL-VC-70148	OL-VC-70148	OL-VC-70148	OL-VC-70148	OL-VC-70148	OL-VC-70148	OL-VC-70148		
Sample Depth	1.00-1.25 Ft	1.25-1.50 Ft	1.50-1.75 Ft	2.00-2.50 Ft	3.00-3.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft		
Field Sample ID	OL-1211-19	OL-1211-20	OL-1212-01	OL-1212-02	OL-1212-03	OL-1212-04	OL-1212-05	OL-1212-06		
Sample Date	5/26/2010	5/26/2010	5/26/2010	5/26/2010	5/26/2010	5/26/2010	5/26/2010	5/26/2010		
SDG	JA47527	JA47527	JA47528	JA47528	JA47528	JA47528	JA47528	JA47528		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Field duplicate	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	1050	1070	1250	1520	1860	1950	2190	2660
E300.0	SULFATE	mg/L				5.8	21.6	14.1	12.7	7.4
E353.2	NITRATE	mg/L				0.52 U			0.52 U	0.52 U
E353.2	NITROGEN, NITRATE-NITRITE	mg/L				0.5 U		0.5 U	0.5 U	0.5 U
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	7.69	7.54	7.52	7.6	7.87	7.77	7.87	7.72
SM4500-NO2B	NITRITE	mg/l				0.02 U			0.02 UJ	0.02 UJ
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L				5.7			1.5 J	2.6 J
SW6010	CALCIUM	mg/L				246		193	186	181
SW6010	IRON	mg/L				3.42		1.49	2.17	2.25
SW6010	MAGNESIUM	mg/L				189		232	220	261
SW6010	MANGANESE	mg/L				0.336		0.288	0.253	0.354
SW6010	POTASSIUM	mg/L				37.3		46.3	47.1	59.6
SW6010	SODIUM	mg/L				717		857	818	939
SW9050	Conductivity	umhos/cm	5230	5820	6580	8280	8980	9260	10200	10900

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-70148	OL-VC-70148	OL-VC-70148	OL-VC-70148A	OL-VC-70148A	OL-VC-70148A	OL-VC-70148A	OL-VC-70148A	OL-VC-70148A	
Sample Depth	6.00-6.50 Ft	7.50-8.00 Ft	9.00-9.50 Ft	0.00-0.25 Ft	0.25-0.50 Ft	0.50-0.75 Ft	0.75-1.00 Ft	1.00-1.25 Ft		
Field Sample ID	OL-1212-07	OL-1212-08	OL-1212-09	OL-1223-04	OL-1223-05	OL-1223-06	OL-1223-07	OL-1223-08		
Sample Date	5/26/2010	5/26/2010	5/26/2010	5/27/2010	5/27/2010	5/27/2010	5/27/2010	5/27/2010		
SDG	JA47528	JA47528	JA47528	JA47629	JA47629	JA47629	JA47629	JA47629		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	2570	2810	3130	584	722	832	933	1150
E300.0	SULFATE	mg/L	8.7	8.7	6.2					
E353.2	NITRATE	mg/L								
E353.2	NITROGEN, NITRATE-NITRITE	mg/L	0.5 U	0.5 U	0.5 U					
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	7.67	7.7	7.92	7.39	7.65	7.64	7.46	7.5
SM4500-NO2B	NITRITE	mg/l								
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L								
SW6010	CALCIUM	mg/L	167	120	37.6					
SW6010	IRON	mg/L	2.11	1.6	0.862					
SW6010	MAGNESIUM	mg/L	255	260	264					
SW6010	MANGANESE	mg/L	0.382	0.334	0.0789					
SW6010	POTASSIUM	mg/L	64.2	63.8	39.8					
SW6010	SODIUM	mg/L	987	940	655					
SW9050	Conductivity	umhos/cm	10900	10800	11700	3590	4060	4800	5050	6310

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-70148A	OL-VC-70148A	OL-VC-70148A	OL-VC-70148A	OL-VC-70148A	OL-VC-70148A	OL-VC-70148A	OL-VC-70148A	OL-VC-70148A	
Sample Depth	1.25-1.50 Ft	1.50-1.75 Ft	2.00-2.50 Ft	2.00-2.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft		
Field Sample ID	OL-1223-09	OL-1223-10	OL-1223-11	OL-1223-12	OL-1223-13	OL-1223-14	OL-1223-15	OL-1223-16		
Sample Date	5/27/2010	5/27/2010	5/27/2010	5/27/2010	5/27/2010	5/27/2010	5/27/2010	5/27/2010		
SDG	JA47629	JA47629	JA47629	JA47629	JA47629	JA47629	JA47629	JA47629		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Field duplicate	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	1270	1370	1650	1620	2020	2160	2390	2560
E300.0	SULFATE	mg/L			30.1	18.6	15.2	10	8.6	5.2
E353.2	NITRATE	mg/L			0.52 U	0.52 U		0.52 U	0.52 U	0.52 U
E353.2	NITROGEN, NITRATE-NITRITE	mg/L			0.5 U	0.5 U		0.5 U	0.5 U	0.5 U
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	7.63	7.46	7.6	7.61	5.58	7.6	7.59	7.65
SM4500-NO2B	NITRITE	mg/l			0.02 U	0.02 U		0.02 U	0.02 U	0.02 U
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L			5.4	4.2		5.2	3.5	2.9
SW6010	CALCIUM	mg/L			205	230		179	176	142
SW6010	IRON	mg/L			1.8	2.54		2.62	2.01	1.49
SW6010	MAGNESIUM	mg/L			220	185		239	246	222
SW6010	MANGANESE	mg/L			0.278	0.284		0.466	0.355	0.315
SW6010	POTASSIUM	mg/L			37.2	31.5		43.2	53.4	53.6
SW6010	SODIUM	mg/L			599	557		703	808	724
SW9050	Conductivity	umhos/cm	7280	7800	8980	8940	11500	11000	11600	11300

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-70148A	OL-VC-70148A	OL-VC-70149	OL-VC-70149	OL-VC-70149	OL-VC-70149	OL-VC-70149	OL-VC-70149	OL-VC-70149
Sample Depth	7.50-8.00 Ft	9.00-9.50 Ft	0.00-0.25 Ft	0.25-0.50 Ft	0.50-0.75 Ft	0.75-1.00 Ft	1.00-1.25 Ft	1.25-1.50 Ft	
Field Sample ID	OL-1223-17	OL-1223-18	OL-1234-16	OL-1234-17	OL-1234-18	OL-1234-19	OL-1234-20	OL-1235-01	
Sample Date	5/27/2010	5/27/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010	
SDG	JA47629	JA47629	JA47864	JA47864	JA47864	JA47864	JA47864	JA47861	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units							
E300.0	CHLORIDE	mg/L	2760	3080	453	532	725	897	1530
E300.0	SULFATE	mg/L	4.3	4.4					
E353.2	NITRATE	mg/L		0.52 U					
E353.2	NITROGEN, NITRATE-NITRITE	mg/L		0.5 U					
SM-4500-CIC	CHLORIDE	mg/L							
SM20-4500-HB	pH	S.U.	7.67	7.93	7.37	7.61	7.5	7.57	7.59
SM4500-NO2B	NITRITE	mg/l	0.02 U	0.022					
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L	0.48	1.1					
SW6010	CALCIUM	mg/L	132	52					
SW6010	IRON	mg/L	1.89	1.33					
SW6010	MAGNESIUM	mg/L	211	284					
SW6010	MANGANESE	mg/L	0.341	0.106					
SW6010	POTASSIUM	mg/L	58.1	63.4					
SW6010	SODIUM	mg/L	852	839					
SW9050	Conductivity	umhos/cm	11600	11900	2450	3120	3950	4780	7580

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-70149	OL-VC-70149	OL-VC-70149	OL-VC-70149	OL-VC-70149	OL-VC-70149	OL-VC-70149	OL-VC-70149	OL-VC-70149	
Sample Depth	1.50-1.75 Ft	2.00-2.50 Ft	2.00-2.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft		
Field Sample ID	OL-1235-02	OL-1235-03	OL-1235-04	OL-1235-05	OL-1235-06	OL-1235-07	OL-1235-08	OL-1235-09		
Sample Date	6/1/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010		
SDG	JA47861	JA47861	JA47861	JA47861	JA47861	JA47861	JA47861	JA47861		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Field duplicate	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	1250	1690	1840	2220	2570	2760	3310	4220	
E300.0	SULFATE		34.8	26.6	15.1	3.1	2.6	479	226	
E353.2	NITRATE		0.52 U	0.52 U		0.52 U	0.058 J	0.52 U	0.52 U	
E353.2	NITROGEN, NITRATE-NITRITE		0.5 U	0.5 U		0.5 U	0.058 J	0.5 U	0.5 U	
SM-4500-CIC	CHLORIDE									
SM20-4500-HB	pH	7.81	7.82	7.8	7.87	7.89	8.28	9.05	10.49	
SM4500-NO2B	NITRITE		0.02 UJ	0.023 J		0.0043 J	0.02 UJ	0.02 UJ	0.02 UJ	
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)		1.3 J	2.5 J		0.71 J	0.5 J	0.1 UJ	0.1 UJ	
SW6010	CALCIUM		136	117	79.9	67.9	22.3	203	1280	
SW6010	IRON		1.74 J	4.31 J	2.88	3.38	1.31	0.458	4.6	
SW6010	MAGNESIUM		67.2	73.2	63.7	70.7	65.2	41.2	22	
SW6010	MANGANESE		0.175	0.212	0.165	0.132	0.0356	0.0269	0.386	
SW6010	POTASSIUM		43.7	53	51.2	63.1	67	79.7	73.5	
SW6010	SODIUM		735	820	791	927	981	1220	1210	
SW9050	Conductivity	6280	8310	8460	9900	10500	10700	11600	12100	

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-70149	OL-VC-70150	OL-VC-70150	OL-VC-70150	OL-VC-70150	OL-VC-70150	OL-VC-70150	OL-VC-70150	OL-VC-70150	
Sample Depth	9.00-9.50 Ft	0.00-0.25 Ft	0.25-0.50 Ft	0.50-0.75 Ft	0.75-1.00 Ft	1.00-1.25 Ft	1.25-1.50 Ft	1.50-1.75 Ft		
Field Sample ID	OL-1235-10	OL-1230-01	OL-1230-02	OL-1230-03	OL-1230-04	OL-1230-05	OL-1230-06	OL-1230-07		
Sample Date	6/1/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010		
SDG	JA47861	JA47865	JA47865	JA47865	JA47865	JA47865	JA47865	JA47865		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	4210	570	708	835	972	1130	1240	1360
E300.0	SULFATE	mg/L	260							
E353.2	NITRATE	mg/L								
E353.2	NITROGEN, NITRATE-NITRITE	mg/L	0.5 U							
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	10.98	6.99	7.3	7.36	7.61	7.32	7.44	7.33
SM4500-NO2B	NITRITE	mg/l								
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L								
SW6010	CALCIUM	mg/L	1280							
SW6010	IRON	mg/L	1.72							
SW6010	MAGNESIUM	mg/L	7.82							
SW6010	MANGANESE	mg/L	0.133							
SW6010	POTASSIUM	mg/L	65.7							
SW6010	SODIUM	mg/L	1220							
SW9050	Conductivity	umhos/cm	12600	3270	4090	4830	5400	6320	7320	7730



**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-70150	OL-VC-70150	OL-VC-70150	OL-VC-70150	OL-VC-70150	OL-VC-70150	OL-VC-70150	OL-VC-70150	OL-VC-70150	
Sample Depth	2.00-2.50 Ft	2.00-2.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	9.00-9.50 Ft		
Field Sample ID	OL-1230-08	OL-1230-09	OL-1230-10	OL-1230-11	OL-1230-12	OL-1230-13	OL-1230-14	OL-1230-15		
Sample Date	6/1/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010	6/1/2010		
SDG	JA47865	JA47865	JA47865	JA47865	JA47865	JA47865	JA47865	JA47865		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Field duplicate	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	1370	1730	2100	2430	2770	3440	4270	4590
E300.0	SULFATE	mg/L	29.2	26.7	35.8	12.6	3.4 J	6 U	12.7 J	13.1
E353.2	NITRATE	mg/L			0.26 J	0.2 J	0.19 J	0.38 J		0.17 J
E353.2	NITROGEN, NITRATE-NITRITE	mg/L	0.18 J	0.2 J	0.26 J	0.2 J	0.2 J	0.38 J	0.17 J	0.17 J
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	7.25	7.3	7.32	7.37	7.56	7.76	7.59	7.53
SM4500-NO2B	NITRITE	mg/l			0.02 U	0.02 U	0.015 J	0.0029 J		0.02 U
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L			1.4	0.67	0.23 J	1		0.1 J
SW6010	CALCIUM	mg/L	331	327	117	229	91.5	25.6	116	263
SW6010	IRON	mg/L	5.19	6.78	1.83	5.74	3.43	1.13	4.25	3.78
SW6010	MAGNESIUM	mg/L	123	132	124	613	1340	1740	1030	340
SW6010	MANGANESE	mg/L	0.691	0.685	0.183	0.425	0.16	0.0634	0.105	0.219
SW6010	POTASSIUM	mg/L	44.3	45.5	24.3	60	69.6	59.7	62.6	56
SW6010	SODIUM	mg/L	723	743	384	865	1020	1050	1380	1730
SW9050	Conductivity	umhos/cm	9280	9490	11200	13900	16300	18000	17800	8850

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-70151	OL-VC-70151	OL-VC-70151	OL-VC-70151	OL-VC-70151	OL-VC-70151	OL-VC-70151	OL-VC-70151	OL-VC-70151
Sample Depth	0.00-0.25 Ft	0.25-0.50 Ft	0.50-0.75 Ft	0.75-1.00 Ft	1.00-1.25 Ft	1.25-1.50 Ft	1.50-1.75 Ft	2.00-2.50 Ft	
Field Sample ID	OL-1218-01	OL-1218-02	OL-1218-03	OL-1218-04	OL-1218-05	OL-1218-06	OL-1218-07	OL-1218-08	
Sample Date	5/27/2010	5/27/2010	5/27/2010	5/27/2010	5/27/2010	5/27/2010	5/27/2010	5/27/2010	
SDG	JA47628	JA47628	JA47628	JA47628	JA47628	JA47628	JA47628	JA47628	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units							
E300.0	CHLORIDE	mg/L	2660	3430	3500	3460	3510	3480	4720
E300.0	SULFATE	mg/L							13600
E353.2	NITRATE	mg/L							10.6
E353.2	NITROGEN, NITRATE-NITRITE	mg/L							
SM-4500-CIC	CHLORIDE	mg/L							
SM20-4500-HB	pH	S.U.	10.72	11.17	11.29	11.28	11.4	11.4	11.42
SM4500-NO2B	NITRITE	mg/l							
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L							
SW6010	CALCIUM	mg/L							
SW6010	IRON	mg/L							
SW6010	MAGNESIUM	mg/L							
SW6010	MANGANESE	mg/L							
SW6010	POTASSIUM	mg/L							
SW6010	SODIUM	mg/L							
SW9050	Conductivity	umhos/cm	8540	10600	10900	7540	11300	11100	14200
									28300

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-70151	OL-VC-70151	OL-VC-70151	OL-VC-70151	OL-VC-70151	OL-VC-70151	OL-VC-70152	OL-VC-70152		
Sample Depth	3.00-3.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	1.50-1.75 Ft	2.00-2.50 Ft		
Field Sample ID	OL-1218-09	OL-1218-10	OL-1218-11	OL-1218-12	OL-1218-13	OL-1218-14	OL-1225-17	OL-1225-18		
Sample Date	5/27/2010	5/27/2010	5/27/2010	5/27/2010	5/27/2010	5/27/2010	5/28/2010	5/28/2010		
SDG	JA47628	JA47628	JA47628	JA47628	JA47628	JA47628	JA47795	JA47795		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Field duplicate	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	10700		16500	19700	19000	27500	12400	24300
E300.0	SULFATE	mg/L	85.6		11.8 J	8.9 J	19.8 J	11.9 J		42.6
E353.2	NITRATE	mg/L	0.52 U							
E353.2	NITROGEN, NITRATE-NITRITE	mg/L	0.5 U	0.15 J						
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	8.85	7.64	7.5	7.25	7.06	6.77		9.33
SM4500-NO2B	NITRITE	mg/l	0.02 U							
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L	0.1 U							
SW6010	CALCIUM	mg/L	2070	1940				3470		2560
SW6010	IRON	mg/L	0.999	0.986 J				0.335		1.07
SW6010	MAGNESIUM	mg/L	3.52 J	9.18				109		25.8
SW6010	MANGANESE	mg/L	0.249	0.541				0.877		0.0252
SW6010	POTASSIUM	mg/L	90	62.4				140		117
SW6010	SODIUM	mg/L	5910	5150				12600		10500
SW9050	Conductivity	umhos/cm	33500	39100	39500	45200	44800	60600	1630	51900

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-70152	OL-VC-70152	OL-VC-70152	OL-VC-70152	OL-VC-70153	OL-VC-70153	OL-VC-70153	OL-VC-70153	OL-VC-70153
Sample Depth	3.00-3.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	0.25-0.50 Ft	0.75-1.00 Ft	1.50-1.75 Ft	2.00-2.50 Ft	
Field Sample ID	OL-1225-19	OL-1225-20	OL-1226-01	OL-1226-02	OL-1253-10	OL-1253-12	OL-1253-15	OL-1253-16	
Sample Date	5/28/2010	5/28/2010	5/28/2010	5/28/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	
SDG	JA47795	JA47795	JA47794	JA47794	JA48333	JA48333	JA48333	JA48333	
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	
Method	Parameter Name	Units							
E300.0	CHLORIDE	mg/L	33600	41700	44800	55000			26200
E300.0	SULFATE	mg/L	15.5 J	12.8 J	40 U	50 U			215
E353.2	NITRATE	mg/L			0.52 U	940			
E353.2	NITROGEN, NITRATE-NITRITE	mg/L	0.5 U	0.063 J	0.5 U	940			
SM-4500-CIC	CHLORIDE	mg/L				12700	10200	17200	
SM20-4500-HB	pH	S.U.	6.92	6.63	6.67	6.62	9.94	10.78	9.7
SM4500-NO2B	NITRITE	mg/l			0.0037 J	0.02 U			
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L		0.5 U	0.02 J	0.061 J			
SW6010	CALCIUM	mg/L	1380	1930	3400	1920			
SW6010	IRON	mg/L	0.184 J	0.198 J	0.901	1.31			
SW6010	MAGNESIUM	mg/L	64.1	152	255	227			
SW6010	MANGANESE	mg/L	0.163	0.152	0.698	0.458			
SW6010	POTASSIUM	mg/L	57.2	80.8	85.7	49.9			
SW6010	SODIUM	mg/L	6670	9670	23200	15500			
SW9050	Conductivity	umhos/cm	77000	90800	97500	105000	29000		60200

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-70153	OL-VC-70153	OL-VC-70153	OL-VC-70153	OL-VC-70153	OL-VC-70153	OL-VC-70153	OL-VC-70154	OL-VC-70154	
Sample Depth	2.00-2.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	2.00-2.50 Ft	2.00-2.50 Ft		
Field Sample ID	OL-1253-17	OL-1253-18	OL-1253-19	OL-1253-20	OL-1254-01	OL-1254-02	OL-1238-08	OL-1238-09		
Sample Date	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/4/2010	6/2/2010	6/2/2010		
SDG	JA48333	JA48333	JA48333	JA48333	JA48309	JA48309	JA48094	JA48094		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Field duplicate	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Field duplicate		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE	mg/L	22400	35300	38000	46600	49000	46400	6800	6620
E300.0	SULFATE	mg/L	254	208	126	209	326	283	329	262
E353.2	NITRATE	mg/L			0.52 U	0.17 J		0.52 U		
E353.2	NITROGEN, NITRATE-NITRITE	mg/L			0.5 U	0.18 J	0.5 U	0.5 U		
SM-4500-CIC	CHLORIDE	mg/L								
SM20-4500-HB	pH	S.U.	9.61	9.04	6.54	6.66	6.63	6.44	10.9	10.8
SM4500-NO2B	NITRITE	mg/l			0.02 U	0.0079 J		0.02 U		
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L			0.19 J	0.1 U		0.21 J		
SW6010	CALCIUM	mg/L		2330	2700	2850	3100	3920		
SW6010	IRON	mg/L		16.3	2.29	0.679	1.61	0.34 J		
SW6010	MAGNESIUM	mg/L		52.8	120	153	187	226		
SW6010	MANGANESE	mg/L		0.947	0.487	0.323	0.343	0.359		
SW6010	POTASSIUM	mg/L		65.6	73.2	80.3	75.6	106		
SW6010	SODIUM	mg/L		11100	13900	15700	17900	21900		
SW9050	Conductivity	umhos/cm	55500	79200	95500	99900	103000	101000	20100	19400

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-70154	OL-VC-70154	OL-VC-70154	OL-VC-70154	OL-VC-70154	OL-VC-70154	OL-VC-70155	OL-VC-70155
Sample Depth	3.00-3.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft	9.00-9.50 Ft	1.00-1.25 Ft	1.25-1.50 Ft
Field Sample ID	OL-1238-10	OL-1238-11	OL-1238-12	OL-1238-13	OL-1238-14	OL-1238-15	OL-1270-05	OL-1270-06
Sample Date	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/2/2010	6/8/2010	6/8/2010
SDG	JA48094	JA48094	JA48094	JA48094	JA48094	JA48094	JA48481	JA48481
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water
Method	Parameter Name	Units						
E300.0	CHLORIDE	mg/L	10700	29700	34400	38600	42800	44500
E300.0	SULFATE	mg/L	237	91.2	140	192	263	305
E353.2	NITRATE	mg/L				0.15 J	0.055 J	
E353.2	NITROGEN, NITRATE-NITRITE	mg/L				0.15 J	0.055 J	0.16 J
SM-4500-CIC	CHLORIDE	mg/L						21400
SM20-4500-HB	pH	S.U.	10.13	7.32	7.08	6.83	6.77	6.59
SM4500-NO2B	NITRITE	mg/l				0.0032 J	0.02 U	
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L				0.13	0.02 J	
SW6010	CALCIUM	mg/L	785	2020		2010	1900	2400
SW6010	IRON	mg/L	16.8	8.82		2.89	1.37	1.17
SW6010	MAGNESIUM	mg/L	10.5 J	121		137	122	137
SW6010	MANGANESE	mg/L	0.21	1.11		0.196	0.149	0.216
SW6010	POTASSIUM	mg/L	37.8	54.5		65.7	57.6	65.6
SW6010	SODIUM	mg/L	3080	9240		10200	10000	12400
SW9050	Conductivity	umhos/cm	28900	69200	80200	88900	97600	98500
								56900

**Table A4  
Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-70155	OL-VC-70155	OL-VC-70155	OL-VC-70155	OL-VC-70155	OL-VC-70155	OL-VC-70155	OL-VC-70155	OL-VC-70155	
Sample Depth	1.50-1.75 Ft	2.00-2.50 Ft	2.00-2.50 Ft	3.00-3.50 Ft	4.00-4.50 Ft	5.00-5.50 Ft	6.00-6.50 Ft	7.50-8.00 Ft		
Field Sample ID	OL-1270-07	OL-1270-08	OL-1270-09	OL-1270-10	OL-1270-11	OL-1270-12	OL-1270-13	OL-1270-14		
Sample Date	6/8/2010	6/8/2010	6/8/2010	6/8/2010	6/8/2010	6/8/2010	6/8/2010	6/8/2010		
SDG	JA48481	JA48481	JA48481	JA48481	JA48481	JA48481	JA48481	JA48481		
Matrix	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER		
Sample Purpose	Regular sample	Regular sample	Field duplicate	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample		
Sample Type	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water	Pore water		
Method	Parameter Name	Units								
E300.0	CHLORIDE		26900	26600	28500	32200	33800	35400	36200	
E300.0	SULFATE		23.6	54.2	33.2	16.1 J	11.2 J	67	23.7 J	
E353.2	NITRATE				0.52 U	0.52 U				
E353.2	NITROGEN, NITRATE-NITRITE				0.5 U	0.5 U				
SM-4500-CIC	CHLORIDE	23600								
SM20-4500-HB	pH	7.05	6.98	7.01	6.86	6.8	6.63	6.79	6.97	
SM4500-NO2B	NITRITE				0.0029 J	0.0026 J				
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)				0.1 U	0.1 U				
SW6010	CALCIUM		1570		1750	1040	1780		2970	
SW6010	IRON		0.176 J		29.4	0.202 J	0.207 J		0.429 J	
SW6010	MAGNESIUM		159		314	250	342		359	
SW6010	MANGANESE		1.2		1.03	0.415	0.862		2.11	
SW6010	POTASSIUM		41		25.8	21.4	30.4		32.2	
SW6010	SODIUM		7830		15900	12200	18500		19200	
SW9050	Conductivity	62500	67300	65700	69100	76800	82800	85100	87000	

**Table A4**  
**Validated Groundwater Vibracore Analytical Data**

Location	OL-VC-70155
Sample Depth	9.00-9.50 Ft
Field Sample ID	OL-1270-15
Sample Date	6/8/2010
SDG	JA48481
Matrix	WATER
Sample Purpose	Regular sample
Sample Type	Pore water

Method	Parameter Name	Units	
E300.0	CHLORIDE	mg/L	36800
E300.0	SULFATE	mg/L	11.8 J
E353.2	NITRATE	mg/L	0.52 U
E353.2	NITROGEN, NITRATE-NITRITE	mg/L	0.5 U
SM-4500-CIC	CHLORIDE	mg/L	
SM20-4500-HB	pH	S.U.	6.61
SM4500-NO2B	NITRITE	mg/l	0.0024 J
SM4500-PE	PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	mg/L	0.057 J
SW6010	CALCIUM	mg/L	1480
SW6010	IRON	mg/L	0.212 J
SW6010	MAGNESIUM	mg/L	370
SW6010	MANGANESE	mg/L	0.613
SW6010	POTASSIUM	mg/L	31.3
SW6010	SODIUM	mg/L	19400
SW9050	Conductivity	umhos/cm	88600



**ATTACHMENT A-5**

**VALIDATED LABORATORY DATA FOR  
HABITAT SAMPLES**

**Table A5**  
**Validated Habitat Analytical Data**

		Location	BBD-GC-01	BBD-GC-02	BBD-GC-03	BBD-SG-01	BBD-SG-02	BBD-SG-03	BBS-GC-01	BBS-GC-02
	Sample Depth		0-15 cm	0-15 cm	0-15 cm	0-15 cm	0-15 cm	0-15 cm	0-15 cm	0-15 cm
	Field Sample ID		OL-1324-13	OL-1324-08	OL-1324-06	OL-1324-07	OL-1324-14	OL-1324-05	OL-1324-10	OL-1324-11
	Sample Date		7/7/2010	7/7/2010	7/7/2010	7/7/2010	7/7/2010	7/7/2010	7/7/2010	7/7/2010
	SDG		JA50864	JA50864	JA50864	JA50864	JA50864	JA50864	JA50864	JA50864
	Matrix		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample Purpose		Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
	Sample Type		Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Method	Parameter Name	Units								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	7740 J	448 J	482 J	653 J	1400 J	909 J	3360 J	1300 J
SM2540G	SOLIDS, PERCENT	%	50.7	95.8	95.9	83.6	78.2	80.9	51.9	97.5

**Table A5**  
**Validated Habitat Analytical Data**

		Location	BBS-GC-03	NMD-GC-01	NMD-GC-02	NMD-GC-03	NMD-S-01	NMD-S-02	NMD-S-02	NMD-S-03
	Sample Depth		0-15 cm	0-15 cm	0-15 cm	0-15 cm	0-15 cm	0-15 cm	0-15 cm	0-15 cm
	Field Sample ID		OL-1324-12	OL-1323-20	OL-1323-19	OL-1324-17	OL-1324-16	OL-1324-03	OL-1324-04	OL-1324-09
	Sample Date		7/7/2010	7/7/2010	7/7/2010	7/7/2010	7/7/2010	7/7/2010	7/7/2010	7/7/2010
	SDG		JA50864	JA50863	JA50863	JA50864	JA50864	JA50864	JA50864	JA50864
	Matrix		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample Purpose		Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Field duplicate	Regular sample
	Sample Type		Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Method	Parameter Name	Units								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	3320 J	573 J	3760 J	678 J	916 J	474 J	453 J	604 J
SM2540G	SOLIDS, PERCENT	%	96.7	93.6	93.1	96.1	80	80.7	81.4	81

**Table A5**  
**Validated Habitat Analytical Data**

		Location	NMD-SG-01	NMD-SG-02	NMD-SG-03	NMS-GC-01	NMS-GC-02	NMS-GC-03	NMS-S-01	NMS-S-02
	Sample Depth		0-15 cm	0-15 cm	0-15 cm	0-15 cm	0-15 cm	0-15 cm	0-15 cm	0-15 cm
	Field Sample ID		OL-1324-15	OL-1324-02	OL-1324-01	OL-1323-11	OL-1323-13	OL-1323-17	OL-1323-18	OL-1323-15
	Sample Date		7/7/2010	7/7/2010	7/7/2010	7/6/2010	7/6/2010	7/6/2010	7/6/2010	7/6/2010
	SDG		JA50864	JA50864	JA50864	JA50863	JA50863	JA50863	JA50863	JA50863
	Matrix		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample Purpose		Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
	Sample Type		Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Method	Parameter Name	Units								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	606 J	861 J	866 J	786 J	1130 J	1760 J	1970 J	1460 J
SM2540G	SOLIDS, PERCENT	%	77.8	75.8	81	97.4	95.6	95.5	82.8	79.6

**Table A5**  
**Validated Habitat Analytical Data**

		Location	NMS-S-03	NMS-SG-01	NMS-SG-02	NMS-SG-03	SMD-GC-01	SMD-GC-02	SMD-GC-03	SMD-S-01
	Sample Depth		0-15 cm	0-15 cm	0-15 cm	0-15 cm	0-15 cm	0-15 cm	0-15 cm	0-15 cm
	Field Sample ID		OL-1323-14	OL-1323-10	OL-1323-12	OL-1323-16	OL-1323-08	OL-1323-05	OL-1323-02	OL-1323-06
	Sample Date		7/6/2010	7/6/2010	7/6/2010	7/6/2010	7/6/2010	7/6/2010	7/6/2010	7/6/2010
	SDG		JA50863	JA50863	JA50863	JA50863	JA50863	JA50863	JA50863	JA50863
	Matrix		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sample Purpose		Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
	Sample Type		Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment	Sediment
Method	Parameter Name	Units								
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	572 J	1520 J	784 J	1560 J	1760 J	1370 J	849 J	6550 J
SM2540G	SOLIDS, PERCENT	%	80.3	85.9	85.4	85.5	97.6	96.6	98.8	78.2

**Table A5**  
**Validated Habitat Analytical Data**

		Location	SMD-S-01	SMD-S-02	SMD-SG-01	SMD-SG-02	SMD-SG-03
		Sample Depth	0-15 cm	0-15 cm	0-15 cm	0-15 cm	0-15 cm
		Field Sample ID	OL-1323-09	OL-1323-04	OL-1323-07	OL-1323-03	OL-1323-01
		Sample Date	7/6/2010	7/6/2010	7/6/2010	7/6/2010	7/6/2010
		SDG	JA50863	JA50863	JA50863	JA50863	JA50863
		Matrix	SOIL	SOIL	SOIL	SOIL	SOIL
		Sample Purpose	Regular sample	Regular sample	Regular sample	Regular sample	Regular sample
		Sample Type	Sediment	Sediment	Sediment	Sediment	Sediment
Method	Parameter Name	Units					
Lloyd Kahn	TOTAL ORGANIC CARBON	mg/kg	1380 J	671 J	1330 J	2210 J	4940 J
SM2540G	SOLIDS, PERCENT	%	80.2	80.3	93	85.7	77.3