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**Harbourside Commercial Park
Sydney, NS**

2010 Groundwater Monitoring Program



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2010 GROUNDWATER MONITORING PROGRAM

HARBOURSIDE COMMERCIAL PARK

SLR REF: 210.05780.00000

Submitted by
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1.0 BACKGROUND AND PURPOSE

The former Sydney Steel Corporation (SYSCO) property, located in Sydney, Nova Scotia, is being redeveloped as the Harbourside Commercial Park. Nova Scotia Lands Inc. (NS Lands) is a provincial Crown Corporation with the mandate to complete the reclamation of the former steel plant site through demolition, site remediation and redevelopment of the property. Harbourside Commercial Park Inc. (HCPI) is a provincial Crown Corporation that has a mandate to operate the commercial park. ESAs conducted to date throughout the Site have identified several groundwater constituents of interest (COI) in excess of evaluation criteria. Some of the COI that were often detected included Polycyclic Aromatic Hydrocarbons (PAHs), Benzene, Toluene, Ethylbenzene and Xylenes (BTEX) and Total Petroleum Hydrocarbons (TPH). Other COI that exceeded criteria included mercury, various other metals, and vinyl chloride.

This report presents the results of a groundwater monitoring program conducted between November 8 and November 26, 2010 at the Harbourside Commercial Park (the Site). The program is outlined in the Environmental Management Plan (EMP) for Harbourside Commercial Park. The program was conducted by SLR Consulting (Canada) Ltd. at the request of Nova Scotia Lands Inc. in accordance with our work plan dated 20 October, 2010 and was the third round of annual groundwater sampling on the Site. In total 66 were sampled during the November 2010 program.

A statistical analysis (i.e. Mann-Kendall) was also performed on groundwater data that has a minimum of four data sets, which included historical analytical data from Phase II and III Environmental Site Assessment (ESA) reporting. The statistical analysis was performed to determine if concentrations at each sampling location are below the applicable guidelines, and whether they are increasing, decreasing or stable. This information will be applied to address constituents that may be discontinued or that require additional sampling.

In evaluating the significance of these ESA results, it is noted that most of the original samples contained excessive turbidity, likely attributed to the sampling method (Waterra foot valve method). This program was conducted using a low-flow sampling method designed to provide minimal sediment mobilization. Seventy-one were monitored in November 2010, of which 66 were sampled and compared to the following standards:

- TPH/BTEX - Atlantic PIRI Tier 1 Risk Based Screening Levels (RBSLs);
- PAHs, Metals, Volatile Organic Compounds (VOCs), General Chemistry and Dioxins and Furans - Ontario Ministry of the Environment (MOE) Groundwater Standards for use Under the Environmental Protection Act; and
- General Chemistry – Health Canada's Canadian Drinking Water Quality Guidelines (CDWQG). Note these guidelines are used as a screening tool as they do not directly apply to the groundwater conditions at the Site.

Refer to Drawing 1, for the Monitor Well Location Plan.

1.1 Additional Work

Between August 25 and 27, 2010 eight monitor wells were installed in the North End of the Site as follows:

- 2 monitor wells (SCU18-010-MW and SCU18-011-MW) were installed in SCU18.
- 6 monitor wells (SCU20-013-MW, SCU20-014-MW, SCU20-015-MW, SCU20-016-MW, SCU20-017-MW, and SCU20-018-MW) were installed in SCU20.

The monitor wells were installed to determine the results/effects of the placement of solidified/stabilized (S/S) contaminated material in the North End (SCU 20 and SCU 18 (ore field)) during remedial activities. After installation of the monitor wells, they were subsequently developed and sampled. In addition to sampling the new monitor wells, three existing wells in SCU18 (SCU18-001-MWA, SCU18-002-MWA, and SCU18-005-MWA) were sampled due to their locations surrounding the ore field area where S/S material was placed. The results of this groundwater sampling program are also discussed in the report. These wells were also part of the November monitoring event.

2.0 FIELD PROGRAM METHODS

Groundwater samples were collected in accordance with SLR's Standard Field Procedures, industry-accepted protocols and NS Lands-approved protocols to maintain accurate and consistent collection of field data and interpretation of conditions.

Sampling was conducted via low-flow purging and sampling methods, as it is considered to be the most defensible method for the collection of representative formation water. Low-flow purging and sampling is the preferred method for all semi-volatile and non-volatile/inorganic analyses (i.e. C₆₋₅₀ hydrocarbons, metals, PAHs, VOCs and Dioxins/Furans), and is defined as purging groundwater from a well at a rate of less than 1 L/min and minimizing draw-down of the static water level to less than 10 cm.

During the purging process, extracted groundwater was determined to be representative of natural formation water through geochemical parameter stabilization monitoring. Once the geochemical parameters were determined to have stabilized, groundwater samples were subsequently collected.

In the parameter stabilization method, extracted groundwater was passed continuously through a 'flow-through' cell and pH, temperature, specific conductance, dissolved oxygen, redox and turbidity were monitored to assess their stabilization as an indication that representative formation water was being extracted. Temperature, pH and conductivity are the three minimum parameters required for stabilization. Stabilization was confirmed when three subsequent readings were within 10% variance of each other. Groundwater samples collected for metals analysis were field filtered and preserved prior to laboratory submission.

Seventy monitor wells were included in the November 2010 Groundwater Monitoring Program; however five wells could not be sampled for the following reasons:

- SCU24-003-MW and SCU31-006-MW were dry and not sampled.

- Monitor well SCU26-007-MW did not contain enough water to retrieve a complete sample.
- Monitor well SCU24-012-MW could not be sampled because there was Waterra tubing obstructing the well and it could not be removed. A neighbouring well (SCU24-013-MW) was therefore substituted and a sample submitted for analysis in its place.
- Monitor well (SCU31-002-MWA) appeared to contain free product and was not sampled.

Eleven monitor wells were included in the September 2010 groundwater monitoring event, which includes the eight monitor wells installed in August 2010.

Field monitoring forms/groundwater sampling records are provided in Appendix A for both monitoring events.

3.0 2010 ANALYTICAL RESULTS

In total 86 groundwater samples from both monitoring programs (including eight duplicates and one trip blank) were submitted for PAH, TPH/BTEX and Metals analyses. Two additional trip blanks were submitted for TPH/BTEX analysis. Four monitor wells were sampled for VOCs and one for Dioxins and Furans. Fourteen groundwater samples (including one duplicate and one trip blank) were submitted for General Chemistry analysis. Analyses were selected based on previous results for each well.

Sample submission for the September and November monitoring events as follows:

- September 2010: 13 samples (including one duplicate and one trip blank) were submitted for PAH, BTEX/TPH, metals, and general chemistry analyses.
- November 2010: 73 samples (including seven duplicates) were submitted for PAH, BTEX/TPH and Metals analyses. An additional two trip blank samples were submitted for TPH/BTEX. One groundwater sample was submitted for general chemistry analysis. Additional samples submitted for laboratory analyses included: four VOCs; one Dioxin and Furans; and one Groundwater Chemistry.

All groundwater samples were submitted to Maxxam Analytics Inc (Maxxam) in Sydney, Nova Scotia.

Analytical results are provided in Tables 1 through 6 for PAHs, BTEX/TPH, Metals and VOCs, General Chemistry and Dioxins and Furans, respectively. The tables also provide historical analytical data for all monitor wells included in this program.

3.1 PAHs

The groundwater samples submitted for PAH analysis contained concentrations below applicable guidelines, with the exception of SCU6-004-MW. The following PAH parameters exceeded MOE guidelines:

- Benzo(g,h,i)perylene (guideline criterion of 0.2 ug/L) - 0.71 ug/L;
- Benzo(k)fluoranthene (guideline criterion of 0.4 ug/L) - 0.58 ug/L ;and

- Indeno(1,2,3-cd)pyrene (guideline criterion of 0.27 ug/L) - 0.68 ug/L.

Analytical data is provided in Table 1 and analytical certificates in Appendix B.

3.2 Hydrocarbons

The groundwater samples submitted for TPH/BTEX analysis were either non-detect or contained concentrations below the Atlantic PIRI Tier I RBSL for a Commercial site with Non-Potable groundwater usage and coarse-grained soil.

The following sample contained free product and was not submitted for analysis:

- SCU31-002-MWA (measured product thickness of 1.349 m – suspected to be related to known Bunker C impacts in this area).

Analytical data is provided in Table 2 and analytical certificates in Appendix B.

3.3 Metals (including Mercury)

Groundwater results for samples submitted for dissolved Metals analysis were either non-detect or contained concentrations below the MOE guidelines with the exception of SCU25-004-MW. This sample exceeds the MOE guideline for mercury (0.12 ug/L) as follows:

- SCU25-004-MW - 0.14 ug/L.

No other metal parameters were in excess of the guidelines.

Analytical data is provided in Table 3 and analytical certificates in Appendix B.

3.4 VOCs

Four groundwater samples were submitted for VOC analysis. All results were below applicable guidelines with the exception of SCU10-001-MW. The following VOC parameters exceeded MOE guidelines:

- cis-1,2-Dichloroethylene (guideline criterion of 70 ug/L) - 80 ug/L; and
- Vinyl Chloride (guideline criterion of 0.5 ug/L) - 9.0 ug/L.

Analytical data is provided in Table 4 and analytical certificates in Appendix B.

3.5 General Chemistry

Fourteen groundwater samples were submitted for General Chemistry analysis. Concentrations were compared to MOE guidelines, as well as CDWQG (for comparison only). All parameters were within guidelines with the exception of the following:

- Chloride (guideline criterion of 250 mg/L) – SCU20-013-MW (330 mg/L);

- Colour (guideline criterion of 15 TCU) – SCU20-013-MW (36 TCU), SCU20-014-MW (22 TCU), and SCU20-016-MW (19 TCU);
- pH (guideline criterion of 6.5-8.5 pH units) – SCU18-010-MW (10.1), SCU20-013-MW (11.5), SCU20-014-MW (9.5), SCU20-015-MW (10.0), SCU20-016-MW (10.9), SCU20-017-MW (10.9), SCU20-018-MW (9.0), and TB-002 (6.4);
- Sulphate (SO₄) (guideline criterion of 500 mg/L) – SCU18-001-MWA (1100 mg/L), SCU18-011-MW (540 mg/L), SCU20-015-MW (890 mg/L), and SCU20-018-MW (840 mg/L); and
- Turbidity (CDWQG criterion of 0.3/1.0/0.1 NTU depending on the type of drinking water treatment system) – SCU16-004-MW (85 NTU); SCU18-001-MW (20 NTU), SCU18-002-MW (0.4 NTU), SCU18-005-MWA (3.4 NTU), SCU18-005-MWA-DUP (2.9 NTU), SCU18-011-MW (13.0 NTU), SCU20-013-MW (10.0 NTU), SCU20-014-MW (5.1 NTU), SCU20-015-MW (0.8 NTU), SCU20-016-MW (4.7 NTU), and SCU20-017-MW (2.9 NTU).

The CDWQG for all parameters with exceedances are aesthetic objectives for drinking water and thus, do not directly apply to groundwater results for the Site, but are used for screening purposes.

Analytical data is provided in Table 5 and analytical certificates in Appendix B.

3.6 Dioxins and Furans

One groundwater sample (SCU17-004-MW) was submitted for Dioxins and Furans analysis. The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors were used to determine the final concentrations of each parameter listed. The Total Toxic Equivalent (TEQ) was determined to be 2.19 pg/L and thus, exceeded the MOE guideline for Dioxin/Furan of 0.015 pg/L.

Analytical data is provided in Table 6 and analytical certificates in Appendix B.

3.7 QA/QC

A laboratory quality assurance and quality control (QA/QC) program was followed to ensure that the sampling and analytical data were interpretable, meaningful and reproducible.

All groundwater samples were analyzed by Maxxam Analytics (Maxxam) in Sydney, Nova Scotia. Maxxam is an accredited testing laboratory through Standards Council of Canada (SCC) and certified by the Canadian Association for Laboratory Accreditation (CALA). As conveyed by the laboratory, method blanks, control standards samples, certified reference material standards, method spikes, replicates, duplicates and instrument blanks are routinely analyzed as part of their QA/QC programs.

As an internal quality control measure, the project laboratory routinely reports the results of laboratory prepared duplicate analyses. The results of the laboratory QA/QC are reported in the laboratory certificates provided in Appendix B. If these criteria are not met, the laboratory is asked by SLR to either re-analyze the affected samples or qualify the results. SLR has

reviewed these data and verifies that the laboratory internal QA/QC results fall within the lab's own specified acceptance criteria.

To verify the reproducibility of the laboratory analyses and to demonstrate that the field sampling techniques utilized by SLR personnel are capable of yielding reproducible results, SLR collected a total of eight blind field duplicate (BFD) samples that represent 10.4% of the samples collected. Eight duplicate groundwater samples were submitted for PAH, metals and TPH/BTEX analyses. The duplicates submitted were as follows:

- FD1-SCU-12-003-MW (November 9, 2010);
- FD2-SCU-16-011-MWC (November 12, 2010);
- FD4-SCU17-002-MWB (November 15, 2010);
- FD3-SCU-17-010-MWC (November 13, 2010);
- SCU-18-005-MWA-DUP (September 9, 2010);
- FD7-SCU18-009-MW (November 19, 2010);
- FD5-SCU18-011-MW (November 17, 2010); and
- FD6-SCU24-007-MWB (November 18, 2010).

The September duplicate sample was also submitted for general chemistry analysis.

All duplicate samples were generally observed to compare well with their respective original samples.

Three laboratory-prepared groundwater trip blanks were also analysed by Maxxam for QA/QC purposes, including:

- TB-002 (September 9, 2010);
- Trip Blank 1 (November 9, 2010); and
- Trip Blank 2 (November 16, 2010).

TB-002 was also submitted for PAH, Metal and General Chemistry analyses.

Concentrations of BTEX/TPH in the three groundwater trip blanks were reported below laboratory detection limits. Based on these QA/QC results, it is the opinion of SLR that the data collected from the investigations can be relied upon.

Neither PAHs nor metals were detected in any of the trip blanks. The trip blank (TB-002) submitted for general chemistry contained the following parameters:

- pH was recorded at 6.4, which is outside of the CDWQGs AO range of 6.5 to 8.5 pH units.
- Silica concentration of 0.2 mg/L was recorded, but it does not have a guideline.

Laboratory comments in regards to sample quality included:

- Reporting limits for ICP-MS metals elevated due to dilution - SCU12-001-MW (November 16, 2010), SCU19-002-MWA (November 18, 2010), SCU19-002-MWB (November 18, 2010), SCU25-003-MW (November 16, 2010), SCU25-005-MWB

(November 16, 2010), SCU25-005-MWC (November 16, 2010) and SCU25-007-MW (November 16, 2010).

- Reporting limits for ICP-MS metals elevated due to dilution for interfering compounds - SCU20-013-MW (September 3, 2010) and SCU20-018-MW (September 7, 2010).
- Ion balance >5% due to sample matrix - SCU20-015-MW (September 3, 2010).
- Elements by ICPMS - low dissolved: Test repeated - SCU18-002-MWA (September 8, 2010) and SCU20-016-MW (September 7, 2010).

The QA/QC laboratory comments were reviewed and are considered acceptable and do not affect the conclusions.

4.0 STATISTICAL ANALYSIS

The nonparametric Mann-Kendall statistical trend analysis was used to evaluate the analytical groundwater chemistry for all monitor wells in which analyte concentrations had exceeded applicable standards and for which data was available for at least four sampling events (see Tables 1 to 6). Duplicate analyses were considered to be the same sampling event as the primary sample, and the results of primary and duplicate samples were averaged to obtain the representative concentrations for these events.

The Mann-Kendall test is commonly used to detect monotonic trends in series data including hydrologic applications (Whitfield et al. 2006). This method allows for missing values and the data do not need to conform to a particular distribution (Salmi et al. 2002). The analysis compares the relative magnitudes of sample data rather than the data values themselves (Gilbert, 1987). Moreover, data reported as non-detects can be included by assigning them a common value that is smaller than the smallest measured value in the data set.

For this analysis, the Mann-Kendall test significance level, α , was required to be less than 0.10. This indicates that there is a 90% or better chance, or confidence level, of a trend in the analyte concentrations, while there is 10% chance that these results are from a random distribution and the trend does not exist. This is the threshold at which trends can be said to be probably increasing or probably decreasing (Wiedemeier et al, 2000).

The Mann-Kendall analysis requires a minimum of four sampling events for a 90% confidence level and assigns a score of 0, -1 or +1 for comparison of the analyte concentration for each individual groundwater sampling event to all previous sampling events. Analyte concentrations indicated to have no change from the previous sampling events score a 0, while concentration decreases score a -1, and increases score a +1. A Mann-Kendall Statistic (S) value is obtained from summing the assigned scores, and can indicate a increasing (positive S) or decreasing (negative S) concentration.

A critical value, or minimum absolute value, of S exists for each confidence level. If the absolute value of S is lower than this critical value, no apparent trend, either increasing or decreasing, is indicated at the respective confidence limit. As the confidence limit increases, the critical value of S for a given number of samples also increases.

An S value that indicates no apparent trend is present does not by itself indicate stable concentrations, or a stable plume. The relative degree of variability of the data must also be evaluated. A quick and useful measure of the variability is the Coefficient of Variation (COV) of the data. A COV of less than one indicates the data have relatively low variability, and a COV of

1 or greater indicates the data have relatively high variability. If the S value is lower than the critical S value for the number of sampling events used in the analysis, and the COV of the analyte series is less than 1, a stable trend is likely. If the S value is lower than the number of sampling events used in the analysis, and the COV of the analyte series is equal to or greater than 1, no trend is indicated.

The data set from the site was screened for locations and parameters to apply trend test analysis. The following criteria were considered:

- An analyte must have been detected in a monitor well at a concentration greater than the applicable standard in at least one sampling event; and
- A minimum of four sampling events had been conducted at the monitor well.

A total of 37 analytes from 10 monitor wells were identified that met these criteria, as listed in Table C-1, Appendix C.

In many cases, the analyte detection above applicable standards were single events, followed by non-detections with reported detection limits (RDLs) significantly less than the previous detection. Mann-Kendall trend analyses was not conducted for these locations as the decreasing trend is apparent. Mann-Kendall is not sensitive to the magnitude of a decrease, only the presence or absence of a decrease, and would likely underestimate the significance of the decrease in these locations. In addition, the single samples with concentrations above standards may have been the result of factors other than decreases in groundwater concentrations, such as changes in sampling methodology which was changed to low flow methodology in 2005, the season of the year in which the samples were collected, or other factors that have not yet been identified.

The following monitor wells had four monitoring events for one or more parameter, but were not included in the statistical analysis:

Monitor well ID	Number of Sampling Events				Comments
	PAH	TPH/BTEX	Metals	VOC	
SCU4-001-MWA	3	4	4	0	Mercury exceedance in 2004 (apparent decreasing trend)
SCU4-001-MWB	3	4	4	0	No exceedances recorded
SCU7-006-MWB	4	4	4	0	No exceedances recorded
SCU11-004-MWB	4	4	4	2	No exceedances recorded
SCU12-001-MW	4	4	4	4	No exceedances recorded
SCU12-003-MW	4	3	4	0	PAH exceedance in 2003 (apparent decreasing trend)
SCU13-003-MW	4	4	4	0	No exceedances recorded
SCU13-006-MWA	4	4	4	0	No exceedances recorded
SCU13-006-MWB	4	4	4	0	No exceedances recorded
SCU15-002-MWA	4	4	4	0	PAH and metals exceedances in 2003 (apparent decreasing trend)
SCU15-002-MWB	4	4	4	0	No exceedances recorded
SCU24-007-MWB	2	4	4	0	No exceedances recorded
SCU25-002-MWA	4	4	4	0	No exceedances recorded
SCU25-005-MWC	4	4	4	0	Metals exceedances in 2007 (apparent decreasing trend)

A total of 21 analyte series at seven remained for which Mann-Kendall trend analysis was applied. An additional criterion was added to the analyses to consider differences in concentrations which were considered diminimus, in which case the concentrations would be considered to be equal, and a score of 0 would be applied to comparison of these concentrations in the Mann-Kendall equation. This threshold was set to five times the analyte RDL for this analysis.

The results of the Mann-Kendall tests indicate the following, with respect to dissolved plume stability, for each area, monitor well, and analyte described below. The analysis results are summarized in Table C-1, Appendix C.

- No trend was found in monitor well SCU06-004-MW for benzo(g,h,i)perylene and anthracene, while indeno(1,2,3-cd)pyrene was found to be probably increasing.
- No trend was found in monitor well SCU07-006-MWA for fluoranthene, phenanthrene, and pyrene.
- Benzo(g,h,i)perylene and indeno(1,2,3-cd)pyrene in monitor well SCU15-013-MW were found to be probably decreasing.
- No trend was found for benzo(g,h,i)perylene, chrysene, and indeno(1,2,3-cd)pyrene in monitor well SCU15-018-MW, while benzo(k)fluoranthene was found to be probably decreasing.
- No trend was found for anthracene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and phenanthrene in monitor well SCU25-003-MW.
- Total mercury in monitor well SCU25-004-MW was found to be stable.
- cis-1,2-Dichloroethylene was found to be stable in monitor well SCU10-001-MW, while vinyl chloride was found to be probably increasing.

The current analysis indicates that additional sampling events will be necessary for many locations to obtain sufficient data to produce Mann-Kendall scores above the 90% confidence limit.

The results of the Mann-Kendall Test analyses for the groundwater monitor wells are presented in Appendix C.

4.1 Discussion

Twenty monitor wells had four rounds of groundwater sampling completed and of those, the following 13 monitor wells were not included in the statistical analysis (i.e. Mann-Kendall) as analytes did not contain concentrations in excess of applicable guidelines or if decreasing trends were apparent:

- SCU4-001-MWB;
- SCU7-006-MWB;
- SCU11-004-MWB;
- SCU12-001-MW;
- SCU12-003-MW;
- SCU13-003-MW;
- SCU13-006-MWA;
- SCU13-006-MWB;
- SCU15-002-MWA;
- SCU15-002-MWB;
- SCU24-007-MWB;
- SCU25-002-MWA; and
- SCU25-005-MWC.

None of these monitor wells require additional groundwater monitoring.

A total of 21 analyte series at seven monitor wells remained for which Mann-Kendall trend analysis was applied. The results of the analyses indicated the following:

- SCU6-004-MW: displayed an increasing trend for two out of three PAH analytes. Review of the sample results from 2004, 2005, 2009 and 2010 indicate that no exceedances of applicable standards were present until 2009 and continued in 2010. No new activities have occurred to explain the increase in PAH results. Monitoring should continue for another year to provide more data for the Mann-Kendall analysis.
- SCU7-006-MWA: no trend was present for PAH analytes. Concentrations of 12 PAH analytes exceeded MOE Standards in 2004. No exceedances were recorded in 2008, 2009 and 2010. Concentrations of anthracene, benzo(a)anthracene, fluoranthene, phenanthrene and pyrene were all in exceedance in 2004 and appeared to be decreasing in 2008 and 2009. Concentrations in 2010 were above those reported in 2009. As original data collected during the Phase II and III ESAs had potential to be biased high because of sampling techniques (i.e. low-flow sampling was introduced in 2005 due to high turbidity/sediment). A minimum of one more monitoring event should be completed to provide four rounds of analytical data that is not influenced by a change in sampling methodology.
- SCU15-013-MW: displayed a probable decreasing trend for PAH analytes. Concentrations of two PAH analytes exceeded MOE Standards in 2007. All PAH concentrations decreased with each round of sampling (2007, 2008, 2009 and 2010),

with the exception of two analytes that remained consistent between 2008 and 2009, and decreased again in 2010. No further sampling is required for SCU15-013-MW.

- SCU15-018-MW: three out of four PAH parameters displayed no trend, while one was probable decreasing (i.e. benzo (k) fluoranthene). Generally, PAH concentrations decreased with each round of sampling (2007, 2008, 2009 and 2010), but more than half of the concentrations reported in 2010 were higher than those reported in 2009. A minimum of one more monitoring event should be completed to provide an additional year of analytical data to determine the stability of the PAHs.
- SCU25-003-MW: no trend was present for PAH analytes. Concentrations of 10 PAH analytes exceeded MOE Standards in 2007. While no exceedances were reported between 2008 and 2010, concentrations generally appeared elevated in 2009. A minimum of one more monitoring event should be completed to provide an additional year of analytical data to determine the stability of the PAHs.
- SCU25-004-MW: total mercury is stable. While the statistical analysis indicates a stable trend, mercury results have been consistently increasing since 2007. Exceedances were only noted in 2009 and 2010 data. Mercury concentrations ranged from <0.013 to 0.14 ug/L which are relatively small concentrations. Monitoring should continue as per the approved GWMP.
- SCU10-001-MW: cis-1,2-Dichloroethylene was found to be stable and vinyl chloride was found to be probably increasing. The increased concentration is expected as it is by-product of the breakdown of other VOC analytes, such as trichloroethylene, and tetrachloroethylene. While the increase in vinyl chloride proves that VOC concentrations are breaking down and thus, decreasing; continued monitoring should be conducted as vinyl chloride is considered to be high risk and is a known carcinogen. Monitor well SCU10-001-MW is located near an industrial building therefore concentrations of vinyl chloride should continue to be monitored. .

5.0 CONCLUSIONS AND RECOMMENDATIONS

Groundwater samples were collected from 66 monitor wells in November 2010 and 11 monitor wells in September 2010. Samples were submitted for a combination of PAH, BTEX/TPH, Metals, VOC, General Chemistry, and/or Dioxin and Furan analyses. The fieldwork for this monitoring program was conducted between September 3 and 9, 2010, and November 8 and November 26, 2010. Sampling was conducted via low-flow purging and sampling methods, as it is considered to be the most defensible method for the collection of representative formation water. The results of the monitoring program are as follows:

- The following monitor wells were not sampled due to lack of water: SCU24-003-MW, SCU26-007-MW and SCU31-006-MW). SCU24-012-MW could not be sampled as Waterra tubing obstructing the well and it could not be removed. A neighbouring well (SCU24-013-MW) was therefore substituted and a sample submitted for analysis in its place.
- Concentrations of Benzo(g,h,i)perylene (0.71 ug/L), of Benzo(k)fluoranthene (0.58 ug/L) and Indeno(1,2,3-cd)pyrene (0.68 ug/L) was reported in groundwater sample SCU6-004-

MW, which exceeds the MOE guidelines of 0.2 ug/L, 0.4 ug/L and 0.27 ug/L, respectively. All other PAH concentrations were below Ontario Table 3 guidelines.

- Groundwater samples submitted for TPH/BTEX analysis were either non-detect or contained concentrations below the Atlantic PIRI Tier I RBSL for a Commercial site with non-potable groundwater usage and coarse-grained soil.
- Free product was identified in monitor well SCU31-002-MWA. No sample was collected from this monitor well.
- A concentration of 0.14 ug/L mercury was reported in SCU25-004-MW, exceeding the MOE guideline of 0.12 ug/L. All other concentration of Dissolved Metals analysed contained concentrations below Ontario Table 3 guidelines.
- Groundwater analysis indicated a concentration of 80 ug/L for cis-1, 2-Dichloroethylene and 9.0 ug/L of Vinyl Chloride in monitor well SCU10-001-MW, which exceed the *Ontario* Table 3 guidelines of 70 ug/L and 0.5 ug/L, respectively. All other VOC concentrations were below MOE guidelines.
- Chloride, colour, pH, sulphate and turbidity exceeded the CDWQG (AO) in one or more groundwater samples submitted for analyses. The CDWQG for turbidity is an aesthetic objective for drinking water and thus, does not directly apply to groundwater results, but is used for screening purposes.
- One groundwater sample (SCU17-004-MW) was submitted for Dioxin and Furan analysis. The results exceed the MOE guideline for Dioxin/Furans.

Review of analytical data from 2003 to 2010 was completed and statistical analysis (i.e Mann-Kendall) was considered for all sample locations that contained at least four rounds of data. Twenty monitor wells had four rounds of groundwater sampling completed and of those the following 14 monitor wells were not included in the statistical analysis as analytes did not contain concentrations in excess of applicable guidelines or if decreasing trends were apparent:

- SCU4-001-MWA;
- SCU4-001-MWB;
- SCU7-006-MWB;
- SCU11-004-MWB;
- SCU12-001-MW;
- SCU12-003-MW;
- SCU13-003-MW;
- SCU13-006-MWA;
- SCU13-006-MWB;
- SCU15-002-MWA;
- SCU15-002-MWB;
- SCU24-007-MWB;
- SCU25-002-MWA; and
- SCU25-005-MWC.

None of these monitor wells require additional groundwater monitoring.

A total of 21 analyte series at seven monitor wells remained for which Mann-Kendall trend analysis was applied. The results of the analyses indicated the following:

- SCU6-004-MW: displayed an increasing trend for two out of three PAH analytes.
- SCU7-006-MWA: no trend was present for PAH analytes.
- SCU15-013-MW: displayed a probable decreasing trend for PAH analytes.
- SCU15-018-MW: displayed no trend for three PAH analytes and a decreasing trend for one PAH analyte.
- SCU25-003-MW: no trend was present for PAH analytes.
- SCU25-004-MW: total mercury is stable.
- SCU10-001-MW: cis-1,2-Dichloroethylene was found to be stable and vinyl chloride was found to be probably increasing.

Recommended changes to the monitoring program are summarized in Drawing 2. Based on the review of the Mann-Kendall trend analysis and the historical groundwater analytical data, the following monitor well can also be removed from the sampling program:

- SCU15-013-MW

In total 14 monitor wells can be removed from the annual groundwater monitoring program. These monitor wells should be decommissioned if no future use is planned.

Continued monitoring in SCU 6 is recommended to further assess PAH concentration trends.

6.0 STATEMENT OF LIMITATIONS

This report has been prepared and the work referred to in this report has been undertaken by SLR for NS Lands Inc. It is intended for the sole and exclusive use of NS Lands and its authorized agents for the purpose(s) set out in this report. Any use of, reliance on or decision made based on this report by any person other than NS Lands for any purpose, or by NS Lands for a purpose other than the purpose(s) set out in this report, is the sole responsibility of such other person or NS Lands. NS Lands and SLR make no representation or warranty to any other person with regard to this report and the work referred to in this report and they accept no duty of care to any other person or any liability or responsibility whatsoever for any losses, expenses, damages, fines, penalties or other harm that may be suffered or incurred by any other person as a result of the use of, reliance on, any decision made or any action taken based on this report or the work referred to in this report.

The investigation undertaken by SLR with respect to this report and any conclusions or recommendations made in this report reflect SLR's judgment based on the site conditions observed at the time of the groundwater monitoring program on the date(s) set out in this report, on information available at the time of preparation of this report, on the interpretation of data

collected from the field investigation, and on the results of laboratory analyses, which were limited to the quantification in select samples of those substances specifically identified in the report. This report has been prepared for specific application to this site and it is based, in part upon visual observation of the site and specific analysis of specific chemical parameters and materials during a specific time interval, all as described in this report. Unless otherwise stated, the findings cannot be extended to previous or future site conditions, or chemical parameters, materials or analyses which were not addressed. Substances other than those addressed by the investigation described in this report may exist within the site; substances addressed by the investigation may exist in areas of the site not investigated and concentrations of substances addressed which are different than those reported may exist in areas other than the locations from which samples were taken. SLR expresses no warranty with respect to the accuracy of the laboratory analyses, methodologies used, or presentation of analytical results by the laboratory. Actual concentrations of the substances identified in the samples submitted may vary according to the extraction and testing procedures used.

As the evaluation and conclusions reported herein do not preclude the existence of other chemical compounds and/or that variations of conditions within the site may be possible, this report should be used for informational purposes only and should absolutely not be construed as a comprehensive hydrogeological or chemical characterization of the site. If site conditions change or if any additional information becomes available at a future date, modifications to the findings, conclusions and recommendations in this report may be necessary.

Nothing in this report is intended to constitute or provide a legal opinion. SLR makes no representation as to the requirements of or compliance with environmental laws, rules, regulations or policies established by federal, provincial or local government bodies. Revisions to the regulatory standards referred to in this report may be expected over time. As a result, modifications to the findings, conclusions and recommendations in this report may be necessary.

Other than by NS Lands and as set out herein, copying or distribution of this report or use of or reliance on the information contained herein, in whole or in part, is not permitted without the express written permission of SLR.

NS Lands may submit this report to Nova Scotia Environment and/or related Nova Scotia environmental regulatory authorities or persons for review and comment purposes.

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TABLES

Summary of Analytical Results

2010 Groundwater Monitoring Program
Harbourside Commercial Park, Sydney, NS
SLR Ref: 210.05780.00000

TABLE 1 "(continued)"
Groundwater Polycyclic Aromatic Hydrocarbons Analysis
Harbourside Commercial Park
Groundwater Monitoring Program

Monitor Well ID			Standard MOE Table 3	SCU4-001- MWA	SCU4-001- MWA	SCU4-001- MWA	SCU4-001- MWA	SCU4-001- MWB	SCU4-001- MWB	SCU4-001- MWB	SCU6-004- MW	SCU6-004- MW	SCU6-004- MW
Sampling Date	Units	RDL		19-Nov-08	DUP B 19-Nov-08	18-Nov-09	10-Nov-10	19-Nov-08	18-Nov-09	10-Nov-10	13-Aug-04	30-Jun-05	18-Nov-09
Polyaromatic Hydrocarbons													
1-Methylnaphthalene	ug/L	1	13000	ND	ND	ND	ND	ND	ND	ND	ND(0.03)	ND(0.1)	ND
2-Methylnaphthalene	ug/L	1	13000	ND	ND	ND	ND	ND	ND	ND	ND(0.04)	ND(0.1)	ND
Acenaphthene	ug/L	0.01	1700	ND	ND	ND	ND	ND	ND	0.01	ND(0.03)	ND(0.02)	0.07
Acenaphthylene	ug/L	0.01	2000	ND	ND	ND	ND	ND	ND	ND	ND(0.03)	ND(0.02)	0.09
Anthracene	ug/L	0.01	12	ND	ND	ND	ND	ND	ND	ND	0.15	0.07	0.42
Benzo(a)anthracene	ug/L	0.01	5	ND	ND	ND	ND	ND	ND	ND	0.44	0.19	1.1
Benzo(a)pyrene	ug/L	0.01	1.9	ND	ND	ND	ND	ND	ND	ND	0.31	0.17	0.88
Benzo(b)fluoranthene	ug/L	0.01	7	ND	ND	ND	ND	ND	ND	ND	---	0.17	0.63
Benzo(g,h,i)perylene	ug/L	0.01	0.2	ND	ND	ND	ND	ND	ND	ND	0.16	0.1	0.59
Benzo(k)fluoranthene	ug/L	0.01	0.4	ND	ND	ND	ND	ND	ND	ND	---	0.18	0.45
Chrysene	ug/L	0.01	3	ND	ND	ND	ND	ND	ND	ND	0.00069	0.18	1.1
Dibenz(a,h)anthracene	ug/L	0.01	0.25	ND	ND	ND	ND	ND	ND	ND	0.06	0.04	0.14
Fluoranthene	ug/L	0.01	130	ND	ND	ND	ND	ND	ND	ND	0.63	0.38	2.0
Fluorene	ug/L	0.01	290	ND	ND	ND	ND	ND	ND	0.01	0.04	0.02	0.07
Indeno(1,2,3-cd)pyrene	ug/L	0.01	0.27	ND	ND	ND	ND	ND	ND	ND	0.17	0.12	0.58
Naphthalene	ug/L	4	5900	ND	ND	ND	0.2	ND	ND	0.3	0.04	ND(0.4)	ND
Perylene	ug/L	0.01	ns	ND	ND	ND	ND	ND	ND	ND	0.1	0.07	0.21
Phenanthrene	ug/L	0.01	63	ND	ND	ND	0.01	0.01	ND	0.02	0.3	0.2	1.4
Pyrene	ug/L	0.01	40	ND	ND	ND	ND	0.01	ND	ND	0.91	0.35	1.6

Notes:

ug/L - micrograms per litre

PAH - polycyclic aromatic hydrocarbons

ND = Not detected

RDL = Reportable Detection Limit

ND(1) = elevated RDL to concentration in brackets

ns - no standard listed

MOE - Ontario Ministry of Environment

'-' - no guideline available

---' - not analysed

* Elevated PAH RDL(s) due to matrix / co-extractive interference.

**Exceeds MOE Site Condition Standards Table 3: Full Depth Generic Site
Condition Standards in a Non-Potable Ground Water**

TABLE 1 "(continued)"
Groundwater Polycyclic Aromatic Hydrocarbons Analysis
Harbourside Commercial Park
Groundwater Monitoring Program

Monitor Well ID			Standard MOE Table 3	SCU6-004- MW	SCU7-006- MWA	SCU7-006- MWA	SCU7-006- MWA	SCU7-006- MWA	SCU7-006- MWB	SCU7-006- MWB	SCU7-006- MWB	SCU7-006- MWB	SCU7-006- MWB
Sampling Date	Units	RDL		19-Nov-10	17-Sep-04	18-Nov-08	16-Nov-09	26-Nov-10	17-Sep-04	18-Nov-08	16-Nov-09	DUP A 16-Nov-09	26-Nov-10
Polyaromatic Hydrocarbons													
1-Methylnaphthalene	ug/L	1	13000	ND	230	9.4	ND	15	ND	ND	ND	ND	ND
2-Methylnaphthalene	ug/L	1	13000	ND	47	5.7	ND	3.0	ND	ND	ND	ND	ND
Acenaphthene	ug/L	0.01	1700	0.06	220	1.7	0.01	2.4	0.06	0.10	0.07	ND	0.06
Acenaphthylene	ug/L	0.01	2000	0.01	43	11	ND	18	0.03	0.08	0.03	ND	0.03
Anthracene	ug/L	0.01	12	0.33	130	0.33	0.02	0.77	0.013	ND	ND	0.03	ND
Benzo(a)anthracene	ug/L	0.01	5	1.2	64	0.01	ND	0.02	ND	ND	ND	ND	ND
Benzo(a)pyrene	ug/L	0.01	1.9	1.2	36	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ug/L	0.01	7	1.2	46.7	ND	ND	ND	---	ND	ND	ND	ND
Benzo(g,h,i)perylene	ug/L	0.01	0.2	0.71	11	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ug/L	0.01	0.4	0.58	21	ND	ND	ND	---	ND	ND	ND	ND
Chrysene	ug/L	0.01	3	1.2	47	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	ug/L	0.01	0.25	0.22	4.7	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ug/L	0.01	130	2.3	140	0.15	0.09	0.42	0.05	ND	ND	0.10	ND
Fluorene	ug/L	0.01	290	0.06	150	3.8	ND	8.0	ND	0.12	ND	ND	0.01
Indeno(1,2,3-cd)pyrene	ug/L	0.01	0.27	0.68	16	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ug/L	4	5900	ND	1310	68	ND	70*	ND	ND	ND	ND	ND
Perylene	ug/L	0.01	ns	0.31	8.6	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ug/L	0.01	63	1.2	320	2.6	0.02	3.6	0.06	ND	ND	0.02	ND
Pyrene	ug/L	0.01	40	1.8	110	0.08	0.02	0.22	0.04	ND	ND	0.02	ND

Notes:

ug/L - micrograms per litre

PAH - polycyclic aromatic hydrocarbons

ND = Not detected

RDL = Reportable Detection Limit

ND(1) = elevated RDL to concentration in brackets

ns - no standard listed

MOE - Ontario Ministry of Environment

'-' - no guideline available

---' - not analysed

* Elevated PAH RDL(s) due to matrix / co-extractive interference.

Exceeds MOE Site Condition Standards Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water

TABLE 1 "(continued)"
Groundwater Polycyclic Aromatic Hydrocarbons Analysis
Harbourside Commercial Park
Groundwater Monitoring Program

Monitor Well ID			Standard MOE Table 3	SCU8-002- MW	SCU8-002- MW	SCU9-003- MWA	SCU10-001- MW	SCU10-001- MW	SCU10-001- MW	SCU10-001- MW	SCU10-004- MW	SCU10-004- MW	SCU11-003- MW
Sampling Date	Units	RDL		16-Nov-09	9-Nov-10	19-Nov-08	17-Sep-03	19-Nov-08	17-Nov-09	10-Nov-10	19-Nov-08	10-Nov-10	19-Nov-09
Polyaromatic Hydrocarbons													
1-Methylnaphthalene	ug/L	1	13000	ND	ND	ND	0.9	ND	ND	ND	19	38 *	ND
2-Methylnaphthalene	ug/L	1	13000	ND	ND	ND	1.4	ND	ND	ND	14	37 *	ND
Acenaphthene	ug/L	0.01	1700	ND	ND	0.02	0.3	ND	ND	ND	18	37	ND
Acenaphthylene	ug/L	0.01	2000	ND	ND	ND	0.5	ND	ND	ND	2.2	7.5	ND
Anthracene	ug/L	0.01	12	ND	ND	0.05	0.013	ND	ND	ND	1.7	2.4	ND
Benzo(a)anthracene	ug/L	0.01	5	ND	ND	0.11	0.023	ND	ND	ND	0.37	0.28	ND
Benzo(a)pyrene	ug/L	0.01	1.9	ND	ND	0.05	0.03	ND	ND	ND	0.12	0.23	ND
Benzo(b)fluoranthene	ug/L	0.01	7	ND	ND	0.06	ND	ND	ND	ND	0.08	0.15	ND
Benzo(g,h,i)perylene	ug/L	0.01	0.2	ND	ND	0.01	ND	ND	ND	ND	0.01	0.09	ND
Benzo(k)fluoranthene	ug/L	0.01	0.4	ND	ND	0.05	ND	ND	ND	ND	0.11	0.12	ND
Chrysene	ug/L	0.01	3	ND	ND	0.13	0.03	ND	ND	ND	0.32	0.26	ND
Dibenz(a,h)anthracene	ug/L	0.01	0.25	ND	ND	ND	ND	ND	ND	ND	ND	0.03	ND
Fluoranthene	ug/L	0.01	130	ND	ND	0.34	0.04	ND	ND	ND	2.4	2.4	ND
Fluorene	ug/L	0.01	290	ND	ND	0.02	0.3	ND	ND	ND	10	18	ND
Indeno(1,2,3-cd)pyrene	ug/L	0.01	0.27	ND	ND	0.01	ND	ND	ND	ND	0.01	0.09	ND
Naphthalene	ug/L	4	5900	ND	ND	ND	5.9	ND	ND	ND	21	180 *	ND
Perylene	ug/L	0.01	ns	ND	ND	0.02	ND	ND	ND	ND	0.02	0.04	ND
Phenanthrene	ug/L	0.01	63	ND	ND	0.18	0.2	ND	ND	ND	5.1	15	ND
Pyrene	ug/L	0.01	40	ND	ND	0.31	0.066	ND	ND	0.01	1.7	1.6	ND

Notes:

ug/L - micrograms per litre

PAH - polycyclic aromatic hydrocarbons

ND = Not detected

RDL = Reportable Detection Limit

ND(1) = elevated RDL to concentration in brackets

ns - no standard listed

MOE - Ontario Ministry of Environment

'-' - no guideline available

---' - not analysed

* Elevated PAH RDL(s) due to matrix / co-extractive interference.

**Exceeds MOE Site Condition Standards Table 3: Full Depth Generic Site
Condition Standards in a Non-Potable Ground Water**

TABLE 1 "(continued)"
Groundwater Polycyclic Aromatic Hydrocarbons Analysis
Harbourside Commercial Park
Groundwater Monitoring Program

Monitor Well ID			Standard MOE Table 3	SCU11-003- MW	SCU11-004- MWB	SCU11-004- MWB	SCU11-004- MWB	SCU11-004- MW	SCU11-004- MWB	SCU12-001- MW	SCU12-001- MW	SCU12-001- MW	SCU12-001- MW
Sampling Date	Units	RDL		10-Nov-10	1-Jun-04	18-Nov-08	DUP A 18-Nov-08	24-Nov-09	9-Nov-10	16-Sep-03	21-Nov-08	24-Nov-09	16-Nov-10
Polyaromatic Hydrocarbons													
1-Methylnaphthalene	ug/L	1	13000	ND	ND	ND	ND	ND	0.15	0.8	ND	ND	ND
2-Methylnaphthalene	ug/L	1	13000	ND	ND	ND	ND	ND	0.19	1.9	ND	0.07	ND
Acenaphthene	ug/L	0.01	1700	ND	ND	ND	ND	ND	0.06	ND(0.2)	ND	ND	0.01
Acenaphthylene	ug/L	0.01	2000	ND	ND	ND	ND	ND	ND	ND(0.2)	ND	ND	ND
Anthracene	ug/L	0.01	12	ND	ND	ND	ND	ND	0.03	0.2	ND	ND	0.01
Benzo(a)anthracene	ug/L	0.01	5	ND	ND	ND	ND	0.02	0.01	0.5	ND	ND	0.01
Benzo(a)pyrene	ug/L	0.01	1.9	ND	ND	ND	ND	ND	0.02	0.4	ND	ND	ND
Benzo(b)fluoranthene	ug/L	0.01	7	ND	---	ND	ND	ND	ND	0.2	ND	ND	ND
Benzo(g,h,i)perylene	ug/L	0.01	0.2	ND	ND	ND	ND	ND	0.01	0.2	ND	ND	ND
Benzo(k)fluoranthene	ug/L	0.01	0.4	ND	---	ND	ND	ND	ND	2	ND	ND	ND
Chrysene	ug/L	0.01	3	ND	ND	ND	ND	0.01	0.01	7	ND	ND	0.02
Dibenz(a,h)anthracene	ug/L	0.01	0.25	ND	ND	ND	ND	ND	ND	ND(0.2)	ND	ND	ND
Fluoranthene	ug/L	0.01	130	0.01	ND	ND	ND	0.03	0.04	8	ND	ND	0.12
Fluorene	ug/L	0.01	290	ND	ND	ND	ND	ND	0.04	2	ND	ND	0.03
Indeno(1,2,3-cd)pyrene	ug/L	0.01	0.27	ND	ND	ND	ND	ND	ND	2	ND	ND	ND
Naphthalene	ug/L	4	5900	ND	ND	ND	ND	ND	2.5	1.1	ND	ND	ND
Perylene	ug/L	0.01	ns	ND	ND	ND	ND	ND	ND	---	ND	ND	ND
Phenanthrene	ug/L	0.01	63	0.02	ND	ND	ND	0.02	0.05	1.3	ND	0.01	0.18
Pyrene	ug/L	0.01	40	0.01	ND	ND	ND	0.02	0.03	0.8	ND	ND	0.07

Notes:

- ug/L - micrograms per litre
- PAH - polycyclic aromatic hydrocarbons
- ND = Not detected
- RDL = Reportable Detection Limit
- ND(1) = elevated RDL to concentration in brackets
- ns - no standard listed
- MOE - Ontario Ministry of Environment
- '-' - no guideline available
- ' - not analysed
- * Elevated PAH RDL(s) due to matrix / co-extractive interference.

Exceeds MOE Site Condition Standards Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water

TABLE 1 "(continued)"
Groundwater Polycyclic Aromatic Hydrocarbons Analysis
Harbourside Commercial Park
Groundwater Monitoring Program

Monitor Well ID			Standard MOE Table 3	SCU12-003- MW	SCU12-003- MW	SCU12-003- MW	SCU12-003- MW	SCU13-003- MW	SCU13-003- MW	SCU13-003- MW	SCU13-003- MW	SCU13-006- MWA	SCU13-006- MWA
Sampling Date	Units	RDL		16-Sep-03	20-Nov-08	9-Nov-10	FD 1 9-Nov-10	9-Jan-07	20-Nov-08	24-Nov-09	9-Nov-10	3-Jan-07	20-Nov-08
Polyaromatic Hydrocarbons													
1-Methylnaphthalene	ug/L	1	13000	7	ND	ND	ND	ND	ND	ND	0.24	ND(0.05)	ND(0.05)
2-Methylnaphthalene	ug/L	1	13000	1	ND	ND	ND	ND	ND	ND	0.29	ND(0.05)	ND(0.05)
Acenaphthene	ug/L	0.01	1700	3	ND	0.01	0.01	2	ND	ND	0.09	ND	ND
Acenaphthylene	ug/L	0.01	2000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	ug/L	0.01	12	1	ND	0.01	ND	ND	ND	ND	0.03	ND	ND
Benzo(a)anthracene	ug/L	0.01	5	2.4	ND	ND	ND	ND	ND	ND	ND	0.01	ND
Benzo(a)pyrene	ug/L	0.01	1.9	2.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ug/L	0.01	7	2.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ug/L	0.01	0.2	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ug/L	0.01	0.4	1	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	ug/L	0.01	3	2.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	ug/L	0.01	0.25	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ug/L	0.01	130	4.4	ND	0.02	0.02	ND	ND	ND	0.02	0.02	ND
Fluorene	ug/L	0.01	290	0.4	ND	0.02	0.02	ND	ND	ND	0.06	ND	ND
Indeno(1,2,3-cd)pyrene	ug/L	0.01	0.27	0.8	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ug/L	4	5900	1.1	ND	0.2	ND	ND	ND	ND	3.6	ND(0.2)	ND(0.2)
Perylene	ug/L	0.01	ns	---	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ug/L	0.01	63	3.2	ND	0.04	0.04	ND	ND	ND	0.06	ND(0.2)	ND
Pyrene	ug/L	0.01	40	3.8	ND	0.02	0.01	0.01	0.01	0.01	0.03	ND(0.2)	ND

Notes:

ug/L - micrograms per litre

PAH - polycyclic aromatic hydrocarbons

ND = Not detected

RDL = Reportable Detection Limit

ND(1) = elevated RDL to concentration in brackets

ns - no standard listed

MOE - Ontario Ministry of Environment

'-' - no guideline available

--- - not analysed

* Elevated PAH RDL(s) due to matrix / co-extractive interference.

**Exceeds MOE Site Condition Standards Table 3: Full Depth Generic Site
Condition Standards in a Non-Potable Ground Water**

TABLE 1 "(continued)"
Groundwater Polycyclic Aromatic Hydrocarbons Analysis
Harbourside Commercial Park
Groundwater Monitoring Program

Monitor Well ID			Standard MOE Table 3	SCU13-006- MWA	SCU13-006- MWA	SCU13-006- MWB	SCU13-006- MWB	SCU13-006- MWB	SCU13-006- MWB	SCU15-002- MWA	SCU15-002- MWA	SCU15-002- MWA	SCU15-002- MWA
Sampling Date	Units	RDL		17-Nov-09	9-Nov-10	2-Jan-07	20-Nov-08	17-Nov-09	9-Nov-10	11-Sep-03	21-Nov-08	19-Nov-09	11-Nov-10
Polyaromatic Hydrocarbons													
1-Methylnaphthalene	ug/L	1	13000	ND	ND	ND(0.05)	ND	ND	ND	5.1	ND	ND	0.05
2-Methylnaphthalene	ug/L	1	13000	ND	0.05	ND(0.05)	ND	ND	ND	5.4	ND	ND	0.06
Acenaphthene	ug/L	0.01	1700	ND	0.01	0.01	ND	ND (1)	ND	0.28	ND	ND	0.05
Acenaphthylene	ug/L	0.01	2000	ND	ND	ND	ND	ND	ND	0.63	ND	ND	ND
Anthracene	ug/L	0.01	12	ND	0.02	ND	ND	ND	ND	10	ND	ND	0.01
Benzo(a)anthracene	ug/L	0.01	5	ND	0.01	ND	ND	ND	ND	16	ND	ND	ND
Benzo(a)pyrene	ug/L	0.01	1.9	ND	0.01	ND	ND	ND	ND	11	ND	ND	ND
Benzo(b)fluoranthene	ug/L	0.01	7	ND	ND	ND	ND	ND	ND	---	ND	ND	ND
Benzo(g,h,i)perylene	ug/L	0.01	0.2	ND	ND	ND	ND	ND	ND	3.6	ND	ND	ND
Benzo(k)fluoranthene	ug/L	0.01	0.4	ND	0.01	ND	ND	ND	ND	---	ND	ND	ND
Chrysene	ug/L	0.01	3	ND	0.01	ND	ND	ND	ND	1.5	ND	ND	ND
Dibenz(a,h)anthracene	ug/L	0.01	0.25	ND	ND	ND	ND	ND	ND	1.5	ND	ND	ND
Fluoranthene	ug/L	0.01	130	ND	0.03	ND	ND	ND	ND	31	ND	ND	0.01
Fluorene	ug/L	0.01	290	ND	0.02	ND	ND	ND	ND	2.4	ND	ND	0.04
Indeno(1,2,3-cd)pyrene	ug/L	0.01	0.27	ND	ND	ND	ND	ND	ND	4.5	ND	ND	ND
Naphthalene	ug/L	4	5900	ND	0.5	ND(0.2)	ND	ND	ND	2.3	ND	ND	0.3
Perylene	ug/L	0.01	ns	ND	ND	ND	ND	ND	ND	2.4	ND	ND	ND
Phenanthrene	ug/L	0.01	63	ND	0.03	ND	ND	ND	ND	26	ND	ND	0.04
Pyrene	ug/L	0.01	40	ND	0.02	ND	ND	ND	ND	26	ND	ND	ND

Notes:

ug/L - micrograms per litre

PAH - polycyclic aromatic hydrocarbons

ND = Not detected

RDL = Reportable Detection Limit

ND(1) = elevated RDL to concentration in brackets

ns - no standard listed

MOE - Ontario Ministry of Environment

'-' - no guideline available

---' - not analysed

* Elevated PAH RDL(s) due to matrix / co-extractive interference.

**Exceeds MOE Site Condition Standards Table 3: Full Depth Generic Site
Condition Standards in a Non-Potable Ground Water**

TABLE 1 "(continued)"
Groundwater Polycyclic Aromatic Hydrocarbons Analysis
Harbourside Commercial Park
Groundwater Monitoring Program

Monitor Well ID			Standard MOE Table 3	SCU15-002- MWB	SCU15-002- MWB	SCU15-002- MWB	SCU15-002- MWB	SCU15-004- MWA	SCU15-004- MWA	SCU15-004- MWB	SCU15-004- MWB	SCU15-013- MW	SCU15-013- MW
Sampling Date	Units	RDL		11-Sep-03	21-Nov-08	19-Nov-09	11-Nov-10	17-Nov-09	9-Nov-10	17-Nov-09	9-Nov-10	5-Jan-07	20-Nov-08
Polyaromatic Hydrocarbons													
1-Methylnaphthalene	ug/L	1	13000	ND(0.03)	ND	ND	0.05	ND	ND	ND	ND	0.06	ND
2-Methylnaphthalene	ug/L	1	13000	ND(0.03)	ND	ND	0.06	ND	ND	ND	ND	0.12	ND
Acenaphthene	ug/L	0.01	1700	ND(0.03)	ND	ND	0.04	ND	0.01	ND	ND	0.11	0.04
Acenaphthylene	ug/L	0.01	2000	ND(0.03)	ND	ND	ND	ND	ND	ND	ND	0.03	0.04
Anthracene	ug/L	0.01	12	10	ND	ND	0.02	ND	ND	ND	ND	0.46	0.13
Benzo(a)anthracene	ug/L	0.01	5	0.018	ND	ND	ND	ND	ND	ND	ND	0.53	0.27
Benzo(a)pyrene	ug/L	0.01	1.9	ND	ND	ND	ND	ND	ND	ND	ND	0.45	0.25
Benzo(b)fluoranthene	ug/L	0.01	7	---	ND	ND	ND	ND	ND	ND	ND	0.35	0.19
Benzo(g,h,i)perylene	ug/L	0.01	0.2	ND(0.03)	ND	ND	ND	ND	ND	ND	ND	0.26	0.12
Benzo(k)fluoranthene	ug/L	0.01	0.4	---	ND	ND	ND	ND	ND	ND	ND	0.38	0.23
Chrysene	ug/L	0.01	3	ND(0.03)	ND	ND	ND	ND	ND	ND	ND	0.48	0.26
Dibenz(a,h)anthracene	ug/L	0.01	0.25	ND	ND	ND	ND	ND	ND	ND	ND	0.08	0.02
Fluoranthene	ug/L	0.01	130	ND(0.03)	ND	ND	ND	ND	ND	ND	ND	1.9	0.65
Fluorene	ug/L	0.01	290	ND(0.03)	ND	ND	0.03	ND	ND	ND	ND	0.26	0.05
Indeno(1,2,3-cd)pyrene	ug/L	0.01	0.27	ND(0.03)	ND	ND	ND	ND	ND	ND	ND	0.3	0.15
Naphthalene	ug/L	4	5900	ND(0.03)	ND	ND	0.3	ND	ND	ND	ND	0.3	ND
Perylene	ug/L	0.01	ns	ND(0.03)	ND	ND	ND	ND	ND	ND	ND	0.14	0.08
Phenanthrene	ug/L	0.01	63	0.05	ND	ND	0.05	ND	ND	ND	ND	2.1	0.45
Pyrene	ug/L	0.01	40	0.027	ND	ND	ND	ND	ND	ND	ND	0.99	0.52

Notes:

ug/L - micrograms per litre

PAH - polycyclic aromatic hydrocarbons

ND = Not detected

RDL = Reportable Detection Limit

ND(1) = elevated RDL to concentration in brackets

ns - no standard listed

MOE - Ontario Ministry of Environment

'-' - no guideline available

--- - not analysed

* Elevated PAH RDL(s) due to matrix / co-extractive interference.

**Exceeds MOE Site Condition Standards Table 3: Full Depth Generic Site
Condition Standards in a Non-Potable Ground Water**

TABLE 1 "(continued)"
Groundwater Polycyclic Aromatic Hydrocarbons Analysis
Harbourside Commercial Park
Groundwater Monitoring Program

Monitor Well ID			Standard MOE Table 3	SCU15-013- MW	SCU15-013- MW	SCU15-018- MW	SCU15-018- MW	SCU15-018- MW	SCU15-018- MW	SCU15-018- MW	SCU16-001- MW	SCU16-001- MW	SCU16-004- MW	SCU16-004- MW
Sampling Date	Units	RDL		27-Nov-09	11-Nov-10	8-Jan-07	20-Nov-08	4-Dec-09	9-Nov-10	23-Nov-09	15-Nov-10	20-Nov-09	11-Nov-10	
Polyaromatic Hydrocarbons														
1-Methylnaphthalene	ug/L	1	13000	ND	ND	93	140	180	83 *	ND	ND	ND	ND	0.08
2-Methylnaphthalene	ug/L	1	13000	ND	ND	150	210	240	100 *	ND	0.05	ND	ND	0.10
Acenaphthene	ug/L	0.01	1700	0.04	0.01	25	36	44	28	ND	ND	ND	ND	0.07
Acenaphthylene	ug/L	0.01	2000	0.03	ND	3.4	1	1.6	1.1	ND	0.03	ND	ND	ND
Anthracene	ug/L	0.01	12	0.12	0.03	10	5.1	5.9	3.9	0.02	0.02	0.09	0.03	0.03
Benzo(a)anthracene	ug/L	0.01	5	0.20	0.03	4.9	1.1	0.28	0.42	0.01	ND	0.02	ND	ND
Benzo(a)pyrene	ug/L	0.01	1.9	0.21	0.05	1	0.51	0.09	0.22	ND	ND	0.02	ND	ND
Benzo(b)fluoranthene	ug/L	0.01	7	0.17	0.02	0.9	0.32	0.04	0.13	ND	ND	0.02	ND	ND
Benzo(g,h,i)perylene	ug/L	0.01	0.2	0.13	0.03	0.3	0.08	0.01	0.05	ND	ND	0.01	ND	ND
Benzo(k)fluoranthene	ug/L	0.01	0.4	0.17	0.02	0.87	0.47	0.08	0.13	ND	ND	0.02	ND	ND
Chrysene	ug/L	0.01	3	0.23	0.03	4.1	0.91	0.21	0.36	ND	ND	0.02	ND	ND
Dibenz(a,h)anthracene	ug/L	0.01	0.25	0.03	ND	0.16	0.02	ND	0.02	ND	ND	ND	ND	ND
Fluoranthene	ug/L	0.01	130	0.53	0.09	11	4.2	2.3	2.6	0.02	0.01	0.03	0.02	0.02
Fluorene	ug/L	0.01	290	0.05	0.01	15	20	17	14	ND	0.05	ND	ND	0.05
Indeno(1,2,3-cd)pyrene	ug/L	0.01	0.27	0.15	0.02	0.36	0.1	0.02	0.05	ND	ND	0.01	ND	ND
Naphthalene	ug/L	4	5900	ND	ND	2900	3500	4700	2300 *	ND	ND	ND	ND	0.5
Perylene	ug/L	0.01	ns	0.05	0.01	0.17	0.08	0.02	0.03	ND	ND	ND	ND	ND
Phenanthrene	ug/L	0.01	63	0.44	0.07	26	21	16	18	0.01	0.05	0.02	0.08	0.08
Pyrene	ug/L	0.01	40	0.48	0.07	8.6	2.6	1.4	1.6	0.01	0.01	0.03	0.02	0.02

Notes:

ug/L - micrograms per litre

PAH - polycyclic aromatic hydrocarbons

ND = Not detected

RDL = Reportable Detection Limit

ND(1) = elevated RDL to concentration in brackets

ns - no standard listed

MOE - Ontario Ministry of Environment

'-' - no guideline available

---' - not analysed

* Elevated PAH RDL(s) due to matrix / co-extractive interference.

**Exceeds MOE Site Condition Standards Table 3: Full Depth Generic Site
Condition Standards in a Non-Potable Ground Water**

TABLE 1 "(continued)"
Groundwater Polycyclic Aromatic Hydrocarbons Analysis
Harbourside Commercial Park
Groundwater Monitoring Program

Monitor Well ID			Standard MOE Table 3	SCU16-006- MW	SCU16-006- MW	SCU16-011- MWA	SCU16-011- MWA	SCU16-011- MWB	SCU16-011- MWB	SCU16-011- MWC	SCU16-011- MWC	SCU16-011- MWC	SCU16-013- MW
Sampling Date	Units	RDL		23-Nov-09	11-Nov-10	23-Nov-09	12-Nov-10	23-Nov-09	12-Nov-10	23-Nov-09	12-Nov-10	FD 2 12-Nov-10	23-Nov-09
Polyaromatic Hydrocarbons													
1-Methylnaphthalene	ug/L	1	13000	ND	ND	ND	ND	0.56	0.52	0.33	0.19	0.19	ND
2-Methylnaphthalene	ug/L	1	13000	ND	ND	ND	ND	0.49	0.47	0.27	0.15	0.14	ND
Acenaphthene	ug/L	0.01	1700	ND	ND	ND	0.02	0.14	0.14	0.09	0.06	0.06	ND
Acenaphthylene	ug/L	0.01	2000	ND	ND	ND	ND	0.04	0.04	0.02	0.02	0.01	ND
Anthracene	ug/L	0.01	12	ND	ND	0.02	ND	0.07	0.06	0.04	0.03	0.02	0.02
Benzo(a)anthracene	ug/L	0.01	5	ND	ND	ND	ND	0.02	ND	ND	ND	ND	ND
Benzo(a)pyrene	ug/L	0.01	1.9	ND	ND	ND	ND	0.01	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ug/L	0.01	7	ND	ND	ND	ND	0.01	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ug/L	0.01	0.2	ND	ND	ND	ND	0.03	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ug/L	0.01	0.4	ND	ND	ND	ND	0.01	ND	ND	ND	ND	ND
Chrysene	ug/L	0.01	3	ND	ND	ND	ND	0.01	ND	ND	ND	ND	0.01
Dibenz(a,h)anthracene	ug/L	0.01	0.25	ND	ND	ND	ND	0.06	ND	ND	ND	ND	ND
Fluoranthene	ug/L	0.01	130	ND	ND	0.02	0.02	0.29	0.23	0.17	0.09	0.09	0.06
Fluorene	ug/L	0.01	290	ND	ND	ND	0.01	0.11	0.14	0.07	0.05	0.05	ND
Indeno(1,2,3-cd)pyrene	ug/L	0.01	0.27	ND	ND	ND	ND	0.03	ND	ND	ND	ND	ND
Naphthalene	ug/L	4	5900	ND	ND	ND	ND	0.6	0.6	0.4	ND	ND	ND
Perylene	ug/L	0.01	ns	ND	ND	ND	ND	0.01	ND	ND	ND	ND	ND
Phenanthrene	ug/L	0.01	63	ND	ND	ND	0.02	0.38	0.30	0.22	0.12	0.14	0.04
Pyrene	ug/L	0.01	40	ND	ND	0.02	0.02	0.21	0.16	0.13	0.06	0.06	0.04

Notes:

- ug/L - micrograms per litre
- PAH - polycyclic aromatic hydrocarbons
- ND = Not detected
- RDL = Reportable Detection Limit
- ND(1) = elevated RDL to concentration in brackets
- ns - no standard listed
- MOE - Ontario Ministry of Environment
- '-' - no guideline available
- ' - not analysed
- * Elevated PAH RDL(s) due to matrix / co-extractive interference.

Exceeds MOE Site Condition Standards Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water

TABLE 1 "(continued)"
Groundwater Polycyclic Aromatic Hydrocarbons Analysis
Harbourside Commercial Park
Groundwater Monitoring Program

Monitor Well ID			Standard MOE Table 3	SCU16-013- MW	SCU16-014- MW	SCU16-014- MW	SCU17-002- MW	SCU17-002- MW	SCU17-002- MW	SCU-17-004- MW	SCU17-004- MW	SCU17-010- MWA	SCU17-010- MWA
Sampling Date	Units	RDL		12-Nov-10	23-Nov-09	15-Nov-10	1-Dec-09	15-Nov-10	FD 4	30-Nov-09	15-Nov-10	20-Nov-09	20-Nov-09
								15-Nov-10					
Polyaromatic Hydrocarbons													
1-Methylnaphthalene	ug/L	1	13000	ND	ND	ND	16	13	16	12	8.2	ND	ND
2-Methylnaphthalene	ug/L	1	13000	ND	ND	ND	24	18 *	21*	19	14	ND	ND
Acenaphthene	ug/L	0.01	1700	0.03	ND	ND	1.8	1.6	1.9	1.5	1.2	ND	ND
Acenaphthylene	ug/L	0.01	2000	ND	ND	ND	15	11	14	12	8.4	0.02	0.01
Anthracene	ug/L	0.01	12	ND	ND	ND	2.1	1.6	1.9	2.4	1.7	0.04	0.03
Benzo(a)anthracene	ug/L	0.01	5	ND	0.01	ND	0.30	0.09	0.10	0.15	0.11	0.04	0.02
Benzo(a)pyrene	ug/L	0.01	1.9	ND	0.01 *	ND	0.11	0.01	0.01	0.01	0.01	0.03	0.02
Benzo(b)fluoranthene	ug/L	0.01	7	ND	ND	ND	0.09	ND	0.01	0.02	0.01	0.02	0.01
Benzo(g,h,i)perylene	ug/L	0.01	0.2	ND	ND	ND	0.03	ND	ND	ND	ND	0.02	0.01
Benzo(k)fluoranthene	ug/L	0.01	0.4	ND	ND	ND	0.12	0.01	0.01	0.03	0.01	0.02	0.01
Chrysene	ug/L	0.01	3	ND	0.01	ND	0.21	0.07	0.08	0.09	0.07	0.03	0.02
Dibenz(a,h)anthracene	ug/L	0.01	0.25	ND	ND	ND	0.01	ND	ND	ND	ND	0.01	ND
Fluoranthene	ug/L	0.01	130	0.04	0.03	0.01	1.7	1.4	1.8	2.2	2.3	0.10	0.06
Fluorene	ug/L	0.01	290	0.02	ND	ND	8.6	8.3	10	8.6	7.4	0.04	0.03
Indeno(1,2,3-cd)pyrene	ug/L	0.01	0.27	ND	ND	ND	0.03	ND	ND	ND	ND	0.02	0.01
Naphthalene	ug/L	4	5900	ND	ND	ND	130	97 *	110 *	59	43 *	ND	ND
Perylene	ug/L	0.01	ns	ND	ND	ND	0.03	ND	ND	ND	ND	ND	ND
Phenanthrene	ug/L	0.01	63	0.05	0.02	0.01	9.2	9.5	11	11	9.6	0.14	0.10
Pyrene	ug/L	0.01	40	0.03	0.03	0.01	1.1	0.89	1.1	1.5	1.5	0.07	0.05

Notes:

- ug/L - micrograms per litre
- PAH - polycyclic aromatic hydrocarbons
- ND = Not detected
- RDL = Reportable Detection Limit
- ND(1) = elevated RDL to concentration in brackets
- ns - no standard listed
- MOE - Ontario Ministry of Environment
- '-' - no guideline available
- ' - not analysed
- * Elevated PAH RDL(s) due to matrix / co-extractive interference.

Exceeds MOE Site Condition Standards Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water

TABLE 1 "(continued)"
Groundwater Polycyclic Aromatic Hydrocarbons Analysis
Harbourside Commercial Park
Groundwater Monitoring Program

Monitor Well ID			Standard MOE Table 3	SCU17-010- MWA	SCU17-010- MWB	SCU17-010- MWB	SCU17-010- MWC	SCU17-010- MWC	SCU17-010- MWC	SCU17-012- MW	SCU17-014- MW	SCU17-014- MW	SCU18-001- MWA
Sampling Date	Units	RDL		15-Nov-10	23-Nov-09	15-Nov-10	23-Nov-09	15-Nov-10	FD 3	19-Nov-10	24-Nov-09	15-Nov-10	9-Sep-10
								15-Nov-10					
Polyaromatic Hydrocarbons													
1-Methylnaphthalene	ug/L	1	13000	ND	ND	ND	ND	ND	ND	ND	0.09	0.10	ND
2-Methylnaphthalene	ug/L	1	13000	ND	0.07	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	ug/L	0.01	1700	0.01	0.04	ND	ND	ND	ND	ND	ND	0.03	ND
Acenaphthylene	ug/L	0.01	2000	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	ug/L	0.01	12	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ug/L	0.01	5	ND	0.01	ND	ND	ND	ND	ND	ND	ND	0.01
Benzo(a)pyrene	ug/L	0.01	1.9	ND	0.01	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ug/L	0.01	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ug/L	0.01	0.2	ND	0.05	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ug/L	0.01	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	ug/L	0.01	3	ND	0.01	ND	ND	ND	ND	ND	ND	ND	ND
Dibenz(a,h)anthracene	ug/L	0.01	0.25	ND	0.08	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ug/L	0.01	130	0.04	0.01	ND	ND	ND	ND	ND	0.01	ND	ND
Fluorene	ug/L	0.01	290	0.04	0.03	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	ug/L	0.01	0.27	ND	0.04	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ug/L	4	5900	0.2	0.3	ND	ND	ND	ND	ND	0.4	0.4	ND
Perylene	ug/L	0.01	ns	ND	0.01	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ug/L	0.01	63	0.09	0.04	ND	ND	0.01	ND	0.03	0.04	0.03	ND
Pyrene	ug/L	0.01	40	0.03	ND	ND	ND	ND	ND	ND	0.01	ND	ND

Notes:

ug/L - micrograms per litre

PAH - polycyclic aromatic hydrocarbons

ND = Not detected

RDL = Reportable Detection Limit

ND(1) = elevated RDL to concentration in brackets

ns - no standard listed

MOE - Ontario Ministry of Environment

'-' - no guideline available

---' - not analysed

* Elevated PAH RDL(s) due to matrix / co-extractive interference.

**Exceeds MOE Site Condition Standards Table 3: Full Depth Generic Site
Condition Standards in a Non-Potable Ground Water**

TABLE 1 "(continued)"
Groundwater Polycyclic Aromatic Hydrocarbons Analysis
Harbourside Commercial Park
Groundwater Monitoring Program

Monitor Well ID			Standard MOE Table 3	SCU18-001- MW	SCU18-002- MWA	SCU18-002- MW	SCU18-005- MWA	SCU18-005- MWA-DUP	SCU18-007- MW	SCU18-007- MW	SCU18-009- MW	SCU18-009- MW	SCU18-009- MW
Sampling Date	Units	RDL		12-Nov-10	9-Sep-10	12-Nov-10	9-Sep-10	9-Sep-10	24-Nov-09	19-Nov-10	4-Dec-09	DUP E 4-Dec-09	19-Nov-10
Polyaromatic Hydrocarbons													
1-Methylnaphthalene	ug/L	1	13000	ND	ND	ND	ND	ND	ND	ND	0.43	0.37	0.32
2-Methylnaphthalene	ug/L	1	13000	ND	ND	ND	ND	ND	ND	ND	0.44	0.37	0.21
Acenaphthene	ug/L	0.01	1700	ND	ND	ND	ND	0.02	ND	ND	0.69	0.61	0.70
Acenaphthylene	ug/L	0.01	2000	ND	ND	ND	0.02	0.02	ND	ND	0.24	0.21	0.16
Anthracene	ug/L	0.01	12	ND	ND	ND	0.02	ND	ND	ND	0.29	0.27	0.16
Benzo(a)anthracene	ug/L	0.01	5	ND	ND	ND	0.06	0.06	ND	ND	0.02	0.02	ND
Benzo(a)pyrene	ug/L	0.01	1.9	ND	ND	ND	0.06	0.07	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ug/L	0.01	7	ND	ND	ND	0.08	0.1	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ug/L	0.01	0.2	ND	ND	ND	0.04	0.05	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ug/L	0.01	0.4	ND	ND	ND	0.06	0.08	ND	ND	ND	ND	ND
Chrysene	ug/L	0.01	3	ND	ND	ND	0.06	0.07	ND	ND	0.02	0.01	0.02
Dibenz(a,h)anthracene	ug/L	0.01	0.25	ND	ND	ND	0.02	0.01	ND	ND	ND	ND	ND
Fluoranthene	ug/L	0.01	130	ND	ND	ND	0.07	0.08	ND	ND	0.40	0.35	0.24
Fluorene	ug/L	0.01	290	ND	0.01	ND	0.02	0.02	ND	ND	0.74	0.64	0.69
Indeno(1,2,3-cd)pyrene	ug/L	0.01	0.27	ND	ND	ND	0.04	0.05	ND	ND	ND	ND	ND
Naphthalene	ug/L	4	5900	ND	ND	ND	ND	ND	ND	ND	1.0	0.8	0.8
Perylene	ug/L	0.01	ns	ND	ND	ND	0.02	0.02	ND	ND	ND	ND	ND
Phenanthrene	ug/L	0.01	63	0.01	0.02	ND	0.05	0.05	ND	0.01	1.4	1.2	1.1
Pyrene	ug/L	0.01	40	ND	ND	ND	0.08	0.08	ND	ND	0.26	0.23	0.16

Notes:

- ug/L - micrograms per litre
- PAH - polycyclic aromatic hydrocarbons
- ND = Not detected
- RDL = Reportable Detection Limit
- ND(1) = elevated RDL to concentration in brackets
- ns - no standard listed
- MOE - Ontario Ministry of Environment
- '-' - no guideline available
- ' - not analysed
- * Elevated PAH RDL(s) due to matrix / co-extractive interference.

Exceeds MOE Site Condition Standards Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water

TABLE 1 "(continued)"
Groundwater Polycyclic Aromatic Hydrocarbons Analysis
Harbourside Commercial Park
Groundwater Monitoring Program

Monitor Well ID			Standard MOE Table 3	SCU18-009- MW	SCU18-010- MW	SCU18-010- MW	SCU18-011- MW	SCU18-011- MW	SCU18-011- MW	SCU19-002- MWA	SCU19-002- MWB	SCU19-015- MW	SCU19-016- MW
Sampling Date	Units	RDL		FD 7	7-Sep-10	17-Nov-10	7-Sep-10	17-Nov-10	FD 5	18-Nov-10	18-Nov-10	18-Nov-10	18-Nov-10
				19-Nov-10	17-Nov-10								
Polyaromatic Hydrocarbons													
1-Methylnaphthalene	ug/L	1	13000	0.32	6.1	1.3	ND (0.05)	0.05	0.06	2.5	ND	ND	0.08
2-Methylnaphthalene	ug/L	1	13000	0.21	7.1	0.23	ND (0.05)	0.06	0.07	2.5	ND	0.05	0.08
Acenaphthene	ug/L	0.01	1700	0.75	1.6	0.60	0.02	0.02	0.03	0.85	ND	0.01	0.08
Acenaphthylene	ug/L	0.01	2000	0.16	1.9	0.48	0.01	0.03	0.04	0.65	ND	0.03	0.02
Anthracene	ug/L	0.01	12	0.18	0.92	0.35	ND	0.01	0.01	0.27	ND	0.01	0.02
Benzo(a)anthracene	ug/L	0.01	5	ND	0.12	0.06	0.01	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ug/L	0.01	1.9	ND	0.02	0.03	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ug/L	0.01	7	ND	0.04	0.02	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ug/L	0.01	0.2	ND	0.01	0.01	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ug/L	0.01	0.4	ND	0.01	0.02	ND	ND	ND	ND	ND	ND	ND
Chrysene	ug/L	0.01	3	0.01	0.12	0.08	0.01	ND	ND	ND	ND	ND	0.01
Dibenz(a,h)anthracene	ug/L	0.01	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ug/L	0.01	130	0.24	1.8	0.64	0.03	0.02	0.03	0.15	ND	0.01	0.17
Fluorene	ug/L	0.01	290	0.67	3.4	1.2	0.02	0.04	0.04	1.5	ND	0.03	0.08
Indeno(1,2,3-cd)pyrene	ug/L	0.01	0.27	ND	ND	0.01	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ug/L	4	5900	0.8	45	ND	ND (0.2)	0.3	0.3	14	ND	0.3	0.3
Perylene	ug/L	0.01	ns	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ug/L	0.01	63	0.97	2.4	0.93	0.03	0.05	0.05	1.4	0.02	0.04	0.22
Pyrene	ug/L	0.01	40	0.16	1.2	0.55	0.03	0.02	0.02	0.09	ND	0.01	0.09

Notes:

- ug/L - micrograms per litre
- PAH - polycyclic aromatic hydrocarbons
- ND = Not detected
- RDL = Reportable Detection Limit
- ND(1) = elevated RDL to concentration in brackets
- ns - no standard listed
- MOE - Ontario Ministry of Environment
- '-' - no guideline available
- ' - not analysed
- * Elevated PAH RDL(s) due to matrix / co-extractive interference.

Exceeds MOE Site Condition Standards Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water

TABLE 1 "(continued)"
Groundwater Polycyclic Aromatic Hydrocarbons Analysis
Harbourside Commercial Park
Groundwater Monitoring Program

Monitor Well ID			Standard MOE Table 3	SCU20-013- MW	SCU20-013- MW	SCU20-014- MW	SCU20-014- MW	SCU20-015- MW	SCU20-015- MW	SCU20-016- MW	SCU20-016- MW	SCU20-017- MW	SCU20-017- MW
Sampling Date	Units	RDL		3-Sep-10	17-Nov-10	3-Sep-10	17-Nov-10	3-Sep-10	17-Nov-10	7-Sep-10	17-Nov-10	7-Sep-10	17-Nov-10
Polyaromatic Hydrocarbons													
1-Methylnaphthalene	ug/L	1	13000	28	39	5.9	4.4	8.3	2.9	12	3.5	11	9.2
2-Methylnaphthalene	ug/L	1	13000	40	59	9.2	6.3	11	3.8	15	3.8	12	9.8
Acenaphthene	ug/L	0.01	1700	5.1	6.9	1.1	0.93	1.5	0.91	4.9	1.9	2.9	2.6
Acenaphthylene	ug/L	0.01	2000	18	26	2.8	3.4	4.1	1.3	0.48	1.2	7.7	6.4
Anthracene	ug/L	0.01	12	1.8	2.7	0.72	0.85	1.2	1.1	0.55	0.27	0.91	0.88
Benzo(a)anthracene	ug/L	0.01	5	0.11	0.18	0.16	0.13	0.05	0.18	0.03	0.01	0.11	0.19
Benzo(a)pyrene	ug/L	0.01	1.9	0.04	0.11	0.10	0.10	0.01	0.14	0.01	ND	0.04	0.15
Benzo(b)fluoranthene	ug/L	0.01	7	0.04	0.07	0.07	0.06	ND	0.08	0.01	ND	0.03	0.10
Benzo(g,h,i)perylene	ug/L	0.01	0.2	0.01	0.03	0.05	0.05	ND	0.05	ND	ND	0.02	0.07
Benzo(k)fluoranthene	ug/L	0.01	0.4	0.02	0.05	0.05	0.05	ND	0.06	ND	ND	0.02	0.07
Chrysene	ug/L	0.01	3	0.12	0.19	0.17	0.14	0.06	0.20	0.04	0.02	0.12	0.19
Dibenz(a,h)anthracene	ug/L	0.01	0.25	ND	0.02	0.02	0.01	ND	0.02	ND	ND	ND	0.02
Fluoranthene	ug/L	0.01	130	0.92	1.6	0.79	0.80	0.65	1.0	0.42	0.27	1.4	1.4
Fluorene	ug/L	0.01	290	11	14	3.3	2.6	3.8	2.5	3.9	1.8	5.4	4.9
Indeno(1,2,3-cd)pyrene	ug/L	0.01	0.27	0.01	0.03	0.05	0.04	ND	0.05	ND	ND	0.02	0.07
Naphthalene	ug/L	4	5900	460	670	44	25	29	13	190	39	91	52
Perylene	ug/L	0.01	ns	0.01	0.02	0.03	0.02	ND	0.03	ND	ND	0.01	0.04
Phenanthrene	ug/L	0.01	63	8.0	12	3.3	2.9	4.0	4.4	4.3	1.2	5.8	5.2
Pyrene	ug/L	0.01	40	0.57	0.98	0.58	0.56	0.42	0.69	0.28	0.22	0.87	0.87

Notes:

ug/L - micrograms per litre

PAH - polycyclic aromatic hydrocarbons

ND = Not detected

RDL = Reportable Detection Limit

ND(1) = elevated RDL to concentration in brackets

ns - no standard listed

MOE - Ontario Ministry of Environment

'-' - no guideline available

---' - not analysed

* Elevated PAH RDL(s) due to matrix / co-extractive interference.

**Exceeds MOE Site Condition Standards Table 3: Full Depth Generic Site
Condition Standards in a Non-Potable Ground Water**

TABLE 1 "(continued)"
Groundwater Polycyclic Aromatic Hydrocarbons Analysis
Harbourside Commercial Park
Groundwater Monitoring Program

Monitor Well ID			Standard MOE Table 3	SCU20-018- MW	SCU20-018- MW	SCU24-001- MW	SCU24-003- MW	SCU24-003- MW	SCU24-007- MWB	SCU24-007- MWB	SCU24-007- MWB	SCU24-007- MWB	
Sampling Date	Units	RDL		7-Sep-10	17-Nov-10	25-Nov-08	25-Nov-08	27-Nov-09	27-Nov-09	DUP D 27-Nov-09	18-Nov-10	FD 6 18-Nov-10	25-Nov-08
Polyaromatic Hydrocarbons													
1-Methylnaphthalene	ug/L	1	13000	0.11	ND	ND	0.34	0.24	ND	ND	ND	ND	7.9
2-Methylnaphthalene	ug/L	1	13000	0.09	ND	ND	0.37	0.28	ND	ND	ND	ND	5.6
Acenaphthene	ug/L	0.01	1700	0.08	0.03	ND	0.24	0.23	ND	ND	ND	0.01	2.7
Acenaphthylene	ug/L	0.01	2000	0.07	0.02	ND	0.18	0.18	ND	ND	ND	ND	4.1
Anthracene	ug/L	0.01	12	0.10	0.02	ND	0.30	0.33	ND	ND	ND	ND	0.79
Benzo(a)anthracene	ug/L	0.01	5	0.09	ND	ND	0.06	0.47	ND	ND	ND	ND	0.08
Benzo(a)pyrene	ug/L	0.01	1.9	0.07	ND	ND	0.01	0.26	ND	ND	ND	ND	0.02
Benzo(b)fluoranthene	ug/L	0.01	7	0.06	ND	ND	0.02	0.28	ND	ND	ND	ND	0.02
Benzo(g,h,i)perylene	ug/L	0.01	0.2	0.04	ND	ND	ND	0.14	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ug/L	0.01	0.4	0.04	ND	ND	0.02	0.28	ND	ND	ND	ND	0.03
Chrysene	ug/L	0.01	3	0.09	ND	ND	0.05	0.54	ND	ND	ND	ND	0.06
Dibenz(a,h)anthracene	ug/L	0.01	0.25	0.02	ND	ND	ND	0.04	ND	ND	ND	ND	ND
Fluoranthene	ug/L	0.01	130	0.21	0.02	ND	0.59	1.7	ND	ND	0.01	0.01	0.83
Fluorene	ug/L	0.01	290	0.10	0.03	ND	0.38	0.39	ND	ND	0.01	0.01	5.0
Indeno(1,2,3-cd)pyrene	ug/L	0.01	0.27	0.03	ND	ND	ND	0.16	ND	ND	ND	ND	0.01
Naphthalene	ug/L	4	5900	0.5	ND	ND	1.6	1.0	ND	ND	ND	ND	56
Perylene	ug/L	0.01	ns	0.02	ND	ND	ND	0.06	ND	ND	ND	ND	ND
Phenanthrene	ug/L	0.01	63	0.27	0.04	ND	1.8	2.0	ND	ND	0.02	0.03	4.8
Pyrene	ug/L	0.01	40	0.19	0.02	ND	0.46	1.2	ND	ND	ND	ND	0.70

Notes:

- ug/L - micrograms per litre
- PAH - polycyclic aromatic hydrocarbons
- ND = Not detected
- RDL = Reportable Detection Limit
- ND(1) = elevated RDL to concentration in brackets
- ns - no standard listed
- MOE - Ontario Ministry of Environment
- '-' - no guideline available
- ' - not analysed
- * Elevated PAH RDL(s) due to matrix / co-extractive interference.

Exceeds MOE Site Condition Standards Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water

TABLE 1 "(continued)"
Groundwater Polycyclic Aromatic Hydrocarbons Analysis
Harbourside Commercial Park
Groundwater Monitoring Program

Monitor Well ID			Standard MOE Table 3	SCU24-010- MW	SCU24-012- MW	SCU24-013- MW	SCU25-001- MW	SCU25-001- MW	SCU25-002- MWA	SCU25-002- MWA	SCU25-002- MWA	SCU25-002- MWA	SCU25-003- MW
Sampling Date	Units	RDL		25-Nov-08	25-Nov-09	18-Nov-10	18-Nov-09	17-Nov-10	26-Jul-07	26-Nov-08	18-Nov-09	17-Nov-10	25-Jul-07
Polyaromatic Hydrocarbons													
1-Methylnaphthalene	ug/L	1	13000	0.17	ND	ND	0.27	0.31	ND	0.38	0.20	0.89	85
2-Methylnaphthalene	ug/L	1	13000	0.17	ND	ND	0.20	0.28	ND	0.58	0.27	1.5	170
Acenaphthene	ug/L	0.01	1700	0.07	0.08	0.09	0.11	0.10	ND	0.30	0.14	0.66	5.1
Acenaphthylene	ug/L	0.01	2000	0.11	0.03	ND	0.25	0.22	ND	0.16	0.08	0.32	23
Anthracene	ug/L	0.01	12	0.14	ND	0.08	0.19	0.15	0.3	0.54	0.29	0.46	14
Benzo(a)anthracene	ug/L	0.01	5	0.02	ND	0.03	0.02	0.02	0.1	0.07	0.04	0.05	7.8
Benzo(a)pyrene	ug/L	0.01	1.9	ND	ND	0.01	ND	ND	0.01	0.01	ND	0.01	5.4
Benzo(b)fluoranthene	ug/L	0.01	7	ND	ND	ND	ND	ND	0.02	0.02	ND	0.01	4.4
Benzo(g,h,i)perylene	ug/L	0.01	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	2
Benzo(k)fluoranthene	ug/L	0.01	0.4	ND	ND	ND	ND	ND	0.02	0.02	ND	ND	4.9
Chrysene	ug/L	0.01	3	0.01	0.01	0.03	0.02	0.02	0.07	0.06	0.05	0.07	6.7
Dibenz(a,h)anthracene	ug/L	0.01	0.25	ND	0.01	ND	ND	ND	ND	ND	ND	ND	0.8
Fluoranthene	ug/L	0.01	130	0.63	0.04	0.23	0.50	0.56	0.76	0.75	0.71	0.82	25
Fluorene	ug/L	0.01	290	0.19	ND	0.13	0.30	0.35	0.05	0.59	0.31	0.95	28
Indeno(1,2,3-cd)pyrene	ug/L	0.01	0.27	<0.01	ND	ND	ND	ND	ND	ND	ND	ND	2.6
Naphthalene	ug/L	4	5900	0.7	ND	ND	1.4	1.7	ND	3.0	1.7	9.1	1500
Perylene	ug/L	0.01	ns	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.6
Phenanthrene	ug/L	0.01	63	0.42	ND	0.26	0.56	0.80	0.96	2.4	1.1	1.7	64
Pyrene	ug/L	0.01	40	0.40	0.03	0.15	0.27	0.30	0.52	0.52	0.44	0.50	12

Notes:

- ug/L - micrograms per litre
- PAH - polycyclic aromatic hydrocarbons
- ND = Not detected
- RDL = Reportable Detection Limit
- ND(1) = elevated RDL to concentration in brackets
- ns - no standard listed
- MOE - Ontario Ministry of Environment
- '-' - no guideline available
- ' - not analysed
- * Elevated PAH RDL(s) due to matrix / co-extractive interference.

Exceeds MOE Site Condition Standards Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water

TABLE 1 "(continued)"
Groundwater Polycyclic Aromatic Hydrocarbons Analysis
Harbourside Commercial Park
Groundwater Monitoring Program

Monitor Well ID			Standard MOE Table 3	SCU25-003- MW	SCU25-003- MW	SCU25-003- MW	SCU25-004- MW	SCU25-004- MW	SCU25-004- MW	SCU25-004- MW	SCU25-005- MWB	SCU25-005- MWB	SCU25-005- MWB
Sampling Date	Units	RDL		26-Nov-08	25-Nov-09	16-Nov-10	23-Jul-07	26-Nov-08	25-Nov-09	16-Nov-10	25-Jul-07	26-Nov-08	25-Nov-09
Polyaromatic Hydrocarbons													
1-Methylnaphthalene	ug/L	1	13000	1.0	2.1	0.69	0.58	0.30	0.91	0.54	ND	ND	ND
2-Methylnaphthalene	ug/L	1	13000	2.5	2.4	1.0	0.8	0.13	0.68	0.46	ND	ND	ND
Acenaphthene	ug/L	0.01	1700	0.11	0.19	0.11	0.12	0.08	0.14	0.14	ND	ND	ND
Acenaphthylene	ug/L	0.01	2000	0.36	0.56	0.26	0.17	0.08	0.25	0.12	ND	ND	ND
Anthracene	ug/L	0.01	12	0.38	0.54	0.26	ND	0.18	0.18	0.19	ND	ND	ND
Benzo(a)anthracene	ug/L	0.01	5	0.10	0.10	0.06	0.07	0.09	0.08	0.07	ND	ND	ND
Benzo(a)pyrene	ug/L	0.01	1.9	0.02	ND (0.02)	0.02	0.01	ND	0.01	ND	ND	ND	ND
Benzo(b)fluoranthene	ug/L	0.01	7	0.02	0.02	0.01	0.01	0.01	0.01	0.01	ND	ND	ND
Benzo(g,h,i)perylene	ug/L	0.01	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ug/L	0.01	0.4	0.02	0.02	0.01	0.01	0.02	0.01	ND	ND	ND	ND
Chrysene	ug/L	0.01	3	0.08	0.10	0.05	0.05	0.07	0.09	0.07	ND	ND	ND
Dibenz(a,h)anthracene	ug/L	0.01	0.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ug/L	0.01	130	0.51	0.99	0.54	0.71	0.62	0.85	0.73	0.02	ND	ND
Fluorene	ug/L	0.01	290	0.56	1.0	0.66	0.48	0.35	0.47	0.50	0.01	ND	ND
Indeno(1,2,3-cd)pyrene	ug/L	0.01	0.27	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ug/L	4	5900	7.5	6.3	5.4	5.8	0.5	3.0	4.0	ND	ND	ND
Perylene	ug/L	0.01	ns	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ug/L	0.01	63	1.6	2.0	0.99	1.5	0.52	0.65	0.59	0.03	ND	ND
Pyrene	ug/L	0.01	40	0.36	0.62	0.31	0.47	0.41	0.51	0.42	0.02	ND	ND

Notes:

ug/L - micrograms per litre

PAH - polycyclic aromatic hydrocarbons

ND = Not detected

RDL = Reportable Detection Limit

ND(1) = elevated RDL to concentration in brackets

ns - no standard listed

MOE - Ontario Ministry of Environment

'-' - no guideline available

---' - not analysed

* Elevated PAH RDL(s) due to matrix / co-extractive interference.

**Exceeds MOE Site Condition Standards Table 3: Full Depth Generic Site
Condition Standards in a Non-Potable Ground Water**

TABLE 1 "(continued)"
Groundwater Polycyclic Aromatic Hydrocarbons Analysis
Harbourside Commercial Park
Groundwater Monitoring Program

Monitor Well ID			Standard MOE Table 3	SCU25-005- MWB	SCU25-005- MWC	SCU25-005- MWC	SCU25-005- MWC	SCU25-005- MWC	SCU25-007- MW	SCU25-007- MW	SCU26-007- MW	SCU26-009- MW	SCU31-002- MWB
Sampling Date	Units	RDL		16-Nov-10	25-Jul-07	26-Nov-08	25-Nov-09	16-Nov-10	25-Nov-09	16-Nov-10	4-Dec-09	26-Nov-08	16-Nov-10
Polyaromatic Hydrocarbons													
1-Methylnaphthalene	ug/L	1	13000	ND	ND	ND	ND	ND	0.07	0.09	0.85	ND	ND
2-Methylnaphthalene	ug/L	1	13000	ND	ND	ND	ND	ND	ND	0.08	0.89	ND	ND
Acenaphthene	ug/L	0.01	1700	ND	ND	ND	ND	0.01	0.05	0.05	0.30	ND	ND
Acenaphthylene	ug/L	0.01	2000	ND	ND	ND	ND	0.01	0.05	0.05	0.69	0.01	ND
Anthracene	ug/L	0.01	12	ND	ND	ND	ND	ND	0.05	0.04	1.2	0.07	ND
Benzo(a)anthracene	ug/L	0.01	5	ND	ND	ND	ND	ND	0.03	0.02	1.4	0.12	ND
Benzo(a)pyrene	ug/L	0.01	1.9	ND	ND	ND	ND	ND	ND (1)	ND	0.52	0.07	ND
Benzo(b)fluoranthene	ug/L	0.01	7	ND	ND	ND	ND	ND	ND	ND	0.46	0.06	ND
Benzo(g,h,i)perylene	ug/L	0.01	0.2	ND	ND	ND	ND	ND	ND	ND	0.13	0.02	ND
Benzo(k)fluoranthene	ug/L	0.01	0.4	ND	ND	ND	ND	ND	ND	ND	0.64	0.08	ND
Chrysene	ug/L	0.01	3	ND	ND	ND	ND	ND	0.03	0.02	1.1	0.09	ND
Dibenz(a,h)anthracene	ug/L	0.01	0.25	ND	ND	ND	ND	ND	ND	ND	0.05	ND	ND
Fluoranthene	ug/L	0.01	130	ND	ND	ND	ND	0.02	0.46	0.28	3.9	0.29	0.01
Fluorene	ug/L	0.01	290	0.01	ND	ND	ND	0.03	0.05	0.07	0.89	0.02	0.01
Indeno(1,2,3-cd)pyrene	ug/L	0.01	0.27	ND	ND	ND	ND	ND	ND	ND	0.18	0.03	ND
Naphthalene	ug/L	4	5900	ND	ND	ND	ND	ND	ND	0.3	2.8	ND	ND
Perylene	ug/L	0.01	ns	ND	ND	ND	ND	ND	ND	ND	0.15	0.02	ND
Phenanthrene	ug/L	0.01	63	0.03	ND	ND	ND	0.05	0.10	0.21	3.1	0.09	0.02
Pyrene	ug/L	0.01	40	ND	ND	ND	ND	0.02	0.31	0.17	3.1	0.26	0.01

Notes:

ug/L - micrograms per litre

PAH - polycyclic aromatic hydrocarbons

ND = Not detected

RDL = Reportable Detection Limit

ND(1) = elevated RDL to concentration in brackets

ns - no standard listed

MOE - Ontario Ministry of Environment

'-' - no guideline available

---' - not analysed

* Elevated PAH RDL(s) due to matrix / co-extractive interference.

**Exceeds MOE Site Condition Standards Table 3: Full Depth Generic Site
Condition Standards in a Non-Potable Ground Water**

TABLE 1 "(continued)"
Groundwater Polycyclic Aromatic Hydrocarbons Analysis
Harbourside Commercial Park
Groundwater Monitoring Program

Monitor Well ID			Standard MOE Table 3	SCU31-006- MW	SCU31-013- MWA	SCU31-013- MWA	SCU31-013- MWB	SCU31-013- MWB	SCU31-013- MWB	SCU31-013- MWC	SCU31-013- MWC	SCU33-001- MW	SCU33-001- MW
Sampling Date	Units	RDL		4-Dec-09	24-Nov-09	18-Nov-10	24-Nov-09	DUP C 24-Nov-09	18-Nov-10	24-Nov-09	18-Nov-10	24-Nov-09	16-Nov-10
Polyaromatic Hydrocarbons													
1-Methylnaphthalene	ug/L	1	13000	3.3	ND	0.21	0.50	0.60	0.38	ND	ND	0.68	0.46
2-Methylnaphthalene	ug/L	1	13000	3.0	ND	0.23	0.64	0.77	0.40	ND	ND	0.41	0.24
Acenaphthene	ug/L	0.01	1700	0.81	ND	0.10	0.23	0.27	0.18	ND	ND	0.26	0.19
Acenaphthylene	ug/L	0.01	2000	0.36	ND	0.06	0.09	0.11	0.07	ND	0.01	0.47	0.28
Anthracene	ug/L	0.01	12	0.81	0.01	0.11	0.12	0.17	0.10	ND	ND	0.29	0.20
Benzo(a)anthracene	ug/L	0.01	5	0.29	ND	0.10	ND	ND	0.02	ND	ND	0.03	0.03
Benzo(a)pyrene	ug/L	0.01	1.9	0.08	ND	0.13	ND	ND	0.02	ND	ND	ND	ND
Benzo(b)fluoranthene	ug/L	0.01	7	0.09	ND	0.09	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ug/L	0.01	0.2	0.03	ND	0.07	ND	ND	0.01	ND	ND	ND	ND
Benzo(k)fluoranthene	ug/L	0.01	0.4	0.12	ND	0.06	ND	ND	ND	ND	ND	ND	ND
Chrysene	ug/L	0.01	3	0.21	ND	0.13	ND	ND	0.01	ND	ND	0.04	0.03
Dibenz(a,h)anthracene	ug/L	0.01	0.25	ND	ND	0.01	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ug/L	0.01	130	2.8	0.02	0.29	0.33	0.39	0.20	ND	ND	1.2	1.1
Fluorene	ug/L	0.01	290	0.70	ND	0.18	0.50	0.57	0.33	ND	0.02	0.70	0.46
Indeno(1,2,3-cd)pyrene	ug/L	0.01	0.27	0.04	ND	0.06	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ug/L	4	5900	0.9	ND	1.6	3.2	3.6	1.9	ND	ND	1.8	0.8
Perylene	ug/L	0.01	ns	0.02	ND	0.03	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	ug/L	0.01	63	2.8	ND	0.43	0.63	0.79	0.38	ND	0.03	1.3	0.84
Pyrene	ug/L	0.01	40	1.6	0.02	0.22	0.18	0.22	0.11	ND	ND	0.72	0.74

Notes:

- ug/L - micrograms per litre
- PAH - polycyclic aromatic hydrocarbons
- ND = Not detected
- RDL = Reportable Detection Limit
- ND(1) = elevated RDL to concentration in brackets
- ns - no standard listed
- MOE - Ontario Ministry of Environment
- '-' - no guideline available
- ' - not analysed
- * Elevated PAH RDL(s) due to matrix / co-extractive interference.

Exceeds MOE Site Condition Standards Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water

TABLE 1 "(continued)"
Groundwater Polycyclic Aromatic Hydrocarbons Analysis
Harbourside Commercial Park
Groundwater Monitoring Program

Monitor Well ID			Standard MOE Table 3	FIELD BLANK	TRIP BLANK	TB-002
Sampling Date	Units	RDL		21-Nov-08	21-Nov-08	3-Sep-10
Polyaromatic Hydrocarbons						
1-Methylnaphthalene	ug/L	1	13000	ND	ND	ND
2-Methylnaphthalene	ug/L	1	13000	ND	ND	ND
Acenaphthene	ug/L	0.01	1700	ND	ND	ND
Acenaphthylene	ug/L	0.01	2000	ND	ND	ND
Anthracene	ug/L	0.01	12	ND	ND	ND
Benzo(a)anthracene	ug/L	0.01	5	ND	ND	ND
Benzo(a)pyrene	ug/L	0.01	1.9	ND	ND	ND
Benzo(b)fluoranthene	ug/L	0.01	7	ND	ND	ND
Benzo(g,h,i)perylene	ug/L	0.01	0.2	ND	ND	ND
Benzo(k)fluoranthene	ug/L	0.01	0.4	ND	ND	ND
Chrysene	ug/L	0.01	3	ND	ND	ND
Dibenz(a,h)anthracene	ug/L	0.01	0.25	ND	ND	ND
Fluoranthene	ug/L	0.01	130	ND	ND	ND
Fluorene	ug/L	0.01	290	ND	ND	ND
Indeno(1,2,3-cd)pyrene	ug/L	0.01	0.27	ND	ND	ND
Naphthalene	ug/L	4	5900	ND	ND	ND
Perylene	ug/L	0.01	ns	ND	ND	ND
Phenanthrene	ug/L	0.01	63	ND	ND	ND
Pyrene	ug/L	0.01	40	ND	ND	ND

Notes:

ug/L - micrograms per litre

PAH - polycyclic aromatic hydrocarbons

ND = Not detected

RDL = Reportable Detection Limit

ND(1) = elevated RDL to concentration in brackets

ns - no standard listed

MOE - Ontario Ministry of Environment

'-' - no guideline available

---' - not analysed

* Elevated PAH RDL(s) due to matrix / co-extractive interference.

**Exceeds MOE Site Condition Standards Table 3: Full Depth Generic Site
Condition Standards in a Non-Potable Ground Water**

TABLE 2 "(continued)"
Groundwater TPH/BTEX Analysis
Harbourside Commercial Park
Groundwater Monitoring Program

Monitor Well ID	Date	Units	Benzene	Toluene	Ethylbenzene	Xylene (Total)	C6 - C10 (less BTEX)	>C10-C16 Hydrocarbons	>C16-C21 Hydrocarbons	>C10-C21 Hydrocarbons	>C21-<C32 Hydrocarbons	Modified TPH (Tier1)
SCU4-001-MWA	21-Jan-04	mg/L	ND	ND	ND	ND	ND	---	---	ND	0.8	0.8
SCU4-001-MWA	19-Nov-08	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU4-001-MWA (DUP B)	19-Nov-08	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU4-001-MWA	18-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU4-001-MWA	10-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU4-001-MWB	21-Jan-04	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU4-001-MWB	19-Nov-08	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU4-001-MWB	18-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU4-001-MWB	10-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU6-004-MW	13-Aug-04	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU6-004-MW	18-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU6-004-MW	19-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	1	1
SCU7-006-MWA	17-Sep-04	mg/L	0.035	0.01	0.042	0.140	0.26	---	---	7	ND	ND
SCU7-006-MWA	18-Nov-08	mg/L	0.002	0.010	0.006	0.031	0.04	---	---	0.4	ND	ND
SCU7-006-MWA	16-Nov-09	mg/L	0.002	0.008	0.007	0.028	0.02	---	---	0.3	ND	ND
SCU7-006-MWA (DUP A)	16-Nov-09	mg/L	0.002	0.007	0.006	0.024	0.02	---	---	0.3	0.5	0.9
SCU7-006-MWA	26-Nov-10	mg/L	0.003	0.007	0.008	0.029	0.02	0.5	ND	---	ND	0.6
SCU7-006-MWB	17-Sep-04	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU7-006-MWB	18-Nov-08	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU7-006-MWB	16-Nov-09	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU7-006-MWB	26-Nov-10	mg/L	ND	ND	ND	ND	ND	---	---	0.3	ND	ND
SCU8-002-MW	16-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU8-002-MW	9-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU9-003-MWA	19-Nov-08	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU10-001-MW	17-Sep-03	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU10-001-MW	8-Jul-05	mg/L	ND	ND	ND	ND	ND	---	---	---	---	---
SCU10-001-MW	19-Nov-08	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU10-001-MW	17-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU10-001-MW	10-Nov-10	mg/L	ND	ND	ND	ND	0.02	ND	ND	---	ND	ND
SCU10-004-MW	19-Nov-08	mg/L	0.017	0.002	0.003	0.012	0.02	---	---	0.4	ND	ND
RDL			0.001	0.001	0.001	0.002	0.01	0.2	0.2	0.2	0.5	0.5
Atlantic PIRI Tier I Commercial, Non-Potable, Coarse Grained		mg/L	6.9	20	20	20	-	-	-	-	-	20

Notes:

mg/L - miligrams per litre

ND - non detect

ND(1) = elevated RDL to concentration in brackets

RDL = Reportable Detection Limit

Atlantic PIRI - Tier I Risk-Based Screening Level (RBSL)

'-' - no guideline available

--- - not analysed

* Lube Oil Fraction.

Exceeds Tier I RBSL: Commercial/Non-Potable/Coarse Grained Soil

TABLE 2 "(continued)"
Groundwater TPH/BTEX Analysis
Harbourside Commercial Park
Groundwater Monitoring Program

Monitor Well ID	Date	Units	Benzene	Toluene	Ethylbenzene	Xylene (Total)	C6 - C10 (less BTEX)	>C10-C16 Hydrocarbons	>C16-C21 Hydrocarbons	>C10-C21 Hydrocarbons	>C21-<C32 Hydrocarbons	Modified TPH (Tier1)
SCU10-004-MW	10-Nov-10	mg/L	0.077	0.005	0.006	0.027	0.03	0.7	ND	---	ND	0.7
SCU11-003-MW	19-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU11-003-MW	10-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU11-004-MWB	1-Jun-04	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU11-004-MWB	18-Nov-08	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU11-004-MWB (DUP A)	18-Nov-08	mg/L	ND	<0.001	ND	ND	ND	---	---	ND	ND	ND
SCU11-004-MWB	24-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU11-004-MWB	9-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU12-001-MW	16-Sep-03	mg/L	ND	ND	ND	ND	ND	---	---	ND	0.73	0.73
SCU12-001-MW	20-Nov-08	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU12-001-MW	24-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU12-001-MW	16-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU12-003-MW	16-Sep-03	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU12-003-MW	20-Nov-08	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU12-003-MW	9-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU12-003-MW (FD 1)	9-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU13-003-MW	9-Jan-07	mg/L	ND	ND	ND	ND	---	---	---	ND	ND	ND
SCU13-003-MW	20-Nov-08	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU13-003-MW	24-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU13-003-MW	9-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU13-006-MWA	2-Jan-07	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU13-006-MWA	20-Nov-08	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU13-006-MWA (DUP A)	20-Nov-08	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU13-006-MWA	17-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU13-006-MWA	9-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU13-006-MWB	2-Jan-07	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU13-006-MWB	20-Nov-08	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU13-006-MWB	17-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU13-006-MWB	9-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU15-002-MWA	11-Sep-03	mg/L	ND	ND	ND	ND	ND	---	---	0.36	1.1	1.5
RDL			0.001	0.001	0.001	0.002	0.01	0.2	0.2	0.2	0.5	0.5
Atlantic PIRI Tier I Commercial, Non-Potable, Coarse Grained		mg/L	6.9	20	20	20	-	-	-	-	-	20

Notes:

mg/L - miligrams per litre

ND - non detect

ND(1) = elevated RDL to concentration in brackets

RDL = Reportable Detection Limit

Atlantic PIRI - Tier I Risk-Based Screening Level (RBSL)

'-' - no guideline available

--- - not analysed

* Lube Oil Fraction.

Exceeds Tier I RBSL: Commercial/Non-Potable/Coarse Grained Soil

TABLE 2 "(continued)"
Groundwater TPH/BTEX Analysis
Harbourside Commercial Park
Groundwater Monitoring Program

Monitor Well ID	Date	Units	Benzene	Toluene	Ethylbenzene	Xylene (Total)	C6 - C10 (less BTEX)	>C10-C16 Hydrocarbons	>C16-C21 Hydrocarbons	>C10-C21 Hydrocarbons	>C21-<C32 Hydrocarbons	Modified TPH (Tier1)
SCU15-002-MWA	21-Nov-08	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU15-002-MWA	19-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU15-002-MWA	11-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU15-002-MWB	11-Sep-03	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU15-002-MWB	21-Nov-08	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU15-002-MWB	19-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU15-002-MWB	11-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU15-004-MWA	17-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU15-004-MWA	9-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU15-004-MWB	17-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	0.8	0.8
SCU15-004-MWB	9-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU15-013-MW	5-Jan-07	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU15-013-MW	20-Nov-08	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU15-013-MW	27-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU15-013-MW	11-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU15-018-MW	8-Jan-07	mg/L	0.13	0.048	0.3	0.8	1.6	---	---	4.8	ND	6.4
SCU15-018-MW	20-Nov-08	mg/L	0.190	0.040	0.490	1.300	3.20	---	---	5.6	ND	8.8
SCU15-018-MW	4-Dec-09	mg/L	0.16	ND	0.45	0.91	2.8	---	---	7.3	ND	10
SCU15-018-MW	9-Nov-10	mg/L	0.13	ND	0.41	0.70	2.6	7.7	ND	---	ND	10
SCU16-001-MW	23-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU16-001-MW	15-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU16-004-MW	20-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU16-004-MW	11-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU16-006-MW	23-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU16-006-MW	11-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU16-011-MWA	23-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU16-011-MWA	12-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU16-011-MWB	23-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU16-011-MWB	12-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU16-011-MWC	23-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU16-011-MWC	12-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
RDL			0.001	0.001	0.001	0.002	0.01	0.2	0.2	0.2	0.5	0.5
Atlantic PIRI Tier I Commercial, Non-Potable, Coarse Grained		mg/L	6.9	20	20	20	-	-	-	-	-	20

Notes:

mg/L - miligrams per litre

ND - non detect

ND(1) = elevated RDL to concentration in brackets

RDL = Reportable Detection Limit

Atlantic PIRI - Tier I Risk-Based Screening Level (RBSL)

'-' - no guideline available

---' - not analysed

* Lube Oil Fraction.

Exceeds Tier I RBSL: Commercial/Non-Potable/Coarse Grained Soil

TABLE 2 "(continued)"
Groundwater TPH/BTEX Analysis
Harbourside Commercial Park
Groundwater Monitoring Program

Monitor Well ID	Date	Units	Benzene	Toluene	Ethylbenzene	Xylene (Total)	C6 - C10 (less BTEX)	>C10-C16 Hydrocarbons	>C16-C21 Hydrocarbons	>C10-C21 Hydrocarbons	>C21-<C32 Hydrocarbons	Modified TPH (Tier1)
SCU16-011-MWC (FD 2)	12-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU16-013-MW	23-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU16-013-MW	12-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU16-014-MW	23-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	0.7	0.7 *
SCU16-014-MW	15-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU17-002-MW	1-Dec-09	mg/L	0.002	0.004	ND	0.008	ND	---	---	0.4	ND	ND
SCU17-002-MW	15-Nov-10	mg/L	0.002	0.003	ND	0.008	ND	0.3	ND	---	ND	ND
SCU17-002-MW (FD 4)	15-Nov-10	mg/L	0.002	0.004	ND	0.008	ND	0.3	ND	---	ND	ND
SCU17-004-MW	30-Nov-09	mg/L	ND	0.002	ND	ND	0.01	---	---	0.3	ND	ND
SCU17-004-MW	15-Nov-10	mg/L	0.001	0.002	ND	0.002	ND	ND	ND	---	ND	ND
SCU17-010-MWA	20-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU17-010-MWA (DUP B)	20-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU17-010-MWA	15-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU17-010-MWB	23-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU17-010-MWB	15-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU17-010-MWC	23-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU17-010-MWC	15-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU17-010-MWC (FD 3)	15-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU17-012-MW	19-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU17-014-MW	24-Nov-09	mg/L	0.002	ND	ND	ND	ND	---	---	0.4	ND	ND
SCU17-014-MW	15-Nov-10	mg/L	0.002	ND	ND	ND	ND	0.3	ND	---	ND	ND
SCU18-001-MWA	9-Sep-10	mg/L	ND	ND	ND	ND	ND	---	ND	ND	<0.5	<0.5
SCU18-001-MW	12-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU18-002-MW	9-Sep-10	mg/L	ND	ND	ND	ND	ND	---	ND	ND	<0.5	<0.5
SCU18-002-MW	12-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU18-005-MWA	9-Sep-10	mg/L	ND	ND	ND	ND	ND	---	ND	ND	<0.5	<0.5
SCU18-005-MWA-DUP	9-Sep-10	mg/L	ND	ND	ND	ND	ND	---	ND	ND	<0.5	<0.5
SCU18-007-MW	24-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU18-007-MW	19-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU18-009-MW	4-Dec-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
RDL			0.001	0.001	0.001	0.002	0.01	0.2	0.2	0.2	0.5	0.5
Atlantic PIRI Tier I Commercial, Non-Potable, Coarse Grained		mg/L	6.9	20	20	20	-	-	-	-	-	20

Notes:

mg/L - miligrams per litre

ND - non detect

ND(1) = elevated RDL to concentration in brackets

RDL = Reportable Detection Limit

Atlantic PIRI - Tier I Risk-Based Screening Level (RBSL)

'-' - no guideline available

--- - not analysed

* Lube Oil Fraction.

Exceeds Tier I RBSL: Commercial/Non-Potable/Coarse Grained Soil

TABLE 2 "(continued)"
Groundwater TPH/BTEX Analysis
Harbourside Commercial Park
Groundwater Monitoring Program

Monitor Well ID	Date	Units	Benzene	Toluene	Ethylbenzene	Xylene (Total)	C6 - C10 (less BTEX)	>C10-C16 Hydrocarbons	>C16-C21 Hydrocarbons	>C10-C21 Hydrocarbons	>C21-<C32 Hydrocarbons	Modified TPH (Tier1)
SCU18-009-MW (DUP E)	4-Dec-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU18-009-MW	19-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU18-009-MW (FD 7)	19-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU18-010-MW	7-Sep-10	mg/L	0.002	0.002	ND	0.007	ND	ND	ND	---	ND	ND
SCU18-011-MW	7-Sep-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU18-010-MW	17-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU18-011-MW	17-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU18-011-MW (FD 5)	17-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU19-002-MWA	18-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU19-002-MWB	18-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU19-015-MW	18-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU19-016-MW	18-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU20-013-MW	3-Sep-10	mg/L	0.014	0.026	0.011	0.077	0.12	1.3	0.6	---	ND	2.0
SCU20-013-MW	17-Nov-10	mg/L	0.016	0.028	0.012	0.081	0.13	2.9	1.6	---	1.5	6.2
SCU20-014-MW	3-Sep-10	mg/L	0.002	0.003	ND	0.006	ND	0.3	ND	---	ND	ND
SCU20-014-MW	17-Nov-10	mg/L	0.003	0.002	ND	0.005	ND	0.3	ND	---	ND	ND
SCU20-015-MW	3-Sep-10	mg/L	0.003	0.001	ND	0.003	ND	0.3	ND	---	ND	ND
SCU20-015-MW	17-Nov-10	mg/L	0.003	0.001	ND	ND	ND	ND	ND	---	ND	ND
SCU20-016-MW	7-Sep-10	mg/L	0.002	0.001	ND	ND	ND	0.7	0.2	---	ND	0.9
SCU20-016-MW	17-Nov-10	mg/L	0.001	ND	ND	ND	ND	0.3	0.3	---	ND	0.5
SCU20-017-MW	7-Sep-10	mg/L	0.005	0.006	ND	0.009	ND	0.4	ND	---	ND	ND
SCU20-017-MW	17-Nov-10	mg/L	0.002	0.002	ND	0.005	ND	0.4	ND	---	ND	ND
SCU20-018-MW	7-Sep-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU20-018-MW	17-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU24-001-MW	25-Nov-08	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU24-003-MW	25-Nov-08	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU24-003-MW	27-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU24-007-MWB	20-Jan-04	mg/L	ND	ND	ND	ND	ND(0.05)	---	---	ND(0.16)	ND(0.51)	ND(12)
SCU24-007-MWB	25-Apr-07	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU24-007-MWB	27-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
RDL			0.001	0.001	0.001	0.002	0.01	0.2	0.2	0.2	0.5	0.5
Atlantic PIRI Tier I Commercial, Non-Potable, Coarse Grained		mg/L	6.9	20	20	20	-	-	-	-	-	20

Notes:

mg/L - miligrams per litre

ND - non detect

ND(1) = elevated RDL to concentration in brackets

RDL = Reportable Detection Limit

Atlantic PIRI - Tier I Risk-Based Screening Level (RBSL)

'-' - no guideline available

--- - not analysed

* Lube Oil Fraction.

Exceeds Tier I RBSL: Commercial/Non-Potable/Coarse Grained Soil

TABLE 2 "(continued)"
Groundwater TPH/BTEX Analysis
Harbourside Commercial Park
Groundwater Monitoring Program

Monitor Well ID	Date	Units	Benzene	Toluene	Ethylbenzene	Xylene (Total)	C6 - C10 (less BTEX)	>C10-C16 Hydrocarbons	>C16-C21 Hydrocarbons	>C10-C21 Hydrocarbons	>C21-<C32 Hydrocarbons	Modified TPH (Tier1)
SCU24-007-MWB (DUP D)	27-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU24-007-MWB	18-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU24-007-MWB (FD 6)	18-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU24-008-MW	25-Nov-08	mg/L	0.002	ND	ND	ND	ND	---	---	ND	ND	ND
SCU24-010-MW	25-Nov-08	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU24-012-MW	25-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU24-013-MW	18-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU25-001-MW	18-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU25-001-MW	17-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU25-002-MWA	26-Jul-07	mg/L	ND	0.05	ND	ND	ND	---	---	ND	ND	ND
SCU25-002-MWA	26-Nov-08	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU25-002-MWA	18-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU25-002-MWA	17-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU25-003-MW	25-Jul-07	mg/L	ND	0.001	ND	0.004	0.04	---	---	2.7	ND	ND
SCU25-003-MW	26-Nov-08	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU25-003-MW	25-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU25-003-MW	16-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU25-004-MW	23-Jul-07	mg/L	ND	0.001	ND	ND	0.02	---	---	ND	ND	ND
SCU25-004-MW	26-Nov-08	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU25-004-MW	25-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU25-004-MW	16-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU25-005-MWB	25-Jul-07	mg/L	ND	0.012	ND	ND	ND	ND	ND	ND	ND	ND
SCU25-005-MWB	26-Nov-08	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU25-005-MWB	25-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU25-005-MWB	16-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU25-005-MWC	25-Jul-07	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SCU25-005-MWC	26-Nov-08	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU25-005-MWC	25-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU25-005-MWC	16-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU25-007-MW	25-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
RDL			0.001	0.001	0.001	0.002	0.01	0.2	0.2	0.2	0.5	0.5
Atlantic PIRI Tier I Commercial, Non-Potable, Coarse Grained		mg/L	6.9	20	20	20	-	-	-	-	-	20

Notes:

- mg/L - miligrams per litre
- ND - non detect
- ND(1) = elevated RDL to concentration in brackets
- RDL = Reportable Detection Limit
- Atlantic PIRI - Tier I Risk-Based Screening Level (RBSL)
- '-' - no guideline available
- ' - not analysed
- * Lube Oil Fraction.

Exceeds Tier I RBSL: Commercial/Non-Potable/Coarse Grained Soil

TABLE 2 "(continued)"
Groundwater TPH/BTEX Analysis
Harbourside Commercial Park
Groundwater Monitoring Program

Monitor Well ID	Date	Units	Benzene	Toluene	Ethylbenzene	Xylene (Total)	C6 - C10 (less BTEX)	>C10-C16 Hydrocarbons	>C16-C21 Hydrocarbons	>C10-C21 Hydrocarbons	>C21-<C32 Hydrocarbons	Modified TPH (Tier1)
SCU25-007-MW	16-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU26-007-MW	4-Dec-09	mg/L	0.007	ND	ND	ND	ND	---	---	ND	ND	ND
SCU26-009-MW	26-Nov-08	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU31-002MW-B	16-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU31-006-MW	4-Dec-09	mg/L	ND	ND	ND	ND	ND	---	---	0.3	ND	ND
SCU31-013-MWA	24-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU31-013-MWA	18-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU31-013-MWB	18-Nov-09	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU31-013-MWB (DUP C)	24-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU31-013-MWB	18-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU31-013-MWC	24-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
SCU31-013-MWC	18-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
SCU33-001-MW	25-Nov-09	mg/L	ND	ND	ND	ND	ND			ND	ND	ND
SCU33-001-MW	16-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
TRIP BLANK 1	20-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
TRIP BLANK 2	30-Nov-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
TRIP BLANK 3	1-Dec-09	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
TRIP BLANK	10-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
TRIP BLANK	16-Nov-10	mg/L	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
FIELD BLANK	21-Nov-08	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
TRIP BLANK	21-Nov-08	mg/L	ND	ND	ND	ND	ND	---	---	ND	ND	ND
TB-002	3-Sep-10	mg/L	ND	ND	ND	ND	ND	ND	ND		ND	ND
RDL		mg/L	0.001	0.001	0.001	0.002	0.01	0.2	0.2	0.2	0.5	0.5
Atlantic PIRI Tier I Commercial, Non-Potable, Coarse Grained			6.9	20	20	20	-	-	-	-	-	20

Notes:

mg/L - miligrams per litre

ND - non detect

ND(1) = elevated RDL to concentration in brackets

RDL = Reportable Detection Limit

Atlantic PIRI - Tier I Risk-Based Screening Level (RBSL)

'-' - no guideline available

---' - not analysed

* Lube Oil Fraction.

Exceeds Tier I RBSL: Commercial/Non-Potable/Coarse Grained Soil

Table 3 "(continued)"
 Groundwater Dissolved Metals Analysis
 Harbourside Commercial Park
 Groundwater Monitoring Program

Monitor Well ID	Units	RDL	Standard MOE Table 3	SCU4-001-MWA	SCU4-001-MWA	SCU4-001-MWA	SCU4-001-MWA	SCU4-001-MWA	SCU4-001-MWB	SCU4-001-MWB	SCU4-001-MWB	SCU4-001-MWB	SCU4-001-MWB	SCU6-004-MW	SCU6-004-MW	SCU6-004-MW	SCU7-006-MWA
				21-Jan-04	19-Nov-08	19-Nov-08	17-Nov-09	10-Nov-10	21-Jan-04	19-Nov-08	17-Nov-09	10-Nov-10	13-Aug-04	16-Nov-09	19-Nov-10	17-Sep-04	
Dissolved Aluminum (Al)	ug/L	5.0	-	11	ND	6.2	7.1	7.4	8	ND	5.4	10	15	16	21	26	
Dissolved Antimony (Sb)	ug/L	0.40	-	6.5	3.2	2.9	ND	ND	0.8	ND	ND	ND	10	9.4	27	ND	
Dissolved Arsenic (As)	ug/L	0.60	-	1.6	2.8	2.9	3.6	3.4	3.4	4.0	3.7	3.4	2.4	3.0	2.2	2.8	
Dissolved Barium (Ba)	ug/L	0.40	23000	29	37	37	22	22	143	100	92	94	65	54	67	123	
Dissolved Beryllium (Be)	ug/L	0.50	53	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Dissolved Bismuth (Bi)	ug/L	2.0	-	---	ND	ND	ND	ND	---	ND	ND	ND	---	ND	ND	---	
Dissolved Boron (B)	ug/L	100	50000	130	ND	ND	ND	ND	ND	ND	ND	ND	150	150	240	ND	
Dissolved Cadmium (Cd)	ug/L	0.017	11	0.054	0.018	ND	ND	ND	ND	ND	ND	ND	0.017	0.020	0.044	1.17	
Dissolved Calcium (Ca)	ug/L	100	-	137000	170000	160000	87000	82000	67800	64000	67000	66000	298000	180000	280000	120000	
Dissolved Chromium (Cr)	ug/L	1.0	2000	2	ND	ND	ND	ND	1	ND	3.1	ND	1	ND	ND	1	
Dissolved Cobalt (Co)	ug/L	1.0	100	1	ND	ND	1.1	1.1	ND	ND	ND	ND	ND	ND	ND	6	
Dissolved Copper (Cu)	ug/L	2.0	23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13	6.5	10	
Dissolved Iron (Fe)	ug/L	100	-	190	380	430	2100	1400	ND	ND	ND	ND	ND	ND	ND	9500	
Dissolved Lead (Pb)	ug/L	1.0	32	ND	ND	ND	ND	ND	ND	ND	ND	ND	---	2.6	2.4	---	
Dissolved Lithium (Li)	ug/L	1.0	-	1	14	15	ND	2.2	7	7.1	5.1	7.3	66	40	44	1	
Dissolved Magnesium (Mg)	ug/L	60	-	10700	9000	8900	9200	7200	841	9600	12000	11000	18100	11000	13000	9960	
Dissolved Manganese (Mn)	ug/L	4.0	-	10400	2500	2700	6300	5300	364	330	500	530	1160	230	94	4980	
Dissolved Molybdenum (Mo)	ug/L	4.0	7300	8	ND	ND	ND	ND	6	ND	ND	ND	4	4.2	5.4	ND	
Dissolved Nickel (Ni)	ug/L	3.0	1600	3	ND	ND	ND	ND	ND	ND	ND	ND	8	4.2	8.0	ND	
Dissolved Phosphorus (P)	ug/L	100	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	130	ND	ND	ND	
Dissolved Potassium (K)	ug/L	600	-	7100	7200	7500	6800	6400	2100	2200	1600	1800	7000	7700	7600	2500	
Dissolved Selenium (Se)	ug/L	1.0	50	4	6.3	7.5	ND	ND	ND	ND	ND	ND	4	ND	2.0	2.0	
Silicon (Si)	ug/L	100	-	---	---	---	2000	---	---	---	6000	---	---	14000	---	---	
Dissolved Silver (Ag)	ug/L	0.10	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Dissolved Sodium (Na)	ug/L	300	-	69000	42000	43000	62000	56000	47100	24000	18000	18000	11800	20000	12000	31100	
Dissolved Strontium (Sr)	ug/L	2.0	-	273	450	460	250	240	984	1200	1000	1100	1350	1100	1200	526	
Dissolved Thallium (Tl)	ug/L	0.80	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Dissolved Tin (Sn)	ug/L	20	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Dissolved Titanium (Ti)	ug/L	3.0	-	4	ND	ND	ND	ND	4	ND	ND	ND	6	ND	ND	---	
Dissolved Uranium (U)	ug/L	0.15	-	0.47	1.5	1.5	0.39	0.39	0.79	1.8	1.8	1.8	2.1	5.1	23	0.33	
Dissolved Vanadium (V)	ug/L	2.0	200	3	ND	ND	ND	ND	2	ND	ND	ND	ND	40	11	ND	
Dissolved Zinc (Zn)	ug/L	5.0	1100	4	13	15	---	5.4	---	ND	---	8.0	6	---	47	28	
Zinc (Zn)	ug/L	5.0	1100	---	---	---	ND	ND	ND	---	ND	ND	---	41	---	---	
Mercury total (Hg)	ug/L	0.013	0.12	0.20	ND	ND	0.018	ND	0.1	ND	0.019	ND	ND(0.1)	0.033	0.026	ND	
Sulphur (S)	ug/L	0.05	-	86400	94000	97000	---	---	21900	22000	---	---	309000	---	---	45400	

Notes:
 ug/L - micrograms per litre
 ND - non detect
 ND(1) = elevated RDL to concentration in brackets
 RDL = Reportable Detection Limit
 MOE - Ontario Ministry of Environment
 '-' - no guideline available
 '---' - sample not analyzed for parameter indicated

Exceeds MOE Site Condition Standards Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water

Table 3 "(continued)"
 Groundwater Dissolved Metals Analysis
 Harbourside Commercial Park
 Groundwater Monitoring Program

Monitor Well ID	Units	RDL	Standard MOE Table 3	SCU7-006-MWA	SCU7-006-MWA	SCU7-006-MWA	SCU7-006-MWA	SCU7-006-MWB	SCU7-006-MWB	SCU7-006-MWB	SCU7-006-MWB	SCU7-006-MWB	SCU8-002-MW	SCU8-002-MW	SCU9-003-MWA	SCU10-001-MW	SCU10-001-MW
				18-Nov-08	16-Nov-09	16-Nov-09 DUP A	26-Nov-10	17-Sep-04	18-Nov-08	16-Nov-09	26-Nov-10	16-Nov-09	9-Nov-10	19-Nov-08	17-Sep-03	19-Nov-08	
Dissolved Aluminum (Al)	ug/L	5.0	-	6.8	7.2	6.7	13	8	5.6	ND	11	6.1	8.4	43	ND	20	
Dissolved Antimony (Sb)	ug/L	0.40	-	3.1	1.9	1.7	2.6	ND	ND	ND	0.69	0.89	2.0	45	ND	ND	
Dissolved Arsenic (As)	ug/L	0.60	-	4.4	4.4	4.4	3.7	7.5	7.5	7.9	7.9	2.0	1.9	2.2	1.6	0.95	
Dissolved Barium (Ba)	ug/L	0.40	23000	79	67	67	86	40.9	44	42	41	63	85	78	28	36	
Dissolved Beryllium (Be)	ug/L	0.50	53	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Dissolved Bismuth (Bi)	ug/L	2.0	-	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Dissolved Boron (B)	ug/L	100	50000	110	ND	ND	110	ND	ND	ND	ND	120	140	ND	ND	ND	
Dissolved Cadmium (Cd)	ug/L	0.017	11	ND	0.021	ND	0.045	ND	ND	ND	ND	0.076	0.075	0.039	0.131	0.19	
Dissolved Calcium (Ca)	ug/L	100	-	160000	130000	120000	150000	102000	140000	110000	110000	130000	160000	170000	41800	51000	
Dissolved Chromium (Cr)	ug/L	1.0	2000	ND	2.9	3.3	180	ND	ND	2.0	ND	3.0	ND	ND	ND	ND	
Dissolved Cobalt (Co)	ug/L	1.0	100	ND	ND	ND	ND	1	1.4	1.5	1.5	ND	ND	ND	2	1.3	
Dissolved Copper (Cu)	ug/L	2.0	23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.7	5	ND	
Dissolved Iron (Fe)	ug/L	100	-	130	ND	ND	390	550	1400	1200	1100	ND	ND	ND	ND	ND	
Dissolved Lead (Pb)	ug/L	1.0	32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	
Dissolved Lithium (Li)	ug/L	1.0	-	15	12	12	14	8	4.3	4.4	6.2	10	15	6.1	3	ND	
Dissolved Magnesium (Mg)	ug/L	60	-	19000	17000	17000	18000	11500	13000	13000	13000	22000	30000	13000	6240	5500	
Dissolved Manganese (Mn)	ug/L	4.0	-	190	180	180	460	ND	3000	2700	2800	25	30	ND	4750	8900	
Dissolved Molybdenum (Mo)	ug/L	4.0	7300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0	ND	ND	
Dissolved Nickel (Ni)	ug/L	3.0	1600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6	ND	
Dissolved Phosphorus (P)	ug/L	100	-	ND	ND	ND	ND	ND	ND	ND	ND	130	150	ND	ND	ND	
Dissolved Potassium (K)	ug/L	600	-	3900	2800	2700	3500	1700	2400	2100	2100	2400	2800	300	4900	5500	
Dissolved Selenium (Se)	ug/L	1.0	50	2.3	1.1	ND	4.8	ND	ND	ND	ND	1.6	3.6	1.3	ND	ND	
Silicon (Si)	ug/L	100	-	---	11000	10000	---	ND	---	4800	---	10000	---	---	---	---	
Dissolved Silver (Ag)	ug/L	0.10	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Dissolved Sodium (Na)	ug/L	300	-	8200	6100	6000	7900	22800	12000	14000	14000	8700	12000	9900	60000	32000	
Dissolved Strontium (Sr)	ug/L	2.0	-	380	350	340	440	3330	1900	1900	2100	410	560	350	538	190	
Dissolved Thallium (Tl)	ug/L	0.80	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Dissolved Tin (Sn)	ug/L	20	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Dissolved Titanium (Ti)	ug/L	3.0	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Dissolved Uranium (U)	ug/L	0.15	-	3.8	3.6	3.6	3.3	0.89	0.46	0.81	0.72	3.5	5.4	17	0.46	ND	
Dissolved Vanadium (V)	ug/L	2.0	200	2.3	3.6	3.6	2.3	ND	ND	ND	ND	4.3	4.0	ND	ND	ND	
Dissolved Zinc (Zn)	ug/L	5.0	1100	ND	---	---	ND	ND	ND	---	ND	---	6.9	ND	ND	ND	
Zinc (Zn)	ug/L	5.0	1100	---	ND	ND	---	4	---	ND	---	5.7	41	---	11	---	
Mercury total (Hg)	ug/L	0.013	0.12	ND	0.018	0.021	0.014	ND	ND	0.014	ND	0.016	ND	0.03	ND	ND	
Sulphur (S)	ug/L	0.05	-	83000	---	---	---	---	77000	---	---	---	---	130000	40600	52000	

Notes:
 ug/L - micrograms per litre
 ND - non detect
 ND(1) = elevated RDL to concentration in brackets
 RDL = Reportable Detection Limit
 MOE - Ontario Ministry of Environment
 '-' - no guideline available
 '---' - sample not analyzed for parameter indicated

Exceeds MOE Site Condition Standards Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water

Table 3 "(continued)"
 Groundwater Dissolved Metals Analysis
 Harbourside Commercial Park
 Groundwater Monitoring Program

Monitor Well ID	Units	RDL	Standard MOE Table 3	SCU10-001-	SCU10-001-	SCU10-004-	SCU10-004-	SCU11-003-	SCU11-003-	SCU11-004-	SCU11-004-	SCU11-004-	SCU11-004-	SCU11-004-	SCU11-004-	SCU12-001-	SCU12-001-
				MW	MW	MW	MW	MW	MW	MWB	MWB	MWB	MWB	MWB	MWB	MW	MW
Sampling Date				17-Nov-09	10-Nov-10	19-Nov-08	10-Nov-10	19-Nov-09	10-Nov-10	1-Jun-04	18-Nov-08	18-Nov-08	24-Nov-09	9-Nov-10	16-Sep-03	21-Nov-08	
Dissolved Aluminum (Al)	ug/L	5.0	-	8.5	12	ND	13	6.0	11	9	16	20	11	11	ND(20)	ND	
Dissolved Antimony (Sb)	ug/L	0.40	-	ND	ND	1.2	ND	ND	ND	---	ND	ND	1.1	ND	0.4	0.49	
Dissolved Arsenic (As)	ug/L	0.60	-	1.5	1.7	4.3	8.1	1.7	1.6	1.7	1.4	1.5	1.2	1.5	2.6	5.0	
Dissolved Barium (Ba)	ug/L	0.40	23000	34	32	56	49	77	75	245	70	70	74	77	24.9	23	
Dissolved Beryllium (Be)	ug/L	0.50	53	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Dissolved Bismuth (Bi)	ug/L	2.0	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	---	ND	
Dissolved Boron (B)	ug/L	100	50000	ND	ND	ND	ND	160	160	ND	ND	ND	ND	ND	ND	370	
Dissolved Cadmium (Cd)	ug/L	0.017	11	0.16	0.10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Dissolved Calcium (Ca)	ug/L	100	-	42000	38000	130000	100000	61000	71000	128000	110000	150000	110000	92000	580000	530000	
Dissolved Chromium (Cr)	ug/L	1.0	2000	2.3	ND	ND	ND	2.0	ND	ND	ND	ND	ND	1.8	ND(2)	ND	
Dissolved Cobalt (Co)	ug/L	1.0	100	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Dissolved Copper (Cu)	ug/L	2.0	23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.3	ND	
Dissolved Iron (Fe)	ug/L	100	-	ND	ND	ND	ND	ND	ND	ND	140	140	ND	ND	ND	ND	
Dissolved Lead (Pb)	ug/L	1.0	32	ND	ND	ND	ND	ND	ND	---	ND	ND	ND	ND	2	ND	
Dissolved Lithium (Li)	ug/L	1.0	-	ND	2.3	28	29	13	19	12	22	23	21	19	35	38	
Dissolved Magnesium (Mg)	ug/L	60	-	5000	4400	6000	5000	17000	21000	965	11000	11000	13000	11000	26500	13000	
Dissolved Manganese (Mn)	ug/L	4.0	-	8400	7900	14	83	ND	49	119	260	270	130	200	310	14	
Dissolved Molybdenum (Mo)	ug/L	4.0	7300	ND	ND	6.9	6.6	ND	ND	ND	ND	ND	ND	ND	18	5.7	
Dissolved Nickel (Ni)	ug/L	3.0	1600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	ND	
Dissolved Phosphorus (P)	ug/L	100	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	360	ND	
Dissolved Potassium (K)	ug/L	600	-	4200	4300	13000	9000	11000	12000	4300	4700	4600	4200	4000	8100	4500	
Dissolved Selenium (Se)	ug/L	1.0	50	ND	ND	3.1	1.9	ND	ND	ND	ND	ND	ND	ND	2	ND	
Silicon (Si)	ug/L	100	-	1800	---	---	---	8000	---	---	---	---	5900	---	---	---	
Dissolved Silver (Ag)	ug/L	0.10	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Dissolved Sodium (Na)	ug/L	300	-	29000	25000	140000	92000	18000	12000	12500	16000	15000	18000	14000	84700	89000	
Dissolved Strontium (Sr)	ug/L	2.0	-	160	150	550	470	230	260	12000	7300	7400	6900	6700	9480	4100	
Dissolved Thallium (Tl)	ug/L	0.80	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Dissolved Tin (Sn)	ug/L	20	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Dissolved Titanium (Ti)	ug/L	3.0	-	ND	ND	ND	ND	ND	ND	---	ND	ND	ND	ND	---	ND	
Dissolved Uranium (U)	ug/L	0.15	-	ND	ND	2.4	1.6	1.1	1.9	1.66	2.4	2.4	2.4	2.4	2.63	6.9	
Dissolved Vanadium (V)	ug/L	2.0	200	ND	ND	8.0	7.5	10	9.9	ND	ND	ND	ND	ND	3	44	
Dissolved Zinc (Zn)	ug/L	5.0	1100	---	7.1	ND	ND	---	8.4	6	ND	ND	---	ND	---	ND	
Zinc (Zn)	ug/L	5.0	1100	ND	ND	---	ND	ND	ND	---	---	---	7.7	ND	7	---	
Mercury total (Hg)	ug/L	0.013	0.12	0.022	ND	ND	ND	0.019	ND	ND	ND	ND	ND	ND	0.2	ND(10)	
Sulphur (S)	ug/L	0.05	-	---	---	100000	---	---	---	23800	54000	54000	---	---	523000	620000	

Notes:
 ug/L - micrograms per litre
 ND - non detect
 ND(1) = elevated RDL to concentration in brackets
 RDL = Reportable Detection Limit
 MOE - Ontario Ministry of Environment
 '-' - no guideline available
 '---' - sample not analyzed for parameter indicated

Exceeds MOE Site Condition Standards Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water

Table 3 "(continued)"
 Groundwater Dissolved Metals Analysis
 Harbourside Commercial Park
 Groundwater Monitoring Program

Monitor Well ID	Units	RDL	Standard MOE Table 3	SCU12-001-	SCU12-001-	SCU12-003-	SCU12-003-	SCU12-003-	SCU12-003-	SCU13-003-	SCU13-003-	SCU13-003-	SCU13-003-	SCU13-006-	SCU13-006-	SCU13-006-
				MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MWA
Sampling Date				30-Nov-09	16-Nov-10	16-Sep-03	20-Nov-08	9-Nov-10	9-Nov-10	9-Jan-07	20-Nov-08	23-Nov-09	9-Nov-10	3-Jan-07	20-Nov-08	17-Nov-09
Dissolved Aluminum (Al)	ug/L	5.0	-	25	ND	ND	31	11	10	45	16	18	14	63	11	5.5
Dissolved Antimony (Sb)	ug/L	0.40	-	ND	ND	0.8	ND	ND	ND	4.7	4.8	1.5	3.1	0.53	ND	0.68
Dissolved Arsenic (As)	ug/L	0.60	-	7.6	9.7	ND	4.0	ND	ND	5.1	4.5	5.0	4.4	2.3	3.7	2.9
Dissolved Barium (Ba)	ug/L	0.40	23000	20	22	24.1	67	65	66	51	44	36	50	42	36	34
Dissolved Beryllium (Be)	ug/L	0.50	53	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Bismuth (Bi)	ug/L	2.0	-	ND	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Boron (B)	ug/L	100	50000	300	ND	110	120	130	130	110	ND	120	ND	ND	ND	ND
Dissolved Cadmium (Cd)	ug/L	0.017	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.13	0.5	ND	ND
Dissolved Calcium (Ca)	ug/L	100	-	540000	550000	61900	120000	10000	9900	120000	160000	110000	130000	120000	120000	120000
Dissolved Chromium (Cr)	ug/L	1.0	2000	1.2	ND	ND	13	ND	ND	4.7	4.8	5.7	3.3	2.2	1.8	ND
Dissolved Cobalt (Co)	ug/L	1.0	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Copper (Cu)	ug/L	2.0	23	ND	ND	ND	ND	ND	ND	ND	ND	2.5	2.1	2.8	ND	ND
Dissolved Iron (Fe)	ug/L	100	-	ND	ND	ND	ND	8200	8300	170	ND	ND	ND	ND	ND	ND
Dissolved Lead (Pb)	ug/L	1.0	32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.1	ND	ND
Dissolved Lithium (Li)	ug/L	1.0	-	38	49	8	10	27	27	ND	11	9.4	15	23	28	35
Dissolved Magnesium (Mg)	ug/L	60	-	13000	21000	4940	7700	1700	1800	2700	2300	1500	1300	11000	13000	13000
Dissolved Manganese (Mn)	ug/L	4.0	-	8.0	ND	50	7.7	420	420	4.8	ND	ND	ND	27	6.2	5.3
Dissolved Molybdenum (Mo)	ug/L	4.0	7300	8.2	ND	6	6.7	ND	ND	13	7.3	5.4	5.1	10	9.3	8.2
Dissolved Nickel (Ni)	ug/L	3.0	1600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Phosphorus (P)	ug/L	100	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Potassium (K)	ug/L	600	-	4700	6600	6000	8800	2600	2600	6000	9600	5900	6000	5000	6600	4900
Dissolved Selenium (Se)	ug/L	1.0	50	21	38	1	ND	ND	ND	2.1	5.6	4.2	3.4	2	2.2	ND
Silicon (Si)	ug/L	100	-	15000	---	---	---	---	---	---	---	14000	---	---	---	16000
Dissolved Silver (Ag)	ug/L	0.10	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Sodium (Na)	ug/L	300	-	60000	130000	62700	54000	120000	120000	18000	24000	9100	8100	58000	51000	46000
Dissolved Strontium (Sr)	ug/L	2.0	-	5400	6800	316	530	200	200	650	740	540	810	1900	1300	1200
Dissolved Thallium (Tl)	ug/L	0.80	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.8	ND	ND
Dissolved Tin (Sn)	ug/L	20	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Titanium (Ti)	ug/L	3.0	-	3.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Uranium (U)	ug/L	0.15	-	17	26	0.59	0.93	ND	ND	0.6	1.9	1.3	1.5	2.9	3.1	4.3
Dissolved Vanadium (V)	ug/L	2.0	200	33	ND	35	71	ND	ND	26	36	40	36	ND	4.7	5.7
Dissolved Zinc (Zn)	ug/L	5.0	1100	---	ND	ND	ND	ND	ND	2.3	ND	---	ND	6.5	ND	---
Zinc (Zn)	ug/L	5.0	1100	14	---	---	---	ND	7.7	---	---	ND	ND	---	---	ND
Mercury total (Hg)	ug/L	0.013	0.12	0.021	ND	ND	ND	ND	ND	ND	ND	0.024	ND	ND	ND	0.018
Sulphur (S)	ug/L	0.05	-	---	---	24900	---	---	---	120000	---	---	---	79000	130000	---

Notes:
 ug/L - micrograms per litre
 ND - non detect
 ND(1) = elevated RDL to concentration in brackets
 RDL = Reportable Detection Limit
 MOE - Ontario Ministry of Environment
 '-' - no guideline available
 '---' - sample not analyzed for parameter indicated

Exceeds MOE Site Condition Standards Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water

Table 3 "(continued)"
 Groundwater Dissolved Metals Analysis
 Harbourside Commercial Park
 Groundwater Monitoring Program

Monitor Well ID	Units	RDL	Standard MOE Table 3	SCU13-006-	SCU13-006-	SCU13-006-	SCU13-006-	SCU13-006-	SCU15-002-	SCU15-002-	SCU15-002-	SCU15-002-	SCU15-002-	SCU15-002-	SCU15-002-	SCU15-002-
				MWA	MWB	MWB	MWB	MWB	MWA	MWA	MWA	MWA	MWB	MWB	MWB	MWB
Sampling Date				9-Nov-10	2-Jan-07	20-Nov-08	17-Nov-09	9-Nov-10	11-Sep-03	21-Nov-08	19-Nov-09	11-Nov-10	11-Sep-03	21-Nov-08	19-Nov-09	11-Nov-10
Dissolved Aluminum (Al)	ug/L	5.0	-	11	32	22	ND	18	4000	17	9.5	14	40	ND	6.2	7.5
Dissolved Antimony (Sb)	ug/L	0.40	-	ND	ND	ND	ND	ND	0.4	ND	4.8	2.9	ND	ND	ND	1.6
Dissolved Arsenic (As)	ug/L	0.60	-	3.1	1.4	1.4	1.3	1.2	12.2	0.70	0.97	2.8	1.9	27	25	25
Dissolved Barium (Ba)	ug/L	0.40	23000	39	45	23	21	25	78.9	92	38	47	35.4	13	12	14
Dissolved Beryllium (Be)	ug/L	0.50	53	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Bismuth (Bi)	ug/L	2.0	-	ND	ND	ND	ND	ND	---	ND	ND	ND	---	ND	ND	ND
Dissolved Boron (B)	ug/L	100	50000	120	150	160	200	220	ND	ND	120	150	300	380	310	310
Dissolved Cadmium (Cd)	ug/L	0.017	11	ND	ND	ND	ND	ND	0.8	0.11	0.073	0.048	0.026	ND	ND	0.023
Dissolved Calcium (Ca)	ug/L	100	-	130000	130000	180000	150000	140000	176000	150000	130000	150000	49900	53000	40000	47000
Dissolved Chromium (Cr)	ug/L	1.0	2000	ND	ND	ND	ND	ND	6	ND	ND	1.1	ND	ND	ND	ND
Dissolved Cobalt (Co)	ug/L	1.0	100	ND	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND	ND
Dissolved Copper (Cu)	ug/L	2.0	23	ND	2.2	ND	ND	ND	133	10	2.0	2.6	ND	ND	ND	ND
Dissolved Iron (Fe)	ug/L	100	-	ND	230	ND	ND	ND	6350	1900	ND	ND	ND	ND	ND	ND
Dissolved Lead (Pb)	ug/L	1.0	32	ND	1.5	ND	ND	ND	39	1.8	ND	ND	ND	ND	ND	ND
Dissolved Lithium (Li)	ug/L	1.0	-	44	24	46	45	48	6	1.6	20	39	32	34	35	37
Dissolved Magnesium (Mg)	ug/L	60	-	13000	13000	24000	19000	17000	10000	14000	9500	6800	721	6900	7100	7600
Dissolved Manganese (Mn)	ug/L	4.0	-	74	120	42	40	36	2340	1900	130	140	69	43	53	58
Dissolved Molybdenum (Mo)	ug/L	4.0	7300	9.8	ND	4.5	4.8	5.2	5	ND	12	19	44	34	31	31
Dissolved Nickel (Ni)	ug/L	3.0	1600	ND	ND	ND	ND	ND	8	ND	ND	ND	ND	ND	ND	ND
Dissolved Phosphorus (P)	ug/L	100	-	ND	ND	ND	ND	ND	330	ND	ND	ND	210	ND	ND	ND
Dissolved Potassium (K)	ug/L	600	-	5400	4000	6300	4500	4700	6300	10000	12000	15000	2400	4200	2800	3200
Dissolved Selenium (Se)	ug/L	1.0	50	1.7	1.5	ND	ND	ND	10	ND	ND	4.4	ND	ND	ND	4.5
Silicon (Si)	ug/L	100	-	---	---	---	4200	---	---	---	9200	---	---	---	4800	---
Dissolved Silver (Ag)	ug/L	0.10	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Sodium (Na)	ug/L	300	-	53000	54000	86000	65000	64000	20500	46000	29000	41000	324000	250000	290000	300000
Dissolved Strontium (Sr)	ug/L	2.0	-	1500	5300	7300	6900	6900	386	520	600	990	3340	2200	2800	3200
Dissolved Thallium (Tl)	ug/L	0.80	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Tin (Sn)	ug/L	20	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Titanium (Ti)	ug/L	3.0	-	ND	ND	ND	ND	ND	---	ND	ND	ND	---	ND	ND	ND
Dissolved Uranium (U)	ug/L	0.15	-	4.9	1.4	0.95	1.0	1.1	1.03	0.20	0.48	0.83	0.22	0.18	0.18	0.23
Dissolved Vanadium (V)	ug/L	2.0	200	4.3	ND	ND	ND	ND	11	ND	ND	6.8	ND	ND	ND	ND
Dissolved Zinc (Zn)	ug/L	5.0	1100	ND	3.6	ND	---	ND	76	11	---	8.6	---	ND	---	6.3
Zinc (Zn)	ug/L	5.0	1100	ND	---	---	ND	ND	---	---	ND	ND	ND	---	ND	ND
Mercury total (Hg)	ug/L	0.013	0.12	ND	ND	ND	0.019	ND	0.3	0.01	0.018	ND	0.2	ND	0.026	ND
Sulphur (S)	ug/L	0.05	-	---	75000	210000	---	---	124000	130000	---	---	---	150000	---	---

Notes:
 ug/L - micrograms per litre
 ND - non detect
 ND(1) = elevated RDL to concentration in brackets
 RDL = Reportable Detection Limit
 MOE - Ontario Ministry of Environment
 '-' - no guideline available
 '---' - sample not analyzed for parameter indicated

Exceeds MOE Site Condition Standards Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water

Table 3 "(continued)"
 Groundwater Dissolved Metals Analysis
 Harbourside Commercial Park
 Groundwater Monitoring Program

Monitor Well ID	Units	RDL	Standard MOE Table 3	SCU15-004-	SCU15-004-	SCU15-004-	SCU15-004-	SCU15-013-	SCU15-013-	SCU15-013-	SCU15-013-	SCU15-018-	SCU15-018-	SCU15-018-	SCU15-018-	SCU16-001-
				MWA	MWA	MWB	MWB	MW	MW	MW	MW	MW	MW	MW	MW	MW
Sampling Date				17-Nov-09	9-Nov-10	17-Nov-09	9-Nov-10	5-Jan-07	20-Nov-08	27-Nov-09	11-Nov-10	8-Jan-07	20-Nov-08	4-Dec-09	9-Nov-10	23-Nov-09
Dissolved Aluminum (Al)	ug/L	5.0	-	ND	10	ND	8.6	210	7.5	28	13	56	28	15	32	31
Dissolved Antimony (Sb)	ug/L	0.40	-	ND	3.7	ND	ND	ND	ND	1.3	ND	0.44	ND	ND	ND	ND
Dissolved Arsenic (As)	ug/L	0.60	-	2.1	1.8	12	13	1.8	ND	ND	ND	8.8	5.8	6.8	5.4	3.1
Dissolved Barium (Ba)	ug/L	0.40	23000	100	92	53	47	130	140	75	84	950	920	990	1000	22
Dissolved Beryllium (Be)	ug/L	0.50	53	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Bismuth (Bi)	ug/L	2.0	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Boron (B)	ug/L	100	50000	ND	ND	ND	ND	110	150	230	260	ND	ND	ND	ND	ND
Dissolved Cadmium (Cd)	ug/L	0.017	11	ND	ND	ND	ND	0.31	0.021	0.043	0.093	0.13	ND	ND	ND	ND
Dissolved Calcium (Ca)	ug/L	100	-	84000	82000	90000	93000	110000	250000	150000	170000	110000	130000	120000	130000	91000
Dissolved Chromium (Cr)	ug/L	1.0	2000	5.8	1.9	3.5	ND	1.4	3.2	ND	ND	1.6	ND	ND	ND	8.4
Dissolved Cobalt (Co)	ug/L	1.0	100	ND	ND	ND	ND	ND	ND	ND	ND	1.4	ND	1.4	2.3	ND
Dissolved Copper (Cu)	ug/L	2.0	23	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Iron (Fe)	ug/L	100	-	ND	ND	420	480	440	ND	ND	ND	2700	4100	4300	4100	ND
Dissolved Lead (Pb)	ug/L	1.0	32	ND	ND	ND	ND	2.2	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Lithium (Li)	ug/L	1.0	-	18	19	9.1	11	ND	ND	ND	1.5	6.9	2.8	5.0	7.3	1.7
Dissolved Magnesium (Mg)	ug/L	60	-	7800	5900	12000	12000	16000	37000	23000	27000	21000	37000	34000	37000	5600
Dissolved Manganese (Mn)	ug/L	4.0	-	ND	ND	250	220	1700	4	8.7	50	2900	5900	6300	6200	ND
Dissolved Molybdenum (Mo)	ug/L	4.0	7300	19	21	ND	ND	ND	ND	ND	5.7	21	ND	ND	ND	23
Dissolved Nickel (Ni)	ug/L	3.0	1600	ND	ND	ND	ND	6.4	ND	ND	ND	35	ND	ND	ND	ND
Dissolved Phosphorus (P)	ug/L	100	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Potassium (K)	ug/L	600	-	5900	6400	2100	2700	4000	11000	9100	10000	6000	5400	5200	5600	7500
Dissolved Selenium (Se)	ug/L	1.0	50	1.0	1.0	ND	ND	8.9	5.3	1.9	2.7	ND	ND	ND	ND	2.1
Silicon (Si)	ug/L	100	-	7000	---	8200	---	---	---	6100	---	---	---	6100	---	6000
Dissolved Silver (Ag)	ug/L	0.10	1.2	ND	ND	ND	ND	ND	ND	ND	ND	0.11	ND	ND	ND	ND
Dissolved Sodium (Na)	ug/L	300	-	17000	19000	31000	32000	58000	55000	21000	28000	43000	42000	32000	32000	41000
Dissolved Strontium (Sr)	ug/L	2.0	-	540	550	1600	1800	550	860	520	610	1600	1600	1800	1900	320
Dissolved Thallium (Tl)	ug/L	0.80	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Tin (Sn)	ug/L	20	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Titanium (Ti)	ug/L	3.0	-	ND	ND	ND	ND	3.5	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Uranium (U)	ug/L	0.15	-	0.68	0.62	0.42	0.34	0.5	0.62	0.75	0.72	2.7	0.92	2.0	1.4	1.9
Dissolved Vanadium (V)	ug/L	2.0	200	31	43	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	17
Dissolved Zinc (Zn)	ug/L	5.0	1100	ND	ND	---	ND	21	ND	---	ND	34	ND	---	8.2	---
Zinc (Zn)	ug/L	5.0	1100	---	ND	ND	ND	---	---	ND	ND	---	---	ND	5.7	ND
Mercury total (Hg)	ug/L	0.013	0.12	0.026	ND	ND	ND	ND	ND	0.03	ND	ND	0.01	0.022	0.017	0.016
Sulphur (S)	ug/L	0.05	-	---	---	---	---	110000	---	---	---	39000	---	---	---	---

Notes:
 ug/L - micrograms per litre
 ND - non detect
 ND(1) = elevated RDL to concentration in brackets
 RDL = Reportable Detection Limit
 MOE - Ontario Ministry of Environment
 '-' - no guideline available
 '---' - sample not analyzed for parameter indicated

Exceeds MOE Site Condition Standards Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water

Table 3 "(continued)"
 Groundwater Dissolved Metals Analysis
 Harbourside Commercial Park
 Groundwater Monitoring Program

Monitor Well ID	Units	RDL	Standard MOE Table 3	SCU16-001-	SCU16-004-	SCU16-004-	SCU16-006-	SCU16-006-	SCU16-011-	SCU16-011-	SCU16-011-	SCU16-011-	SCU16-011-	SCU16-011-	SCU16-011-	SCU16-013-
				MW	MW	MW	MW	MW	MWA	MWA	MWB	MWB	MWC	MWC	MWC	MW
Sampling Date				15-Nov-10	20-Nov-09	11-Nov-10	23-Nov-09	11-Nov-10	23-Nov-09	12-Nov-10	23-Nov-09	12-Nov-10	23-Nov-09	12-Nov-10	12-Nov-10	23-Nov-09
Dissolved Aluminum (Al)	ug/L	5.0	-	25	12	6.3	39	5.1	250	160	120	120	58	24	24	44
Dissolved Antimony (Sb)	ug/L	0.40	-	ND	ND	1.5	ND	ND	0.90	0.58	ND	ND	ND	ND	ND	ND
Dissolved Arsenic (As)	ug/L	0.60	-	2.5	4.7	3.2	9.0	8.5	2.8	3.1	12	14	13	14	14	2.2
Dissolved Barium (Ba)	ug/L	0.40	23000	22	40	41	15	12	21	24	83	77	52	45	43	91
Dissolved Beryllium (Be)	ug/L	0.50	53	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Bismuth (Bi)	ug/L	2.0	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Boron (B)	ug/L	100	50000	ND	110	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Cadmium (Cd)	ug/L	0.017	11	ND	0.018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Calcium (Ca)	ug/L	100	-	92000	110000	120000	270000	230000	78000	73000	80000	80000	67000	60000	60000	190000
Dissolved Chromium (Cr)	ug/L	1.0	2000	ND	6.9	2.5	ND	ND	11	25	ND	ND	ND	ND	ND	26
Dissolved Cobalt (Co)	ug/L	1.0	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Copper (Cu)	ug/L	2.0	23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.4
Dissolved Iron (Fe)	ug/L	100	-	ND	ND	ND	2500	1300	ND	ND	ND	ND	ND	ND	ND	210
Dissolved Lead (Pb)	ug/L	1.0	32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Lithium (Li)	ug/L	1.0	-	1.9	24	25	13	12	11	13	29	27	22	19	19	36
Dissolved Magnesium (Mg)	ug/L	60	-	4700	7800	7300	33000	27000	210	650	ND	ND	550	1200	1200	ND
Dissolved Manganese (Mn)	ug/L	4.0	-	ND	ND	ND	1900	1400	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Molybdenum (Mo)	ug/L	4.0	7300	16	8.8	7.7	ND	ND	43	51	25	34	41	44	45	12
Dissolved Nickel (Ni)	ug/L	3.0	1600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Phosphorus (P)	ug/L	100	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Potassium (K)	ug/L	600	-	8500	3600	4100	4700	4300	20000	19000	7600	7900	5500	4900	4800	20000
Dissolved Selenium (Se)	ug/L	1.0	50	1.1	5.0	3.7	ND	ND	3.0	7.2	12	9.4	9.6	5.0	5.6	4.0
Silicon (Si)	ug/L	100	-	---	---	---	8500	---	7100	---	10000	---	8500	---	---	3200
Dissolved Silver (Ag)	ug/L	0.10	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Sodium (Na)	ug/L	300	-	40000	9100	11000	280000	190000	21000	17000	56000	56000	58000	56000	55000	32000
Dissolved Strontium (Sr)	ug/L	2.0	-	280	860	1100	2400	1900	430	400	920	900	840	840	830	1100
Dissolved Thallium (Tl)	ug/L	0.80	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Tin (Sn)	ug/L	20	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Titanium (Ti)	ug/L	3.0	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Uranium (U)	ug/L	0.15	-	1.2	4.6	2.8	3.4	2.8	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Vanadium (V)	ug/L	2.0	200	14	15	14	ND	ND	36	50	2.5	ND	ND	ND	ND	6.9
Dissolved Zinc (Zn)	ug/L	5.0	1100	ND	---	ND	---	ND	---	ND	---	ND	---	ND	ND	---
Zinc (Zn)	ug/L	5.0	1100	ND	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury total (Hg)	ug/L	0.013	0.12	ND	0.016	ND	0.015	ND	ND	ND	0.027	ND	0.032	ND	ND	0.02
Sulphur (S)	ug/L	0.05	-	---	---	---	---	---	---	---	---	---	---	---	---	---

Notes:
 ug/L - micrograms per litre
 ND - non detect
 ND(1) = elevated RDL to concentration in brackets
 RDL = Reportable Detection Limit
 MOE - Ontario Ministry of Environment
 '-' - no guideline available
 '---' - sample not analyzed for parameter indicated

Exceeds MOE Site Condition Standards Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water

Table 3 "(continued)"
 Groundwater Dissolved Metals Analysis
 Harbourside Commercial Park
 Groundwater Monitoring Program

Monitor Well ID	Units	RDL	Standard MOE Table 3	SCU16-013-	SCU16-014-	SCU16-014-	SCU17-002-	SCU17-002-	SCU17-002-	SCU17-004-	SCU17-004-	SCU17-010-	SCU17-010-	SCU17-010-	SCU17-010-	
				MW	MW	MW	MW	MW	MW	MW	MWA	MWA	MWA	MWB	MWB	
Sampling Date				12-Nov-10	23-Nov-09	15-Nov-10	1-Dec-09	15-Nov-10	15-Nov-10	30-Nov-09	15-Nov-10	20-Nov-09	20-Nov-09	15-Nov-10	23-Nov-09	15-Nov-10
									FD 4				DUP B			
Dissolved Aluminum (Al)	ug/L	5.0	-	62	37	24	51	44	45	24	24	69	70	61	5.7	ND
Dissolved Antimony (Sb)	ug/L	0.40	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.78	ND	ND	ND
Dissolved Arsenic (As)	ug/L	0.60	-	2.1	8.0	25	ND	ND	ND	3.1	3.4	1.4	1.2	1.4	20	19
Dissolved Barium (Ba)	ug/L	0.40	23000	81	68	25	38	38	38	57	59	55	55	46	9.7	9.6
Dissolved Beryllium (Be)	ug/L	0.50	53	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Bismuth (Bi)	ug/L	2.0	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Boron (B)	ug/L	100	50000	ND	ND	ND	150	ND	ND	ND	ND	200	200	130	150	180
Dissolved Cadmium (Cd)	ug/L	0.017	11	ND	0.021	ND	ND	0.026	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Calcium (Ca)	ug/L	100	-	210000	61000	77000	150000	130000	140000	87000	110000	110000	120000	100000	850000	840000
Dissolved Chromium (Cr)	ug/L	1.0	2000	34	4.3	2.3	ND	ND	ND	2.3	ND	ND	ND	ND	ND	ND
Dissolved Cobalt (Co)	ug/L	1.0	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.0	2.0
Dissolved Copper (Cu)	ug/L	2.0	23	3.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Iron (Fe)	ug/L	100	-	ND	670	ND	ND	ND	ND	ND	ND	ND	ND	ND	1100	890
Dissolved Lead (Pb)	ug/L	1.0	32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Lithium (Li)	ug/L	1.0	-	42	8.6	25	68	69	71	16	17	13	14	11	42	42
Dissolved Magnesium (Mg)	ug/L	60	-	ND	10000	5300	81	510	700	ND	ND	3300	3700	3300	34000	27000
Dissolved Manganese (Mn)	ug/L	4.0	-	ND	1500	360	ND	ND	ND	ND	ND	ND	ND	ND	380	320
Dissolved Molybdenum (Mo)	ug/L	4.0	7300	11	31	37	25	12	13	ND	5.5	20	20	13	ND	ND
Dissolved Nickel (Ni)	ug/L	3.0	1600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Phosphorus (P)	ug/L	100	-	ND	ND	120	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Potassium (K)	ug/L	600	-	20000	17000	22000	14000	13000	13000	5400	8300	8300	8800	9000	8400	8000
Dissolved Selenium (Se)	ug/L	1.0	50	4.1	1.1	1.9	10	16	18	5.4	8.9	1.8	1.2	2.9	ND	ND
Silicon (Si)	ug/L	100	-	---	2700	---	2000	---	---	6400	---	3900	4000	---	11000	---
Dissolved Silver (Ag)	ug/L	0.10	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Sodium (Na)	ug/L	300	-	60000	60000	53000	44000	48000	52000	22000	30000	72000	79000	66000	550000	480000
Dissolved Strontium (Sr)	ug/L	2.0	-	1100	440	560	620	620	650	320	460	490	510	450	24000	22000
Dissolved Thallium (Tl)	ug/L	0.80	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Tin (Sn)	ug/L	20	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Titanium (Ti)	ug/L	3.0	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Uranium (U)	ug/L	0.15	-	ND	ND	ND	ND	ND	ND	ND	ND	0.27	0.29	0.18	3.5	2.7
Dissolved Vanadium (V)	ug/L	2.0	200	5.6	ND	23	ND	ND	ND	14	15	4.7	3.9	3.0	ND	ND
Dissolved Zinc (Zn)	ug/L	5.0	1100	ND	---	ND	---	ND	ND	---	ND	---	---	ND	---	ND
Zinc (Zn)	ug/L	5.0	1100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury total (Hg)	ug/L	0.013	0.12	ND	ND	ND	ND	ND	ND	0.022	ND	0.120	0.13	ND	ND	ND
Sulphur (S)	ug/L	0.05	-	---	---	---	---	---	---	---	---	---	---	---	---	---

Notes:
 ug/L - micrograms per litre
 ND - non detect
 ND(1) = elevated RDL to concentration in brackets
 RDL = Reportable Detection Limit
 MOE - Ontario Ministry of Environment
 '-' - no guideline available
 '---' - sample not analyzed for parameter indicated

Exceeds MOE Site Condition Standards Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water

Table 3 "(continued)"
 Groundwater Dissolved Metals Analysis
 Harbourside Commercial Park
 Groundwater Monitoring Program

Monitor Well ID	Units	RDL	Standard MOE Table 3	SCU17-010	SCU17-010	SCU17-010	SCU17-012	SCU17-014	SCU17-014	SCU18-001	SCU18-001	SCU18-002	SCU18-002	SCU18-005	SCU18-005	SCU18-007
				MWC	MWC	MWC	MW	MW	MW	MWA	MW	MWA	MW	MWA	MWA-Dup	MW
Sampling Date				23-Nov-09	15-Nov-10	15-Nov-10 FD 3	19-Nov-10	23-Nov-09	15-Nov-10	9-Sep-10	12-Nov-10	9-Sep-10	12-Nov-10	9-Sep-10	9-Sep-10	23-Nov-09
Dissolved Aluminum (Al)	ug/L	5.0	-	6.8	5.5	ND	23	1000	1000	6.2	9.2	11	6.8	15	17	7.9
Dissolved Antimony (Sb)	ug/L	0.40	-	ND	ND	ND	1.3	ND	ND	ND	ND	ND	ND	1.2	1.2	ND
Dissolved Arsenic (As)	ug/L	0.60	-	12	9.3	9.2	1.3	9.5	8.5	3.8	4.3	0.65	0.87	16	16	1.8
Dissolved Barium (Ba)	ug/L	0.40	23000	15	13	13	22	47	48	18	18	17	17	33	34	42
Dissolved Beryllium (Be)	ug/L	0.50	53	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Bismuth (Bi)	ug/L	2.0	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Boron (B)	ug/L	100	50000	490	530	440	ND	150	120	ND	100	ND	ND	140	140	200
Dissolved Cadmium (Cd)	ug/L	0.017	11	ND	ND	ND	0.058	ND	ND	0.058	0.031	ND	ND	ND	ND	ND
Dissolved Calcium (Ca)	ug/L	100	-	1100000	1100000	1100000	42000	30000	35000	390000	430000	190000	200000	100000	100000	67000
Dissolved Chromium (Cr)	ug/L	1.0	2000	ND	ND	ND	ND	5.0	ND	ND	ND	ND	ND	ND	ND	7.7
Dissolved Cobalt (Co)	ug/L	1.0	100	2.2	2.4	2.3	ND	ND	ND	2.4	2.3	ND	ND	ND	ND	ND
Dissolved Copper (Cu)	ug/L	2.0	23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Iron (Fe)	ug/L	100	-	1400	760	860	ND	ND	ND	1700	1500	ND	ND	ND	<100	ND
Dissolved Lead (Pb)	ug/L	1.0	32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Lithium (Li)	ug/L	1.0	-	86	94	91	21	9.6	11	38	38	12	13	20	20	8.9
Dissolved Magnesium (Mg)	ug/L	60	-	67000	61000	62000	11000	ND	ND	57000	61000	24000	26000	3400	3400	17000
Dissolved Manganese (Mn)	ug/L	4.0	-	640	620	630	42	ND	ND	10000	11000	1200	1200	200	260	ND
Dissolved Molybdenum (Mo)	ug/L	4.0	7300	5.5	5.1	5.5	ND	18	19	ND	ND	ND	ND	27	27	4.3
Dissolved Nickel (Ni)	ug/L	3.0	1600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Phosphorus (P)	ug/L	100	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Potassium (K)	ug/L	600	-	17000	16000	17000	5600	18000	20000	6000	6700	2600	2800	19000	19000	3900
Dissolved Selenium (Se)	ug/L	1.0	50	ND	ND	ND	2.0	5.1	5.6	ND	ND	ND	ND	ND	1.2	2.2
Silicon (Si)	ug/L	100	-	7500	---	---	---	16000	---	---	---	---	---	---	---	5200
Dissolved Silver (Ag)	ug/L	0.10	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Sodium (Na)	ug/L	300	-	330000	290000	280000	6800	180000	170000	47000	56000	38000	42000	35000	36000	19000
Dissolved Strontium (Sr)	ug/L	2.0	-	29000	29000	29000	150	230	260	11000	11000	3700	3800	440	440	200
Dissolved Thallium (Tl)	ug/L	0.80	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Tin (Sn)	ug/L	20	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Titanium (Ti)	ug/L	3.0	-	4.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Uranium (U)	ug/L	0.15	-	0.42	0.31	0.35	0.60	ND	ND	1.6	1.4	1.3	1.1	0.87	0.87	2.0
Dissolved Vanadium (V)	ug/L	2.0	200	ND	ND	ND	ND	15	14	ND	ND	ND	ND	10	10	10
Dissolved Zinc (Zn)	ug/L	5.0	1100	---	ND	ND	6.6	---	ND	---	ND	---	ND	---	---	---
Zinc (Zn)	ug/L	5.0	1100	ND	ND	ND	---	11	ND	ND	ND	ND	ND	ND	ND	ND
Mercury total (Hg)	ug/L	0.013	0.12	ND	ND	ND	ND	0.025	ND	---	ND	---	ND	---	---	0.025
Sulphur (S)	ug/L	0.05	-	---	---	---	---	---	---	---	---	---	---	---	---	---

Notes:
 ug/L - micrograms per litre
 ND - non detect
 ND(1) = elevated RDL to concentration in brackets
 RDL = Reportable Detection Limit
 MOE - Ontario Ministry of Environment
 '-' - no guideline available
 '---' - sample not analyzed for parameter indicated

Exceeds MOE Site Condition Standards Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water

Table 3 "(continued)"
 Groundwater Dissolved Metals Analysis
 Harbourside Commercial Park
 Groundwater Monitoring Program

Monitor Well ID	Units	RDL	Standard MOE Table 3	SCU18-007-	SCU18-009-	SCU18-009-	SCU18-009-	SCU18-009-	SCU18-010-	SCU18-011-	SCU18-010-	SCU18-011-	SCU18-011-	SCU19-002-	SCU19-002-	SCU19-015-
				MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MWA
Sampling Date				19-Nov-10	4-Dec-09	4-Dec-09 DUP E	19-Nov-10	19-Nov-10 FD 7	7-Sep-10	7-Sep-10	17-Nov-10	17-Nov-10	17-Nov-10 FD 5	18-Nov-10	18-Nov-10	18-Nov-10
Dissolved Aluminum (Al)	ug/L	5.0	-	30	53	20	23	29	40	36	33	16	17	ND	ND	14
Dissolved Antimony (Sb)	ug/L	0.40	-	3.4	ND	2.9	0.87	1.2	1.1	ND	ND	ND	ND	ND	ND	ND
Dissolved Arsenic (As)	ug/L	0.60	-	1.9	ND	3.4	4.0	4.0	7.5	3.5	6.5	3.4	3.5	ND	ND	1.4
Dissolved Barium (Ba)	ug/L	0.40	23000	48	75	48	57	59	26	25	33	22	22	130	63	58
Dissolved Beryllium (Be)	ug/L	0.50	53	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Bismuth (Bi)	ug/L	2.0	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Boron (B)	ug/L	100	50000	200	ND	140	110	110	ND	230	ND	180	170	ND	ND	460
Dissolved Cadmium (Cd)	ug/L	0.017	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.025
Dissolved Calcium (Ca)	ug/L	100	-	71000	190000	76000	82000	82000	170000	160000	250000	150000	150000	450000	1400000	320000
Dissolved Chromium (Cr)	ug/L	1.0	2000	8.6	ND	ND	ND	ND	ND	ND	1.7	ND	ND	ND	ND	ND
Dissolved Cobalt (Co)	ug/L	1.0	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Copper (Cu)	ug/L	2.0	23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Iron (Fe)	ug/L	100	-	ND	ND	ND	ND	ND	ND	1300	120	1300	1300	ND	1200	ND
Dissolved Lead (Pb)	ug/L	1.0	32	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Lithium (Li)	ug/L	1.0	-	13	52	10	13	13	6.4	76	9.8	71	74	94	110	120
Dissolved Magnesium (Mg)	ug/L	60	-	16000	65000	11000	11000	11000	240	39000	880	39000	36000	190000	180000	10000
Dissolved Manganese (Mn)	ug/L	4.0	-	ND	ND	82	100	110	ND	350	ND	330	330	85	630	71
Dissolved Molybdenum (Mo)	ug/L	4.0	7300	5.4	31	7.9	6.1	6.0	29	9.3	28	8.9	9.1	ND	ND	ND
Dissolved Nickel (Ni)	ug/L	3.0	1600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Phosphorus (P)	ug/L	100	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Potassium (K)	ug/L	600	-	5200	14000	7400	8400	8700	12000	10000	11000	9800	9400	62000	20000	36000
Dissolved Selenium (Se)	ug/L	1.0	50	1.5	6.2	ND	6.0	6.1	3.6	ND	9.8	1.4	2.2	ND	ND	4.2
Silicon (Si)	ug/L	100	-	---	1400	10000	---	---	---	---	---	---	---	---	---	---
Dissolved Silver (Ag)	ug/L	0.10	1.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Sodium (Na)	ug/L	300	-	31000	66000	41000	47000	47000	38000	20000	23000	17000	17000	1600000	310000	53000
Dissolved Strontium (Sr)	ug/L	2.0	-	250	780	600	670	710	740	520	1000	560	540	18000	150000	1600
Dissolved Thallium (Tl)	ug/L	0.80	400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Tin (Sn)	ug/L	20	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Titanium (Ti)	ug/L	3.0	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dissolved Uranium (U)	ug/L	0.15	-	3.4	ND	2.4	1.7	1.7	ND	0.43	ND	ND	ND	ND	ND	6.6
Dissolved Vanadium (V)	ug/L	2.0	200	12	3.3	5.1	ND	ND	98	ND	130	ND	ND	ND	ND	5.3
Dissolved Zinc (Zn)	ug/L	5.0	1100	ND	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc (Zn)	ug/L	5.0	1100	---	ND	ND	---	---	---	---	---	ND	ND	---	---	---
Mercury total (Hg)	ug/L	0.013	0.12	ND	0.015	0.024	ND	ND	---	---	0.025	ND	ND	ND	ND	ND
Sulphur (S)	ug/L	0.05	-	---	---	---	---	---	---	---	---	---	---	---	---	---

Notes:
 ug/L - micrograms per litre
 ND - non detect
 ND(1) = elevated RDL to concentration in brackets
 RDL = Reportable Detection Limit
 MOE - Ontario Ministry of Environment
 '-' - no guideline available
 '---' - sample not analyzed for parameter indicated

Exceeds MOE Site Condition Standards Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water

Table 3 "(continued)"
 Groundwater Dissolved Metals Analysis
 Harbourside Commercial Park
 Groundwater Monitoring Program

Monitor Well ID	Units	RDL	Standard MOE Table 3	SCU19-016	SCU20-013	SCU20-013	SCU20-014	SCU20-014	SCU20-015	SCU20-015	SCU20-016	SCU20-016	SCU20-017	SCU20-017	SCU20-018	SCU20-018
				MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW
Sampling Date				18-Nov-10	3-Sep-10	17-Nov-10	3-Sep-10	17-Nov-10	3-Sep-10	17-Nov-10	7-Sep-10	17-Nov-10	7-Sep-10	17-Nov-10	7-Sep-10	17-Nov-10
Dissolved Aluminum (Al)	ug/L	5.0	-	7.9	220	170	60	85	31	24	130	26	180	230	ND(50)	14
Dissolved Antimony (Sb)	ug/L	0.40	-	ND	5.3	ND	0.63	ND	0.54	ND	ND	ND	ND	ND	ND(4.0)	ND
Dissolved Arsenic (As)	ug/L	0.60	-	ND	14	11	7.9	9.2	11	13	5.8	6.4	4.6	6.4	ND(6.0)	2.4
Dissolved Barium (Ba)	ug/L	0.40	23000	45	77	87	27	34	28	20	42	30	62	59	38	37
Dissolved Beryllium (Be)	ug/L	0.50	53	ND	ND(5.0)	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.0	ND
Dissolved Bismuth (Bi)	ug/L	2.0	-	ND	ND (20)	ND	ND	ND	ND	ND	ND	ND	ND	ND	20	ND
Dissolved Boron (B)	ug/L	100	50000	540	ND(1000)	ND	ND	110	ND	ND	ND	130	ND	ND	1000	ND
Dissolved Cadmium (Cd)	ug/L	0.017	11	0.020	0.29	0.19	ND	ND	ND	ND	ND	0.024	ND	ND	0.17	ND
Dissolved Calcium (Ca)	ug/L	100	-	170000	160000	140000	170000	160000	320000	280000	200000	130000	160000	160000	330000	290000
Dissolved Chromium (Cr)	ug/L	1.0	2000	1.7	ND(10)	ND	ND	ND	ND	ND	ND	ND	ND	3.1	ND(10)	ND
Dissolved Cobalt (Co)	ug/L	1.0	100	ND	ND(10)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND(10)	ND
Dissolved Copper (Cu)	ug/L	2.0	23	ND	ND (20)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND (20)	ND
Dissolved Iron (Fe)	ug/L	100	-	ND	ND(1000)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND(1000)	ND
Dissolved Lead (Pb)	ug/L	1.0	32	ND	ND(10)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND(10)	ND
Dissolved Lithium (Li)	ug/L	1.0	-	43	ND(10)	3.2	3.3	3.3	4.8	3.6	14	25	20	15	22	24
Dissolved Magnesium (Mg)	ug/L	60	-	5600	ND(600)	ND	ND	ND	520	440	280	2800	ND	ND	13000	21000
Dissolved Manganese (Mn)	ug/L	4.0	-	ND	ND(40)	ND	ND	ND	9.5	15	ND	4.3	ND	ND	ND(40)	46
Dissolved Molybdenum (Mo)	ug/L	4.0	7300	11	85	30	54	63	43	49	66	53	6.9	30	ND(40)	6.9
Dissolved Nickel (Ni)	ug/L	3.0	1600	ND	46	40	22	23	7.4	3.3	46	38	6.3	8.6	ND(30)	ND
Dissolved Phosphorus (P)	ug/L	100	-	ND	ND(1000)	ND	200	240	ND	ND	ND	ND	ND	ND	ND(1000)	ND
Dissolved Potassium (K)	ug/L	600	-	16000	41000	40000	15000	20000	15000	14000	32000	24000	11000	13000	7700	6000
Dissolved Selenium (Se)	ug/L	1.0	50	3.1	ND(10)	9.1	2.2	11	ND	1.1	3.0	3.4	5.0	14	ND(10)	4.3
Silicon (Si)	ug/L	100	-	---	---	---	---	---	---	---	---	---	---	---	---	---
Dissolved Silver (Ag)	ug/L	0.10	1.2	ND	ND(1.0)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND(1.0)	ND
Dissolved Sodium (Na)	ug/L	300	-	150000	310000	190000	56000	58000	58000	50000	67000	39000	27000	32000	13000	10000
Dissolved Strontium (Sr)	ug/L	2.0	-	2600	1800	1800	470	530	770	690	950	730	890	820	1100	1700
Dissolved Thallium (Tl)	ug/L	0.80	400	ND	ND(8.0)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND(8.0)	ND
Dissolved Tin (Sn)	ug/L	20	-	ND	ND(200)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND(200)	ND
Dissolved Titanium (Ti)	ug/L	3.0	-	ND	ND (30)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND (30)	ND
Dissolved Uranium (U)	ug/L	0.15	-	ND	ND(1.5)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND(1.5)	1.7
Dissolved Vanadium (V)	ug/L	2.0	200	ND	46	46	8.1	7.3	59	5.8	2.2	11	4.2	3.1	ND (20)	10
Dissolved Zinc (Zn)	ug/L	5.0	1100	ND	ND(50)	ND	ND	ND	ND	ND	ND	6.0	ND	ND	ND	ND
Zinc (Zn)	ug/L	5.0	1100	---	---	---	---	ND	---	ND	---	ND	---	ND	---	---
Mercury total (Hg)	ug/L	0.013	0.12	ND	---	0.026	---	0.071	---	ND	---	ND	---	ND	---	ND
Sulphur (S)	ug/L	0.05	-	---	---	---	---	---	---	---	---	---	---	---	---	---

Notes:
 ug/L - micrograms per litre
 ND - non detect
 ND(1) = elevated RDL to concentration in brackets
 RDL = Reportable Detection Limit
 MOE - Ontario Ministry of Environment
 '-' - no guideline available
 '---' - sample not analyzed for parameter indicated

Exceeds MOE Site Condition Standards Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water

Table 3 "(continued)"
 Groundwater Dissolved Metals Analysis
 Harbourside Commercial Park
 Groundwater Monitoring Program

Monitor Well ID	Units	RDL	Standard MOE Table 3	SCU24-001-	SCU24-003-	SCU24-003-	SCU24-003-	SCU24-007-	SCU24-007-	SCU24-007-	SCU24-007-	SCU24-007-	SCU24-007-	SCU24-008-	SCU24-010-	SCU24-012-	
				MW	MW	MW	MW	MWB	MWB	MWB	MWB	MWB	MWB	MWB	MWB	MW	MW
Sampling Date				25-Nov-08	25-Nov-08	25-Nov-08	27-Nov-09	20-Jan-04	25-Apr-07	27-Nov-09	27-Nov-09	27-Nov-09	18-Nov-10	18-Nov-10	25-Nov-08	25-Nov-08	25-Nov-09
												DUP D		FD 6			
Dissolved Aluminum (Al)	ug/L	5.0	-	ND	130	7.6	32	19	ND(50)	ND	5.8	13	16	55	130	23	
Dissolved Antimony (Sb)	ug/L	0.40	-	ND	0.43	ND	ND	0.7	9.3	ND	0.48	ND	ND	1.8	0.43	0.54	
Dissolved Arsenic (As)	ug/L	0.60	-	10	ND	ND	ND	1.6	ND(6)	6.3	4.7	14	14	3.4	ND	5.2	
Dissolved Barium (Ba)	ug/L	0.40	23000	10	130	170	120	8.5	19	11	13	9.8	9.7	38	130	27	
Dissolved Beryllium (Be)	ug/L	0.50	53	ND	ND	ND	ND	ND	ND(5)	ND	ND	ND	ND	ND	ND	ND	
Dissolved Bismuth (Bi)	ug/L	2.0	-	ND	ND	ND	ND	---	---	ND	ND	ND	ND	ND	ND	ND	
Dissolved Boron (B)	ug/L	100	50000	ND	ND	ND	ND	120	ND(1000)	200	230	150	170	ND	ND	130	
Dissolved Cadmium (Cd)	ug/L	0.017	11	ND	ND	ND	ND	0.095	2.2	ND	0.027	ND	ND	ND	ND	ND	
Dissolved Calcium (Ca)	ug/L	100	-	1200000	250000	370000	330000	1520000	1000000	840000	830000	820000	840000	140000	250000	430000	
Dissolved Chromium (Cr)	ug/L	1.0	2000	ND	ND	ND	4.5	11	ND(10)	ND	ND	ND	3.0	ND	ND	ND	
Dissolved Cobalt (Co)	ug/L	1.0	100	ND	ND	ND	ND	5	ND(10)	1.2	1.2	1.6	1.7	ND	ND	ND	
Dissolved Copper (Cu)	ug/L	2.0	23	ND	ND	ND	ND	7	ND(20)	ND	ND	ND	ND	ND	ND	ND	
Dissolved Iron (Fe)	ug/L	100	-	2200	ND	ND	ND	310	2600	1800	1600	1400	1700	ND	ND	3300	
Dissolved Lead (Pb)	ug/L	1.0	32	ND	ND	2.0	1.6	ND	ND(10)	ND	ND	ND	ND	ND	ND	ND	
Dissolved Lithium (Li)	ug/L	1.0	-	57	48	55	51	41	58	59	61	56	56	100	48	73	
Dissolved Magnesium (Mg)	ug/L	60	-	91000	200	100	160	160000	63000	53000	51000	48000	50000	13000	200	110000	
Dissolved Manganese (Mn)	ug/L	4.0	-	570	ND	ND	9.1	658	660	510	510	490	490	16	ND	360	
Dissolved Molybdenum (Mo)	ug/L	4.0	7300	ND	6.6	8.8	6.9	ND	ND(40)	ND	ND	ND	ND	30	6.6	ND	
Dissolved Nickel (Ni)	ug/L	3.0	1600	ND	ND	ND	ND	53	ND(30)	ND	ND	ND	ND	ND	ND	ND	
Dissolved Phosphorus (P)	ug/L	100	-	ND	ND	ND	ND	4410	ND(1000)	ND	ND	ND	ND	ND	ND	ND	
Dissolved Potassium (K)	ug/L	600	-	18000	13000	18000	12000	13400	ND(1000)	8700	8800	8300	8600	71000	13000	6800	
Dissolved Selenium (Se)	ug/L	1.0	50	ND	5.0	ND	ND	ND	34	ND	ND	ND	2.1	6.3	5.0	ND	
Silicon (Si)	ug/L	100	-	---	---	---	1000	---	---	7700	7600	---	---	---	---	15000	
Dissolved Silver (Ag)	ug/L	0.10	1.2	ND	ND	ND	ND	0.3	ND(1)	ND	ND	0.21	ND	ND	ND	ND	
Dissolved Sodium (Na)	ug/L	300	-	800000	62000	90000	56000	504000	670000	610000	620000	570000	570000	420000	62000	48000	
Dissolved Strontium (Sr)	ug/L	2.0	-	25000	770	730	730	57200	27000	23000	23000	24000	24000	480	770	400	
Dissolved Thallium (Tl)	ug/L	0.80	400	ND	ND	ND	ND	ND	ND(8)	ND	ND	ND	ND	ND	ND	ND	
Dissolved Tin (Sn)	ug/L	20	-	ND	<20	ND	ND	ND	ND(200)	ND	ND	ND	ND	ND	ND	ND	
Dissolved Titanium (Ti)	ug/L	3.0	-	ND	ND	ND	ND	100	ND(30)	ND	ND	ND	ND	ND	ND	ND	
Dissolved Uranium (U)	ug/L	0.15	-	1.1	ND	ND	ND	1.01	3.4	0.86	0.68	1.3	1.3	ND	ND	0.66	
Dissolved Vanadium (V)	ug/L	2.0	200	ND	10	15	13	ND	ND(20)	ND	ND	ND	ND	110	10	5.7	
Dissolved Zinc (Zn)	ug/L	5.0	1100	ND	ND	ND	---	---	ND(20)	---	---	ND	ND	ND	ND	---	
Zinc (Zn)	ug/L	5.0	1100	---	---	---	ND	9	---	ND	ND	---	---	---	---	ND	
Mercury total (Hg)	ug/L	0.013	0.12	ND	ND	ND	0.03	0.2	---	0.016	0.02	ND	ND	0.01	ND	0.024	
Sulphur (S)	ug/L	0.05	-	640000	54000	190000	---	542000	550000	---	---	---	---	81000	54000	---	

Notes:
 ug/L - micrograms per litre
 ND - non detect
 ND(1) = elevated RDL to concentration in brackets
 RDL = Reportable Detection Limit
 MOE - Ontario Ministry of Environment
 '-' - no guideline available
 '---' - sample not analyzed for parameter indicated

Exceeds MOE Site Condition Standards Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water

TABLE 4 "(continued)"
Groundwater VOCs Analysis
Harbourside Commercial Park
Groundwater Monitoring Program

Monitor Well ID		RDL	Standard MOE Table 3	SCU7-006-MWA	SCU10-001-MW	SCU10-001-MW	SCU10-001-MW	SCU10-001-MW	SCU10-001-MW	SCU10-001-MW	SCU11-004-MWB	SCU11-004-MWB	SCU12-001-MW	SCU12-001-MW
Sampling Date	Units			17-Sep-04	17-Sep-03	8-Jul-05	19-Nov-08	17-Nov-09	10-Nov-10	24-Nov-09	8-Nov-10	16-Sep-03	21-Nov-08	
Chlorobenzenes														
1,2-Dichlorobenzene	ug/L	0.5	7600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND(1)	ND
1,3-Dichlorobenzene	ug/L	1	7600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ug/L	1	7600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ug/L	1	500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Volatile Organics														
1,1,1-Trichloroethane	ug/L	1	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ug/L	1	22	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ug/L	1	16000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ug/L	2	9000	ND	7.8	5	3	2	2	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ug/L	0.5	0.66	ND	---	---	ND	ND	ND	ND	ND	ND	ND(2)	ND
1,2-Dichloroethane	ug/L	1	17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ug/L	1	9.3	ND	ND	---	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ug/L	1	6.9	35	ND	1	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ug/L	1	50000	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.9	ND
Bromoform	ug/L	1	840	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ug/L	3	3.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND(8)	ND
Carbon Tetrachloride	ug/L	1	17	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ug/L	8	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ug/L	1	430	ND	ND	ND	ND	ND	ND	ND	ND	ND	38	ND
Chloromethane	ug/L	8	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	ug/L	2	70	---	88	90	83	79	80	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ug/L	2	-	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ug/L	1	50000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ug/L	1	20	42	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylene Dibromide	ug/L	1	-	---	---	---	ND	ND	ND	ND	ND	ND	---	ND
Methylene Chloride(Dichloromethane)	ug/L	3	-	ND	---	ND	ND	ND	ND	ND	ND	ND	---	ND
o-Xylene	ug/L	1	-	46	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p+m-Xylene	ug/L	2	-	68	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	ug/L	1	940	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	ug/L	1	5	ND	2.7	2	2	1	2	ND	ND	ND	ND	ND
Toluene	ug/L	1	20	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethylene	ug/L	2	100	ND	---	---	3	2	4	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ug/L	1	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	ug/L	1	50	ND	5.9	4	4	3	3	ND	ND	ND	ND	ND
Trichlorofluoromethane (FREON 11)	ug/L	8	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ug/L	0.5	0.5	ND	2.3	8	8	5.7	9.0	ND	ND	ND	ND(1)	ND

Notes:

- ug/L - micrograms per litre
- ND - non detect
- ND(1) = elevated RDL to concentration in brackets
- RDL = Reportable Detection Limit
- MOE - Ontario Ministry of Environment
- '-' - no guideline available
- '---' - sample not analyzed for parameter indicated
- Exceeds MOE Site Condition Standards Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water**

TABLE 4 "(continued)"
Groundwater VOCs Analysis
Harbourside Commercial Park
Groundwater Monitoring Program

Monitor Well ID		RDL	Standard MOE Table 3	SCU12-001-MW	SCU12-001-MW	SCU12-003-MW	SCU24-003-MW	SCU24-003-MW	SCU24-012-MW	SCU24-013-MW	SCU25-003-MW	FIELD BLANK	TRIP BLANK
Sampling Date	Units			24-Nov-09	16-Nov-10	16-Sep-03	25-Nov-08	27-Nov-09	25-Nov-09	18-Nov-10	25-Jul-07	21-Nov-08	21-Nov-08
Chlorobenzenes													
1,2-Dichlorobenzene	ug/L	0.5	7600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	ug/L	1	7600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ug/L	1	7600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ug/L	1	500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Volatile Organics													
1,1,1-Trichloroethane	ug/L	1	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ug/L	1	22	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ug/L	1	16000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ug/L	2	9000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ug/L	0.5	0.66	ND	ND	---	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ug/L	1	17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	ug/L	1	9.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ug/L	1	6.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	ug/L	1	50000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	ug/L	1	840	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	ug/L	3	3.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ug/L	1	17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ug/L	8	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ug/L	1	430	ND	ND	ND	10	3	ND	ND	3	ND	ND
Chloromethane	ug/L	8	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethylene	ug/L	2	70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ug/L	2	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	ug/L	1	50000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ug/L	1	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylene Dibromide	ug/L	1	-	ND	ND	ND	ND	ND	ND	ND	---	ND	ND
Methylene Chloride(Dichloromethane)	ug/L	3	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	ug/L	1	-	ND	ND	ND	ND	ND	ND	ND	1	ND	ND
p+m-Xylene	ug/L	2	-	ND	ND	ND	ND	ND	ND	ND	3	ND	ND
Styrene	ug/L	1	940	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	ug/L	1	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ug/L	1	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethylene	ug/L	2	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ug/L	1	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene	ug/L	1	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (FREON 11)	ug/L	8	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ug/L	0.5	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

- ug/L - micrograms per litre
- ND - non detect
- ND(1) = elevated RDL to concentration in brackets
- RDL = Reportable Detection Limit
- MOE - Ontario Ministry of Environment
- '-' - no guideline available
- '---' - sample not analyzed for parameter indicated
- Exceeds MOE Site Condition Standards Table 3: Full Depth Generic Site Condition Standards in a Non-Potable Ground Water**

Table 5 "(continued)"
Groundwater General Chemistry Analysis
Harbourside Commercial Park
Groundwater Monitoring Program

Monitor Well ID Sampling Date	Units	RDL	HC CDWQG (MAC)	HC CDWQG (AO)	Standard MOE Table 3	SCU11-004-	SCU12-003-	SCU13-003-	SCU15-013-	SCU16-004-	SCU16-004-	SCU16-004-	SCU18-001-	SCU18-002-
						MWB 1-Jun-04	MW 16-Sep-03	MW 9-Jan-07	MW 5-Jan-07	MW 17-Sep-04	MW 20-Nov-09	MW 11-Nov-10	MWA 9-Sep-10	MWA 9-Sep-10
Calculated Parameters														
Anion Sum	me/L	N/A	-	-	-	---	---	---	---	---	6.80	7.75	29.2	13.9
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	1	-	-	-	---	---	---	---	---	81	74	264	149
Calculated TDS	mg/L	1	-	-	-	---	---	---	---	---	459	524	1810	864
Carb. Alkalinity (calc. as CaCO3)	mg/L	1	-	-	-	---	---	---	---	---	<1	ND	ND	ND
Cation Sum	me/L	N/A	-	-	-	---	---	---	---	---	6.50	7.32	26.5	13.1
Hardness (CaCO3)	mg/L	1	-	-	-	---	---	---	---	---	300	340	1200	570
Ion Balance (% Difference)	%	N/A	-	-	-	---	---	---	---	---	2.26	2.85	4.71	2.86
Langelier Index (@ 20C)	N/A	-	-	-	-	---	---	---	---	---	0.581	0.587	0.580	0.419
Langelier Index (@ 4C)	N/A	-	-	-	-	---	---	---	---	---	0.333	0.339	0.336	0.172
Saturation pH (@ 20C)	N/A	-	-	-	-	---	---	---	---	---	7.52	7.51	6.62	7.08
Saturation pH (@ 4C)	N/A	-	-	-	-	---	---	---	---	---	7.77	7.76	6.86	7.33
Inorganics														
Alkalinity (Total as CaCO3)	mg/L	5	-	-	-	196	55	29	150	178	82	75	260	150
Chloride (Cl)	mg/L	1	-	250	-	51	112	16	16	26	9	9	57	42
Colour	TCU	5	-	15	-	110	118	5	ND	256	<5	ND	ND	ND
Nitrate (N)	mg/L	0.05	45	-	-	---	---	---	---	---	0.37	0.45	ND	0.06
Nitrite (N)	mg/L	0.01	3.2	-	2.0	---	---	---	---	---	<0.06	ND	ND	ND
Nitrite + Nitrate	mg/L	0.05	-	-	-	ND	0.1	0.14	1.7	ND	0.37	0.45	ND	0.06
Nitrogen (Ammonia Nitrogen)	mg/L	0.05	-	-	-	ND	---	0.05	0.06	ND	<0.05	ND	0.28	ND
Total Organic Carbon (C)	mg/L	0.5	-	-	-	1.7	3.8	2.6	3	17	2.1	1.4	ND	ND
Orthophosphate (P)	mg/L	0.01	-	-	-	ND	---	---	---	ND	<0.3	0.01	0.01	ND
pH	pH	N/A	-	6.5-8.5	-	7.9	8.4	9.5	7.2	7.6	8.10	8.10	7.20	7.50
Silica (SiO2)	mg/L	0.1	-	-	-	---	---	---	---	---	33	33	13	11
Sulphate (SO4)	mg/L	10	-	500	-	78	72	310	270	124	230	230	1100	470
Turbidity	NTU	0.1	-	0.3/1.0/0.1	-	97	24	1.7	160	ND	85	85	20	0.4
Conductivity	uS/cm	1	-	-	-	611	645	760	850	613	680	680	2300	1200

Notes:

- mg/L - milligrams per litre
- me/L - milligram equivalents per liter
- % - Percent
- TCU - True Colour Unit
- NTU - Nephelometric Turbidity Units
- uS/cm - microsiemens/centimeter
- ND - non detect
- ND(1) = elevated RDL to concentration in brackets
- RDL = Reportable Detection Limit
- HC CDWQG- Health Canada's Canadian Drinking Water Quality Guidelines, May 2008
- MAC - Maximum Acceptable Concentration
- AO - Aesthetic Objective
- MOE - Ontario Ministry of Environment
- '-' - no guideline available
- '---' - sample not analyzed for parameter indicated

Exceeds HC CDWQG (AO)

Table 5 "(continued)"
Groundwater General Chemistry Analysis
Harbourside Commercial Park
Groundwater Monitoring Program

Monitor Well ID Sampling Date	Units	RDL	HC CDWQG (MAC)	HC CDWQG (AO)	Standard MOE Table 3	SCU18-005- MWA	SCU18-005- MWA-DUP	SCU18-010- MW	SCU18-011- MW	SCU20-013- MW	SCU20-014- MW	SCU20-015- MW	SCU20-016- MW
						9-Sep-10	9-Sep-10	7-Sep-10	7-Sep-10	3-Sep-10	3-Sep-10	3-Sep-10	7-Sep-10
Calculated Parameters													
Anion Sum	me/L	N/A	-	-	-	7.97	8.01	11.5	13.6	19.3	11.6	21.7	14.2
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	1	-	-	-	45	47	24	78	5	31	16	7
Calculated TDS	mg/L	1	-	-	-	526	534	770	851	1230	790	1410	915
Carb. Alkalinity (calc. as CaCO3)	mg/L	1	-	-	-	ND	ND	28	ND	136	9	15	54
Cation Sum	me/L	N/A	-	-	-	7.34	7.59	10.5	12.3	22.8	11.3	19.1	13.8
Hardness (CaCO3)	mg/L	1	-	-	-	270	280	420	550	390	420	810	490
Ion Balance (% Difference)	%	N/A	-	-	-	4.11	2.69	4.69	4.99	8.26	1.22	6.52	1.36
Langelier Index (@ 20C)	N/A	-	-	-	-	0.0860	0.116	2.19	0.662	2.78	1.69	2.11	2.51
Langelier Index (@ 4C)	N/A	-	-	-	-	-0.162	-0.132	1.94	0.415	2.53	1.44	1.87	2.27
Saturation pH (@ 20C)	N/A	-	-	-	-	7.81	7.78	7.91	7.44	8.72	7.81	7.89	8.39
Saturation pH (@ 4C)	N/A	-	-	-	-	8.06	8.03	8.16	7.69	8.97	8.06	8.13	8.63
Inorganics													
Alkalinity (Total as CaCO3)	mg/L	5	-	-	-	45	47	58	79	300	41	36	100
Chloride (Cl)	mg/L	1	-	250	-	49	50	51	27	330	110	88	110
Colour	TCU	5	-	15	-	ND	6	13	ND	36	22	7	19
Nitrate (N)	mg/L	0.05	45	-	-	0.20	0.20	0.06	ND	ND	0.07	0.07	ND
Nitrite (N)	mg/L	0.01	3.2	-	2.0	ND	ND	0.06	ND	ND	ND	ND	ND
Nitrite + Nitrate	mg/L	0.05	-	-	-	0.20	0.20	0.12	ND	ND	0.07	0.07	ND
Nitrogen (Ammonia Nitrogen)	mg/L	0.05	-	-	-	0.09	0.10	1.0	0.81	7.3	2.0	0.50	3.3
Total Organic Carbon (C)	mg/L	0.5	-	-	-	4.4	4.3	6.0	3.5	38	8.9	5.6	15
Orthophosphate (P)	mg/L	0.01	-	-	-	0.03	0.03	ND	ND	ND	0.01	0.01	ND
pH	pH	N/A	-	6.5-8.5	-	7.90	7.90	10.1	8.10	11.5	9.50	10.0	10.9
Silica (SiO2)	mg/L	0.1	-	-	-	18	19	36	7.0	11	46	12	12
Sulphate (SO4)	mg/L	10	-	500	-	270	270	430	540	190	370	890	430
Turbidity	NTU	0.1	-	0.3/1.0/0.1	-	3.4	2.9	ND	13	10	5.1	0.8	4.7
Conductivity	uS/cm	1	-	-	-	840	850	1100	1200	2600	1100	1800	1400

Notes:

mg/L - milligrams per litre

me/L - milligram equivalents per liter

% - Percent

TCU - True Colour Unit

NTU - Nephelometric Turbidity Units

uS/cm - microsiemens/centimeter

ND - non detect

ND(1) = elevated RDL to concentration in brackets

RDL = Reportable Detection Limit

HC CDWQG- Health Canada's Canadian Drinking Water Quality Guidelines, May 2008

MAC - Maximum Acceptable Concentration

AO - Aesthetic Objective

MOE - Ontario Ministry of Environment

'-' - no guideline available

'---' - sample not analyzed for parameter indicated

Exceeds HC CDWQG (AO)

Table 5 "(continued)"
Groundwater General Chemistry Analysis
Harbourside Commercial Park
Groundwater Monitoring Program

Monitor Well ID Sampling Date	Units	RDL	HC CDWQG (MAC)	HC CDWQG (AO)	Standard MOE Table 3	SCU20-017- MW	SCU20-018- MW	SCU25-002- MWA	SCU25-003- MW	SCU25-004- MW	SCU25-005- MWB	SCU25-005- MWC	TB-002
						7-Sep-10	7-Sep-10	26-Jul-07	25-Jul-07	23-Jul-07	25-Jul-07	25-Jul-07	3-Sep-10
Calculated Parameters													
Anion Sum	me/L	N/A	-	-	-	10.2	18.5	---	---	---	---	---	0
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	1	-	-	-	7	14	---	---	---	---	---	ND
Calculated TDS	mg/L	1	-	-	-	660	1250	---	---	---	---	---	ND
Carb. Alkalinity (calc. as CaCO3)	mg/L	1	-	-	-	54	1	---	---	---	---	---	ND
Cation Sum	me/L	N/A	-	-	-	9.25	18.5	---	---	---	---	---	0
Hardness (CaCO3)	mg/L	1	-	-	-	390	890	---	---	---	---	---	ND
Ion Balance (% Difference)	%	N/A	-	-	-	4.98	0.220	---	---	---	---	---	---
Langelier Index (@ 20C)	N/A	-	-	-	-	2.45	1.09	---	---	---	---	---	ND
Langelier Index (@ 4C)	N/A	-	-	-	-	2.21	0.843	---	---	---	---	---	ND
Saturation pH (@ 20C)	N/A	-	-	-	-	8.45	7.91	---	---	---	---	---	ND
Saturation pH (@ 4C)	N/A	-	-	-	-	8.69	8.16	---	---	---	---	---	ND
Inorganics													
Alkalinity (Total as CaCO3)	mg/L	5	-	-	-	100	16	640	960	550	33	140	ND
Chloride (Cl)	mg/L	1	-	250	-	48	23	28	74	48	3200	10000	ND
Colour	TCU	5	-	15	-	11	ND	ND	ND	ND	ND	12	ND
Nitrate (N)	mg/L	0.05	45	-	-	ND	0.16	ND	ND	ND	ND	ND	ND
Nitrite (N)	mg/L	0.01	3.2	-	2.0	ND	0.02	ND	ND	ND	ND	ND	ND
Nitrite + Nitrate	mg/L	0.05	-	-	-	ND	0.18	0.2	ND	ND	ND	ND	ND
Nitrogen (Ammonia Nitrogen)	mg/L	0.05	-	-	-	0.72	0.07	1.1	1.8	1	0.4	2	ND
Total Organic Carbon (C)	mg/L	0.5	-	-	-	5.1	2.4	1.2	ND	1.9	ND	ND	ND
Orthophosphate (P)	mg/L	0.01	-	-	-	ND	ND	ND	ND	ND	ND	30	ND
pH	pH	N/A	-	6.5-8.5	-	10.9	9.00	12	12.2	12	7.4	6.8	6.40
Silica (SiO2)	mg/L	0.1	-	-	-	28	10	2.3	2.7	3.2	7.3	11	0.2
Sulphate (SO4)	mg/L	10	-	500	-	330	840	50	15	63	240	300	ND
Turbidity	NTU	0.1	-	0.3/1.0/0.1	-	2.9	ND	2	ND	0.7	230	180	ND
Conductivity	uS/cm	1	-	-	-	1000	1500	3000	4500	2800	9000	27000	ND

Notes:

mg/L - milligrams per litre

me/L - milligram equivalents per liter

% - Percent

TCU - True Colour Unit

NTU - Nephelometric Turbidity Units

uS/cm - microsiemens/centimeter

ND - non detect

ND(1) = elevated RDL to concentration in brackets

RDL = Reportable Detection Limit

HC CDWQG- Health Canada's Canadian Drinking Water Quality Guidelines, May 2008

MAC - Maximum Acceptable Concentration

AO - Aesthetic Objective

MOE - Ontario Ministry of Environment

'-' - no guideline available

'---' - sample not analyzed for parameter indicated

Exceeds HC CDWQG (AO)

TABLE 6
Dioxins and Furans
Harbourside Commercial Park
Groundwater Monitoring Program

Monitor Well ID	Units	RDL	TEF (2005 WHO)	EDL	Standard MOE Table 3	SCU17-004-MW	SCU17-004-MW	SCU17-004-MW	SCU17-004-MW
Sampling Date						TEQ	TEQ	TEQ	TEQ
						11/30/2009	11/30/2009	11/15/2010	11/15/2010
2,3,7,8-Tetra CDD *	pg/L	20	1.00	0.51	-	ND	0.560	ND	0.510
1,2,3,7,8-Penta CDD	pg/L	50	1.00	0.59	-	ND	0.540	ND	0.590
1,2,3,4,7,8-Hexa CDD	pg/L	50	0.100	0.61	-	ND	0.0590	ND	0.0610
1,2,3,6,7,8-Hexa CDD	pg/L	50	0.100	0.55	-	ND	0.0530	ND	0.0550
1,2,3,7,8,9-Hexa CDD	pg/L	50	0.100	0.54	-	ND	0.0520	ND	0.0540
1,2,3,4,6,7,8-Hepta CDD	pg/L	50	0.0100	0.83	-	1.82	0.0182	ND ***	0.00830
Octa CDD	pg/L	100	0.000300	1.1	-	12.6	0.00378	5	0.00150
Total Tetra CDD	pg/L	20	N/A	0.58	-	ND	N/A	ND ***	N/A
Total Penta CDD	pg/L	50	N/A	0.59	-	ND	N/A	ND	N/A
Total Hexa CDD	pg/L	150	N/A	0.67	-	ND ***	N/A	ND ***	N/A
Total Hepta CDD	pg/L	50	N/A	0.83	-	2.79	N/A	ND ***	N/A
2,3,7,8-Tetra CDF **	pg/L	20	0.100	0.53	-	1.56	0.156	ND	0.0530
1,2,3,7,8-Penta CDF	pg/L	50	0.0300	0.67	-	ND	0.0153	ND	0.0201
2,3,4,7,8-Penta CDF	pg/L	50	0.300	0.69	-	ND ***	0.243	2	0.600
1,2,3,4,7,8-Hexa CDF	pg/L	50	0.100	0.48	-	ND	0.0500	ND	0.0480
1,2,3,6,7,8-Hexa CDF	pg/L	50	0.100	0.49	-	ND	0.0500	ND	0.0490
2,3,4,6,7,8-Hexa CDF	pg/L	50	0.100	0.55	-	ND	0.0550	ND	0.0550
1,2,3,7,8,9-Hexa CDF	pg/L	50	0.100	0.63	-	ND	0.0610	ND	0.0630
1,2,3,4,6,7,8-Hepta CDF	pg/L	50	0.0100	1.8	-	ND ***	0.0110	ND ***	0.0180
1,2,3,4,7,8,9-Hepta CDF	pg/L	50	0.0100	0.68	-	ND	0.00600	ND	0.00680
Octa CDF	pg/L	100	0.000300	1.2	-	ND ***	0.000450	1.2	0.000360
Total Tetra CDF	pg/L	20	N/A	0.53	-	2.53	N/A	2	N/A
Total Penta CDF	pg/L	100	N/A	0.68	-	ND ***	N/A	2	N/A
Total Hexa CDF	pg/L	200	N/A	0.53	-	ND	N/A	ND	N/A
Total Hepta CDF	pg/L	100	N/A	2.1	-	ND ***	N/A	ND ***	N/A
TOTAL TOXIC EQUIVALENCY	pg/L	-	-	-	0.015	-	1.93	-	2.19

Notes:

pg/L = picogram per litre

ND = Not detected

N/A = not applicable

RDL = Reportable Detection Limit

EDL = Estimated Detection Limit

TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient, The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.

WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

* CDD = Chloro Dibenzo-p-Dioxin, ** CDF = Chloro Dibenzo-p-Furan

*** EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

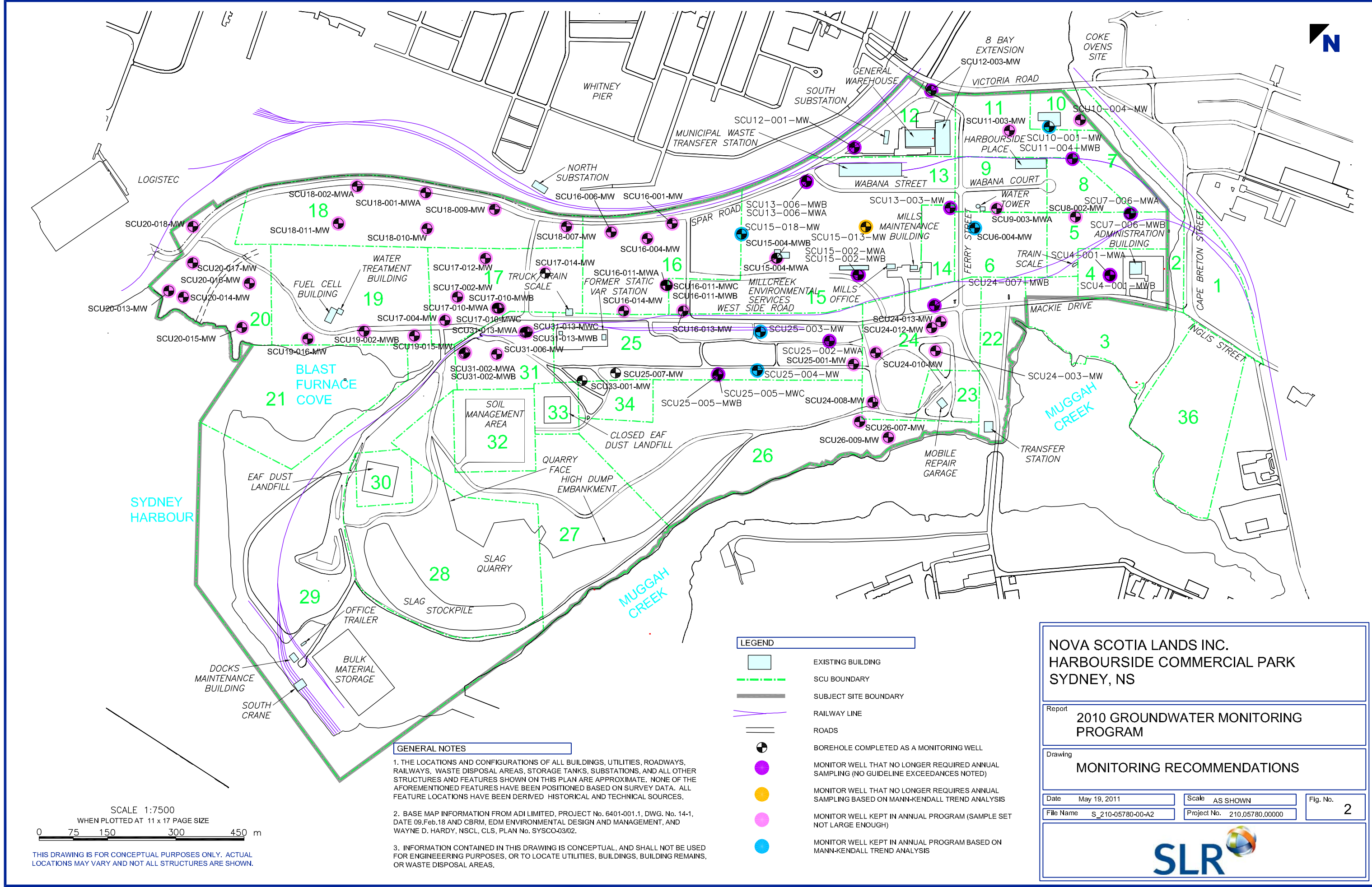
'-' - no guideline available

Exceeds WHO Criteria

DRAWINGS

Monitor well Location Plan

2010 Groundwater Monitoring Program
Harbourside Commercial Park, Sydney, NS
SLR Ref: 210.05780.00000



APPENDIX A

Groundwater Sampling Records

2010 Groundwater Monitoring Program
Harbourside Commercial Park, Sydney, NS
SLR Ref: 210.05780.00000

Groundwater Sampling Record

Project Number: 210.05479.00003 Date: 3-Sep-10
 Project Name: SCU20 Groundwater Monitoring Program Weather: Sunny
 Address: Harbourside Commercial Park Field Staff: KH/TR

BH ID	EOH from Log(m)	Monitoring Data					Purge Water Parameter Stabilization Data										Sampling Data				Comments	
		Headspace (ppm/%)	Depth (m)			Single Well Volume (L)	Purge Method	Start Time	Elapsed Purge Time (minutes)	Cumul. Purge Vol. (L)	T (°C)	pH	Conductivity	Dissolved Oxygen	Turbidity	Redox	Appear./ Odour	Sample ID	Sampling Method	Time		Analysis
			to Prod.	to GW	to EOH																	
SCU20-013-MW		N/A	3.707m	7.985m	low flow	9/3/2010 11:17	34	21	10.00	12.25	2.690	5.900			-298.9	Clear/None	SCU20-013-MW	low flow	12:10	PAH, Metals, TPH/BTEX, gen. chem.	Sediment on base of probe	
							40	24.5	9.98	12.23	2.600	1.800			-278.8	Clear/None						
							44	27	10.07	12.21	2.560	1.300			-297.5	Clear/None						
							47	29	10.11	12.20	2.520	1.000			-296.5	Clear/None						
							49	30	10.13	12.19	2.470	1.000			-296.0	Clear/None						
							51	32	10.15	12.17	2.460	1.100			-295.2	Clear/None						
SCU20-014-MW		N/A	4.336m	7.964m	low flow	12:53	33	22.0	9.90	11.29	0.945	1.900			-246.1	Clear/None	SCU20-014-MW	low flow	1:350	PAH, Metals, TPH/BTEX, gen. chem.	Sediment on base of probe	
							40	27.0	10.00	11.32	0.938	1.700			-247.5	Clear/None						
							43	29.0	10.09	11.31	0.940	1.600			-247.0	Clear/None						
							47	32.0	10.12	11.28	0.938	1.600			-245.6	Clear/None						
							51	34.0	10.06	11.28	0.934	1.400			-245.3	Clear/None						
							53	36.0	10.12	11.29	0.934	1.400			-245.9	Clear/None						
							55	38.0	10.15	11.28	0.931	1.400			-245.3	Clear/None						
SCU20-015-MW		N/A	6.654m	9.662m	low flow	14:25	50	26.0	13.60	10.74	1.474	2.600			-218.5	Clear/None	SCU20-015-MW	low flow	15:35	PAH, Metals, TPH/BTEX, gen. chem.	Sediment on base of probe; First 15L cloudy	
							54	28.0	13.68	10.72	1.473	2.200			-216.6	Clear/None						
							58	30.0	13.67	10.72	1.476	2.000			-216.8	Clear/None						
							63	33.0	13.70	10.70	1.474	1.800			-215.3	Clear/None						
							65	34.0	13.63	10.69	1.475	1.700			-215.5	Clear/None						
							67	35.0	13.65	10.69	1.475	1.700			-215.1	Clear/None						

Note: All depth measurements from top of pipe
 Do not monitor EOH if free-product is present in well
 N/A=Not Applicable

Parameter Stabilization Guidelines: pH: +/- 0.2 units Redox: +/- 20mV
 Temp: +/- 0.1°C D/O: +/- 0.2mg/L
 Conductivity: +/- 3% Turbidity: +/- 10%

Well volume Calculation:
 One standing volume of water in well and annulus = $V_w + V_a$
 $V_w = \pi r_i^2 (H) \times 1000$
 $V_a = \pi (R^2 (H) \times 300 - (\pi r_o^2 (H) \times 300))$
 $V_w =$ one well volume (L)
 $V_a =$ one standing volume (annulus)(L)

r_i = radius of well inside of pipe (m)
 r_o = radius of well outside of pipe (m)
 R = radius of the borehole (m)
 H = distance from static water level to bottom of well (m)
 2" casing has 2.032 L/m; 1" casing has 0.509 L/m
 8" sand pack has 9.271 L/m; 6 5/8" sand pack has 6.35 L/m

Groundwater Sampling Record

Project Number: 210.05479.00003 Date: 7-Sep-10
 Project Name: Groundwater Monitoring Program Weather: Cloudy, light rain
 Address: Harbourside Commercial Park Field Staff: TR

BH ID	EOH from Log(m)	Monitoring Data					Purge Water Parameter Stabilization Data										Sampling Data				Comments	
		Headspace (ppm/%)	Depth (m)			Single Well Volume (L)	Purge Method	Start Time	Elapsed Purge Time (minutes)	Cumul. Purge Vol. (L)	T (°C)	pH	Conductivity	Dissolved Oxygen	Turbidity	Redox	Appear./ Odour	Sample ID	Sampling Method	Time		Analysis
			to Prod.	to GW	to EOH																	
SCU20-016-MW		N/A		5.589	9.587	low flow	9:47	47	31	9.85	11.53	1.121	1.900			-258.9	Clear/None	SCU20-016-MW	low flow	1050	PAH, Metals, TPH/BTEX, gen. chem.	Sediment on base of probe; Water clear
								52	34	9.85	11.53	1.121	1.800			-258.8	Clear/None					
								57	37	9.97	11.52	1.125	1.700			-258.9	Clear/None					
								59	38	9.96	11.52	1.125	1.600			-258.9	Clear/None					
SCU20-017-MW		N/A		4.054	7.346	low flow	13:00	54	40.0	14.84	11.33	0.935	2.600			-252.4	Clear/None	SCU20-017-MW	low flow	1420	PAH, Metals, TPH/BTEX, gen. chem.	Sediment on base of probe; First 15L cloudy (greyish)
								57	42.0	14.85	11.33	0.935	2.200			-252.3	Clear/None					
								60	44.0	14.86	11.34	0.936	2.100			-252.6	Clear/None					
								63	46.0	14.87	11.35	0.937	1.900			-253.0	Clear/None					
								67	48.0	14.88	11.35	0.937	1.700			-253.1	Clear/None					
								70	50.0	14.90	11.35	0.938	1.600			-253.1	Clear/None					
								73	52.0	14.90	11.34	0.938	1.600			-253.0	Clear/None					
SCU20-018-MW		N/A		2.189	5.070	low flow	14:45	43	32.0	15.24	9.53	1.222	2.200			-150.6	Clear/None	SCU20-018-MW	low flow	1540	PAH, Metals, TPH/BTEX, gen. chem.	Sediment on base of probe; First 15L slightly cloudy
								46	34.0	15.24	9.52	1.224	2.000			-150.1	Clear/None					
								49	36.0	15.24	9.52	1.220	1.800			-149.9	Clear/None					
								51	38.0	15.25	9.51	1.223	2.000			-149.6	Clear/None					
SCU18-010-MW		N/A		3.373	5.069	low flow	17:18	38	28	13.17	10.71	0.860	2.900			-216.0	Clear/None	SCU18-010-MW	low flow	1820	PAH, Metals, TPH/BTEX, gen. chem.	
								44	32	13.15	10.72	0.859	2.200			-216.2	Clear/None					
								47	34	13.15	10.72	0.859	2.100			-216.2	Clear/None					
								50	36	13.15	10.71	0.858	1.900			-216.1	Clear/None					
								53	38	13.14	10.71	0.858	1.800			-215.9	Clear/None					
								56	40	13.16	10.71	0.858	1.800			-215.7	Clear/None					

Note: All depth measurements from top of pipe
 Do not monitor EOH if free-product is present in well
 N/A=Not Applicable

Parameter Stabilization Guidelines: pH: +/- 0.2 units Redox: +/- 20mV
 Temp: +/- 0.1°C D/O: +/- 0.2mg/L
 Conductivity: +/- 3% Turbidity: +/- 10%

Well volume Calculation:
 One standing volume of water in well and annulus = $V_w + V_a$
 $V_w = \pi r_i^2(H) \times 1000$
 $V_a = \pi R^2(H) \times 300 - (\pi r_o^2(H) \times 300)$
 $V_w =$ one well volume (L)
 $V_a =$ one standing volume (annulus)(L)

r_i = radius of well inside of pipe (m)
 r_o = radius of well outside of pipe (m)
 R = radius of the borehole (m)
 H = distance from static water level to bottom of well (m)
 2" casing has 2.032 L/m; 1" casing has 0.509 L/m
 8" sand pack has 9.271 L/m; 6 5/8" sand pack has 6.35 L/m

Groundwater Sampling Record

Project Number: 210.05479.00003 Date: 8-Sep-10
 Project Name: Groundwater Monitoring Program Weather: Sunny
 Address: Harbourside Commercial Park Field Staff: TR

BH ID	EOH from Log(m)	Monitoring Data					Purge Water Parameter Stabilization Data										Sampling Data				Comments	
		Headspace (ppm/%)	Depth (m)			Single Well Volume (L)	Purge Method	Start Time	Elapsed Purge Time (minutes)	Cumul. Purge Vol. (L)	T (°C)	pH	Conductivity	Dissolved Oxygen	Turbidity	Redox	Appear./ Odour	Sample ID	Sampling Method	Time		Analysis
			to Prod.	to GW	to EOH																	
SCU18-011-MW		N/A		2.137	4.514	low flow	7:30	40	37	14.36	8.43	0.941	2.900		-88.2	Clear/None	SCU18-011-MW	low flow	830	PAH, Metals, TPH/BTEX, gen. chem.		
								50	47	14.39	8.42	0.941	1.900		-87.8	Clear/None						
								52	49	14.40	8.42	0.941	1.800		-87.5	Clear/None						
								54	51	14.41	8.41	0.941	1.700		-87.1	Clear/None						
SCU18-002-MWA		N/A		2.508	5.059	low flow	17:06	40	38.0	10.53	7.25	0.903	2.600		-21.3	Clear/None	SCU18-002-MWA	low flow	1800	PAH, Metals, TPH/BTEX, gen. chem.		
								42	40.0	10.53	7.24	0.902	2.500		-20.9	Clear/None						
								45	43.0	10.52	7.23	0.903	2.400		-20.4	Clear/None						
								47	45.0	10.52	7.23	0.902	2.300		-20.2	Clear/None						
								49	47.0	10.51	7.22	0.900	2.200		-19.9	Clear/None						
	51	49.0	10.53	7.22	0.902	2.100		-19.7	Clear/None													

Note: All depth measurements from top of pipe
 Do not monitor EOH if free-product is present in well
 N/A=Not Applicable

Parameter Stabilization Guidelines: pH: +/- 0.2 units Redox: +/- 20mV
 Temp: +/- 0.1°C D/O: +/- 0.2mg/L
 Conductivity: +/- 3% Turbidity: +/- 10%

Well volume Calculation:
 One standing volume of water in well and annulus = $V_w + V_a$
 $V_w = \pi r_i^2 (H) \times 1000$
 $V_a = \pi R^2 (H) \times 300 - (\pi r_o^2 (H) \times 300)$
 $V_w =$ one well volume (L)
 $V_a =$ one standing volume (annulus)(L)

r_i = radius of well inside of pipe (m)
 r_o = radius of well outside of pipe (m)
 R = radius of the borehole (m)
 H = distance from static water level to bottom of well (m)
 2" casing has 2.032 L/m; 1" casing has 0.509 L/m
 8" sand pack has 9.271 L/m; 6 5/8" sand pack has 6.35 L/m

Groundwater Sampling Record

Project Number: 210.05479.00003 Date: 9-Sep-10
 Project Name: Groundwater Monitoring Program Weather: Cloudy, showers
 Address: Harbourside Commercial Park Field Staff: TR

BH ID	EOH from Log(m)	Monitoring Data					Purge Water Parameter Stabilization Data										Sampling Data				Comments	
		Headspace (ppm/%)	Depth (m)			Single Well Volume (L)	Purge Method	Start Time	Elapsed Purge Time (minutes)	Cumul. Purge Vol. (L)	T (°C)	pH	Conductivity	Dissolved Oxygen	Turbidity	Redox	Appear./ Odour	Sample ID	Sampling Method	Time		Analysis
			to Prod.	to GW	to EOH																	
SCU18-001-MW		N/A		2.274	6.618	low flow	17:14	56	52	9.71	6.76	1.620	2.800		5.8	Clear/None	SCU18-001-MW	low flow	1830	PAH, Metals, TPH/BTEX, gen. chem.	Removed Waterra tubing; First few L cloudy, black particles then clear; Water became murky at 18L (brown/orange) for 1L, then clear again	
								62	57	9.72	6.75	1.624	2.400		6.5	Clear/None						
								64	59	9.71	6.74	1.623	2.300		6.6	Clear/None						
								67	62	9.61	6.74	1.618	2.200		6.9	Clear/None						
								69	64	9.68	6.74	1.621	2.200		7.0	Clear/None						
								71	65	9.70	6.73	1.623	2.100		7.1	Clear/None						
SCU18-005-MWA		N/A	1.000	6.380	low flow	14:18	34	35.0	16.76	8.31	0.739	2.700		-81.7	Clear/None	SCU18-005-MWA	low flow	1515	PAH, Metals, TPH/BTEX, gen. chem.	No sediment on probe; Water clear from start of purge		
							36	37.0	16.73	8.31	0.738	2.700		-82.0	Clear/None							
							38	39.0	16.74	8.31	0.737	2.300		-82.2	Clear/None							
							40	41.0	16.73	8.31	0.736	2.300		-82.0	Clear/None							
							42	43.0	16.73	8.31	0.735	2.000		-82.0	Clear/None							
							44	45.0	16.74	8.31	0.734	2.100		-82.0	Clear/None							
46	47.0	16.74	8.31	0.734	2.000		-82.0	Clear/None														

Note: All depth measurements from top of pipe
 Do not monitor EOH if free-product is present in well
 N/A=Not Applicable

Parameter Stabilization Guidelines: pH: +/- 0.2 units Redox: +/- 20mV
 Temp: +/- 0.1°C D/O: +/- 0.2mg/L
 Conductivity: +/- 3% Turbidity: +/- 10%

Well volume Calculation:
 One standing volume of water in well and annulus = $V_w + V_a$
 $V_w = \pi r_i^2 (H) \times 1000$
 $V_a = \pi R^2 (H) \times 300 - (\pi r_o^2 (H) \times 300)$
 $V_w =$ one well volume (L)
 $V_a =$ one standing volume (annulus)(L)

r_i = radius of well inside of pipe (m)
 r_o = radius of well outside of pipe (m)
 R = radius of the borehole (m)
 H = distance from static water level to bottom of well (m)
 2" casing has 2.032 L/m; 1" casing has 0.509 L/m
 8" sand pack has 9.271 L/m; 6 5/8" sand pack has 6.35 L/m

Groundwater Sampling Record

Project Number: 210.05780.00000 Date: 9-Nov-10
 Project Name: Groundwater Monitoring Program Weather: Drizzle, 9°C
 Address: Harbourside Commercial Park Field Staff: AG/TR

BH ID	EOH from Log(m)	Monitoring Data					Purge Water Parameter Stabilization Data										Sampling Data				Comments	
		Headspace (ppm/%)	Depth (m)			Single Well Volume (L)	Purge Method	Start Time	Elapsed Purge Time (minutes)	Cumul. Purge Vol. (L)	T (°C)	pH	Conductivity	Dissolved Oxygen	Turbidity	Redox	Appear./ Odour	Sample ID	Sampling Method	Time		Analysis
			to Prod.	to GW	to EOH																	
SCU15-004-MWA				6.672	9.126	16.95	Low flow	14:06	60	17	10.29	8.47	0.656	4.210	17.2	116.0	Clear/None	SCU15-004-MWA	Low flow	14:45	PAHs, Metals, Mercury, TPH/BTEX	Some staining on ground approx. 8m from wells (SCU15-004-MWA, SCU15-004-MWB)
									62	17.5	10.36	8.91	0.657	3.020	21.2	120.0	Clear/None					
									64	18.5	10.41	9.20	0.655	1.820	23.4	125.0	Clear/None					
									66	19	10.40	9.36	0.655	1.380	18.5	133.0	Clear/None					
									68	19.5	10.41	9.43	0.655	0.950	19.5	140.0	Clear/None					
									70	20	10.42	9.47	0.656	0.870	33.2	145.0	Clear/None					
SCU15-004-MWB				6.602	14.400	53.78	Low flow	14:05	130	53.0	9.56	6.83	0.680	2.940	17.1	42.0	Clear/None	SCU15-004-MWB	Low flow	15:15	PAHs, Metals, Mercury, TPH/BTEX	
									132	53.5	9.54	6.91	0.662	0.000	22.3	20.0	Clear/None					
									134	54.0	9.55	6.97	0.659	0.000	17.1	7.0	Clear/None					
									136	54.5	9.55	7.00	0.659	0.000	17.6	-1.0	Clear/None					

Note: All depth measurements from top of pipe
 Do not monitor EOH if free-product is present in well
 N/A=Not Applicable

Parameter Stabilization Guidelines: pH: +/- 0.2 units Redox: +/- 20mV
 Temp: +/- 0.1°C D/O: +/- 0.2mg/L
 Conductivity: +/- 3% Turbidity: +/- 10%

Well volume Calculation:
 One standing volume of water in well and annulus = $V_w + V_a$
 $V_w = \pi r_i^2 (H) \times 1000$
 $V_a = \pi (R^2 (H) \times 300 - (\pi r_o^2 (H) \times 300))$
 $V_w =$ one well volume (L)
 $V_a =$ one standing volume (annulus)(L)

r_i = radius of well inside of pipe (m)
 r_o = radius of outside of pipe (m)
 R = radius of the borehole (m)
 H = distance from static water level to bottom of well (m)
 2" casing has 2.032 L/m; 1" casing has 0.509 L/m
 8" sand pack has 9.271 L/m; 6 5/8" sand pack has 6.35 L/m

Groundwater Sampling Record

Project Number: 210.05780.00000 Date: 10-Nov-10
 Project Name: Groundwater Monitoring Program Weather: Cloudy, windy, 7°C
 Address: Harbourside Commercial Park Field Staff: AG/TR

BH ID	EOH from Log(m)	Monitoring Data					Purge Water Parameter Stabilization Data											Sampling Data				Comments
		Headspace (ppm/%)	Depth (m)			Single Well Volume (L)	Purge Method	Start Time	Elapsed Purge Time (minutes)	Cumul. Purge Vol. (L)	T (°C)	pH	Conductivity	Dissolved Oxygen	Turbidity	Redox	Appear./ Odour	Sample ID	Sampling Method	Time	Analysis	
			to Prod.	to CW	to EOH																	
SCU4-001-MWB				3.250	10.888	52.74	Low flow	8:05	180	53	9.56	7.68	0.645	4.650	263.0	93.0	Opaque brown/None	SCU4-001-MWB	Low Flow	10:30	PAHs, Metals, Mercury, TPH/BTEX	
									182	53.5	9.64	7.68	0.637	4.080	181.0	56.0	Clearing/None					
									184	54	9.60	7.68	0.637	3.510	93.5	38.0	Clear/None					
SCU4-001-MWA				2.805	3.786	6.77	Low flow	8:08	32	7.0	10.74	7.85	0.873	0.000	21.2	-64.0	Clear/None	SCU4-001-MWA	Low Flow	8:40	PAHs, Metals, Mercury, TPH/BTEX	
									34	7.5	11.48	7.52	0.891	0.000	38.8	-32.0	Brown, silty/None					
									36	8.0	11.46	7.34	0.905	0.140	68.1	-46.0	Clear/None					
									38	8.5	11.41	7.23	0.908	0.000	48.7	-48.0	Clear/None					
									40	9.0	11.42	7.18	0.901	0.000	33.0	-52.0	Clear/None					
SCU11-004-MW				2.708	5.090	15.8	Low flow	12:28	36	16.0	12.35	8.26	1.160	2.060	27.0	-45.0	Clear/None	SCU11-004-MW	Low Flow	13:02	PAHs, Metals, Mercury, TPH/BTEX	
									38	16.5	12.98	8.26	1.150	0.000	12.8	-72.0	Clear/None					
									40	17.0	13.17	8.34	1.150	0.000	10.4	-83.0	Clear/None					
									42	17.5	13.22	8.36	1.150	0.000	9.4	-89.0	Clear/None					

Note: All depth measurements from top of pipe
 Do not monitor EOH if free-product is present in well
 N/A=Not Applicable

Parameter Stabilization Guidelines: pH: +/- 0.2 units Redox: +/- 20mV
 Temp: +/- 0.1°C D/O: +/- 0.2mg/L
 Conductivity: +/- 3% Turbidity: +/- 10%

Well volume Calculation:
 One standing volume of water in well and annulus = $V_w + V_a$
 $V_w = \pi r_i^2(H) \times 1000$
 $V_a = \pi R^2(H) \times 300 - (\pi r_o^2(H) \times 300)$
 $V_w =$ one well volume (L)
 $V_a =$ one standing volume (annulus)(L)

r_i = radius of well inside of pipe (m)
 r_o = radius of well outside of pipe (m)
 R = radius of the borehole (m)
 H = distance from static water level to bottom of well (m)
 2" casing has 2.032 L/m; 1" casing has 0.509 L/m
 8" sand pack has 9.271 L/m; 6 5/8" sand pack has 6.35 L/m

Groundwater Sampling Record

Project Number: 210.05780.00000 Date: 10-Nov-10
 Project Name: Groundwater Monitoring Program Weather: Cloudy, windy, 7°C
 Address: Harbourside Commercial Park Field Staff: AG/TR

BH ID	EOH from Log(m)	Monitoring Data					Purge Water Parameter Stabilization Data										Sampling Data				Comments	
		Headspace (ppm/%)	Depth (m)			Single Well Volume (L)	Purge Method	Start Time	Elapsed Purge Time (minutes)	Cumul. Purge Vol. (L)	T (°C)	pH	Conductivity	Dissolved Oxygen	Turbidity	Redox	Appear/Odour	Sample ID	Sampling Method	Time		Analysis
			to Prod.	to GW	to EOH																	
SCU10-001-MW				1.814	3.799	13.71	Low flow	12:58	50	14	11.53	6.73	0.425	0.000	6.3	141.0	Clear/None	SCU10-001-MW	Low flow	13:45	PAHs, Metals, Mercury, TPH/BTEX	
									52	14.25	11.48	6.53	0.427	0.000	6.6	143.0	Clear/None					
									54	14.5	11.56	6.52	0.424	0.000	7.4	138.0	Clear/None					
									56	14.75	11.38	6.52	0.425	0.000	5.6	130.0	Clear/None					
									58	15	11.38	6.52	0.426	0.000	5.4	129.0	Clear/None					
									60	15.25	11.38	6.53	0.424	0.000	5.2	126.0	Clear/None					
SCU11-003-MW			2.757	4.379	11.2	Low flow	14:24	36	12.0	11.65	7.32	0.619	0.190	7.8	232.0	Clear/None	SCU11-003-MW	Low flow	15:30	PAHs, Metals, Mercury, TPH/BTEX		
								38	12.3	11.66	7.20	0.611	0.000	12.3	235.0	Clear/None						
								40	12.5	11.62	7.15	0.606	0.000	35.5	231.0	Clear/None						
SCU12-001-MW			1.115	4.320	28.17	Low flow	14:40															

Note: All depth measurements from top of pipe
 Do not monitor EOH if free-product is present in well
 N/A=Not Applicable

Parameter Stabilization Guidelines: pH: +/- 0.2 units Redox: +/- 20mV
 Temp: +/- 0.1°C D/O: +/- 0.2mg/L
 Conductivity: +/- 3% Turbidity: +/- 10%

Well volume Calculation:
 One standing volume of water in well and annulus = $V_w + V_a$
 $V_w = \pi r_i^2 (H) \times 1000$
 $V_a = \pi R^2 (H) \times 300 - (\pi r_o^2 (H) \times 300)$
 V_w = one well volume (L)
 V_a = one standing volume (annulus)(L)

r_i = radius of well inside of pipe (m)
 r_o = radius of well outside of pipe (m)
 R = radius of the borehole (m)
 H = distance from static water level to bottom of well (m)
 2" casing has 2.032 L/m; 1" casing has 0.509 L/m
 8" sand pack has 9.271 L/m; 6 5/8" sand pack has 6.35 L/m

Went dry after 14 L Sample Nov 11/10?

Flush mount needed to be raised up in order to remove j-plug; Limited sample (began to go dry); Spray painted well after sampling

Groundwater Sampling Record

Project Number: 210.05780.00000 Date: 11-Nov-10
 Project Name: Groundwater Monitoring Program Weather: Mainly cloudy, 5°C
 Address: Harbourside Commercial Park Field Staff: AG/TR

BH ID	EOH from Log(m)	Monitoring Data					Purge Water Parameter Stabilization Data										Sampling Data				Comments	
		Headspace (ppm/%)	Depth (m)			Single Well Volume (L)	Purge Method	Start Time	Elapsed Purge Time (minutes)	Cumul. Purge Vol. (L)	T (°C)	pH	Conductivity	Dissolved Oxygen	Turbidity	Redox	Appear/Odour	Sample ID	Sampling Method	Time		Analysis
			to Prod.	to GW	to EOH																	
SCU15-002-MWB				7.001	15.907	78.3	Low flow	7:23	140	78	10.77	7.77	1.770	0.000	41.6	77.0	Clear/None	SCU15-002-MWB	Low flow	9:55	PAHs, Metals, Mercury, TPH/BTEX	Well adjacent to waste oil settling pond, some staining on ground
									142	78.5	10.81	7.82	1.770	0.000	57.3	17.0	Clear/None					
									144	79	10.80	7.85	1.770	0.000	83.7	-26.0	Clear/None					
SCU15-002-MWA				7.442	10.165	23.94	Low flow	7:35	40	24.0	11.01	7.99	1.060	1.380	20.0	100.0	Clear/None	SCU15-002-MWA	Low flow	8:45	PAHs, Metals, Mercury, TPH/BTEX	Well adjacent to waste oil settling pond, some staining on ground
									42	24.5	11.53	7.77	1.070	0.910	16.0	71.0	Clear/None					
									44	25.0	11.58	7.65	1.070	0.930	14.7	64.0	Clear/None					
									46	25.5	11.61	7.59	1.110	0.920	13.8	61.0	Clear/None					
									48	26.0	11.56	7.53	1.110	0.920	13.6	59.0	Clear/None					
SCU15-013-MW				4.252	6.392	18.81	Low flow	9:25	40	20.0	12.49	6.62	1.120	2.120	35.2	273.0	Clear/None	SCU15-013-MW	Low flow	10:15	PAHs, Metals, Mercury, TPH/BTEX	Adjacent to active construction site; No j-plug; Put new j-plug in place
									42	20.5	12.54	6.54	1.130	2.340	33.1	273.0	Clear/None					
									44	21.0	12.54	6.56	1.160	2.160	29.4	270.0	Clear/None					

Note: All depth measurements from top of pipe
 Do not monitor EOH if free-product is present in well
 N/A=Not Applicable

Parameter Stabilization Guidelines: pH: +/- 0.2 units Redox: +/- 20mV
 Temp: +/- 0.1°C D/O: +/- 0.2mg/L
 Conductivity: +/- 3% Turbidity: +/- 10%

Well volume Calculation:
 One standing volume of water in well and annulus = $V_w + V_a$
 $V_w = \pi r_i^2 (H) \times 1000$
 $V_a = \pi R^2 (H) \times 300 - (\pi r_o^2 (H) \times 300)$
 V_w = one well volume (L)
 V_a = one standing volume (annulus)(L)

r_i = radius of well inside of pipe (m)
 r_o = radius of well outside of pipe (m)
 R = radius of the borehole (m)
 H = distance from static water level to bottom of well (m)
 2" casing has 2.032 L/m; 1" casing has 0.509 L/m
 8" sand pack has 9.271 L/m; 6 5/8" sand pack has 6.35 L/m

Groundwater Sampling Record

Project Number: 210.05780.00000 Date: 12-Nov-10
 Project Name: Groundwater Monitoring Program Weather: Sunny, 7°C
 Address: Harbourside Commercial Park Field Staff: AG/TR

BH ID	EOH from Log(m)	Monitoring Data					Purge Water Parameter Stabilization Data								Sampling Data				Comments			
		Headspace (ppm/%)	Depth (m)			Single Well Volume (L)	Purge Method	Start Time	Elapsed Purge Time (minutes)	Cumul. Purge Vol. (L)	T (°C)	pH	Conductivity	Dissolved Oxygen	Turbidity	Redox	Appear./ Odour	Sample ID		Sampling Method	Time	Analysis
			to Prod.	to GW	to EOH																	
SCU16-011-MWA				1.950	5.598	25.43	Low flow	10:05	45	25	12.90	10.73	0.640	2.600	9.6	-120.0	Clear/None	SCU16-011-MWA	Low flow	11:00	PAHs, Metals, Mercury, TPH/BTEX	
									47	25.5	12.85	10.74	0.639	2.070	8.8	-110.0	Clear/None					
									49	26	12.80	10.75	0.640	1.880	8.5	-100.0	Clear/None					
SCU16-001-MW				2.090	3.250	8.08	Low flow	11:30	10	4.0	11.88	8.87	0.770	5.400	21.1	78.0	Clear/None				Purged well dry yesterday (11-Nov-10), dry after 5 L today will attempt to sample on Monday 15-Nov-10	
									12	4.5	12.06	8.97	0.776	7.450	19.0	84.0	Clear/None					
									14	5.0												
SCU18-001-MW				2.244	6.612	26.59	Low flow	11:15	60	28.0	10.07	7.92	2.500	0.000	12.5	-44.0	Clear/None	SCU18-001-MW	Low flow	12:20	PAHs, Metals, Mercury, TPH/BTEX	
									62	28.5	10.06	7.74	2.500	0.000	12.4	-39.0	Clear/None					
									64	29.0	10.08	7.61	2.500	0.000	12.1	-36.0	Clear/None					
									66	30.0	10.08	7.48	2.500	0.000	12.2	-34.0	Clear/None					
									68	30.5	10.07	7.35	2.510	0.000	12.3	-33.0	Clear/None					
									70	31.0	10.09	7.28	2.510	0.000	12.9	-32.0	Clear/None					
SCU18-002-MWA				2.335	5.058	16.57	Low flow	12:05	40	17	11.95	7.33	1.340	1.940	10.7	158.0	Clear/None	SCU18-002-MWA	Low flow	12:50	PAHs, Metals, Mercury, TPH/BTEX	
									42	17.5	11.97	7.20	1.340	1.360	12.3	161.0	Clear/None					
									44	18	11.95	7.15	1.340	1.000	22.1	161.0	Clear/None					

Note: All depth measurements from top of pipe
 Do not monitor EOH if free-product is present in well
 N/A=Not Applicable

Parameter Stabilization Guidelines: pH: +/- 0.2 units Redox: +/- 20mV
 Temp: +/- 0.1°C D/O: +/- 0.2mg/L
 Conductivity: +/- 3% Turbidity: +/- 10%

Well volume Calculation:
 One standing volume of water in well and annulus = $V_w + V_a$
 $V_w = \pi r_i^2(H) \times 1000$
 $V_a = \pi R^2(H) \times 300 - (\pi r_o^2(H) \times 300)$
 $V_w =$ one well volume (L)
 $V_a =$ one standing volume (annulus)(L)

r_i = radius of well inside of pipe (m)
 r_o = radius of well outside of pipe (m)
 R = radius of the borehole (m)
 H = distance from static water level to bottom of well (m)
 2" casing has 2.032 L/m; 1" casing has 0.509 L/m
 8" sand pack has 9.271 L/m; 6 5/8" sand pack has 6.35 L/m

Groundwater Sampling Record

Project Number: 210.05780.00000 Date: 15-Nov-10
 Project Name: Groundwater Monitoring Program Weather: Sunny, 2°C
 Address: Harbourside Commercial Park Field Staff: AG/TR

BH ID	EOH from Log(m)	Monitoring Data					Purge Water Parameter Stabilization Data										Sampling Data				Comments	
		Headspace (ppm/%)	Depth (m)			Single Well Volume (L)	Purge Method	Start Time	Elapsed Purge Time (minutes)	Cumul. Purge Vol. (L)	T (°C)	pH	Conductivity	Dissolved Oxygen	Turbidity	Redox	Appear./ Odour	Sample ID	Sampling Method	Time		Analysis
			to Prod.	to GW	to EOH																	
SCU17-010-MWC				7.335	23.640	113.66	Low flow	7:30	125	78	11.87	7.36	7.500	0.000	6.9	-47.0	Clear/Present	SCU17-010-MWC	Low flow	10:00	PAHs, Metals, Mercury, TPH/BTEX	Egg odour from purge water
									127	78.5	11.79	7.25	7.530	0.000	7.8	-51.0	Clear/Present					
									129	79	12.02	7.22	7.520	0.000	8.6	-53.0	Clear/Present					
									131	79.5	12.08	7.18	7.530	0.000	6.5	-54.0	Clear/Present					
									133	80	11.93	7.15	7.550	0.000	10.2	-57.0	Clear/Present					
SCU17-010-MWB				6.865	20.120	92.4	Low flow	8:50	205	68.0	11.57	6.89	6.670	1.150	13.3	52.0	Clear/None	SCU17-010-MWB	Low flow	12:30	PAHs, Metals, Mercury, TPH/BTEX	
									207	68.5	11.66	6.87	6.680	0.000	14.6	48.0	Clear/None					
									209	69.0	11.58	6.85	6.680	0.000	21.0	43.0	Clear/None					
SCU17-010-MWA				6.114	8.691	15.69	Low flow	7:33	60	16.0	10.64	9.57	0.950	0.000	13.5	75.0	Clear/None	SCU17-010-MWA	Low flow	8:45	PAHs, Metals, Mercury, TPH/BTEX	Sediment on probe detected as product-no odour, no visual evidence; New lock placed on well
									62	16.5	10.61	9.41	0.859	0.000	24.4	44.0	Clear/None					
									64	17.0	10.55	9.67	0.868	0.000	24.1	12.0	Clear/None					
									66	17.5	10.57	9.77	0.868	0.000	25.7	-5.0	Clear/None					
									68	18.0	10.62	9.95	0.875	0.000	35.5	-43.0	Clear/None					
									70	18.5	10.63	10.04	0.885	0.000	43.7	-62.0	Clear/None					
									72	19.0	10.60	10.13	0.880	0.000	61.2	-82.0	Clear/None					
									74	19.5	10.64	10.14	0.879	0.000	28.2	-82.0	Clear/None					

Note: All depth measurements from top of pipe
 Do not monitor EOH if free-product is present in well
 N/A=Not Applicable

Parameter Stabilization Guidelines: pH: +/- 0.2 units Redox: +/- 20mV
 Temp: +/- 0.1°C D/O: +/- 0.2mg/L
 Conductivity: +/- 3% Turbidity: +/- 10%

Well volume Calculation:
 One standing volume of water in well and annulus = $V_w + V_a$
 $V_w = \pi r_i^2 (H) \times 1000$
 $V_a = \pi R^2 (H) \times 300 - (\pi r_o^2 (H) \times 300)$
 V_w = one well volume (L)
 V_a = one standing volume (annulus)(L)

r_i = radius of well inside of pipe (m)
 r_o = radius of well outside of pipe (m)
 R = radius of the borehole (m)
 H = distance from static water level to bottom of well (m)
 2" casing has 2.032 L/m; 1" casing has 0.509 L/m
 8" sand pack has 9.271 L/m; 6 5/8" sand pack has 6.35 L/m

Groundwater Sampling Record

Project Number: 210.05780.00000 Date: 15-Nov-10
 Project Name: Groundwater Monitoring Program Weather: Sunny, 2°C
 Address: Harbourside Commercial Park Field Staff: AG/TR

BH ID	EOH from Log(m)	Monitoring Data					Purge Water Parameter Stabilization Data										Sampling Data				Comments	
		Headspace (ppm/%)	Depth (m)			Single Well Volume (L)	Purge Method	Start Time	Elapsed Purge Time (minutes)	Cumul. Purge Vol. (L)	T (°C)	pH	Conductivity	Dissolved Oxygen	Turbidity	Redox	Appear./ Odour	Sample ID	Sampling Method	Time		Analysis
			to Prod.	to GW	to EOH																	
SCU17-002-MW				5.549	10.481	34.38	Low flow	13:47	110	35	9.99	11.72	1.490	0.000	11.3	-185.0	Clear/None	SCU17-002-MW	Low flow	15:45	PAHs, Metals, Mercury, TPH/BTEX	
									112	35.25	9.92	11.77	1.480	0.000	10.8	-209.0	Clear/None					
									114	35.5	9.94	11.77	1.470	0.000	10.9	-214.0	Clear/None					
SCU16-001-MW				1.659	3.231		Low flow	16:15	3	1.0	11.01	9.02	0.753	5.350	17.5	112.0	Clear/None	SCU16-001-MW	Low flow	16:20	PAHs, Metals, Mercury, TPH/BTEX	
									5	1.3	10.88	8.85	0.754	4.560	11.3	117.0	Clear/None					
									7	1.5	10.82	8.78	0.755	4.330	14.7	120.0	Clear/None					
									9	1.8	10.80	8.76	0.753	4.330	10.3	123.0	Clear/None					

Note: All depth measurements from top of pipe
 Do not monitor EOH if free-product is present in well
 N/A=Not Applicable

Parameter Stabilization Guidelines: pH: +/- 0.2 units Redox: +/- 20mV
 Temp: +/- 0.1°C D/O: +/- 0.2mg/L
 Conductivity: +/- 3% Turbidity: +/- 10%

Well volume Calculation:
 One standing volume of water in well and annulus = $V_w + V_a$
 $V_w = \pi r_1^2 (H) \times 1000$
 $V_a = \pi (R^2 (H) \times 300 - (\pi r_2^2 (H) \times 300))$
 $V_w =$ one well volume (L)
 $V_a =$ one standing volume (annulus)(L)

$r_1 =$ radius of well inside of pipe (m)
 $r_2 =$ radius of well outside of pipe (m)
 $R =$ radius of the borehole (m)
 $H =$ distance from static water level to bottom of well (m)
 2" casing has 2.032 L/m; 1" casing has 0.509 L/m
 8" sand pack has 9.271 L/m; 6 5/8" sand pack has 6.35 L/m

Groundwater Sampling Record

Project Number: 210.05780.00000 Date: 16-Nov-10
 Project Name: Groundwater Monitoring Program Weather: Mainly sunny, 2°C
 Address: Harbourside Commercial Park Field Staff: AG/TR

BH ID	EOH from Log(m)	Monitoring Data					Purge Water Parameter Stabilization Data										Sampling Data				Comments					
		Headspace (ppm/%)	Depth (m)			Single Well Volume (L)	Purge Method	Start Time	Elapsed Purge Time (minutes)	Cumul. Purge Vol. (L)	T (°C)	pH	Conductivity	Dissolved Oxygen	Turbidity	Redox	Appear./ Odour	Sample ID	Sampling Method	Time		Analysis				
			to Prod.	to GW	to EOH																					
SCU25-005-MWB				7.796	30.129	156.68	Low flow	8:50	60	15	10.43	6.77	33.700	0.000	28.9	-57.0	Clear/None	SCU25-005-MWB	Low flow	15:45	PAHs, Metals, Mercury, TPH/BTEX	Tubing would not reach well bottom-purged 15 L before stabilization				
									62	15.5	10.29	6.65	33.700	0.000	28.8	-51.0	Clear/None									
									64	16	10.23	6.63	33.700	0.000	28.8	-50.0	Clear/None									
									66	16.5	10.21	6.62	33.700	0.000	29.5	-51.0	Clear/None									
SCU26-007-MW				11.223	12.390	8.13		11:15													Tubing/low flow would not work-used bailer-went dry after 2 L. Bailer could only get small amount of water each time					
SCU25-004-MW				7.713	9.420	12.3	Low flow	12:25	42	13.0	9.74	12.35	3.310	0.000	71.2	-228.0	Clear/None	SCU25-004-MW	Low flow	13:15	PAHs, Metals, Mercury, TPH/BTEX					
									44	14.0	9.74	12.37	3.290	0.000	126.0	-227.0	Clear/None									
									47	15.0	9.73	12.39	3.270	0.000	124.0	-225.0	Clear/None									

Note: All depth measurements from top of pipe
 Do not monitor EOH if free-product is present in well
 N/A=Not Applicable

Parameter Stabilization Guidelines: pH: +/- 0.2 units Redox: +/- 20mV
 Temp: +/- 0.1°C D/O: +/- 0.2mg/L
 Conductivity: +/- 3% Turbidity: +/- 10%

Well volume Calculation:
 One standing volume of water in well and annulus = $V_w + V_a$
 $V_w = \pi r_i^2 (H) \times 1000$
 $V_a = \pi R^2 (H) \times 300 - (\pi r_o^2 (H) \times 300)$
 V_w = one well volume (L)
 V_a = one standing volume (annulus)(L)

r_i = radius of well inside of pipe (m)
 r_o = radius of well outside of pipe (m)
 R = radius of the borehole (m)
 H = distance from static water level to bottom of well (m)
 2" casing has 2.032 L/m; 1" casing has 0.509 L/m
 8" sand pack has 9.271 L/m; 6 5/8" sand pack has 6.35 L/m

Groundwater Sampling Record

Project Number: 210.05780.00000 Date: 17-Nov-10
 Project Name: Groundwater Monitoring Program Weather: Drizzle, 10°C
 Address: Harbourside Commercial Park Field Staff: AG/TR

BH ID	EOH from Log(m)	Monitoring Data					Purge Water Parameter Stabilization Data										Sampling Data				Comments					
		Headspace (ppm/%)	Depth (m)			Single Well Volume (L)	Purge Method	Start Time	Elapsed Purge Time (minutes)	Cumul. Purge Vol. (L)	T (°C)	pH	Conductivity	Dissolved Oxygen	Turbidity	Redox	Appear./ Odour	Sample ID	Sampling Method	Time		Analysis				
			to Prod.	to GW	to EOH																					
SCU25-001-MW				8.051	12.665	32.16	Low flow	7:23	80	30	9.71	11.86	2.850	0.000	18.7	-232.0	Clear/Present	SCU25-001-MW	Low flow	8:55	PAHs, Metals, Mercury, TPH/BTEX	Egg odour in purge water				
									82	30.5	9.71	12.01	2.780	0.000	7.1	-284.0	Clear/Present									
									84	31	9.71	12.07	2.770	0.000	10.2	-301.0	Clear/Present									
									86	31.5	9.71	12.13	2.750	0.000	14.5	-312.0	Clear/Present									
SCU25-002-MW A				8.008	10.189	15.2	Low flow	7:47	35	11.0	9.90	12.14	2.730	0.000	54.0	-281.0	Clear/Slight	SCU25-002-MW A	Low flow	8:30	PAHs, Metals, Mercury, TPH/BTEX	Stick-up damaged (photo), casing exposed but in good condition; Slight egg odour from purge water				
									37	11.5	9.92	12.23	2.710	0.000	22.2	-290.0	Clear/Slight									
									39	12.0	9.91	12.25	2.700	0.000	54.0	-293.0	Clear/Slight									
SCU24-003-MW																						Well dry				

Note: All depth measurements from top of pipe
 Do not monitor EOH if free-product is present in well
 N/A=Not Applicable

Parameter Stabilization Guidelines: pH: +/- 0.2 units Redox: +/- 20mV
 Temp: +/- 0.1°C D/O: +/- 0.2mg/L
 Conductivity: +/- 3% Turbidity: +/- 10%

Well volume Calculation:
 One standing volume of water in well and annulus = $V_w + V_a$
 $V_w = \pi r_i^2 (H) \times 1000$
 $V_a = \pi R^2 (H) \times 300 - (\pi r_o^2 (H) \times 300)$
 V_w = one well volume (L)
 V_a = one standing volume (annulus)(L)

r_i = radius of well inside of pipe (m)
 r_o = radius of well outside of pipe (m)
 R = radius of the borehole (m)
 H = distance from static water level to bottom of well (m)
 2" casing has 2.032 L/m; 1" casing has 0.509 L/m
 8" sand pack has 9.271 L/m; 6 5/8" sand pack has 6.35 L/m

Groundwater Sampling Record

Project Number: 210.05780.00000 Date: 17-Nov-10
 Project Name: Groundwater Monitoring Program Weather: Drizzle, 10°C
 Address: Harbourside Commercial Park Field Staff: AG/TR

BH ID	EOH from Log(m)	Monitoring Data					Purge Water Parameter Stabilization Data										Sampling Data				Comments	
		Headspace (ppm/%)	Depth (m)			Single Well Volume (L)	Purge Method	Start Time	Elapsed Purge Time (minutes)	Cumul. Purge Vol. (L)	T (°C)	pH	Conductivity	Dissolved Oxygen	Turbidity	Redox	Appear./ Odour	Sample ID	Sampling Method	Time		Analysis
			to Prod.	to GW	to EOH																	
SCU24-012-MW																					Unable to insert tubing in well. Waterra in the way and cannot be removed; Product tone at 8m however no evidence of product	
SCU20-013-MW				8.000	11.247	22.63															Lots of sediment on probe; Sample water has green colour, filtered out for metals sample	
			3.478	8.028	31.72	Low flow	10:25	31	16.0	10.47	11.38	3.280	0.000	49.2	-334.0	Clear/green/None	SCU20-013-MW	Low flow	11:20	PAHs, Metals, Mercury, TPH/BTEX		
								33	16.5	10.41	11.39	3.230	0.000	84.6	-359.0	Clear/green/None						
								35	17.0	10.37	11.65	3.160	0.000	79.1	-384.0	Clear/green/None						
								37	17.5	10.38	11.75	3.110	0.000	126.0	-392.0	Clear/green/None						
								39	18.0	10.41	11.82	3.070	0.000	141.0	-399.0	Clear/green/None						
SCU20-014-MW			4.077	7.819	26.08	Low flow	10:35	60	17.0	12.19	11.20	1.380	0.060	180.0	-211.0	Clear/green/None	SCU20-014-MW	Low flow	11:45	PAHs, Metals, Mercury, TPH/BTEX	Lots of sediment on probe; Sample water has green colour, filtered out for metals sample	
								62	18.0	12.20	11.20	1.380	0.000	197.0	-222.0	Clear/green/None						
								64	19.0	12.20	11.21	1.380	0.000	186.0	-229.0	Clear/green/None						

Note: All depth measurements from top of pipe
 Do not monitor EOH if free-product is present in well
 N/A=Not Applicable

Parameter Stabilization Guidelines: pH: +/- 0.2 units Redox: +/- 20mV
 Temp: +/- 0.1°C D/O: +/- 0.2mg/L
 Conductivity: +/- 3% Turbidity: +/- 10%

Well volume Calculation:
 One standing volume of water in well and annulus = $V_w + V_a$
 $V_w = \pi r_i^2 (H) \times 1000$
 $V_a = \pi R^2 (H) \times 300 - (\pi r_o^2 (H) \times 300)$
 $V_w =$ one well volume (L)
 $V_a =$ one standing volume (annulus)(L)

r_i = radius of well inside of pipe (m)
 r_o = radius of well outside of pipe (m)
 R = radius of the borehole (m)
 H = distance from static water level to bottom of well (m)
 2" casing has 2.032 L/m; 1" casing has 0.509 L/m
 8" sand pack has 9.271 L/m; 6 5/8" sand pack has 6.35 L/m

Groundwater Sampling Record

Project Number: 210.05780.00000 Date: 17-Nov-10
 Project Name: Groundwater Monitoring Program Weather: Drizzle, 10°C
 Address: Harbourside Commercial Park Field Staff: AG/TR

BH ID	EOH from Log(m)	Monitoring Data					Purge Water Parameter Stabilization Data										Sampling Data				Comments													
		Headspace (ppm/%)	Depth (m)			Single Well Volume (L)	Purge Method	Start Time	Elapsed Purge Time (minutes)	Cumul. Purge Vol. (L)	T (°C)	pH	Conductivity	Dissolved Oxygen	Turbidity	Redox	Appear./ Odour	Sample ID	Sampling Method	Time		Analysis												
			to Prod.	to GW	to EOH																													
SCU20-015-MW				6.480	9.645	22.06	Low flow	11:55	45	16	11.60	10.41	1.730	0.000	1.4	-128.0	Clear/None	SCU20-015-MW	Low flow	12:55	PAHs, Metals, Mercury, TPH/BTEX	Purge water silty at start, then became clear												
									47	17	11.60	10.36	1.730	0.000	77.7	-148.0	Clear/None																	
									49	18	11.59	10.35	1.730	0.000	126.0	-155.0	Clear/None																	
									51	19	11.59	10.32	1.720	0.000	273.0	-160.0	Clear/None																	
SCU20-016-MW				4.880	9.560	32.62	Low flow	12:07	60	20.0	13.31	9.43	1.080	1.490	53.9	-130.0	Clear/None	SCU20-016-MW	Low flow	13:20	PAHs, Metals, Mercury, TPH/BTEX	Purge water silty at start, then became clear												
									62	21.0	13.34	9.47	1.080	0.610	39.6	-158.0	Clear/None																	
									63	22.0	13.31	9.60	1.070	0.200	48.0	-188.0	Clear/None																	
SCU20-017-MW				3.332	7.725	32.08	Low flow	13:30	49	23.0	13.57	11.04	1.220	0.000	52.1	-262.0	Clear/None	SCU20-017-MW	Low flow		PAHs, Metals, Mercury, TPH/BTEX	Soft bottom; purge water silty at start, then became clear												
									51	24.0	13.58	11.09	1.220	0.000	29.6	-269.0	Clear/None																	
									53	25.0	13.58	11.12	1.220	0.000	52.0	-274.0	Clear/None																	

Note: All depth measurements from top of pipe
 Do not monitor EOH if free-product is present in well
 N/A=Not Applicable

Parameter Stabilization Guidelines: pH: +/- 0.2 units Redox: +/- 20mV
 Temp: +/- 0.1°C D/O: +/- 0.2mg/L
 Conductivity: +/- 3% Turbidity: +/- 10%

Well volume Calculation:
 One standing volume of water in well and annulus = $V_w + V_a$
 $V_w = \pi r_i^2 (H) \times 1000$
 $V_a = \pi R^2 (H) \times 300 - (\pi r_o^2 (H) \times 300)$
 $V_w =$ one well volume (L)
 $V_a =$ one standing volume (annulus)(L)

r_i = radius of well inside of pipe (m)
 r_o = radius of well outside of pipe (m)
 R = radius of the borehole (m)
 H = distance from static water level to bottom of well (m)
 2" casing has 2.032 L/m; 1" casing has 0.509 L/m
 8" sand pack has 9.271 L/m; 6 5/8" sand pack has 6.35 L/m

Groundwater Sampling Record

Project Number: 210.05780.00000 Date: 17-Nov-10
 Project Name: Groundwater Monitoring Program Weather: Drizzle, 10°C
 Address: Harbourside Commercial Park Field Staff: AG/TR

BH ID	EOH from Log(m)	Monitoring Data					Purge Water Parameter Stabilization Data										Sampling Data				Comments	
		Headspace (ppm/%)	Depth (m)			Single Well Volume (L)	Purge Method	Start Time	Elapsed Purge Time (minutes)	Cumul. Purge Vol. (L)	T (°C)	pH	Conductivity	Dissolved Oxygen	Turbidity	Redox	Appear/Odour	Sample ID	Sampling Method	Time		Analysis
			to Prod.	to GW	to EOH																	
SCU20-018-MW				2.174	5.072	20.17	Low flow	13:45	61	19	11.64	9.23	1.690	0.000	13.6	32.0	Clear/None	SCU20-018-MW	Low flow	14:50	PAHs, Metals, Mercury, TPH/BTEX	Lots of sediment on probe; Purge water silty at first then became clear
									63	19.5	11.64	9.16	1.690	0.000	13.2	28.0	Clear/None					
									65	20	11.64	9.10	1.690	0.000	12.9	24.0	Clear/None					
SCU18-010-MW				3.175	5.030	12.93	Low flow	15:00	38	11.0	12.28	10.42	1.470	0.000	16.8	-106.0	Clear/None	SCU18-010-MW	Low flow	15:45	PAHs, Metals, Mercury, TPH/BTEX	Purge water silty (light brown) then clear
									40	12.0	12.27	10.45	1.470	0.000	15.9	-117.0	Clear/None					
									42	13.0	12.26	10.46	1.480	0.000	14.6	-124.0	Clear/None					
SCU18-011-MW				2.033	4.495	17.16	Low flow	15:10	49	16.0	12.70	7.89	1.240	0.000	18.8	-216.0	Clear/None	SCU18-011-MW	Low flow	16:15	PAHs, Metals, Mercury, TPH/BTEX	Purge water silty then clear
									51	16.5	12.71	7.87	1.230	0.000	23.8	-218.0	Clear/None					
									53	17.0	12.70	7.93	1.240	0.000	20.1	-222.0	Clear/None					

Note: All depth measurements from top of pipe
 Do not monitor EOH if free-product is present in well
 N/A=Not Applicable

Parameter Stabilization Guidelines: pH: +/- 0.2 units Redox: +/- 20mV
 Temp: +/- 0.1°C D/O: +/- 0.2mg/L
 Conductivity: +/- 3% Turbidity: +/- 10%

Well volume Calculation:
 One standing volume of water in well and annulus = $V_w + V_a$
 $V_w = \pi r_i^2 (H) \times 1000$
 $V_a = \pi R^2 (H) \times 300 - (\pi r_o^2 (H) \times 300)$
 V_w = one well volume (L)
 V_a = one standing volume (annulus)(L)

r_i = radius of well inside of pipe (m)
 r_o = radius of well outside of pipe (m)
 R = radius of the borehole (m)
 H = distance from static water level to bottom of well (m)
 2" casing has 2.032 L/m; 1" casing has 0.509 L/m
 8" sand pack has 9.271 L/m; 6 5/8" sand pack has 6.35 L/m

Groundwater Sampling Record

Project Number: 210.05780.00000 Date: 18-Nov-10
 Project Name: Groundwater Monitoring Program Weather: Mix of sun, cloud, rain, wind, 3C
 Address: Harbourside Commercial Park Field Staff: AG/TR

BH ID	EOH from Log(m)	Monitoring Data					Purge Water Parameter Stabilization Data										Sampling Data				Comments	
		Headspace (ppm/%)	Depth (m)			Single Well Volume (L)	Purge Method	Start Time	Elapsed Purge Time (minutes)	Cumul. Purge Vol. (L)	T (°C)	pH	Conductivity	Dissolved Oxygen	Turbidity	Redox	Appear./ Odour	Sample ID	Sampling Method	Time		Analysis
			to Prod.	to GW	to EOH																	
SCU19-015-MW						Low flow	7:55	2	3.25	13.09	8.45	1.760	1.540	5.3	-43.0	Clear/None	SCU19-015-MW	Low flow	8:10	PAHs, Metals, Mercury, TPH/BTEX	Well adjacent to BFA remediation-oily water in nearby excavation; No evidence of product on probe; Sampled w/o temp. stabilization (sunny) 4+ L out of well	
								4	3.5	13.20	8.30	1.760	0.820	4.3	-54.0	Clear/None						
								6	3.75	13.25	8.26	1.760	0.620	3.7	-60.0	Clear/None						
			5.790		6.540			8	4	13.34	8.24	1.760	0.420	3.7	-59.0	Clear/None						
SCU19-002-MWA						Low flow	8:30	49	11.0	10.53	8.41	15.300	0.910	90.9	-177.0	Clear/None	SCU19-002-MWA	Low flow	9:30	PAHs, Metals, Mercury, TPH/BTEX	Purge water dark brown/silty then became clear	
								51	11.5	10.51	8.46	15.300	0.240	150.0	-118.0	Clear/None						
			7.545		9.800			53	12.0	10.51	8.55	15.300	0.000	10.5	-196.0	Clear/None						
								55	12.5	10.52	8.64	15.700	0.000	29.1	-204.0	Clear/None						
SCU19-002-MWB						Low flow	8:45	58	16.0	10.17	8.00	3.580	0.170	16.1	123.0	Clear/None	SCU19-002-MWB	Low flow	9:50	PAHs, Metals, Mercury, TPH/BTEX	Purge water dark brown/silty then became clear	
								64	18.0	10.16	7.66	4.680	0.000	14.6	20.0	Clear/None						
			7.235		22.580			66	18.5	10.16	7.54	6.680	0.000	16.4	-40.0	Clear/None						
								68	19.0	10.18	7.43	10.600	0.000	18.5	-69.0	Clear/None						
								70	19.5	10.19	7.40	11.600	0.000	19.7	-73.0	Clear/None						
								72	20.0	10.22	7.34	12.000	0.000	14.4	-72.0	Clear/None						
								74	20.5	10.23	7.32	12.100	0.000	20.0	-72.0	Clear/None						
								76	21.0	10.25	7.30	12.200	0.000	34.4	-72.0	Clear/None						

Note: All depth measurements from top of pipe
 Do not monitor EOH if free-product is present in well
 N/A=Not Applicable

Parameter Stabilization Guidelines: pH: +/- 0.2 units Redox: +/- 20mV
 Temp: +/- 0.1°C D/O: +/- 0.2mg/L
 Conductivity: +/- 3% Turbidity: +/- 10%

Well volume Calculation:
 One standing volume of water in well and annulus = $V_w + V_a$
 $V_w = \pi r_i^2 (H) \times 1000$
 $V_a = \pi R^2 (H) \times 300 - (\pi r_o^2 (H) \times 300)$
 V_w = one well volume (L)
 V_a = one standing volume (annulus)(L)

r_i = radius of well inside of pipe (m)
 r_o = radius of well outside of pipe (m)
 R = radius of the borehole (m)
 H = distance from static water level to bottom of well (m)
 2" casing has 2.032 L/m; 1" casing has 0.509 L/m
 8" sand pack has 9.271 L/m; 6 5/8" sand pack has 6.35 L/m

Groundwater Sampling Record

Project Number: 210.05780.00000 Date: 18-Nov-10
 Project Name: Groundwater Monitoring Program Weather: Mix of sun, cloud, rain, wind, 3C
 Address: Harbourside Commercial Park Field Staff: AG/TR

BH ID	EOH from Log(m)	Monitoring Data					Purge Water Parameter Stabilization Data										Sampling Data				Comments		
		Headspace (ppm/%)	Depth (m)			Single Well Volume (L)	Purge Method	Start Time	Elapsed Purge Time (minutes)	Cumul. Purge Vol. (L)	T (°C)	pH	Conductivity	Dissolved Oxygen	Turbidity	Redox	Appear./ Odour	Sample ID	Sampling Method	Time		Analysis	
			to Prod.	to GW	to EOH																		
SCU19-016-MW				8.880	10.370	10.39	Low flow	10:15	40	5	9.93	10.93	1.920	1.870	186.0	4.0	Clear/None	SCU19-016-MW	Low flow	11:20	PAHs, Metals, Mercury, TPH/BTEX		
									42	5.5	9.91	10.92	1.860	0.970	173.0	-14.0	Clear/None						
									44	6	9.89	10.96	1.890	0.350	70.6	-39.0	Clear/None						
									46	6.5	9.87	10.99	1.890	0.040	47.7	-57.0	Clear/None						
SCU24-007-MWB				7.333	16.125	61.29	Low flow	12:00	52	16.0	11.27	7.55	6.680	0.000	72.1	-118.0	Clear/None	SCU24-007-MWB	Low flow	13:15	PAHs, Metals, Mercury, TPH/BTEX		
									54	16.5	11.26	7.52	6.670	0.000	68.1	-120.0	Clear/None						
									56	17.0	11.27	7.50	6.680	0.000	78.3	-122.0	Clear/None						
SCU24-013-MW				8.198	11.200	20.9	Low flow	12:20									Clear/Slight	SCU24-013-MW	Low flow	13:30	PAHs, Metals, Mercury, TPH/BTEX, VOCs		

Note: All depth measurements from top of pipe
 Do not monitor EOH if free-product is present in well
 N/A=Not Applicable

Parameter Stabilization Guidelines: pH: +/- 0.2 units Redox: +/- 20mV
 Temp: +/- 0.1°C D/O: +/- 0.2mg/L
 Conductivity: +/- 3% Turbidity: +/- 10%

Well volume Calculation:
 One standing volume of water in well and annulus = $V_w + V_a$
 $V_w = \pi r_i^2 (H) \times 1000$
 $V_a = \pi R^2 (H) \times 300 - (\pi r_o^2 (H) \times 300)$
 $V_w =$ one well volume (L)
 $V_a =$ one standing volume (annulus)(L)

r_i = radius of well inside of pipe (m)
 r_o = radius of well outside of pipe (m)
 R = radius of the borehole (m)
 H = distance from static water level to bottom of well (m)
 2" casing has 2.032 L/m; 1" casing has 0.509 L/m
 8" sand pack has 9.271 L/m; 6 5/8" sand pack has 6.35 L/m

No j-plug-not enough room for new one - cut casing?

This well sampled instead of SCU24-012-MW (Wattera tubing could not be removed, obstructing access to well); Product tone at 9.235m, none seen on probe. Sides of casing have product. Stabilization equipment not used. Purged 15 L, then sampled; Lock needs to be replaced

Groundwater Sampling Record

Project Number: 210.05780.00000 Date: 18-Nov-10
 Project Name: Groundwater Monitoring Program Weather: Mix of sun, cloud, rain, wind, 3C
 Address: Harbourside Commercial Park Field Staff: AG/TR

BH ID	EOH from Log(m)	Monitoring Data					Purge Water Parameter Stabilization Data										Sampling Data				Comments	
		Depth (m)			Single Well Volume (L)	Purge Method	Start Time	Elapsed Purge Time (minutes)	Cumul. Purge Vol. (L)	T (°C)	pH	Conductivity	Dissolved Oxygen	Turbidity	Redox	Appear./ Odour	Sample ID	Sampling Method	Time	Analysis		
		to Prod.	to GW	to EOH																		
SCU31-013-MWA				6.468	8.617	14.98	Low flow	14:15	50	7	11.13	11.54	1.740	1.410	210.0	-197.0	Slightly cloudy/None	SCU31-013-MWA	Low flow	15:00	PAHs, Metals, Mercury, TPH/BTEX	Flush mount in driveway to Portside Aggregates; No j-plug; Garbage bag shoved in casing; Installed new j-plug
									52	7.5	11.12	11.66	1.770	0.710	210.0	-208.0	Clear/None					
									54	8	11.11	11.71	1.800	0.520	188.0	-214.0	Clear/None					
SCU31-013-MWC				6.494	23.330	117.36	Low flow	14:20	70	31.0	11.45	7.14	8.340	0.390	13.6	-31.0	Clear/None	SCU31-013-MWC	Low flow	15:40	PAHs, Metals, Mercury, TPH/BTEX	Flush mount in driveway to Portside Aggregates
									72	32.0	11.46	7.09	8.330	0.000	17.3	-34.0	Clear/None					
									74	33.0	11.45	7.08	8.340	0.000	20.6	-37.0	Clear/None					
SCU31-013-MWB				6.490	18.581	84.28	Low flow	15:03	60	20.0	11.13	9.33	3.890	0.000	164.0	-190.0	Clear/None	SCU31-013-MWB	Low flow	15:03		Flush mount in driveway to Portside Aggregates
									62	21.0	11.14	9.26	4.030	0.000	130.0	-201.0	Clear/None					
									64	22.0	11.17	9.20	4.090	0.000	120.0	-217.0	Clear/None					
									68	24.0	11.19	9.16	4.110	0.000	173.0	-227.0	Clear/None					

Note: All depth measurements from top of pipe
 Do not monitor EOH if free-product is present in well
 N/A=Not Applicable

Parameter Stabilization Guidelines: pH: +/- 0.2 units Redox: +/- 20mV
 Temp: +/- 0.1°C D/O: +/- 0.2mg/L
 Conductivity: +/- 3% Turbidity: +/- 10%

Well volume Calculation:
 One standing volume of water in well and annulus = $V_w + V_a$
 $V_w = \pi r_i^2 (H) \times 1000$
 $V_a = \pi R^2 (H) \times 300 - (\pi r_o^2 (H) \times 300)$
 V_w = one well volume (L)
 V_a = one standing volume (annulus)(L)

r_i = radius of well inside of pipe (m)
 r_o = radius of well outside of pipe (m)
 R = radius of the borehole (m)
 H = distance from static water level to bottom of well (m)
 2" casing has 2.032 L/m; 1" casing has 0.509 L/m
 8" sand pack has 9.271 L/m; 6 5/8" sand pack has 6.35 L/m

Groundwater Sampling Record

Project Number: 210.05780.00000 Date: 19-Nov-10
 Project Name: Groundwater Monitoring Program Weather: Cloudy, 4° C
 Address: Harbourside Commercial Park Field Staff: AG/TR

BH ID	EOH from Log(m)	Monitoring Data					Purge Water Parameter Stabilization Data										Sampling Data				Comments		
		Depth (m)			Single Well Volume (L)	Purge Method	Start Time	Elapsed Purge Time (minutes)	Cumul. Purge Vol. (L)	T (°C)	pH	Conductivity	Dissolved Oxygen	Turbidity	Redox	Appear./ Odour	Sample ID	Sampling Method	Time	Analysis			
		to Prod.	to GW	to EOH																			
SCU18-007-MW					13	Low flow	7:30	40	13	11.21	8.59	0.743	1.400	13.3	74.0	Clear/None	SCU18-007-MW	Low flow	8:15	PAHs, Metals, Mercury, TPH/BTEX			
																						Clear/None	
																						Clear/None	
			1.455					3.319															
SCU18-009-MW					20.67	Low flow	7:45	51	15.0	11.26	8.85	0.735	1.850	5.9	-118.0	Clear/Present	SCU18-009-MW	Low flow	8:50	PAHs, Metals, Mercury, TPH/BTEX			
																						Clear/Present	
																						Clear/Present	
			2.920					5.886															Clear/Present
																							Clear/Present
SCU17-012-MW					9.83	Low flow	9:21	19	5.5	11.99	7.90	0.351	7.050	22.3	63.0	Clear/None	SCU18-012-MW	Low flow	9:50	PAHs, Metals, Mercury, TPH/BTEX			
																						Clear/None	
																						Clear/None	
			3.795					5.205															Clear/None
																							Clear/None
																					Purge water silty with rust colour, then clear		

Note: All depth measurements from top of pipe
 Do not monitor EOH if free-product is present in well
 N/A=Not Applicable

Parameter Stabilization Guidelines: pH: +/- 0.2 units Redox: +/- 20mV
 Temp: +/- 0.1°C D/O: +/- 0.2mg/L
 Conductivity: +/- 3% Turbidity: +/- 10%

Well volume Calculation:
 One standing volume of water in well and annulus = $V_w + V_a$
 $V_w = \pi r_i^2 (H) \times 1000$
 $V_a = \pi R^2 (H) \times 300 - (\pi r_o^2 (H) \times 300)$
 $V_w =$ one well volume (L)
 $V_a =$ one standing volume (annulus)(L)

r_i = radius of well inside of pipe (m)
 r_o = radius of well outside of pipe (m)
 R = radius of the borehole (m)
 H = distance from static water level to bottom of well (m)
 2" casing has 2.032 L/m; 1" casing has 0.509 L/m
 8" sand pack has 9.271 L/m; 6 5/8" sand pack has 6.35 L/m

Groundwater Sampling Record

Project Number: 210.05780.00000 Date: 19-Nov-10
 Project Name: Groundwater Monitoring Program Weather: Cloudy, 4° C
 Address: Harbourside Commercial Park Field Staff: AG/TR

BH ID	EOH from Log(m)	Monitoring Data					Purge Water Parameter Stabilization Data										Sampling Data				Comments	
		Headspace (ppm/%)	Depth (m)			Single Well Volume (L)	Purge Method	Start Time	Elapsed Purge Time (minutes)	Cumul. Purge Vol. (L)	T (°C)	pH	Conductivity	Dissolved Oxygen	Turbidity	Redox	Appear./ Odour	Sample ID	Sampling Method	Time		Analysis
			to Prod.	to GW	to EOH																	
SCU6-004-MW				5.020	5.737	5	Low flow										SCU6-004-MW	Low flow	10:15	PAHs, Metals, Mercury, TPH/BTEX	Sheen present in purge/sample water; Did not stabilize due to hydrocarbon presence; Purged 1.5 L	
SCU26-007-MW			11.244	12.399	8.051	Bailer															Could not get sample with bailer-would get stuck near bottom of well and only bring up a very small amount of water, not enough to sample	

Note: All depth measurements from top of pipe
 Do not monitor EOH if free-product is present in well
 N/A=Not Applicable

Parameter Stabilization Guidelines: pH: +/- 0.2 units Redox: +/- 20mV
 Temp: +/- 0.1°C D/O: +/- 0.2mg/L
 Conductivity: +/- 3% Turbidity: +/- 10%

Well volume Calculation:
 One standing volume of water in well and annulus = $V_w + V_a$
 $V_w = \pi r_1^2 (H) \times 1000$
 $V_a = \pi R^2 (H) \times 300 - (\pi r_2^2 (H) \times 300)$
 V_w = one well volume (L)
 V_a = one standing volume (annulus)(L)

r_1 = radius of well inside of pipe (m)
 r_2 = radius of well outside of pipe (m)
 R = radius of the borehole (m)
 H = distance from static water level to bottom of well (m)
 2" casing has 2.032 L/m; 1" casing has 0.509 L/m
 8" sand pack has 9.271 L/m; 6 5/8" sand pack has 6.35 L/m

Groundwater Sampling Record

Project Number: 210.05780.00000 Date: 26-Nov-10
 Project Name: Groundwater Monitoring Program Weather: Cloudy, 4°
 Address: Harbourside Commercial Park Field Staff: TR

BH ID	EOH from Log(m)	Monitoring Data					Purge Water Parameter Stabilization Data									Sampling Data				Comments		
		Headspace (ppm/%)	Depth (m)			Single Well Volume (L)	Purge Method	Start Time	Elapsed Purge Time (minutes)	Cumul. Purge Vol. (l)	T (°C)	pH	Conductivity	Dissolved Oxygen	Turbidity	Redox	Appear./ Odour	Sample ID	Sampling Method		Time	Analysis
			to Prod.	to GW	to EOH																	
SCU7-006-MWB				1.070	12.335	Low flow	14:15	60	33	9.89	6.52	0.825	0.000	75.7	-23.0	Clear/None	SCU7-006-MWB	Low flow	15:00	PAHs, Metals, Mercury, TPH/BTEX	Flush mount partially buried; Bentonite surrounding j-plug; put painted stake in ground next to well	
								62	33.5	9.87	6.47	0.826	0.000	76.6	-23.0	Clear/None						
								64	34	9.87	6.41	0.825	0.000	76.5	-23.0	Clear/None						
SCU7-006-MWA				1.560	4.898	Low flow	15:30	42	14.0	11.29	6.58	0.973	1.740	15.9	-6.0	Clear/None	SCU7-006-MWA	Low flow	15:45	PAHs, Metals, Mercury, TPH/BTEX		
								44	14.5	11.30	6.60	0.972	1.630	15.9	-7.0	Clear/None						
								46	15.0	11.29	6.63	0.970	1.290	15.6	-13.0	Clear/None						

Note: All depth measurements from top of pipe
 Do not monitor EOH if free-product is present in well
 N/A=Not Applicable

Parameter Stabilization Guidelines: pH: +/- 0.2 units Redox: +/- 20mV
 Temp: +/- 0.1°C D/O: +/- 0.2mg/L
 Conductivity: +/- 3% Turbidity: +/- 10%

Well volume Calculation:
 One standing volume of water in well and annulus = $V_w + V_a$
 $V_w = \pi r_i^2 (H) \times 1000$
 $V_a = \pi R^2 (H) \times 300 - (\pi r_i^2 (H) \times 300)$
 $V_w =$ one well volume (L)
 $V_a =$ one standing volume (annulus)(L)

r_i = radius of well inside of pipe (m)
 r_o = radius of well outside of pipe (m)
 R = radius of the borehole (m)
 H = distance from static water level to bottom of well (m)
 2" casing has 2.032 L/m; 1" casing has 0.509 L/m
 8" sand pack has 9.271 L/m; 6 5/8" sand pack has 6.35 L/m

APPENDIX B

Analytical Certificates

2010 Groundwater Monitoring Program
Harbourside Commercial Park, Sydney, NS
SLR Ref: 210.05780.00000

Your Project #: 210.05479.03
 Site: SCU 20 MWS
 Your C.O.C. #: B124943

Attention: Kelly Henderson

SLR Consulting (Canada) Ltd
 45 Wabina Crt., Suite 107B
 PO Box 791, Station A
 Sydney, NS
 B1P 6K5

Report Date: 2010/09/15

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B0C2752

Received: 2010/09/07, 11:17

Sample Matrix: Water
 # Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Carbonate, Bicarbonate and Hydroxide	4	N/A	2010/09/15	CAM SOP-00102	APHA 4500-CO2 D
Alkalinity by Auto. Titration in Water	4	N/A	2010/09/15	ATL SOP 00167 R2	Based on SM2320B
Chloride \emptyset	4	N/A	2010/09/14	ATL SOP 00014 R6	Based on SM4500-CI-
Colour	4	N/A	2010/09/10	ATL SOP-00159 R4	Based on SM2120
Conductance - water	4	N/A	2010/09/15	ATL SOP-00169 R2	Based on SM2510
TEH in Water (PIRI)	4	2010/09/10	2010/09/10	ATL SOP-00151 R5	Based on ATL PIRI
Hardness (calculated as CaCO ₃)	3	N/A	2010/09/13		
Hardness (calculated as CaCO ₃)	1	N/A	2010/09/14		
Elements by ICPMS - low dissolved	3	N/A	2010/09/11	ATL SOP 00161 R6	Based on EPA6020A
Elements by ICPMS - low dissolved	1	N/A	2010/09/13	ATL SOP 00161 R6	Based on EPA6020A
Ion Balance (% Difference)	3	N/A	2010/09/15		
Anion and Cation Sum	4	N/A	2010/09/15		
Nitrogen Ammonia - water \emptyset	4	N/A	2010/09/13	ATL SOP 00015 R5	Based on USEPA 350.1
Nitrogen - Nitrate + Nitrite \emptyset	4	N/A	2010/09/13	ATL SOP 00016 R4	Based on USGS - Enz.
Nitrogen - Nitrite \emptyset	4	N/A	2010/09/14	ATL SOP 00017 R4	Based on SM4500-NO2B
Nitrogen - Nitrate (as N) \emptyset	4	N/A	2010/09/15	ATL SOP 00018 R3	Based on ASTM D3867
PAH in Water by GC/MS (SIM)	4	2010/09/08	2010/09/10	ATL SOP 00147 R5	Based on EPA 8270C
pH	4	N/A	2010/09/15	ATL SOP 00168 R4	Based on SM4500H+
Phosphorus - ortho \emptyset	4	N/A	2010/09/14	ATL SOP 00021 R3	Based on USEPA 365.1
VPH in Water (PIRI) \emptyset	3	2010/09/10	2010/09/11	ATL SOP 00118 R4	Based on Atl. PIRI
VPH in Water (PIRI) \emptyset	1	2010/09/10	2010/09/13	ATL SOP 00118 R4	Based on Atl. PIRI
Sat. pH and Langelier Index (@ 20C)	4	N/A	2010/09/15		
Sat. pH and Langelier Index (@ 4C)	4	N/A	2010/09/15		
Silica by ICP-MS/Calculation	4	N/A	2010/09/13	ATL SOP 00161 R5	Based on EPA6020
Sulphate \emptyset	4	N/A	2010/09/14	ATL SOP 00023 R3	Based on EPA 375.4
Total Dissolved Solids (TDS calc)	4	N/A	2010/09/15		
Organic carbon - Total (TOC)	3	N/A	2010/09/09	ATL SOP-00180 R4	Based on SM5310C
Organic carbon - Total (TOC)	1	N/A	2010/09/10	ATL SOP-00180 R4	Based on SM5310C
ModTPH (T1) Calc. for Water	1	N/A	2010/09/14	ATL SOP-00151 R4	Based on Atl PIRI
ModTPH (T1) Calc. for Water	3	N/A	2010/09/15	ATL SOP-00151 R4	Based on Atl PIRI
Turbidity	3	N/A	2010/09/13	ATL SOP-00166 R6	based on SM2130
Turbidity	1	N/A	2010/09/14	ATL SOP-00166 R6	based on SM2130

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bedford

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

TRACY MACLEOD-FLOYD,
Email: Tracy.MacLeod.Reports@maxxamalytics.com
Phone# (902) 567 1255

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 1

Page 2 of 17

This document is in electronic format, hard copy is available on request.

Maxxam Job #: B0C2752
 Report Date: 2010/09/15

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05479.03
 Project name: SCU 20 MWS

RCP BEDFORD ANIONS SYD DIS MET FW (WATER)

Maxxam ID		HB5661			HB5689		
Sampling Date		2010/09/03 12:10			2010/09/03 01:50		
COC Number		B124943			B124943		
	Units	SCU20-013-MW	RDL	QC Batch	SCU20-014-MW	RDL	QC Batch

Calculated Parameters							
Anion Sum	me/L	19.3	N/A	2257744	11.6	N/A	2257744
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	5	1	2257740	31	1	2257740
Calculated TDS	mg/L	1230	1	2257748	790	1	2257748
Carb. Alkalinity (calc. as CaCO3)	mg/L	136	1	2257740	9	1	2257740
Cation Sum	me/L	22.8	N/A	2257744	11.3	N/A	2257744
Hardness (CaCO3)	mg/L	390	1	2257742	420	1	2257742
Ion Balance (% Difference)	%	8.26	N/A	2257743	1.22	N/A	2257743
Langelier Index (@ 20C)	N/A	2.78		2257746	1.69		2257746
Langelier Index (@ 4C)	N/A	2.53		2257747	1.44		2257747
Nitrate (N)	mg/L	ND	0.05	2257054	0.07	0.05	2257054
Saturation pH (@ 20C)	N/A	8.72		2257746	7.81		2257746
Saturation pH (@ 4C)	N/A	8.97		2257747	8.06		2257747
Inorganics							
Alkalinity (Total as CaCO3)	mg/L	300	5	2264232	41	5	2264232
Dissolved Chloride (Cl)	mg/L	330	5	2263009	110	5	2263009
Colour	TCU	36	5	2261409	22	5	2261409
Nitrate + Nitrite	mg/L	ND	0.05	2263023	0.07	0.05	2263023
Nitrite (N)	mg/L	ND	0.01	2263027	ND	0.01	2263027
Nitrogen (Ammonia Nitrogen)	mg/L	7.3	0.3	2263259	2.0	0.05	2263259
Total Organic Carbon (C)	mg/L	38	0.5	2262864	8.9	0.5	2261381
Orthophosphate (P)	mg/L	ND	0.01	2263018	0.01	0.01	2263018
pH	pH	11.5	N/A	2264206	9.50	N/A	2264206
Silica (SiO2)	mg/L	11	0.1	2263266	46	0.1	2263266
Dissolved Sulphate (SO4)	mg/L	190	10	2263013	370	10	2263013
Turbidity	NTU	10	0.1	2263031	5.1	0.1	2263031
Conductivity	uS/cm	2600	1	2264216	1100	1	2264216
Metals							
Dissolved Aluminum (Al)	ug/L	220	50	2261928	60	5.0	2261928
Dissolved Antimony (Sb)	ug/L	5.3	4.0	2261928	0.63	0.40	2261928
Dissolved Arsenic (As)	ug/L	14	6.0	2261928	7.9	0.60	2261928

 ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0C2752
 Report Date: 2010/09/15

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05479.03
 Project name: SCU 20 MWS

RCP BEDFORD ANIONS SYD DIS MET FW (WATER)

Maxxam ID		HB5661			HB5689		
Sampling Date		2010/09/03 12:10			2010/09/03 01:50		
COC Number		B124943			B124943		
	Units	SCU20-013-MW	RDL	QC Batch	SCU20-014-MW	RDL	QC Batch

Dissolved Barium (Ba)	ug/L	77	4.0	2261928	27	0.40	2261928
Dissolved Beryllium (Be)	ug/L	ND	5.0	2261928	ND	0.50	2261928
Dissolved Bismuth (Bi)	ug/L	ND	20	2261928	ND	2.0	2261928
Dissolved Boron (B)	ug/L	ND	1000	2261928	ND	100	2261928
Dissolved Cadmium (Cd)	ug/L	0.29	0.17	2261928	ND	0.017	2261928
Dissolved Calcium (Ca)	ug/L	160000	1000	2261928	170000	100	2261928
Dissolved Chromium (Cr)	ug/L	ND	10	2261928	ND	1.0	2261928
Dissolved Cobalt (Co)	ug/L	ND	10	2261928	ND	1.0	2261928
Dissolved Copper (Cu)	ug/L	ND	20	2261928	ND	2.0	2261928
Dissolved Iron (Fe)	ug/L	ND	1000	2261928	ND	100	2261928
Dissolved Lead (Pb)	ug/L	ND	10	2261928	ND	1.0	2261928
Dissolved Lithium (Li)	ug/L	ND	10	2261928	3.3	1.0	2261928
Dissolved Magnesium (Mg)	ug/L	ND	600	2261928	ND	60	2261928
Dissolved Manganese (Mn)	ug/L	ND	40	2261928	ND	4.0	2261928
Dissolved Molybdenum (Mo)	ug/L	85	40	2261928	54	4.0	2261928
Dissolved Nickel (Ni)	ug/L	46	30	2261928	22	3.0	2261928
Dissolved Phosphorus (P)	ug/L	ND	1000	2261928	200	100	2261928
Dissolved Potassium (K)	ug/L	41000	6000	2261928	15000	600	2261928
Dissolved Selenium (Se)	ug/L	ND	10	2261928	2.2	1.0	2261928
Dissolved Silver (Ag)	ug/L	ND	1.0	2261928	ND	0.10	2261928
Dissolved Sodium (Na)	ug/L	310000	3000	2261928	56000	300	2261928
Dissolved Strontium (Sr)	ug/L	1800	20	2261928	470	2.0	2261928
Dissolved Thallium (Tl)	ug/L	ND	8.0	2261928	ND	0.80	2261928
Dissolved Tin (Sn)	ug/L	ND	200	2261928	ND	20	2261928
Dissolved Titanium (Ti)	ug/L	ND	30	2261928	ND	3.0	2261928
Dissolved Uranium (U)	ug/L	ND	1.5	2261928	ND	0.15	2261928
Dissolved Vanadium (V)	ug/L	46	20	2261928	8.1	2.0	2261928
Dissolved Zinc (Zn)	ug/L	ND	50	2261928	ND	5.0	2261928

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0C2752
 Report Date: 2010/09/15

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05479.03
 Project name: SCU 20 MWS

RCP BEDFORD ANIONS SYD DIS MET FW (WATER)

Maxxam ID		HB5690			HB5691		
Sampling Date		2010/09/03 05:35			2010/09/03 01:30		
COC Number		B124943			B124943		
	Units	SCU20-015-MW	RDL	QC Batch	TB-002	RDL	QC Batch

Calculated Parameters							
Anion Sum	me/L	21.7	N/A	2257744	0.00	N/A	2257744
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	16	1	2257740	ND	1	2257740
Calculated TDS	mg/L	1410	1	2257748	ND	1	2257748
Carb. Alkalinity (calc. as CaCO3)	mg/L	15	1	2257740	ND	1	2257740
Cation Sum	me/L	19.1	N/A	2257744	0.00	N/A	2257744
Hardness (CaCO3)	mg/L	810	1	2257742	ND	1	2257742
Ion Balance (% Difference)	%	6.52	N/A	2257743		N/A	2257743
Langelier Index (@ 20C)	N/A	2.11		2257746	NC		2257746
Langelier Index (@ 4C)	N/A	1.87		2257747	NC		2257747
Nitrate (N)	mg/L	0.07	0.05	2257054	ND	0.05	2257054
Saturation pH (@ 20C)	N/A	7.89		2257746	NC		2257746
Saturation pH (@ 4C)	N/A	8.13		2257747	NC		2257747
Inorganics							
Alkalinity (Total as CaCO3)	mg/L	36	5	2265897	ND	5	2265897
Dissolved Chloride (Cl)	mg/L	88	1	2263009	ND	1	2263009
Colour	TCU	7	5	2261409	ND	5	2261409
Nitrate + Nitrite	mg/L	0.07	0.05	2263023	ND	0.05	2263023
Nitrite (N)	mg/L	ND	0.01	2263027	ND	0.01	2263027
Nitrogen (Ammonia Nitrogen)	mg/L	0.50	0.05	2263259	ND	0.05	2263259
Total Organic Carbon (C)	mg/L	5.6	0.5	2261381	ND	0.5	2261381
Orthophosphate (P)	mg/L	0.01	0.01	2263018	ND	0.01	2263018
pH	pH	10.0	N/A	2265887	6.40	N/A	2265887
Silica (SiO2)	mg/L	12	0.1	2263266	0.2	0.1	2263266
Dissolved Sulphate (SO4)	mg/L	890	20	2263013	ND	2	2263013
Turbidity	NTU	0.8	0.1	2263031	ND	0.1	2264384
Conductivity	uS/cm	1800	1	2265896	ND	1	2265896
Metals							
Dissolved Aluminum (Al)	ug/L	31	5.0	2261928	ND	5.0	2261928
Dissolved Antimony (Sb)	ug/L	0.54	0.40	2261928	ND	0.40	2261928
Dissolved Arsenic (As)	ug/L	11	0.60	2261928	ND	0.60	2261928

 ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0C2752
 Report Date: 2010/09/15

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05479.03
 Project name: SCU 20 MWS

RCP BEDFORD ANIONS SYD DIS MET FW (WATER)

Maxxam ID		HB5690			HB5691		
Sampling Date		2010/09/03 05:35			2010/09/03 01:30		
COC Number		B124943			B124943		
	Units	SCU20-015-MW	RDL	QC Batch	TB-002	RDL	QC Batch

Dissolved Barium (Ba)	ug/L	28	0.40	2261928	ND	0.40	2261928
Dissolved Beryllium (Be)	ug/L	ND	0.50	2261928	ND	0.50	2261928
Dissolved Bismuth (Bi)	ug/L	ND	2.0	2261928	ND	2.0	2261928
Dissolved Boron (B)	ug/L	ND	100	2261928	ND	100	2261928
Dissolved Cadmium (Cd)	ug/L	ND	0.017	2261928	ND	0.017	2261928
Dissolved Calcium (Ca)	ug/L	320000	100	2261928	ND	100	2261928
Dissolved Chromium (Cr)	ug/L	ND	1.0	2261928	ND	1.0	2261928
Dissolved Cobalt (Co)	ug/L	ND	1.0	2261928	ND	1.0	2261928
Dissolved Copper (Cu)	ug/L	ND	2.0	2261928	ND	2.0	2261928
Dissolved Iron (Fe)	ug/L	ND	100	2261928	ND	100	2261928
Dissolved Lead (Pb)	ug/L	ND	1.0	2261928	ND	1.0	2261928
Dissolved Lithium (Li)	ug/L	4.8	1.0	2261928	ND	1.0	2261928
Dissolved Magnesium (Mg)	ug/L	520	60	2261928	ND	60	2261928
Dissolved Manganese (Mn)	ug/L	9.5	4.0	2261928	ND	4.0	2261928
Dissolved Molybdenum (Mo)	ug/L	43	4.0	2261928	ND	4.0	2261928
Dissolved Nickel (Ni)	ug/L	7.4	3.0	2261928	ND	3.0	2261928
Dissolved Phosphorus (P)	ug/L	ND	100	2261928	ND	100	2261928
Dissolved Potassium (K)	ug/L	15000	600	2261928	ND	600	2261928
Dissolved Selenium (Se)	ug/L	ND	1.0	2261928	ND	1.0	2261928
Dissolved Silver (Ag)	ug/L	ND	0.10	2261928	ND	0.10	2261928
Dissolved Sodium (Na)	ug/L	58000	300	2261928	ND	300	2261928
Dissolved Strontium (Sr)	ug/L	770	2.0	2261928	ND	2.0	2261928
Dissolved Thallium (Tl)	ug/L	ND	0.80	2261928	ND	0.80	2261928
Dissolved Tin (Sn)	ug/L	ND	20	2261928	ND	20	2261928
Dissolved Titanium (Ti)	ug/L	ND	3.0	2261928	ND	3.0	2261928
Dissolved Uranium (U)	ug/L	ND	0.15	2261928	ND	0.15	2261928
Dissolved Vanadium (V)	ug/L	59	2.0	2261928	ND	2.0	2261928
Dissolved Zinc (Zn)	ug/L	ND	5.0	2261928	ND	5.0	2261928

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0C2752
 Report Date: 2010/09/15

SLR Consulting (Canada) Ltd
 Client Project #: 210.05479.03
 Project name: SCU 20 MWS

SYD/ BED TIER1 (WATER)

Maxxam ID		HB5661	HB5689	HB5690	HB5691		
Sampling Date		2010/09/03 12:10	2010/09/03 01:50	2010/09/03 05:35	2010/09/03 01:30		
COC Number		B124943	B124943	B124943	B124943		
	Units	SCU20-013-MW	SCU20-014-MW	SCU20-015-MW	TB-002	RDL	QC Batch

Petroleum Hydrocarbons							
Benzene	mg/L	0.014	0.002	0.003	ND	0.001	2261762
Toluene	mg/L	0.026	0.003	0.001	ND	0.001	2261762
Ethylbenzene	mg/L	0.011	ND	ND	ND	0.001	2261762
Xylene (Total)	mg/L	0.077	0.006	0.003	ND	0.002	2261762
C6 - C10 (less BTEX)	mg/L	0.12	ND	ND	ND	0.01	2261762
>C10-C16 Hydrocarbons	mg/L	1.3	0.3	0.3	ND	0.2	2262889
>C16-C21 Hydrocarbons	mg/L	0.6	ND	ND	ND	0.2	2262889
>C21-<C32 Hydrocarbons	mg/L	ND	ND	ND	ND	0.5	2262889
Modified TPH (Tier1)	mg/L	2.0	ND	ND	ND	0.5	2257749
Reached Baseline at C32	mg/L	Yes	Yes	Yes	Yes	N/A	2262889
Hydrocarbon Resemblance	mg/L	SEE NOTE (1)	SEE NOTE (1)	SEE NOTE (1)	NA	N/A	2262889
Surrogate Recovery (%)							
Isobutylbenzene - Extractable	%	90	96	90	98		2262889
n-Dotriacontane - Extractable	%	93	97	90	96		2262889
Isobutylbenzene - Volatile	%	87	92	97	98		2261762

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 (1) Fuel Oil Range

Maxxam Job #: B0C2752
 Report Date: 2010/09/15

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05479.03
 Project name: SCU 20 MWS

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Maxxam ID		HB5661		HB5689		HB5690		HB5691		
Sampling Date		2010/09/03 12:10		2010/09/03 01:50		2010/09/03 05:35		2010/09/03 01:30		
COC Number		B124943		B124943		B124943		B124943		
	Units	SCU20-013-MW	RDL	SCU20-014-MW	SCU20-015-MW	RDL	TB-002	RDL	QC Batch	

Polyaromatic Hydrocarbons									
1-Methylnaphthalene	ug/L	28 (1)	3	5.9	8.3	0.05	ND	0.05	2259150
2-Methylnaphthalene	ug/L	40 (1)	3	9.2	11	0.05	ND	0.05	2259150
Acenaphthene	ug/L	5.1	0.01	1.1	1.5	0.01	ND	0.01	2259150
Acenaphthylene	ug/L	18	0.01	2.8	4.1	0.01	ND	0.01	2259150
Anthracene	ug/L	1.8	0.01	0.72	1.2	0.01	ND	0.01	2259150
Benzo(a)anthracene	ug/L	0.11	0.01	0.16	0.05	0.01	ND	0.01	2259150
Benzo(a)pyrene	ug/L	0.04	0.01	0.10	0.01	0.01	ND	0.01	2259150
Benzo(b)fluoranthene	ug/L	0.04	0.01	0.07	ND	0.01	ND	0.01	2259150
Benzo(g,h,i)perylene	ug/L	0.01	0.01	0.05	ND	0.01	ND	0.01	2259150
Benzo(k)fluoranthene	ug/L	0.02	0.01	0.05	ND	0.01	ND	0.01	2259150
Chrysene	ug/L	0.12	0.01	0.17	0.06	0.01	ND	0.01	2259150
Dibenz(a,h)anthracene	ug/L	ND	0.01	0.02	ND	0.01	ND	0.01	2259150
Fluoranthene	ug/L	0.92	0.01	0.79	0.65	0.01	ND	0.01	2259150
Fluorene	ug/L	11	0.01	3.3	3.8	0.01	ND	0.01	2259150
Indeno(1,2,3-cd)pyrene	ug/L	0.01	0.01	0.05	ND	0.01	ND	0.01	2259150
Naphthalene	ug/L	460 (1)	10	44 (1)	29 (1)	1	ND	0.2	2259150
Perylene	ug/L	0.01	0.01	0.03	ND	0.01	ND	0.01	2259150
Phenanthrene	ug/L	8.0	0.01	3.3	4.0	0.01	ND	0.01	2259150
Pyrene	ug/L	0.57	0.01	0.58	0.42	0.01	ND	0.01	2259150
Surrogate Recovery (%)									
D10-Anthracene	%	61		67	71		115		2259150
D14-Terphenyl	%	80		68	80		85		2259150
D8-Acenaphthylene	%	81		66	73		79		2259150

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 (1) PAH RDL(s) elevated due to sample dilution.

Maxxam Job #: B0C2752
Report Date: 2010/09/15

SLR Consulting (Canada) Ltd
Client Project #: 210.05479.03
Project name: SCU 20 MWS

GENERAL COMMENTS

Sample HB5661-01: Reporting limits for ICP-MS metals elevated due to dilution for interfering compounds.

Ion balance >5% due to sample matrix.

Sample HB5690-01: Ion balance >5% due to sample matrix.

Sample HB5691-01: RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Results relate only to the items tested.

SLR Consulting (Canada) Ltd
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 P.O. #:
 Project name: SCU 20 MWS

Quality Assurance Report
 Maxxam Job Number: KB0C2752

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2259150 TML	Matrix Spike [HB5689-01]	D10-Anthracene	2010/09/10		67	%	30 - 130
		D14-Terphenyl	2010/09/10		73	%	30 - 130
		D8-Acenaphthylene	2010/09/10		67	%	30 - 130
		1-Methylnaphthalene	2010/09/10		23 (1)	%	50 - 130
		2-Methylnaphthalene	2010/09/10		-11 (1)	%	50 - 130
		Acenaphthene	2010/09/10		59	%	50 - 130
		Acenaphthylene	2010/09/10		64	%	50 - 130
		Anthracene	2010/09/10		71	%	50 - 130
		Benzo(a)anthracene	2010/09/10		62	%	50 - 130
		Benzo(a)pyrene	2010/09/10		67	%	50 - 130
		Benzo(b)fluoranthene	2010/09/10		77	%	50 - 130
		Benzo(g,h,i)perylene	2010/09/10		79	%	50 - 130
		Benzo(k)fluoranthene	2010/09/10		87	%	50 - 130
		Chrysene	2010/09/10		62	%	50 - 130
		Dibenz(a,h)anthracene	2010/09/10		71	%	50 - 130
		Fluoranthene	2010/09/10		70	%	50 - 130
		Fluorene	2010/09/10		39 (1)	%	50 - 130
		Indeno(1,2,3-cd)pyrene	2010/09/10		73	%	50 - 130
		Naphthalene	2010/09/10		-840 (1)	%	50 - 130
		Perylene	2010/09/10		73	%	50 - 130
	Phenanthrene	2010/09/10		40 (1)	%	50 - 130	
	Pyrene	2010/09/10		70	%	50 - 130	
	Spiked Blank	D10-Anthracene	2010/09/10		118	%	30 - 130
		D14-Terphenyl	2010/09/10		87	%	30 - 130
		D8-Acenaphthylene	2010/09/10		96	%	30 - 130
		1-Methylnaphthalene	2010/09/10		97	%	50 - 130
		2-Methylnaphthalene	2010/09/10		77	%	50 - 130
		Acenaphthene	2010/09/10		79	%	50 - 130
		Acenaphthylene	2010/09/10		85	%	50 - 130
		Anthracene	2010/09/10		96	%	50 - 130
		Benzo(a)anthracene	2010/09/10		85	%	50 - 130
		Benzo(a)pyrene	2010/09/10		73	%	50 - 130
		Benzo(b)fluoranthene	2010/09/10		94	%	50 - 130
		Benzo(g,h,i)perylene	2010/09/10		76	%	50 - 130
		Benzo(k)fluoranthene	2010/09/10		97	%	50 - 130
		Chrysene	2010/09/10		103	%	50 - 130
		Dibenz(a,h)anthracene	2010/09/10		71	%	50 - 130
		Fluoranthene	2010/09/10		84	%	50 - 130
		Fluorene	2010/09/10		76	%	50 - 130
		Indeno(1,2,3-cd)pyrene	2010/09/10		81	%	50 - 130
Naphthalene		2010/09/10		88	%	50 - 130	
Perylene		2010/09/10		76	%	50 - 130	
Phenanthrene	2010/09/10		80	%	50 - 130		
Pyrene	2010/09/10		82	%	50 - 130		
Method Blank	D10-Anthracene	2010/09/10		83	%	30 - 130	
	D14-Terphenyl	2010/09/10		76	%	30 - 130	
	D8-Acenaphthylene	2010/09/10		72	%	30 - 130	
	1-Methylnaphthalene	2010/09/10		ND, RDL=0.05		ug/L	
	2-Methylnaphthalene	2010/09/10		ND, RDL=0.05		ug/L	
	Acenaphthene	2010/09/10		ND, RDL=0.01		ug/L	
	Acenaphthylene	2010/09/10		ND, RDL=0.01		ug/L	
	Anthracene	2010/09/10		ND, RDL=0.01		ug/L	
	Benzo(a)anthracene	2010/09/10		ND, RDL=0.01		ug/L	
	Benzo(a)pyrene	2010/09/10		ND, RDL=0.01		ug/L	

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Quality Assurance Report (Continued)

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits		
2259150 TML	Method Blank	Benzo(b)fluoranthene	2010/09/10	ND, RDL=0.01		ug/L			
		Benzo(g,h,i)perylene	2010/09/10	ND, RDL=0.01		ug/L			
		Benzo(k)fluoranthene	2010/09/10	ND, RDL=0.01		ug/L			
		Chrysene	2010/09/10	ND, RDL=0.01		ug/L			
		Dibenz(a,h)anthracene	2010/09/10	ND, RDL=0.01		ug/L			
		Fluoranthene	2010/09/10	ND, RDL=0.01		ug/L			
		Fluorene	2010/09/10	ND, RDL=0.01		ug/L			
		Indeno(1,2,3-cd)pyrene	2010/09/10	ND, RDL=0.01		ug/L			
		Naphthalene	2010/09/10	ND, RDL=0.2		ug/L			
		Perylene	2010/09/10	ND, RDL=0.01		ug/L			
		Phenanthrene	2010/09/10	ND, RDL=0.01		ug/L			
		Pyrene	2010/09/10	ND, RDL=0.01		ug/L			
		RPD [HB5661-01]		1-Methylnaphthalene	2010/09/10	12.0 (2)		%	40
				2-Methylnaphthalene	2010/09/10	20.0 (2)		%	40
				Acenaphthene	2010/09/10	4.0		%	40
				Acenaphthylene	2010/09/10	9.1		%	40
				Anthracene	2010/09/10	29.1		%	40
				Benzo(a)anthracene	2010/09/10	31.8		%	40
				Benzo(a)pyrene	2010/09/10	NC (3)		%	40
				Benzo(b)fluoranthene	2010/09/10	NC		%	40
				Benzo(g,h,i)perylene	2010/09/10	NC		%	40
				Benzo(k)fluoranthene	2010/09/10	NC		%	40
				Chrysene	2010/09/10	31.9		%	40
				Dibenz(a,h)anthracene	2010/09/10	NC		%	40
				Fluoranthene	2010/09/10	11.9		%	40
				Fluorene	2010/09/10	2.1		%	40
				Indeno(1,2,3-cd)pyrene	2010/09/10	NC		%	40
				Naphthalene	2010/09/10	6.2 (2)		%	40
				Perylene	2010/09/10	NC		%	40
				Phenanthrene	2010/09/10	4.0		%	40
		Pyrene	2010/09/10	15.3		%	40		
		2261381 BMI	Matrix Spike	Total Organic Carbon (C)	2010/09/09		86	%	80 - 120
				QC Standard	2010/09/09		104	%	80 - 120
Spiked Blank	2010/09/09				97	%	80 - 120		
Method Blank	2010/09/09			ND, RDL=0.5		mg/L			
RPD	2010/09/09			9.6		%	25		
2261409 JAU	Calibration Check	Colour	2010/09/10		102	%	N/A		
		Matrix Spike	2010/09/10		81	%	80 - 120		
		Spiked Blank	2010/09/10		91	%	80 - 120		
		Method Blank	2010/09/10	ND, RDL=5		TCU			
		RPD	2010/09/10	NC		%	25		
2261762 MSK	Matrix Spike	Isobutylbenzene - Volatile	2010/09/11		89	%	70 - 130		
		Benzene	2010/09/11		87	%	70 - 130		
		Toluene	2010/09/11		91	%	70 - 130		
		Ethylbenzene	2010/09/11		91	%	70 - 130		
		Xylene (Total)	2010/09/11		94	%	70 - 130		
	Spiked Blank	Isobutylbenzene - Volatile	2010/09/13		97	%	70 - 130		
		Benzene	2010/09/13		96	%	70 - 130		
		Toluene	2010/09/13		105	%	70 - 130		
		Ethylbenzene	2010/09/13		106	%	70 - 130		
		Xylene (Total)	2010/09/13		110	%	70 - 130		
	Method Blank	Isobutylbenzene - Volatile	2010/09/11		72	%	70 - 130		
		Benzene	2010/09/11	ND, RDL=0.001		mg/L			
		Toluene	2010/09/11	ND, RDL=0.001		mg/L			
	Ethylbenzene	2010/09/11	ND, RDL=0.001		mg/L				

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2261762 MSK	Method Blank	Xylene (Total)	2010/09/11	ND, RDL=0.002		mg/L		
		C6 - C10 (less BTEX)	2010/09/11	ND, RDL=0.01		mg/L		
	RPD	Benzene	2010/09/11	NC		%	40	
		Toluene	2010/09/11	NC		%	40	
		Ethylbenzene	2010/09/11	NC		%	40	
		Xylene (Total)	2010/09/11	NC		%	40	
2261928 MSA	Matrix Spike	C6 - C10 (less BTEX)	2010/09/11	NC		%	40	
		Dissolved Aluminum (Al)	2010/09/11		94	%	75 - 125	
		Dissolved Antimony (Sb)	2010/09/11		109	%	75 - 125	
		Dissolved Arsenic (As)	2010/09/11		94	%	75 - 125	
		Dissolved Barium (Ba)	2010/09/11		101	%	75 - 125	
		Dissolved Beryllium (Be)	2010/09/11		98	%	75 - 125	
		Dissolved Bismuth (Bi)	2010/09/11		101	%	75 - 125	
		Dissolved Boron (B)	2010/09/11		103	%	75 - 125	
		Dissolved Cadmium (Cd)	2010/09/11		108	%	75 - 125	
		Dissolved Calcium (Ca)	2010/09/11		120	%	75 - 125	
		Dissolved Chromium (Cr)	2010/09/11		100	%	75 - 125	
		Dissolved Cobalt (Co)	2010/09/11		103	%	75 - 125	
		Dissolved Copper (Cu)	2010/09/11		95	%	75 - 125	
		Dissolved Iron (Fe)	2010/09/11		100	%	75 - 125	
		Dissolved Lead (Pb)	2010/09/11		104	%	75 - 125	
		Dissolved Lithium (Li)	2010/09/11		98	%	75 - 125	
		Dissolved Magnesium (Mg)	2010/09/11		82	%	75 - 125	
		Dissolved Manganese (Mn)	2010/09/11		98	%	75 - 125	
		Dissolved Molybdenum (Mo)	2010/09/11		110	%	75 - 125	
		Dissolved Nickel (Ni)	2010/09/11		98	%	75 - 125	
		Dissolved Phosphorus (P)	2010/09/11		105	%	75 - 125	
		Dissolved Potassium (K)	2010/09/11		98	%	75 - 125	
		Dissolved Selenium (Se)	2010/09/11		94	%	75 - 125	
		Dissolved Silver (Ag)	2010/09/11		67 (4)	%	75 - 125	
		Dissolved Sodium (Na)	2010/09/11		95	%	75 - 125	
		Dissolved Strontium (Sr)	2010/09/11		101	%	75 - 125	
		Dissolved Thallium (Tl)	2010/09/11		101	%	75 - 125	
		Dissolved Tin (Sn)	2010/09/11		106	%	75 - 125	
		Dissolved Titanium (Ti)	2010/09/11		95	%	75 - 125	
		Dissolved Uranium (U)	2010/09/11		108	%	75 - 125	
		Dissolved Vanadium (V)	2010/09/11		104	%	75 - 125	
		Dissolved Zinc (Zn)	2010/09/11		97	%	75 - 125	
		QC Standard	Dissolved Aluminum (Al)	2010/09/11		98	%	75 - 125
			Dissolved Antimony (Sb)	2010/09/11		105	%	75 - 125
Dissolved Arsenic (As)	2010/09/11			86	%	75 - 125		
Dissolved Barium (Ba)	2010/09/11			93	%	75 - 125		
Dissolved Beryllium (Be)	2010/09/11			92	%	75 - 125		
Dissolved Bismuth (Bi)	2010/09/11			100	%	75 - 125		
Dissolved Boron (B)	2010/09/11			100	%	75 - 125		
Dissolved Cadmium (Cd)	2010/09/11			92	%	75 - 125		
Dissolved Calcium (Ca)	2010/09/11			95	%	75 - 125		
Dissolved Chromium (Cr)	2010/09/11			105	%	75 - 125		
Dissolved Cobalt (Co)	2010/09/11			100	%	75 - 125		
Dissolved Copper (Cu)	2010/09/11			92	%	75 - 125		
Dissolved Iron (Fe)	2010/09/11			88	%	75 - 125		
Dissolved Lead (Pb)	2010/09/11			98	%	75 - 125		
Dissolved Lithium (Li)	2010/09/11			95	%	75 - 125		
Dissolved Magnesium (Mg)	2010/09/11			93	%	75 - 125		
Dissolved Manganese (Mn)	2010/09/11		102	%	75 - 125			

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Quality Assurance Report (Continued)

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits		
2261928 MSA	QC Standard	Dissolved Molybdenum (Mo)	2010/09/11		104	%	75 - 125		
		Dissolved Nickel (Ni)	2010/09/11		96	%	75 - 125		
		Dissolved Potassium (K)	2010/09/11		100	%	75 - 125		
		Dissolved Selenium (Se)	2010/09/11		79	%	75 - 125		
		Dissolved Silver (Ag)	2010/09/11		94	%	75 - 125		
		Dissolved Sodium (Na)	2010/09/11		95	%	75 - 125		
		Dissolved Strontium (Sr)	2010/09/11		96	%	75 - 125		
		Dissolved Thallium (Tl)	2010/09/11		96	%	75 - 125		
		Dissolved Vanadium (V)	2010/09/11		104	%	75 - 125		
		Dissolved Zinc (Zn)	2010/09/11		82	%	75 - 125		
		Spiked Blank		Dissolved Aluminum (Al)	2010/09/11		89	%	75 - 125
				Dissolved Antimony (Sb)	2010/09/11		100	%	75 - 125
				Dissolved Arsenic (As)	2010/09/11		90	%	75 - 125
				Dissolved Barium (Ba)	2010/09/11		102	%	75 - 125
				Dissolved Beryllium (Be)	2010/09/11		105	%	75 - 125
				Dissolved Bismuth (Bi)	2010/09/11		101	%	75 - 125
				Dissolved Boron (B)	2010/09/11		111	%	75 - 125
				Dissolved Cadmium (Cd)	2010/09/11		103	%	75 - 125
				Dissolved Calcium (Ca)	2010/09/11		92	%	75 - 125
				Dissolved Chromium (Cr)	2010/09/11		99	%	75 - 125
				Dissolved Cobalt (Co)	2010/09/11		101	%	75 - 125
				Dissolved Copper (Cu)	2010/09/11		96	%	75 - 125
				Dissolved Iron (Fe)	2010/09/11		95	%	75 - 125
				Dissolved Lead (Pb)	2010/09/11		101	%	75 - 125
				Dissolved Lithium (Li)	2010/09/11		97	%	75 - 125
				Dissolved Magnesium (Mg)	2010/09/11		91	%	75 - 125
				Dissolved Manganese (Mn)	2010/09/11		95	%	75 - 125
				Dissolved Molybdenum (Mo)	2010/09/11		105	%	75 - 125
				Dissolved Nickel (Ni)	2010/09/11		97	%	75 - 125
				Dissolved Phosphorus (P)	2010/09/11		98	%	75 - 125
				Dissolved Potassium (K)	2010/09/11		92	%	75 - 125
				Dissolved Selenium (Se)	2010/09/11		98	%	75 - 125
				Dissolved Sodium (Na)	2010/09/11		91	%	75 - 125
Dissolved Strontium (Sr)	2010/09/11				105	%	75 - 125		
Dissolved Thallium (Tl)	2010/09/11				100	%	75 - 125		
Dissolved Tin (Sn)	2010/09/11				101	%	75 - 125		
Dissolved Titanium (Ti)	2010/09/11				92	%	75 - 125		
Dissolved Uranium (U)	2010/09/11		102	%	75 - 125				
Dissolved Vanadium (V)	2010/09/11		102	%	75 - 125				
Dissolved Zinc (Zn)	2010/09/11		97	%	75 - 125				
Method Blank		Dissolved Aluminum (Al)	2010/09/11	ND, RDL=5.0		ug/L			
		Dissolved Antimony (Sb)	2010/09/11	ND, RDL=0.40		ug/L			
		Dissolved Arsenic (As)	2010/09/11	ND, RDL=0.60		ug/L			
		Dissolved Barium (Ba)	2010/09/11	ND, RDL=0.40		ug/L			
		Dissolved Beryllium (Be)	2010/09/11	ND, RDL=0.50		ug/L			
		Dissolved Bismuth (Bi)	2010/09/11	ND, RDL=2.0		ug/L			
		Dissolved Boron (B)	2010/09/11	ND, RDL=100		ug/L			
		Dissolved Cadmium (Cd)	2010/09/11	ND, RDL=0.017		ug/L			
		Dissolved Calcium (Ca)	2010/09/11	ND, RDL=100		ug/L			
		Dissolved Chromium (Cr)	2010/09/11	ND, RDL=1.0		ug/L			
		Dissolved Cobalt (Co)	2010/09/11	ND, RDL=1.0		ug/L			
		Dissolved Copper (Cu)	2010/09/11	ND, RDL=2.0		ug/L			
		Dissolved Iron (Fe)	2010/09/11	ND, RDL=100		ug/L			
		Dissolved Lead (Pb)	2010/09/11	ND, RDL=1.0		ug/L			
		Dissolved Lithium (Li)	2010/09/11	ND, RDL=1.0		ug/L			

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2261928 MSA	Method Blank	Dissolved Magnesium (Mg)	2010/09/11	ND, RDL=60		ug/L	
		Dissolved Manganese (Mn)	2010/09/11	ND, RDL=4.0		ug/L	
		Dissolved Molybdenum (Mo)	2010/09/11	ND, RDL=4.0		ug/L	
		Dissolved Nickel (Ni)	2010/09/11	ND, RDL=3.0		ug/L	
		Dissolved Phosphorus (P)	2010/09/11	ND, RDL=100		ug/L	
		Dissolved Potassium (K)	2010/09/11	ND, RDL=600		ug/L	
		Dissolved Selenium (Se)	2010/09/11	ND, RDL=1.0		ug/L	
		Dissolved Silver (Ag)	2010/09/11	ND, RDL=0.10		ug/L	
		Dissolved Sodium (Na)	2010/09/11	ND, RDL=300		ug/L	
		Dissolved Strontium (Sr)	2010/09/11	ND, RDL=2.0		ug/L	
		Dissolved Thallium (Tl)	2010/09/11	ND, RDL=0.80		ug/L	
		Dissolved Tin (Sn)	2010/09/11	ND, RDL=20		ug/L	
		Dissolved Titanium (Ti)	2010/09/11	ND, RDL=3.0		ug/L	
		Dissolved Uranium (U)	2010/09/11	ND, RDL=0.15		ug/L	
		Dissolved Vanadium (V)	2010/09/11	ND, RDL=2.0		ug/L	
		Dissolved Zinc (Zn)	2010/09/11	ND, RDL=5.0		ug/L	
	RPD	Dissolved Aluminum (Al)	2010/09/11	8.8		%	25
		Dissolved Antimony (Sb)	2010/09/11	NC		%	25
		Dissolved Arsenic (As)	2010/09/11	1.9		%	25
		Dissolved Barium (Ba)	2010/09/11	1.4		%	25
		Dissolved Beryllium (Be)	2010/09/11	NC		%	25
		Dissolved Bismuth (Bi)	2010/09/11	NC		%	25
		Dissolved Boron (B)	2010/09/11	NC		%	25
		Dissolved Cadmium (Cd)	2010/09/11	NC		%	25
		Dissolved Calcium (Ca)	2010/09/11	4.3		%	25
		Dissolved Chromium (Cr)	2010/09/11	NC		%	25
		Dissolved Cobalt (Co)	2010/09/11	NC		%	25
		Dissolved Copper (Cu)	2010/09/11	NC		%	25
		Dissolved Iron (Fe)	2010/09/11	5.2		%	25
		Dissolved Lead (Pb)	2010/09/11	NC		%	25
		Dissolved Lithium (Li)	2010/09/11	3.8		%	25
		Dissolved Magnesium (Mg)	2010/09/11	3.1		%	25
		Dissolved Manganese (Mn)	2010/09/11	2.2		%	25
		Dissolved Molybdenum (Mo)	2010/09/11	NC		%	25
		Dissolved Nickel (Ni)	2010/09/11	NC		%	25
		Dissolved Phosphorus (P)	2010/09/11	NC		%	25
		Dissolved Potassium (K)	2010/09/11	3.2		%	25
		Dissolved Selenium (Se)	2010/09/11	NC		%	25
		Dissolved Silver (Ag)	2010/09/11	NC		%	25
		Dissolved Sodium (Na)	2010/09/11	1.0		%	25
		Dissolved Strontium (Sr)	2010/09/11	2.1		%	25
		Dissolved Thallium (Tl)	2010/09/11	NC		%	25
		Dissolved Tin (Sn)	2010/09/11	NC		%	25
		Dissolved Titanium (Ti)	2010/09/11	NC		%	25
		Dissolved Uranium (U)	2010/09/11	NC		%	25
		Dissolved Vanadium (V)	2010/09/11	NC		%	25
		Dissolved Zinc (Zn)	2010/09/11	NC		%	25
2262864 BMI	Matrix Spike	Total Organic Carbon (C)	2010/09/10		111	%	80 - 120
	QC Standard	Total Organic Carbon (C)	2010/09/10		105	%	80 - 120
	Spiked Blank	Total Organic Carbon (C)	2010/09/10		101	%	80 - 120
	Method Blank	Total Organic Carbon (C)	2010/09/10	ND, RDL=0.5		mg/L	
	RPD	Total Organic Carbon (C)	2010/09/10	NC		%	25
2262889 JLY	Matrix Spike	Isobutylbenzene - Extractable	2010/09/10		122	%	30 - 130
	[HB5689-01]	n-Dotriacontane - Extractable	2010/09/10		116	%	30 - 130

SLR Consulting (Canada) Ltd
 Attention: Kelly Henderson
 Client Project #: 210.05479.03
 P.O. #:
 Project name: SCU 20 MWS

Quality Assurance Report (Continued)

Maxxam Job Number: KB0C2752

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2262889 JLY	Matrix Spike [HB5689-01]	>C10-C16 Hydrocarbons	2010/09/10		68 (5)	%	70 - 130	
		>C16-C21 Hydrocarbons	2010/09/10		70	%	70 - 130	
		>C21-<C32 Hydrocarbons	2010/09/10		80	%	50 - 120	
	Spiked Blank	Isobutylbenzene - Extractable	2010/09/10		91	%	30 - 130	
		n-Dotriacontane - Extractable	2010/09/10		90	%	30 - 130	
		>C10-C16 Hydrocarbons	2010/09/10		89	%	70 - 130	
	Method Blank	>C16-C21 Hydrocarbons	2010/09/10		90	%	70 - 130	
		>C21-<C32 Hydrocarbons	2010/09/10		105	%	50 - 120	
		Isobutylbenzene - Extractable	2010/09/10		110	%	30 - 130	
	RPD	n-Dotriacontane - Extractable	2010/09/10		109	%	30 - 130	
		>C10-C16 Hydrocarbons	2010/09/10		ND, RDL=0.2		mg/L	
		>C16-C21 Hydrocarbons	2010/09/10		ND, RDL=0.2		mg/L	
		>C21-<C32 Hydrocarbons	2010/09/10		ND, RDL=0.5		mg/L	
		>C10-C16 Hydrocarbons	2010/09/10		NC		%	40
		>C16-C21 Hydrocarbons	2010/09/10		NC		%	40
>C21-<C32 Hydrocarbons		2010/09/10		NC		%	40	
2263009 SMT		Matrix Spike	Dissolved Chloride (Cl)	2010/09/14		NC	%	80 - 120
		QC Standard	Dissolved Chloride (Cl)	2010/09/14		100	%	80 - 120
	Spiked Blank	Dissolved Chloride (Cl)	2010/09/14		101	%	80 - 120	
	Method Blank	Dissolved Chloride (Cl)	2010/09/14		ND, RDL=1		mg/L	
	RPD	Dissolved Chloride (Cl)	2010/09/14		0.4	%	25	
2263013 SMT	Matrix Spike	Dissolved Sulphate (SO4)	2010/09/14		108	%	80 - 120	
	QC Standard	Dissolved Sulphate (SO4)	2010/09/14		103	%	80 - 120	
	Spiked Blank	Dissolved Sulphate (SO4)	2010/09/14		107	%	80 - 120	
	Method Blank	Dissolved Sulphate (SO4)	2010/09/14		ND, RDL=2		mg/L	
	RPD	Dissolved Sulphate (SO4)	2010/09/14		NC		%	25
2263018 SMT	Matrix Spike	Orthophosphate (P)	2010/09/14		101	%	80 - 120	
	QC Standard	Orthophosphate (P)	2010/09/14		98	%	80 - 120	
	Spiked Blank	Orthophosphate (P)	2010/09/14		99	%	80 - 120	
	Method Blank	Orthophosphate (P)	2010/09/14		ND, RDL=0.01		mg/L	
	RPD	Orthophosphate (P)	2010/09/14		NC		%	25
2263023 DLB	Matrix Spike	Nitrate + Nitrite	2010/09/13		102	%	80 - 120	
	QC Standard	Nitrate + Nitrite	2010/09/13		98	%	80 - 120	
	Spiked Blank	Nitrate + Nitrite	2010/09/13		102	%	80 - 120	
	Method Blank	Nitrate + Nitrite	2010/09/13		ND, RDL=0.05		mg/L	
	RPD	Nitrate + Nitrite	2010/09/13		1.3	%	25	
2263027 SMT	Matrix Spike	Nitrite (N)	2010/09/14		93	%	80 - 120	
	QC Standard	Nitrite (N)	2010/09/14		95	%	80 - 120	
	Spiked Blank	Nitrite (N)	2010/09/14		95	%	80 - 120	
	Method Blank	Nitrite (N)	2010/09/14		ND, RDL=0.01		mg/L	
	RPD	Nitrite (N)	2010/09/14		NC		%	25
2263031 JAU	Calibration Check	Turbidity	2010/09/13		98	%	N/A	
	Matrix Spike	Turbidity	2010/09/13		98	%	75 - 125	
	Spiked Blank	Turbidity	2010/09/13		110	%	75 - 125	
	Method Blank	Turbidity	2010/09/13		ND, RDL=0.1		NTU	
	RPD	Turbidity	2010/09/13		NC		%	25
2263259 DLB	Matrix Spike	Nitrogen (Ammonia Nitrogen)	2010/09/13		94	%	80 - 120	
	QC Standard	Nitrogen (Ammonia Nitrogen)	2010/09/13		99	%	80 - 120	
	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2010/09/13		96	%	80 - 120	
	Method Blank	Nitrogen (Ammonia Nitrogen)	2010/09/13		ND, RDL=0.05		mg/L	
	RPD	Nitrogen (Ammonia Nitrogen)	2010/09/13		NC		%	25
2263266 MSA	Matrix Spike	Silica (SiO2)	2010/09/13		102	%	80 - 120	
	Spiked Blank	Silica (SiO2)	2010/09/13		99	%	80 - 120	
	Method Blank	Silica (SiO2)	2010/09/13		ND, RDL=0.1		mg/L	

SLR Consulting (Canada) Ltd
 Attention: Kelly Henderson
 Client Project #: 210.05479.03
 P.O. #:
 Project name: SCU 20 MWS

Quality Assurance Report (Continued)

Maxxam Job Number: KB0C2752

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2263266 MSA	RPD	Silica (SiO ₂)	2010/09/13	5.0		%	25
2264206 SMK	QC Standard	pH	2010/09/15		100	%	80 - 120
	Method Blank	pH	2010/09/15	5.80		pH	
	RPD [HB5689-01]	pH	2010/09/15	1.0		%	25
2264216 SMK	QC Standard	Conductivity	2010/09/15		100	%	80 - 120
	Method Blank	Conductivity	2010/09/15	ND, RDL=1		uS/cm	
	RPD [HB5689-01]	Conductivity	2010/09/15	0.09		%	25
2264232 SMK	Matrix Spike [HB5689-01]	Alkalinity (Total as CaCO ₃)	2010/09/15		NC	%	80 - 120
	QC Standard	Alkalinity (Total as CaCO ₃)	2010/09/15		95	%	80 - 120
	Spiked Blank	Alkalinity (Total as CaCO ₃)	2010/09/15		99	%	80 - 120
	Method Blank	Alkalinity (Total as CaCO ₃)	2010/09/15	ND, RDL=5		mg/L	
	RPD [HB5689-01]	Alkalinity (Total as CaCO ₃)	2010/09/15	8.6		%	25
2264384 JAU	Calibration Check	Turbidity	2010/09/14		98	%	N/A
	Matrix Spike [HB5691-01]	Turbidity	2010/09/14		97	%	75 - 125
	Spiked Blank	Turbidity	2010/09/14		97	%	75 - 125
	Method Blank	Turbidity	2010/09/14	ND, RDL=0.1		NTU	
	RPD [HB5691-01]	Turbidity	2010/09/14	NC		%	25
2265887 SMK	QC Standard	pH	2010/09/15		100	%	80 - 120
	Method Blank	pH	2010/09/15	5.90		pH	
	RPD	pH	2010/09/15	1.4		%	25
2265896 SMK	QC Standard	Conductivity	2010/09/15		99	%	80 - 120
	Method Blank	Conductivity	2010/09/15	ND, RDL=1		uS/cm	
	RPD	Conductivity	2010/09/15	0.5		%	25
2265897 SMK	Matrix Spike	Alkalinity (Total as CaCO ₃)	2010/09/15		92	%	80 - 120
	QC Standard	Alkalinity (Total as CaCO ₃)	2010/09/15		94	%	80 - 120
	Spiked Blank	Alkalinity (Total as CaCO ₃)	2010/09/15		98	%	80 - 120
	Method Blank	Alkalinity (Total as CaCO ₃)	2010/09/15	ND, RDL=5		mg/L	
	RPD	Alkalinity (Total as CaCO ₃)	2010/09/15	5.5		%	25

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Calibration Check: A calibration standard analyzed at different times to evaluate on-going calibration accuracy.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.

Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.

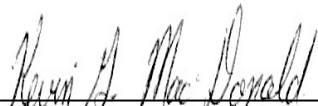
NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

- (1) Matrix Spike: sample concentration is >2X spiking level.
- (2) PAH RDL(s) elevated due to sample dilution.
- (3) Duplicate: <10% of compounds in multi-component analysis in violation.
- (4) Matrix Spike: <10 % of compounds in multi-component analysis are in violation.
- (5) >C10-C16 not within acceptable limits. Insufficient sample to repeat.

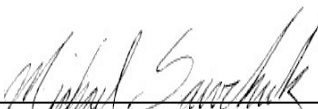
Validation Signature Page

Maxxam Job #: B0C2752

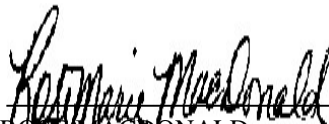
The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



KEVIN MACDONALD, Inorganics Supervisor



MIKE SAWCHUK, Inorganics Team Leader



ROSE MACDONALD,

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Your Project #: 210.05479.03
 Site: GWM/NSLANDS
 Your C.O.C. #: B124941

Attention: Kelly Henderson
 SLR Consulting (Canada) Ltd
 45 Wabina Crt., Suite 107B
 PO Box 791, Station A
 Sydney, NS
 B1P 6K5

Report Date: 2010/09/16

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B0C3668
Received: 2010/09/08, 12:55

Sample Matrix: Water
 # Samples Received: 5

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Carbonate, Bicarbonate and Hydroxide	5	N/A	2010/09/16	CAM SOP-00102	APHA 4500-CO2 D
Alkalinity by Auto. Titration in Water	5	N/A	2010/09/15	ATL SOP 00167 R2	Based on SM2320B
Chloride (1)	5	N/A	2010/09/14	ATL SOP 00014 R6	Based on SM4500-CI-
Colour	5	N/A	2010/09/13	ATL SOP-00159 R4	Based on SM2120
Conductance - water	5	N/A	2010/09/15	ATL SOP-00169 R2	Based on SM2510
TEH in Water (PIRI)	5	2010/09/15	2010/09/14	ATL SOP-00151 R5	Based on ATL PIRI
Hardness (calculated as CaCO3)	4	N/A	2010/09/13		
Hardness (calculated as CaCO3)	1	N/A	2010/09/14		
Elements by ICPMS - low dissolved	4	N/A	2010/09/11	ATL SOP 00161 R6	Based on EPA6020A
Elements by ICPMS - low dissolved	1	N/A	2010/09/13	ATL SOP 00161 R6	Based on EPA6020A
Ion Balance (% Difference)	5	N/A	2010/09/16		
Anion and Cation Sum	5	N/A	2010/09/16		
Nitrogen Ammonia - water (1)	5	N/A	2010/09/14	ATL SOP 00015 R5	Based on USEPA 350.1
Nitrogen - Nitrate + Nitrite (1)	5	N/A	2010/09/13	ATL SOP 00016 R4	Based on USGS - Enz.
Nitrogen - Nitrite (1)	5	N/A	2010/09/14	ATL SOP 00017 R4	Based on SM4500-NO2B
Nitrogen - Nitrate (as N) (1)	5	N/A	2010/09/15	ATL SOP 00018 R3	Based on ASTM D3867
PAH in Water by GC/MS (SIM)	5	2010/09/09	2010/09/16	ATL SOP 00147 R5	Based on EPA 8270C
pH	5	N/A	2010/09/15	ATL SOP 00168 R4	Based on SM4500H+
Phosphorus - ortho (1)	5	N/A	2010/09/14	ATL SOP 00021 R3	Based on USEPA 365.1
VPH in Water (PIRI) (1)	2	2010/09/15	2010/09/15	ATL SOP 00118 R4	Based on Atl. PIRI
VPH in Water (PIRI) (1)	3	2010/09/15	2010/09/16	ATL SOP 00118 R4	Based on Atl. PIRI
Sat. pH and Langelier Index (@ 20C)	5	N/A	2010/09/16		
Sat. pH and Langelier Index (@ 4C)	5	N/A	2010/09/16		
Silica by ICP-MS/Calculation	5	N/A	2010/09/13	ATL SOP 00161 R5	Based on EPA6020
Sulphate (1)	5	N/A	2010/09/14	ATL SOP 00023 R3	Based on EPA 375.4
Total Dissolved Solids (TDS calc)	5	N/A	2010/09/16		
Organic carbon - Total (TOC)	5	N/A	2010/09/10	ATL SOP-00180 R4	Based on SM5310C
ModTPH (T1) Calc. for Water	5	N/A	2010/09/16	ATL SOP-00151 R4	Based on Atl PIRI
Turbidity	5	N/A	2010/09/14	ATL SOP-00166 R6	based on SM2130

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bedford

Your Project #: 210.05479.03
Site: GWM/NSLANDS
Your C.O.C. #: B124941

Attention: Kelly Henderson

SLR Consulting (Canada) Ltd
45 Wabina Crt., Suite 107B
PO Box 791, Station A
Sydney, NS
B1P 6K5

Report Date: 2010/09/16

CERTIFICATE OF ANALYSIS

-2-

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

TRACY MACLEOD-FLOYD,
Email: Tracy.MacLeod.Reports@maxxamanalytics.com
Phone# (902) 567 1255

=====
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Total cover pages: 2

Page 2 of 19

This document is in electronic format, hard copy is available on request.

Maxxam Job #: B0C3668
 Report Date: 2010/09/16

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05479.03
 Project name: GWM/NSLANDS

RCP BEDFORD ANIONS SYD DIS MET FW (WATER)

Maxxam ID		HB9554			HB9573		HB9574		
Sampling Date		2010/09/07 10:50			2010/09/07 14:20		2010/09/07 15:40		
COC Number		B124941			B124941		B124941		
	Units	SCU20-016-MW	RDL	QC Batch	SCU20-017-MW	RDL	SCU20-018-MW	RDL	QC Batch

Calculated Parameters									
Anion Sum	me/L	14.2	N/A	2259172	10.2	N/A	18.5	N/A	2259172
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	7	1	2259168	7	1	14	1	2259168
Calculated TDS	mg/L	915	1	2259176	660	1	1250	1	2259176
Carb. Alkalinity (calc. as CaCO3)	mg/L	54	1	2259168	54	1	1	1	2259168
Cation Sum	me/L	13.8	N/A	2259172	9.25	N/A	18.5	N/A	2259172
Hardness (CaCO3)	mg/L	490	1	2259170	390	1	890	1	2259170
Ion Balance (% Difference)	%	1.36	N/A	2259171	4.98	N/A	0.220	N/A	2259171
Langelier Index (@ 20C)	N/A	2.51		2259174	2.45		1.09		2259174
Langelier Index (@ 4C)	N/A	2.27		2259175	2.21		0.843		2259175
Nitrate (N)	mg/L	ND	0.05	2258206	ND	0.05	0.16	0.05	2258206
Saturation pH (@ 20C)	N/A	8.39		2259174	8.45		7.91		2259174
Saturation pH (@ 4C)	N/A	8.63		2259175	8.69		8.16		2259175
Inorganics									
Alkalinity (Total as CaCO3)	mg/L	100	5	2266245	100	5	16	5	2266245
Dissolved Chloride (Cl)	mg/L	110	5	2263009	48	1	23	1	2263009
Colour	TCU	19	5	2263485	11	5	ND	5	2263485
Nitrate + Nitrite	mg/L	ND	0.05	2263023	ND	0.05	0.18	0.05	2263023
Nitrite (N)	mg/L	ND	0.01	2263027	ND	0.01	0.02	0.01	2263027
Nitrogen (Ammonia Nitrogen)	mg/L	3.3	0.3	2263265	0.72	0.05	0.07	0.05	2263265
Total Organic Carbon (C)	mg/L	15	0.5	2262864	5.1	0.5	2.4	0.5	2262864
Orthophosphate (P)	mg/L	ND	0.01	2263018	ND	0.01	ND	0.01	2263018
pH	pH	10.9	N/A	2266226	10.9	N/A	9.00	N/A	2266226
Silica (SiO2)	mg/L	12	0.1	2263266	28	0.1	10	0.1	2263266
Dissolved Sulphate (SO4)	mg/L	430	10	2263013	330	10	840	20	2263013
Turbidity	NTU	4.7	0.1	2264384	2.9	0.1	ND	0.1	2264384
Conductivity	uS/cm	1400	1	2266243	1000	1	1500	1	2266243
Metals									
Dissolved Aluminum (Al)	ug/L	130	5.0	2261928	180	5.0	ND	50	2261928
Dissolved Antimony (Sb)	ug/L	ND	0.40	2261928	ND	0.40	ND	4.0	2261928
Dissolved Arsenic (As)	ug/L	5.8	0.60	2261928	4.6	0.60	ND	6.0	2261928

 ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0C3668
 Report Date: 2010/09/16

SLR Consulting (Canada) Ltd
 Client Project #: 210.05479.03
 Project name: GWM/NSLANDS

RCP BEDFORD ANIONS SYD DIS MET FW (WATER)

Maxxam ID		HB9554			HB9573		HB9574		
Sampling Date		2010/09/07 10:50			2010/09/07 14:20		2010/09/07 15:40		
COC Number		B124941			B124941		B124941		
	Units	SCU20-016-MW	RDL	QC Batch	SCU20-017-MW	RDL	SCU20-018-MW	RDL	QC Batch

Dissolved Barium (Ba)	ug/L	42	0.40	2261928	62	0.40	38	4.0	2261928
Dissolved Beryllium (Be)	ug/L	ND	0.50	2261928	ND	0.50	ND	5.0	2261928
Dissolved Bismuth (Bi)	ug/L	ND	2.0	2261928	ND	2.0	ND	20	2261928
Dissolved Boron (B)	ug/L	ND	100	2261928	ND	100	ND	1000	2261928
Dissolved Cadmium (Cd)	ug/L	ND	0.017	2261928	ND	0.017	ND	0.17	2261928
Dissolved Calcium (Ca)	ug/L	200000	100	2267451	160000	100	330000	1000	2261928
Dissolved Chromium (Cr)	ug/L	ND	1.0	2261928	ND	1.0	ND	10	2261928
Dissolved Cobalt (Co)	ug/L	ND	1.0	2261928	ND	1.0	ND	10	2261928
Dissolved Copper (Cu)	ug/L	ND	2.0	2261928	ND	2.0	ND	20	2261928
Dissolved Iron (Fe)	ug/L	ND	100	2261928	ND	100	ND	1000	2261928
Dissolved Lead (Pb)	ug/L	ND	1.0	2261928	ND	1.0	ND	10	2261928
Dissolved Lithium (Li)	ug/L	14	1.0	2261928	20	1.0	22	10	2261928
Dissolved Magnesium (Mg)	ug/L	280	60	2267451	ND	60	13000	600	2261928
Dissolved Manganese (Mn)	ug/L	ND	4.0	2261928	ND	4.0	ND	40	2261928
Dissolved Molybdenum (Mo)	ug/L	66	4.0	2261928	6.9	4.0	ND	40	2261928
Dissolved Nickel (Ni)	ug/L	46	3.0	2261928	6.3	3.0	ND	30	2261928
Dissolved Phosphorus (P)	ug/L	ND	100	2261928	ND	100	ND	1000	2261928
Dissolved Potassium (K)	ug/L	32000	600	2267451	11000	600	7700	6000	2261928
Dissolved Selenium (Se)	ug/L	3.0	1.0	2261928	5.0	1.0	ND	10	2261928
Dissolved Silver (Ag)	ug/L	ND	0.10	2261928	ND	0.10	ND	1.0	2261928
Dissolved Sodium (Na)	ug/L	67000	300	2267451	27000	300	13000	3000	2261928
Dissolved Strontium (Sr)	ug/L	950	2.0	2261928	890	2.0	1100	20	2261928
Dissolved Thallium (Tl)	ug/L	ND	0.80	2261928	ND	0.80	ND	8.0	2261928
Dissolved Tin (Sn)	ug/L	ND	20	2261928	ND	20	ND	200	2261928
Dissolved Titanium (Ti)	ug/L	ND	3.0	2261928	ND	3.0	ND	30	2261928
Dissolved Uranium (U)	ug/L	ND	0.15	2261928	ND	0.15	ND	1.5	2261928
Dissolved Vanadium (V)	ug/L	2.2	2.0	2261928	4.2	2.0	ND	20	2261928
Dissolved Zinc (Zn)	ug/L	ND	5.0	2261928	ND	5.0	ND	50	2261928

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0C3668
 Report Date: 2010/09/16

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05479.03
 Project name: GWM/NSLANDS

RCP BEDFORD ANIONS SYD DIS MET FW (WATER)

Maxxam ID		HB9592		HB9593		
Sampling Date		2010/09/07 18:20		2010/09/07 08:30		
COC Number		B124941		B124941		
	Units	SCU18-007-MW	RDL	SCU18-008-MW	RDL	QC Batch

Calculated Parameters						
Anion Sum	me/L	11.5	N/A	13.6	N/A	2259172
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	24	1	78	1	2259168
Calculated TDS	mg/L	770	1	851	1	2259176
Carb. Alkalinity (calc. as CaCO3)	mg/L	28	1	ND	1	2259168
Cation Sum	me/L	10.5	N/A	12.3	N/A	2259172
Hardness (CaCO3)	mg/L	420	1	550	1	2259170
Ion Balance (% Difference)	%	4.69	N/A	4.99	N/A	2259171
Langelier Index (@ 20C)	N/A	2.19		0.662		2259174
Langelier Index (@ 4C)	N/A	1.94		0.415		2259175
Nitrate (N)	mg/L	0.06	0.05	ND	0.05	2258206
Saturation pH (@ 20C)	N/A	7.91		7.44		2259174
Saturation pH (@ 4C)	N/A	8.16		7.69		2259175
Inorganics						
Alkalinity (Total as CaCO3)	mg/L	58	5	79	5	2266245
Dissolved Chloride (Cl)	mg/L	51	1	27	1	2263009
Colour	TCU	13	5	ND	5	2263485
Nitrate + Nitrite	mg/L	0.12	0.05	ND	0.05	2263023
Nitrite (N)	mg/L	0.06	0.01	ND	0.01	2263027
Nitrogen (Ammonia Nitrogen)	mg/L	1.0	0.05	0.81	0.05	2263265
Total Organic Carbon (C)	mg/L	6.0	0.5	3.5	0.5	2262864
Orthophosphate (P)	mg/L	ND	0.01	ND	0.01	2263018
pH	pH	10.1	N/A	8.10	N/A	2266226
Silica (SiO2)	mg/L	36	0.1	7.0	0.1	2263266
Dissolved Sulphate (SO4)	mg/L	430	10	540	20	2263013
Turbidity	NTU	ND	0.1	13	0.1	2264384
Conductivity	uS/cm	1100	1	1200	1	2266243
Metals						
Dissolved Aluminum (Al)	ug/L	40	5.0	36	5.0	2261928
Dissolved Antimony (Sb)	ug/L	1.1	0.40	ND	0.40	2261928
Dissolved Arsenic (As)	ug/L	7.5	0.60	3.5	0.60	2261928

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0C3668
 Report Date: 2010/09/16

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05479.03
 Project name: GWM/NSLANDS

RCP BEDFORD ANIONS SYD DIS MET FW (WATER)

Maxxam ID		HB9592		HB9593		
Sampling Date		2010/09/07 18:20		2010/09/07 08:30		
COC Number		B124941		B124941		
	Units	SCU18-007-MW	RDL	SCU18-008-MW	RDL	QC Batch

Dissolved Barium (Ba)	ug/L	26	0.40	25	0.40	2261928
Dissolved Beryllium (Be)	ug/L	ND	0.50	ND	0.50	2261928
Dissolved Bismuth (Bi)	ug/L	ND	2.0	ND	2.0	2261928
Dissolved Boron (B)	ug/L	ND	100	230	100	2261928
Dissolved Cadmium (Cd)	ug/L	ND	0.017	ND	0.017	2261928
Dissolved Calcium (Ca)	ug/L	170000	100	160000	100	2261928
Dissolved Chromium (Cr)	ug/L	ND	1.0	ND	1.0	2261928
Dissolved Cobalt (Co)	ug/L	ND	1.0	ND	1.0	2261928
Dissolved Copper (Cu)	ug/L	ND	2.0	ND	2.0	2261928
Dissolved Iron (Fe)	ug/L	ND	100	1300	100	2261928
Dissolved Lead (Pb)	ug/L	ND	1.0	ND	1.0	2261928
Dissolved Lithium (Li)	ug/L	6.4	1.0	76	1.0	2261928
Dissolved Magnesium (Mg)	ug/L	240	60	39000	60	2261928
Dissolved Manganese (Mn)	ug/L	ND	4.0	350	4.0	2261928
Dissolved Molybdenum (Mo)	ug/L	29	4.0	9.3	4.0	2261928
Dissolved Nickel (Ni)	ug/L	ND	3.0	ND	3.0	2261928
Dissolved Phosphorus (P)	ug/L	ND	100	ND	100	2261928
Dissolved Potassium (K)	ug/L	12000	600	10000	600	2261928
Dissolved Selenium (Se)	ug/L	3.6	1.0	ND	1.0	2261928
Dissolved Silver (Ag)	ug/L	ND	0.10	ND	0.10	2261928
Dissolved Sodium (Na)	ug/L	38000	300	20000	300	2261928
Dissolved Strontium (Sr)	ug/L	740	2.0	520	2.0	2261928
Dissolved Thallium (Tl)	ug/L	ND	0.80	ND	0.80	2261928
Dissolved Tin (Sn)	ug/L	ND	20	ND	20	2261928
Dissolved Titanium (Ti)	ug/L	ND	3.0	ND	3.0	2261928
Dissolved Uranium (U)	ug/L	ND	0.15	0.43	0.15	2261928
Dissolved Vanadium (V)	ug/L	98	2.0	ND	2.0	2261928
Dissolved Zinc (Zn)	ug/L	ND	5.0	ND	5.0	2261928

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0C3668
 Report Date: 2010/09/16

SLR Consulting (Canada) Ltd
 Client Project #: 210.05479.03
 Project name: GWM/NSLANDS

SYD/ BED TIER1 (WATER)

Maxxam ID		HB9554	HB9573	HB9574	HB9592		
Sampling Date		2010/09/07 10:50	2010/09/07 14:20	2010/09/07 15:40	2010/09/07 18:20		
COC Number		B124941	B124941	B124941	B124941		
	Units	SCU20-016-MW	SCU20-017-MW	SCU20-018-MW	SCU18-007-MW	RDL	QC Batch

Petroleum Hydrocarbons							
Benzene	mg/L	0.002	0.005	ND	0.002	0.001	2266131
Toluene	mg/L	0.001	0.006	ND	0.002	0.001	2266131
Ethylbenzene	mg/L	ND	ND	ND	ND	0.001	2266131
Xylene (Total)	mg/L	ND	0.009	ND	0.007	0.002	2266131
C6 - C10 (less BTEX)	mg/L	ND	ND	ND	ND	0.01	2266131
>C10-C16 Hydrocarbons	mg/L	0.7	0.4	ND	ND	0.2	2265563
>C16-C21 Hydrocarbons	mg/L	0.2	ND	ND	ND	0.2	2265563
>C21-<C32 Hydrocarbons	mg/L	ND	ND	ND	ND	0.5	2265563
Modified TPH (Tier1)	mg/L	0.9	ND	ND	ND	0.5	2259177
Reached Baseline at C32	mg/L	Yes	Yes	Yes	Yes	N/A	2265563
Hydrocarbon Resemblance	mg/L	SEE NOTE (1)	SEE NOTE (1)	NA	NA	N/A	2265563
Surrogate Recovery (%)							
Isobutylbenzene - Extractable	%	104	108	81	77		2265563
n-Dotriacontane - Extractable	%	103	115	75	73		2265563
Isobutylbenzene - Volatile	%	96	98	96	98		2266131

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 (1) Fuel Oil Range

Maxxam Job #: B0C3668
 Report Date: 2010/09/16

SLR Consulting (Canada) Ltd
 Client Project #: 210.05479.03
 Project name: GWM/NSLANDS

SYD/ BED TIER1 (WATER)

Maxxam ID		HB9593		
Sampling Date		2010/09/07 08:30		
COC Number		B124941		
	Units	SCU18-008-MW	RDL	QC Batch

Petroleum Hydrocarbons				
Benzene	mg/L	ND	0.001	2266131
Toluene	mg/L	ND	0.001	2266131
Ethylbenzene	mg/L	ND	0.001	2266131
Xylene (Total)	mg/L	ND	0.002	2266131
C6 - C10 (less BTEX)	mg/L	ND	0.01	2266131
>C10-C16 Hydrocarbons	mg/L	ND	0.2	2265563
>C16-C21 Hydrocarbons	mg/L	ND	0.2	2265563
>C21-<C32 Hydrocarbons	mg/L	ND	0.5	2265563
Modified TPH (Tier1)	mg/L	ND	0.5	2259177
Reached Baseline at C32	mg/L	Yes	N/A	2265563
Hydrocarbon Resemblance	mg/L	NA	N/A	2265563
Surrogate Recovery (%)				
Isobutylbenzene - Extractable	%	103		2265563
n-Dotriacontane - Extractable	%	104		2265563
Isobutylbenzene - Volatile	%	94		2266131
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch				

Maxxam Job #: B0C3668
 Report Date: 2010/09/16

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05479.03
 Project name: GWM/NSLANDS

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Maxxam ID		HB9554		HB9573		HB9574		
Sampling Date		2010/09/07 10:50		2010/09/07 14:20		2010/09/07 15:40		
COC Number		B124941		B124941		B124941		
	Units	SCU20-016-MW	RDL	SCU20-017-MW	RDL	SCU20-018-MW	RDL	QC Batch

Polyaromatic Hydrocarbons								
1-Methylnaphthalene	ug/L	12	0.05	11	0.05	0.11	0.05	2262001
2-Methylnaphthalene	ug/L	15	0.05	12	0.05	0.09	0.05	2262001
Acenaphthene	ug/L	4.9	0.01	2.9	0.01	0.08	0.01	2262001
Acenaphthylene	ug/L	0.48	0.01	7.7	0.01	0.07	0.01	2262001
Anthracene	ug/L	0.55	0.01	0.91	0.01	0.10	0.01	2262001
Benzo(a)anthracene	ug/L	0.03	0.01	0.11	0.01	0.09	0.01	2262001
Benzo(a)pyrene	ug/L	0.01	0.01	0.04	0.01	0.07	0.01	2262001
Benzo(b)fluoranthene	ug/L	0.01	0.01	0.03	0.01	0.06	0.01	2262001
Benzo(g,h,i)perylene	ug/L	ND	0.01	0.02	0.01	0.04	0.01	2262001
Benzo(k)fluoranthene	ug/L	ND	0.01	0.02	0.01	0.04	0.01	2262001
Chrysene	ug/L	0.04	0.01	0.12	0.01	0.09	0.01	2262001
Dibenz(a,h)anthracene	ug/L	ND	0.01	ND	0.01	0.02	0.01	2262001
Fluoranthene	ug/L	0.42	0.01	1.4	0.01	0.21	0.01	2262001
Fluorene	ug/L	3.9	0.01	5.4	0.01	0.10	0.01	2262001
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.01	0.02	0.01	0.03	0.01	2262001
Naphthalene	ug/L	190 (1)	4	91 (1)	2	0.5	0.2	2262001
Perylene	ug/L	ND	0.01	0.01	0.01	0.02	0.01	2262001
Phenanthrene	ug/L	4.3	0.01	5.8	0.01	0.27	0.01	2262001
Pyrene	ug/L	0.28	0.01	0.87	0.01	0.19	0.01	2262001
Surrogate Recovery (%)								
D10-Anthracene	%	68		69		86		2262001
D14-Terphenyl	%	97		103		82		2262001
D8-Acenaphthylene	%	81		84		80		2262001

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 (1) PAH RDL(s) elevated due to sample dilution.

Maxxam Job #: B0C3668
 Report Date: 2010/09/16

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05479.03
 Project name: GWM/NSLANDS

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Maxxam ID		HB9592		HB9593		
Sampling Date		2010/09/07 18:20		2010/09/07 08:30		
COC Number		B124941		B124941		
	Units	SCU18-007-MW	RDL	SCU18-008-MW	RDL	QC Batch

Polyaromatic Hydrocarbons						
1-Methylnaphthalene	ug/L	6.1	0.05	ND	0.05	2262001
2-Methylnaphthalene	ug/L	7.1	0.05	ND	0.05	2262001
Acenaphthene	ug/L	1.6	0.01	0.02	0.01	2262001
Acenaphthylene	ug/L	1.9	0.01	0.01	0.01	2262001
Anthracene	ug/L	0.92	0.01	ND	0.01	2262001
Benzo(a)anthracene	ug/L	0.12	0.01	0.01	0.01	2262001
Benzo(a)pyrene	ug/L	0.02	0.01	ND	0.01	2262001
Benzo(b)fluoranthene	ug/L	0.04	0.01	ND	0.01	2262001
Benzo(g,h,i)perylene	ug/L	0.01	0.01	ND	0.01	2262001
Benzo(k)fluoranthene	ug/L	0.01	0.01	ND	0.01	2262001
Chrysene	ug/L	0.12	0.01	0.01	0.01	2262001
Dibenz(a,h)anthracene	ug/L	ND	0.01	ND	0.01	2262001
Fluoranthene	ug/L	1.8	0.01	0.03	0.01	2262001
Fluorene	ug/L	3.4	0.01	0.02	0.01	2262001
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.01	ND	0.01	2262001
Naphthalene	ug/L	45 (1)	2	ND	0.2	2262001
Perylene	ug/L	ND	0.01	ND	0.01	2262001
Phenanthrene	ug/L	2.4	0.01	0.03	0.01	2262001
Pyrene	ug/L	1.2	0.01	0.03	0.01	2262001
Surrogate Recovery (%)						
D10-Anthracene	%	69		78		2262001
D14-Terphenyl	%	103		95		2262001
D8-Acenaphthylene	%	82		85		2262001

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 (1) PAH RDL(s) elevated due to sample dilution.

Maxxam Job #: B0C3668
Report Date: 2010/09/16

SLR Consulting (Canada) Ltd
Client Project #: 210.05479.03
Project name: GWM/NSLANDS

GENERAL COMMENTS

Sample HB9574-01: Reporting limits for ICP-MS metals elevated due to dilution for interfering compounds.

Sample HB9554, Elements by ICPMS - low dissolved: Test repeated.

Results relate only to the items tested.

SLR Consulting (Canada) Ltd
 Attention: Kelly Henderson
 Client Project #: 210.05479.03
 P.O. #:
 Project name: GWM/NSLANDS

Quality Assurance Report
 Maxxam Job Number: KB0C3668

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2261928 MSA	Matrix Spike [HB9593-01]	Dissolved Aluminum (Al)	2010/09/11		94	%	75 - 125
		Dissolved Antimony (Sb)	2010/09/11		109	%	75 - 125
		Dissolved Arsenic (As)	2010/09/11		94	%	75 - 125
		Dissolved Barium (Ba)	2010/09/11		101	%	75 - 125
		Dissolved Beryllium (Be)	2010/09/11		98	%	75 - 125
		Dissolved Bismuth (Bi)	2010/09/11		101	%	75 - 125
		Dissolved Boron (B)	2010/09/11		103	%	75 - 125
		Dissolved Cadmium (Cd)	2010/09/11		108	%	75 - 125
		Dissolved Calcium (Ca)	2010/09/11		120	%	75 - 125
		Dissolved Chromium (Cr)	2010/09/11		100	%	75 - 125
		Dissolved Cobalt (Co)	2010/09/11		103	%	75 - 125
		Dissolved Copper (Cu)	2010/09/11		95	%	75 - 125
		Dissolved Iron (Fe)	2010/09/11		100	%	75 - 125
		Dissolved Lead (Pb)	2010/09/11		104	%	75 - 125
		Dissolved Lithium (Li)	2010/09/11		98	%	75 - 125
		Dissolved Magnesium (Mg)	2010/09/11		82	%	75 - 125
		Dissolved Manganese (Mn)	2010/09/11		98	%	75 - 125
		Dissolved Molybdenum (Mo)	2010/09/11		110	%	75 - 125
		Dissolved Nickel (Ni)	2010/09/11		98	%	75 - 125
		Dissolved Phosphorus (P)	2010/09/11		105	%	75 - 125
		Dissolved Potassium (K)	2010/09/11		98	%	75 - 125
		Dissolved Selenium (Se)	2010/09/11		94	%	75 - 125
		Dissolved Silver (Ag)	2010/09/11		67 (1)	%	75 - 125
		Dissolved Sodium (Na)	2010/09/11		95	%	75 - 125
		Dissolved Strontium (Sr)	2010/09/11		101	%	75 - 125
		Dissolved Thallium (Tl)	2010/09/11		101	%	75 - 125
		Dissolved Tin (Sn)	2010/09/11		106	%	75 - 125
		Dissolved Titanium (Ti)	2010/09/11		95	%	75 - 125
		Dissolved Uranium (U)	2010/09/11		108	%	75 - 125
		Dissolved Vanadium (V)	2010/09/11		104	%	75 - 125
		Dissolved Zinc (Zn)	2010/09/11		97	%	75 - 125
	QC Standard	Dissolved Aluminum (Al)	2010/09/11		98	%	75 - 125
		Dissolved Antimony (Sb)	2010/09/11		105	%	75 - 125
		Dissolved Arsenic (As)	2010/09/11		86	%	75 - 125
		Dissolved Barium (Ba)	2010/09/11		93	%	75 - 125
		Dissolved Beryllium (Be)	2010/09/11		92	%	75 - 125
		Dissolved Bismuth (Bi)	2010/09/11		100	%	75 - 125
		Dissolved Boron (B)	2010/09/11		100	%	75 - 125
		Dissolved Cadmium (Cd)	2010/09/11		92	%	75 - 125
		Dissolved Calcium (Ca)	2010/09/11		95	%	75 - 125
		Dissolved Chromium (Cr)	2010/09/11		105	%	75 - 125
		Dissolved Cobalt (Co)	2010/09/11		100	%	75 - 125
		Dissolved Copper (Cu)	2010/09/11		92	%	75 - 125
		Dissolved Iron (Fe)	2010/09/11		88	%	75 - 125
		Dissolved Lead (Pb)	2010/09/11		98	%	75 - 125
		Dissolved Lithium (Li)	2010/09/11		95	%	75 - 125
		Dissolved Magnesium (Mg)	2010/09/11		93	%	75 - 125
		Dissolved Manganese (Mn)	2010/09/11		102	%	75 - 125
		Dissolved Molybdenum (Mo)	2010/09/11		104	%	75 - 125
		Dissolved Nickel (Ni)	2010/09/11		96	%	75 - 125
		Dissolved Potassium (K)	2010/09/11		100	%	75 - 125
		Dissolved Selenium (Se)	2010/09/11		79	%	75 - 125
		Dissolved Silver (Ag)	2010/09/11		94	%	75 - 125
		Dissolved Sodium (Na)	2010/09/11		95	%	75 - 125

SLR Consulting (Canada) Ltd
 Attention: Kelly Henderson
 Client Project #: 210.05479.03
 P.O. #:
 Project name: GWM/NSLANDS

Quality Assurance Report (Continued)

Maxxam Job Number: KB0C3668

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2261928 MSA	QC Standard	Dissolved Strontium (Sr)	2010/09/11		96	%	75 - 125
		Dissolved Thallium (Tl)	2010/09/11		96	%	75 - 125
	Spiked Blank	Dissolved Vanadium (V)	2010/09/11		104	%	75 - 125
		Dissolved Zinc (Zn)	2010/09/11		82	%	75 - 125
		Dissolved Aluminum (Al)	2010/09/11		89	%	75 - 125
		Dissolved Antimony (Sb)	2010/09/11		100	%	75 - 125
		Dissolved Arsenic (As)	2010/09/11		90	%	75 - 125
		Dissolved Barium (Ba)	2010/09/11		102	%	75 - 125
		Dissolved Beryllium (Be)	2010/09/11		105	%	75 - 125
		Dissolved Bismuth (Bi)	2010/09/11		101	%	75 - 125
		Dissolved Boron (B)	2010/09/11		111	%	75 - 125
		Dissolved Cadmium (Cd)	2010/09/11		103	%	75 - 125
		Dissolved Calcium (Ca)	2010/09/11		92	%	75 - 125
		Dissolved Chromium (Cr)	2010/09/11		99	%	75 - 125
		Dissolved Cobalt (Co)	2010/09/11		101	%	75 - 125
		Dissolved Copper (Cu)	2010/09/11		96	%	75 - 125
		Dissolved Iron (Fe)	2010/09/11		95	%	75 - 125
		Dissolved Lead (Pb)	2010/09/11		101	%	75 - 125
		Dissolved Lithium (Li)	2010/09/11		97	%	75 - 125
		Dissolved Magnesium (Mg)	2010/09/11		91	%	75 - 125
		Dissolved Manganese (Mn)	2010/09/11		95	%	75 - 125
		Dissolved Molybdenum (Mo)	2010/09/11		105	%	75 - 125
		Dissolved Nickel (Ni)	2010/09/11		97	%	75 - 125
		Dissolved Phosphorus (P)	2010/09/11		98	%	75 - 125
		Dissolved Potassium (K)	2010/09/11		92	%	75 - 125
		Dissolved Selenium (Se)	2010/09/11		98	%	75 - 125
		Dissolved Sodium (Na)	2010/09/11		91	%	75 - 125
		Dissolved Strontium (Sr)	2010/09/11		105	%	75 - 125
		Dissolved Thallium (Tl)	2010/09/11		100	%	75 - 125
		Dissolved Tin (Sn)	2010/09/11		101	%	75 - 125
	Dissolved Titanium (Ti)	2010/09/11		92	%	75 - 125	
	Dissolved Uranium (U)	2010/09/11		102	%	75 - 125	
	Dissolved Vanadium (V)	2010/09/11		102	%	75 - 125	
	Dissolved Zinc (Zn)	2010/09/11		97	%	75 - 125	
	Method Blank	Dissolved Aluminum (Al)	2010/09/11	ND, RDL=5.0		ug/L	
		Dissolved Antimony (Sb)	2010/09/11	ND, RDL=0.40		ug/L	
		Dissolved Arsenic (As)	2010/09/11	ND, RDL=0.60		ug/L	
		Dissolved Barium (Ba)	2010/09/11	ND, RDL=0.40		ug/L	
		Dissolved Beryllium (Be)	2010/09/11	ND, RDL=0.50		ug/L	
		Dissolved Bismuth (Bi)	2010/09/11	ND, RDL=2.0		ug/L	
		Dissolved Boron (B)	2010/09/11	ND, RDL=100		ug/L	
		Dissolved Cadmium (Cd)	2010/09/11	ND, RDL=0.017		ug/L	
		Dissolved Calcium (Ca)	2010/09/11	ND, RDL=100		ug/L	
		Dissolved Chromium (Cr)	2010/09/11	ND, RDL=1.0		ug/L	
		Dissolved Cobalt (Co)	2010/09/11	ND, RDL=1.0		ug/L	
		Dissolved Copper (Cu)	2010/09/11	ND, RDL=2.0		ug/L	
		Dissolved Iron (Fe)	2010/09/11	ND, RDL=100		ug/L	
		Dissolved Lead (Pb)	2010/09/11	ND, RDL=1.0		ug/L	
		Dissolved Lithium (Li)	2010/09/11	ND, RDL=1.0		ug/L	
		Dissolved Magnesium (Mg)	2010/09/11	ND, RDL=60		ug/L	
		Dissolved Manganese (Mn)	2010/09/11	ND, RDL=4.0		ug/L	
		Dissolved Molybdenum (Mo)	2010/09/11	ND, RDL=4.0		ug/L	
	Dissolved Nickel (Ni)	2010/09/11	ND, RDL=3.0		ug/L		
	Dissolved Phosphorus (P)	2010/09/11	ND, RDL=100		ug/L		
	Dissolved Potassium (K)	2010/09/11	ND, RDL=600		ug/L		

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 Attention: Kelly Henderson
 Client Project #: 210.05479.03
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Quality Assurance Report (Continued)

Maxxam Job Number: KB0C3668

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2261928 MSA	Method Blank	Dissolved Selenium (Se)	2010/09/11	ND, RDL=1.0		ug/L	
		Dissolved Silver (Ag)	2010/09/11	ND, RDL=0.10		ug/L	
		Dissolved Sodium (Na)	2010/09/11	ND, RDL=300		ug/L	
		Dissolved Strontium (Sr)	2010/09/11	ND, RDL=2.0		ug/L	
		Dissolved Thallium (Tl)	2010/09/11	ND, RDL=0.80		ug/L	
		Dissolved Tin (Sn)	2010/09/11	ND, RDL=20		ug/L	
		Dissolved Titanium (Ti)	2010/09/11	ND, RDL=3.0		ug/L	
		Dissolved Uranium (U)	2010/09/11	ND, RDL=0.15		ug/L	
		Dissolved Vanadium (V)	2010/09/11	ND, RDL=2.0		ug/L	
		Dissolved Zinc (Zn)	2010/09/11	ND, RDL=5.0		ug/L	
	RPD [HB9593-01]	Dissolved Aluminum (Al)	2010/09/11	8.8		%	25
		Dissolved Antimony (Sb)	2010/09/11	NC		%	25
		Dissolved Arsenic (As)	2010/09/11	1.9		%	25
		Dissolved Barium (Ba)	2010/09/11	1.4		%	25
		Dissolved Beryllium (Be)	2010/09/11	NC		%	25
		Dissolved Bismuth (Bi)	2010/09/11	NC		%	25
		Dissolved Boron (B)	2010/09/11	NC		%	25
		Dissolved Cadmium (Cd)	2010/09/11	NC		%	25
		Dissolved Calcium (Ca)	2010/09/11	4.3		%	25
		Dissolved Chromium (Cr)	2010/09/11	NC		%	25
		Dissolved Cobalt (Co)	2010/09/11	NC		%	25
		Dissolved Copper (Cu)	2010/09/11	NC		%	25
		Dissolved Iron (Fe)	2010/09/11	5.2		%	25
		Dissolved Lead (Pb)	2010/09/11	NC		%	25
		Dissolved Lithium (Li)	2010/09/11	3.8		%	25
		Dissolved Magnesium (Mg)	2010/09/11	3.1		%	25
		Dissolved Manganese (Mn)	2010/09/11	2.2		%	25
		Dissolved Molybdenum (Mo)	2010/09/11	NC		%	25
		Dissolved Nickel (Ni)	2010/09/11	NC		%	25
		Dissolved Phosphorus (P)	2010/09/11	NC		%	25
		Dissolved Potassium (K)	2010/09/11	3.2		%	25
		Dissolved Selenium (Se)	2010/09/11	NC		%	25
		Dissolved Silver (Ag)	2010/09/11	NC		%	25
		Dissolved Sodium (Na)	2010/09/11	1.0		%	25
		Dissolved Strontium (Sr)	2010/09/11	2.1		%	25
		Dissolved Thallium (Tl)	2010/09/11	NC		%	25
		Dissolved Tin (Sn)	2010/09/11	NC		%	25
		Dissolved Titanium (Ti)	2010/09/11	NC		%	25
		Dissolved Uranium (U)	2010/09/11	NC		%	25
		Dissolved Vanadium (V)	2010/09/11	NC		%	25
		Dissolved Zinc (Zn)	2010/09/11	NC		%	25
2262001 TML	Matrix Spike [HB9573-01]	D10-Anthracene	2010/09/15		63	%	30 - 130
		D14-Terphenyl	2010/09/15		98	%	30 - 130
		D8-Acenaphthylene	2010/09/15		83	%	30 - 130
		1-Methylnaphthalene	2010/09/15		21 (2)	%	50 - 130
		2-Methylnaphthalene	2010/09/15		15 (2)	%	50 - 130
		Acenaphthene	2010/09/15		81	%	50 - 130
		Acenaphthylene	2010/09/15		84	%	50 - 130
		Anthracene	2010/09/15		88	%	50 - 130
		Benzo(a)anthracene	2010/09/15		110	%	50 - 130
		Benzo(a)pyrene	2010/09/15		97	%	50 - 130
		Benzo(b)fluoranthene	2010/09/15		111	%	50 - 130
		Benzo(g,h,i)perylene	2010/09/15		101	%	50 - 130
		Benzo(k)fluoranthene	2010/09/15		107	%	50 - 130

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Quality Assurance Report (Continued)
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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2262001 TML	Matrix Spike [HB9573-01]	Chrysene	2010/09/15		115	%	50 - 130
		Dibenz(a,h)anthracene	2010/09/15		94	%	50 - 130
		Fluoranthene	2010/09/15		103	%	50 - 130
		Fluorene	2010/09/15		80	%	50 - 130
		Indeno(1,2,3-cd)pyrene	2010/09/15		105	%	50 - 130
		Naphthalene	2010/09/15		-450 (3)	%	50 - 130
		Perylene	2010/09/15		91	%	50 - 130
		Phenanthrene	2010/09/15		64	%	50 - 130
		Pyrene	2010/09/15		101	%	50 - 130
	Spiked Blank	D10-Anthracene	2010/09/15		91	%	30 - 130
		D14-Terphenyl	2010/09/15		94	%	30 - 130
		D8-Acenaphthylene	2010/09/15		77	%	30 - 130
		1-Methylnaphthalene	2010/09/15		81	%	50 - 130
		2-Methylnaphthalene	2010/09/15		72	%	50 - 130
		Acenaphthene	2010/09/15		84	%	50 - 130
		Acenaphthylene	2010/09/15		78	%	50 - 130
		Anthracene	2010/09/15		94	%	50 - 130
		Benzo(a)anthracene	2010/09/15		100	%	50 - 130
		Benzo(a)pyrene	2010/09/15		94	%	50 - 130
		Benzo(b)fluoranthene	2010/09/15		87	%	50 - 130
		Benzo(g,h,i)perylene	2010/09/15		99	%	50 - 130
		Benzo(k)fluoranthene	2010/09/15		99	%	50 - 130
		Chrysene	2010/09/15		105	%	50 - 130
		Dibenz(a,h)anthracene	2010/09/15		92	%	50 - 130
		Fluoranthene	2010/09/15		101	%	50 - 130
		Fluorene	2010/09/15		92	%	50 - 130
		Indeno(1,2,3-cd)pyrene	2010/09/15		98	%	50 - 130
		Naphthalene	2010/09/15		81	%	50 - 130
		Perylene	2010/09/15		90	%	50 - 130
		Phenanthrene	2010/09/15		83	%	50 - 130
		Pyrene	2010/09/15		99	%	50 - 130
	Method Blank	D10-Anthracene	2010/09/15		97	%	30 - 130
		D14-Terphenyl	2010/09/15		102	%	30 - 130
		D8-Acenaphthylene	2010/09/15		89	%	30 - 130
		1-Methylnaphthalene	2010/09/15	ND, RDL=0.05		ug/L	
		2-Methylnaphthalene	2010/09/15	ND, RDL=0.05		ug/L	
		Acenaphthene	2010/09/15	ND, RDL=0.01		ug/L	
		Acenaphthylene	2010/09/15	ND, RDL=0.01		ug/L	
		Anthracene	2010/09/15	ND, RDL=0.01		ug/L	
		Benzo(a)anthracene	2010/09/15	ND, RDL=0.01		ug/L	
		Benzo(a)pyrene	2010/09/15	ND, RDL=0.01		ug/L	
		Benzo(b)fluoranthene	2010/09/15	ND, RDL=0.01		ug/L	
		Benzo(g,h,i)perylene	2010/09/15	ND, RDL=0.01		ug/L	
		Benzo(k)fluoranthene	2010/09/15	ND, RDL=0.01		ug/L	
		Chrysene	2010/09/15	ND, RDL=0.01		ug/L	
		Dibenz(a,h)anthracene	2010/09/15	ND, RDL=0.01		ug/L	
		Fluoranthene	2010/09/15	ND, RDL=0.01		ug/L	
		Fluorene	2010/09/15	ND, RDL=0.01		ug/L	
		Indeno(1,2,3-cd)pyrene	2010/09/15	ND, RDL=0.01		ug/L	
		Naphthalene	2010/09/15	ND, RDL=0.2		ug/L	
		Perylene	2010/09/15	ND, RDL=0.01		ug/L	
		Phenanthrene	2010/09/15	ND, RDL=0.01		ug/L	
		Pyrene	2010/09/15	ND, RDL=0.01		ug/L	
	RPD [HB9554-01]	1-Methylnaphthalene	2010/09/16	8.7		%	40

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Quality Assurance Report (Continued)

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2262001 TML	RPD [HB9554-01]	2-Methylnaphthalene	2010/09/16	8.9		%	40
		Acenaphthene	2010/09/16	9.7		%	40
		Acenaphthylene	2010/09/16	8.5		%	40
		Anthracene	2010/09/16	5.5		%	40
		Benzo(a)anthracene	2010/09/16	NC		%	40
		Benzo(a)pyrene	2010/09/16	NC		%	40
		Benzo(b)fluoranthene	2010/09/16	NC		%	40
		Benzo(g,h,i)perylene	2010/09/16	NC		%	40
		Benzo(k)fluoranthene	2010/09/16	NC		%	40
		Chrysene	2010/09/16	NC		%	40
		Dibenz(a,h)anthracene	2010/09/16	NC		%	40
		Fluoranthene	2010/09/16	14.5		%	40
		Fluorene	2010/09/16	9.7		%	40
		Indeno(1,2,3-cd)pyrene	2010/09/16	NC		%	40
		Naphthalene	2010/09/16	18.5 (4)		%	40
		Perylene	2010/09/16	NC		%	40
		Phenanthrene	2010/09/16	5.5		%	40
Pyrene	2010/09/16	11.1		%	40		
2262864 BMI	Matrix Spike QC Standard Spiked Blank Method Blank RPD	Total Organic Carbon (C)	2010/09/10		111	%	80 - 120
		Total Organic Carbon (C)	2010/09/10		105	%	80 - 120
		Total Organic Carbon (C)	2010/09/10		101	%	80 - 120
		Total Organic Carbon (C)	2010/09/10	ND, RDL=0.5		mg/L	
		Total Organic Carbon (C)	2010/09/10	NC		%	25
2263009 SMT	Matrix Spike QC Standard Spiked Blank Method Blank RPD	Dissolved Chloride (Cl)	2010/09/14		NC	%	80 - 120
		Dissolved Chloride (Cl)	2010/09/14		100	%	80 - 120
		Dissolved Chloride (Cl)	2010/09/14		101	%	80 - 120
		Dissolved Chloride (Cl)	2010/09/14	ND, RDL=1		mg/L	
		Dissolved Chloride (Cl)	2010/09/14	0.4		%	25
2263013 SMT	Matrix Spike QC Standard Spiked Blank Method Blank RPD	Dissolved Sulphate (SO4)	2010/09/14		108	%	80 - 120
		Dissolved Sulphate (SO4)	2010/09/14		103	%	80 - 120
		Dissolved Sulphate (SO4)	2010/09/14		107	%	80 - 120
		Dissolved Sulphate (SO4)	2010/09/14	ND, RDL=2		mg/L	
		Dissolved Sulphate (SO4)	2010/09/14	NC		%	25
2263018 SMT	Matrix Spike QC Standard Spiked Blank Method Blank RPD	Orthophosphate (P)	2010/09/14		101	%	80 - 120
		Orthophosphate (P)	2010/09/14		98	%	80 - 120
		Orthophosphate (P)	2010/09/14		99	%	80 - 120
		Orthophosphate (P)	2010/09/14	ND, RDL=0.01		mg/L	
		Orthophosphate (P)	2010/09/14	NC		%	25
2263023 DLB	Matrix Spike QC Standard Spiked Blank Method Blank RPD	Nitrate + Nitrite	2010/09/13		102	%	80 - 120
		Nitrate + Nitrite	2010/09/13		98	%	80 - 120
		Nitrate + Nitrite	2010/09/13		102	%	80 - 120
		Nitrate + Nitrite	2010/09/13	ND, RDL=0.05		mg/L	
		Nitrate + Nitrite	2010/09/13	1.3		%	25
2263027 SMT	Matrix Spike QC Standard Spiked Blank Method Blank RPD	Nitrite (N)	2010/09/14		93	%	80 - 120
		Nitrite (N)	2010/09/14		95	%	80 - 120
		Nitrite (N)	2010/09/14		95	%	80 - 120
		Nitrite (N)	2010/09/14	ND, RDL=0.01		mg/L	
		Nitrite (N)	2010/09/14	NC		%	25
2263265 DLB	Matrix Spike QC Standard Spiked Blank Method Blank RPD	Nitrogen (Ammonia Nitrogen)	2010/09/14		95	%	80 - 120
		Nitrogen (Ammonia Nitrogen)	2010/09/14		101	%	80 - 120
		Nitrogen (Ammonia Nitrogen)	2010/09/14		97	%	80 - 120
		Nitrogen (Ammonia Nitrogen)	2010/09/14	ND, RDL=0.05		mg/L	
		Nitrogen (Ammonia Nitrogen)	2010/09/14	NC		%	25
2263266 MSA	Matrix Spike [HB9593-01]	Silica (SiO2)	2010/09/13		102	%	80 - 120

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Quality Assurance Report (Continued)
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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2263266 MSA	Spiked Blank	Silica (SiO2)	2010/09/13		99	%	80 - 120
	Method Blank	Silica (SiO2)	2010/09/13	ND, RDL=0.1		mg/L	
	RPD [HB9593-01]	Silica (SiO2)	2010/09/13	5.0		%	25
2263485 JAU	Calibration Check	Colour	2010/09/13		102	%	N/A
	Matrix Spike	Colour	2010/09/13		95	%	80 - 120
	Spiked Blank	Colour	2010/09/13		87	%	80 - 120
	Method Blank	Colour	2010/09/13	ND, RDL=5		TCU	
	RPD	Colour	2010/09/13	NC		%	25
2264384 JAU	Calibration Check	Turbidity	2010/09/14		98	%	N/A
	Matrix Spike	Turbidity	2010/09/14		97	%	75 - 125
	Spiked Blank	Turbidity	2010/09/14		97	%	75 - 125
	Method Blank	Turbidity	2010/09/14	ND, RDL=0.1		NTU	
	RPD	Turbidity	2010/09/14	NC		%	25
2265563 JHO	Matrix Spike [HB9573-01]	Isobutylbenzene - Extractable	2010/09/14		118	%	30 - 130
		n-Dotriacontane - Extractable	2010/09/14		124	%	30 - 130
		>C10-C16 Hydrocarbons	2010/09/14		89	%	70 - 130
		>C16-C21 Hydrocarbons	2010/09/14		85	%	70 - 130
		>C21-<C32 Hydrocarbons	2010/09/14		97	%	50 - 120
	Spiked Blank	Isobutylbenzene - Extractable	2010/09/14		125	%	30 - 130
		n-Dotriacontane - Extractable	2010/09/14		124	%	30 - 130
		>C10-C16 Hydrocarbons	2010/09/14		84	%	70 - 130
		>C16-C21 Hydrocarbons	2010/09/14		88	%	70 - 130
		>C21-<C32 Hydrocarbons	2010/09/14		100	%	50 - 120
	Method Blank	Isobutylbenzene - Extractable	2010/09/14		84	%	30 - 130
		n-Dotriacontane - Extractable	2010/09/14		87	%	30 - 130
		>C10-C16 Hydrocarbons	2010/09/14	ND, RDL=0.2		mg/L	
		>C16-C21 Hydrocarbons	2010/09/14	ND, RDL=0.2		mg/L	
		>C21-<C32 Hydrocarbons	2010/09/14	ND, RDL=0.5		mg/L	
	RPD [HB9554-01]	>C10-C16 Hydrocarbons	2010/09/14	NC		%	40
		>C16-C21 Hydrocarbons	2010/09/14	NC		%	40
		>C21-<C32 Hydrocarbons	2010/09/14	NC		%	40
2266131 SHL	Matrix Spike	Isobutylbenzene - Volatile	2010/09/15		99	%	70 - 130
		Benzene	2010/09/15		113	%	70 - 130
		Toluene	2010/09/15		109	%	70 - 130
		Ethylbenzene	2010/09/15		109	%	70 - 130
		Xylene (Total)	2010/09/15		107	%	70 - 130
	Spiked Blank	Isobutylbenzene - Volatile	2010/09/15		99	%	70 - 130
		Benzene	2010/09/15		111	%	70 - 130
		Toluene	2010/09/15		108	%	70 - 130
		Ethylbenzene	2010/09/15		108	%	70 - 130
		Xylene (Total)	2010/09/15		106	%	70 - 130
	Method Blank	Isobutylbenzene - Volatile	2010/09/15		102	%	70 - 130
		Benzene	2010/09/15	ND, RDL=0.001		mg/L	
		Toluene	2010/09/15	ND, RDL=0.001		mg/L	
		Ethylbenzene	2010/09/15	ND, RDL=0.001		mg/L	
		Xylene (Total)	2010/09/15	ND, RDL=0.002		mg/L	
		C6 - C10 (less BTEX)	2010/09/15	ND, RDL=0.01		mg/L	
	RPD	Benzene	2010/09/15	NC		%	40
		Toluene	2010/09/15	NC		%	40
		Ethylbenzene	2010/09/15	NC		%	40
		Xylene (Total)	2010/09/15	NC		%	40
		C6 - C10 (less BTEX)	2010/09/15	NC		%	40
2266226 SMK	QC Standard	pH	2010/09/15		100	%	80 - 120
	Method Blank	pH	2010/09/15	5.70		pH	

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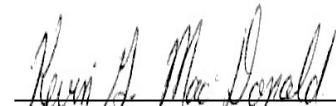
QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2266226 SMK	RPD	pH	2010/09/15	0		%	25
2266243 SMK	QC Standard	Conductivity	2010/09/15		99	%	80 - 120
	Method Blank	Conductivity	2010/09/15	ND, RDL=1		uS/cm	
	RPD	Conductivity	2010/09/15	0.2		%	25
2266245 SMK	Matrix Spike	Alkalinity (Total as CaCO3)	2010/09/15		95	%	80 - 120
	QC Standard	Alkalinity (Total as CaCO3)	2010/09/15		95	%	80 - 120
	Spiked Blank	Alkalinity (Total as CaCO3)	2010/09/15		99	%	80 - 120
	Method Blank	Alkalinity (Total as CaCO3)	2010/09/15	ND, RDL=5		mg/L	
	RPD	Alkalinity (Total as CaCO3)	2010/09/15	NC		%	25

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
 Calibration Check: A calibration standard analyzed at different times to evaluate on-going calibration accuracy.
 Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
 QC Standard: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
 NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.
 (1) Matrix Spike: <10 % of compounds in multi-component analysis are in violation.
 (2) Matrix Spike: sample concentration is >2X spiking level.
 (3) Matrix Spike: sample concentration is >2X spiking level. PAH RDL(s) elevated due to sample dilution.
 (4) PAH RDL(s) elevated due to sample dilution.

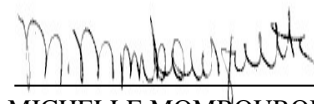
Validation Signature Page

Maxxam Job #: B0C3668

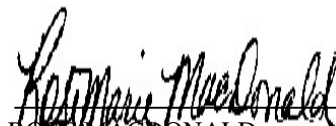
The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



KEVIN MACDONALD, Inorganics Supervisor



MICHELLE MOMBOURQUETTE, Laboratory Manager



ROSE MACDONALD,

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Your P.O. #: SYD141
 Your Project #: 210.05479.03
 Site: SCU 18 MWS/NSLANDS
 Your C.O.C. #: B124942

Attention: Kelly Henderson
 SLR Consulting (Canada) Ltd
 45 Wabina Crt., Suite 107B
 PO Box 791, Station A
 Sydney, NS
 B1P 6K5

Report Date: 2010/09/20

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B0C5323
Received: 2010/09/10, 13:40

Sample Matrix: Water
 # Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Carbonate, Bicarbonate and Hydroxide	4	N/A	2010/09/16	CAM SOP-00102	APHA 4500-CO2 D
Alkalinity by Auto. Titration in Water	4	N/A	2010/09/16	ATL SOP 00167 R2	Based on SM2320B
Chloride (1)	4	N/A	2010/09/15	ATL SOP 00014 R6	Based on SM4500-CI-
Colour	1	N/A	2010/09/14	ATL SOP-00159 R4	Based on SM2120
Colour	3	N/A	2010/09/16	ATL SOP-00159 R4	Based on SM2120
Conductance - water	4	N/A	2010/09/16	ATL SOP-00169 R2	Based on SM2510
TEH in Water (PIRI)	4	2010/09/15	2010/09/14	ATL SOP-00151 R5	Based on ATL PIRI
Hardness (calculated as CaCO3)	4	N/A	2010/09/14		
Elements by ICPMS - low dissolved	4	N/A	2010/09/14	ATL SOP 00161 R6	Based on EPA6020A
Ion Balance (% Difference)	4	N/A	2010/09/17		
Anion and Cation Sum	4	N/A	2010/09/17		
Nitrogen Ammonia - water (1)	4	N/A	2010/09/15	ATL SOP 00015 R5	Based on USEPA 350.1
Nitrogen - Nitrate + Nitrite (1)	4	N/A	2010/09/15	ATL SOP 00016 R4	Based on USGS - Enz.
Nitrogen - Nitrite (1)	4	N/A	2010/09/15	ATL SOP 00017 R4	Based on SM4500-NO2B
Nitrogen - Nitrate (as N) (1)	4	N/A	2010/09/17	ATL SOP 00018 R3	Based on ASTM D3867
PAH in Water by GC/MS (SIM)	4	2010/09/14	2010/09/17	ATL SOP 00147 R5	Based on EPA 8270C
pH	4	N/A	2010/09/16	ATL SOP 00168 R4	Based on SM4500H+
Phosphorus - ortho (1)	4	N/A	2010/09/15	ATL SOP 00021 R3	Based on USEPA 365.1
VPH in Water (PIRI) (1)	1	2010/09/15	2010/09/15	ATL SOP 00118 R4	Based on Atl. PIRI
VPH in Water (PIRI) (1)	3	2010/09/15	2010/09/16	ATL SOP 00118 R4	Based on Atl. PIRI
Sat. pH and Langelier Index (@ 20C)	4	N/A	2010/09/17		
Sat. pH and Langelier Index (@ 4C)	4	N/A	2010/09/17		
Silica by ICP-MS/Calculation	4	N/A	2010/09/14	ATL SOP 00161 R5	Based on EPA6020
Sulphate (1)	4	N/A	2010/09/15	ATL SOP 00023 R3	Based on EPA 375.4
Total Dissolved Solids (TDS calc)	4	N/A	2010/09/17		
Organic carbon - Total (TOC)	4	N/A	2010/09/15	ATL SOP-00180 R4	Based on SM5310C
ModTPH (T1) Calc. for Water	4	N/A	2010/09/16	ATL SOP-00151 R4	Based on Atl PIRI
Turbidity	4	N/A	2010/09/16	ATL SOP-00166 R6	based on SM2130

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bedford

Your P.O. #: SYD141
Your Project #: 210.05479.03
Site: SCU 18 MWS/NSLANDS
Your C.O.C. #: B124942

Attention: Kelly Henderson

SLR Consulting (Canada) Ltd
45 Wabina Crt., Suite 107B
PO Box 791, Station A
Sydney, NS
B1P 6K5

Report Date: 2010/09/20

CERTIFICATE OF ANALYSIS

-2-

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

TRACY MACLEOD-FLOYD,
Email: Tracy.MacLeod.Reports@maxxamanalytics.com
Phone# (902) 567 1255

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 2

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This document is in electronic format, hard copy is available on request.

Maxxam Job #: B0C5323
 Report Date: 2010/09/20

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05479.03
 Project name: SCU 18 MWS/NSLANDS
 Your P.O. #: SYD141

RCP BEDFORD ANIONS SYD DIS MET FW (WATER)

Maxxam ID		HC7425		HC7426	HC7427		
Sampling Date		2010/09/08 18:00		2010/09/09 15:15	2010/09/09 15:15		
COC Number		B124942		B124942	B124942		
	Units	SCU18-002-MWA	QC Batch	SCU18-005-MWA	SCU-18-005-MWA-DUP	RDL	QC Batch

Calculated Parameters							
Anion Sum	me/L	13.9	2261426	7.97	8.01	N/A	2261426
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	149	2261423	45	47	1	2261423
Calculated TDS	mg/L	864	2261429	526	534	1	2261429
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	ND	2261423	ND	ND	1	2261423
Cation Sum	me/L	13.1	2261426	7.34	7.59	N/A	2261426
Hardness (CaCO ₃)	mg/L	570	2261424	270	280	1	2261424
Ion Balance (% Difference)	%	2.86	2261425	4.11	2.69	N/A	2261425
Langelier Index (@ 20C)	N/A	0.419	2261427	0.0860	0.116		2261427
Langelier Index (@ 4C)	N/A	0.172	2261428	-0.162	-0.132		2261428
Nitrate (N)	mg/L	0.06	2261182	0.20	0.20	0.05	2261182
Saturation pH (@ 20C)	N/A	7.08	2261427	7.81	7.78		2261427
Saturation pH (@ 4C)	N/A	7.33	2261428	8.06	8.03		2261428
Inorganics							
Alkalinity (Total as CaCO ₃)	mg/L	150	2267185	45	47	5	2267185
Dissolved Chloride (Cl)	mg/L	42	2265658	49	50	1	2265658
Colour	TCU	ND	2264347	ND	6	5	2267138
Nitrate + Nitrite	mg/L	0.06	2265664	0.20	0.20	0.05	2265664
Nitrite (N)	mg/L	ND	2265666	ND	ND	0.01	2265666
Nitrogen (Ammonia Nitrogen)	mg/L	ND	2265917	0.09	0.10	0.05	2265917
Total Organic Carbon (C)	mg/L	ND	2267092	4.4	4.3	0.5	2267092
Orthophosphate (P)	mg/L	ND	2265661	0.03	0.03	0.01	2265661
pH	pH	7.50	2267163	7.90	7.90	N/A	2267163
Silica (SiO ₂)	mg/L	11	2263487	18	19	0.1	2263487
Dissolved Sulphate (SO ₄)	mg/L	470	2265660	270	270	10	2265660
Turbidity	NTU	0.4	2267280	3.4	2.9	0.1	2267280
Conductivity	uS/cm	1200	2267182	840	850	1	2267182
Metals							
Dissolved Aluminum (Al)	ug/L	11	2263484	15	17	5.0	2263484
Dissolved Antimony (Sb)	ug/L	ND	2263484	1.2	1.2	0.40	2263484
Dissolved Arsenic (As)	ug/L	0.65	2263484	16	16	0.60	2263484

 ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0C5323
 Report Date: 2010/09/20

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05479.03
 Project name: SCU 18 MWS/NSLANDS
 Your P.O. #: SYD141

RCP BEDFORD ANIONS SYD DIS MET FW (WATER)

Maxxam ID		HC7425		HC7426	HC7427		
Sampling Date		2010/09/08 18:00		2010/09/09 15:15	2010/09/09 15:15		
COC Number		B124942		B124942	B124942		
	Units	SCU18-002-MWA	QC Batch	SCU18-005-MWA	SCU-18-005-MWA-DUP	RDL	QC Batch

Dissolved Barium (Ba)	ug/L	17	2263484	33	34	0.40	2263484
Dissolved Beryllium (Be)	ug/L	ND	2263484	ND	ND	0.50	2263484
Dissolved Bismuth (Bi)	ug/L	ND	2263484	ND	ND	2.0	2263484
Dissolved Boron (B)	ug/L	ND	2263484	140	140	100	2263484
Dissolved Cadmium (Cd)	ug/L	ND	2263484	ND	ND	0.017	2263484
Dissolved Calcium (Ca)	ug/L	190000	2270746	100000	100000	100	2263484
Dissolved Chromium (Cr)	ug/L	ND	2263484	ND	ND	1.0	2263484
Dissolved Cobalt (Co)	ug/L	ND	2263484	ND	ND	1.0	2263484
Dissolved Copper (Cu)	ug/L	ND	2263484	ND	ND	2.0	2263484
Dissolved Iron (Fe)	ug/L	ND	2263484	ND	ND	100	2263484
Dissolved Lead (Pb)	ug/L	ND	2263484	ND	ND	1.0	2263484
Dissolved Lithium (Li)	ug/L	12	2263484	20	20	1.0	2263484
Dissolved Magnesium (Mg)	ug/L	24000	2270746	3400	3400	60	2263484
Dissolved Manganese (Mn)	ug/L	1200	2263484	200	260	4.0	2263484
Dissolved Molybdenum (Mo)	ug/L	ND	2263484	27	27	4.0	2263484
Dissolved Nickel (Ni)	ug/L	ND	2263484	ND	ND	3.0	2263484
Dissolved Phosphorus (P)	ug/L	ND	2263484	ND	ND	100	2263484
Dissolved Potassium (K)	ug/L	2600	2270746	19000	19000	600	2263484
Dissolved Selenium (Se)	ug/L	ND	2263484	ND	1.2	1.0	2263484
Dissolved Silver (Ag)	ug/L	ND	2263484	ND	ND	0.10	2263484
Dissolved Sodium (Na)	ug/L	38000	2270746	35000	36000	300	2263484
Dissolved Strontium (Sr)	ug/L	3700	2263484	440	440	2.0	2263484
Dissolved Thallium (Tl)	ug/L	ND	2263484	ND	ND	0.80	2263484
Dissolved Tin (Sn)	ug/L	ND	2263484	ND	ND	20	2263484
Dissolved Titanium (Ti)	ug/L	ND	2263484	ND	ND	3.0	2263484
Dissolved Uranium (U)	ug/L	1.3	2263484	0.87	0.87	0.15	2263484
Dissolved Vanadium (V)	ug/L	ND	2263484	10	10	2.0	2263484
Dissolved Zinc (Zn)	ug/L	ND	2263484	ND	ND	5.0	2263484

 ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0C5323
 Report Date: 2010/09/20

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05479.03
 Project name: SCU 18 MWS/NSLANDS
 Your P.O. #: SYD141

RCP BEDFORD ANIONS SYD DIS MET FW (WATER)

Maxxam ID		HC7428		
Sampling Date		2010/09/09 18:30		
COC Number		B124942		
	Units	SCU18-001-MWA	RDL	QC Batch

Calculated Parameters				
Anion Sum	me/L	29.2	N/A	2261426
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	264	1	2261423
Calculated TDS	mg/L	1810	1	2261429
Carb. Alkalinity (calc. as CaCO3)	mg/L	ND	1	2261423
Cation Sum	me/L	26.5	N/A	2261426
Hardness (CaCO3)	mg/L	1200	1	2261424
Ion Balance (% Difference)	%	4.71	N/A	2261425
Langelier Index (@ 20C)	N/A	0.580		2261427
Langelier Index (@ 4C)	N/A	0.336		2261428
Nitrate (N)	mg/L	ND	0.05	2261182
Saturation pH (@ 20C)	N/A	6.62		2261427
Saturation pH (@ 4C)	N/A	6.86		2261428
Inorganics				
Alkalinity (Total as CaCO3)	mg/L	260	5	2267185
Dissolved Chloride (Cl)	mg/L	57	1	2265658
Colour	TCU	ND	5	2267138
Nitrate + Nitrite	mg/L	ND	0.05	2265664
Nitrite (N)	mg/L	ND	0.01	2265666
Nitrogen (Ammonia Nitrogen)	mg/L	0.28	0.05	2265917
Total Organic Carbon (C)	mg/L	ND	0.5	2267092
Orthophosphate (P)	mg/L	0.01	0.01	2265661
pH	pH	7.20	N/A	2267163
Silica (SiO2)	mg/L	13	0.1	2263487
Dissolved Sulphate (SO4)	mg/L	1100	50	2265660
Turbidity	NTU	20	0.1	2267280
Conductivity	uS/cm	2300	1	2267182
Metals				
Dissolved Aluminum (Al)	ug/L	6.2	5.0	2263484
Dissolved Antimony (Sb)	ug/L	ND	0.40	2263484
Dissolved Arsenic (As)	ug/L	3.8	0.60	2263484
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch				

Maxxam Job #: B0C5323
 Report Date: 2010/09/20

SLR Consulting (Canada) Ltd
 Client Project #: 210.05479.03
 Project name: SCU 18 MWS/NSLANDS
 Your P.O. #: SYD141

RCP BEDFORD ANIONS SYD DIS MET FW (WATER)

Maxxam ID		HC7428		
Sampling Date		2010/09/09 18:30		
COC Number		B124942		
	Units	SCU18-001-MWA	RDL	QC Batch

Dissolved Barium (Ba)	ug/L	18	0.40	2263484
Dissolved Beryllium (Be)	ug/L	ND	0.50	2263484
Dissolved Bismuth (Bi)	ug/L	ND	2.0	2263484
Dissolved Boron (B)	ug/L	ND	100	2263484
Dissolved Cadmium (Cd)	ug/L	0.058	0.017	2263484
Dissolved Calcium (Ca)	ug/L	390000	100	2263484
Dissolved Chromium (Cr)	ug/L	ND	1.0	2263484
Dissolved Cobalt (Co)	ug/L	2.4	1.0	2263484
Dissolved Copper (Cu)	ug/L	ND	2.0	2263484
Dissolved Iron (Fe)	ug/L	1700	100	2263484
Dissolved Lead (Pb)	ug/L	ND	1.0	2263484
Dissolved Lithium (Li)	ug/L	38	1.0	2263484
Dissolved Magnesium (Mg)	ug/L	57000	60	2263484
Dissolved Manganese (Mn)	ug/L	10000	4.0	2263484
Dissolved Molybdenum (Mo)	ug/L	ND	4.0	2263484
Dissolved Nickel (Ni)	ug/L	ND	3.0	2263484
Dissolved Phosphorus (P)	ug/L	ND	100	2263484
Dissolved Potassium (K)	ug/L	6000	600	2263484
Dissolved Selenium (Se)	ug/L	ND	1.0	2263484
Dissolved Silver (Ag)	ug/L	ND	0.10	2263484
Dissolved Sodium (Na)	ug/L	47000	300	2263484
Dissolved Strontium (Sr)	ug/L	11000	2.0	2263484
Dissolved Thallium (Tl)	ug/L	ND	0.80	2263484
Dissolved Tin (Sn)	ug/L	ND	20	2263484
Dissolved Titanium (Ti)	ug/L	ND	3.0	2263484
Dissolved Uranium (U)	ug/L	1.6	0.15	2263484
Dissolved Vanadium (V)	ug/L	ND	2.0	2263484
Dissolved Zinc (Zn)	ug/L	ND	5.0	2263484

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0C5323
 Report Date: 2010/09/20

SLR Consulting (Canada) Ltd
 Client Project #: 210.05479.03
 Project name: SCU 18 MWS/NSLANDS
 Your P.O. #: SYD141

SYD/ BED TIER1 (WATER)

Maxxam ID		HC7425	HC7426	HC7427	HC7428		
Sampling Date		2010/09/08 18:00	2010/09/09 15:15	2010/09/09 15:15	2010/09/09 18:30		
COC Number		B124942	B124942	B124942	B124942		
	Units	SCU18-002-MWA	SCU18-005-MWA	SCU-18-005-MWA-DUP	SCU18-001-MWA	RDL	QC Batch

Petroleum Hydrocarbons							
Benzene	mg/L	ND	ND	ND	ND	0.001	2265874
Toluene	mg/L	ND	ND	ND	ND	0.001	2265874
Ethylbenzene	mg/L	ND	ND	ND	ND	0.001	2265874
Xylene (Total)	mg/L	ND	ND	ND	ND	0.002	2265874
C6 - C10 (less BTEX)	mg/L	ND	ND	ND	ND	0.01	2265874
>C10-C16 Hydrocarbons	mg/L	ND	ND	ND	ND	0.2	2265563
>C16-C21 Hydrocarbons	mg/L	ND	ND	ND	ND	0.2	2265563
>C21-<C32 Hydrocarbons	mg/L	ND	ND	ND	ND	0.5	2265563
Modified TPH (Tier1)	mg/L	ND	ND	ND	ND	0.5	2261430
Reached Baseline at C32	mg/L	Yes	Yes	Yes	Yes	N/A	2265563
Hydrocarbon Resemblance	mg/L	NA	NA	NA	NA	N/A	2265563
Surrogate Recovery (%)							
Isobutylbenzene - Extractable	%	123	115	111	87		2265563
n-Dotriacontane - Extractable	%	119	111	113	84		2265563
Isobutylbenzene - Volatile	%	88	94	90	92		2265874

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0C5323
 Report Date: 2010/09/20

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05479.03
 Project name: SCU 18 MWS/NSLANDS
 Your P.O. #: SYD141

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Maxxam ID		HC7425	HC7426	HC7427	HC7428		
Sampling Date		2010/09/08 18:00	2010/09/09 15:15	2010/09/09 15:15	2010/09/09 18:30		
COC Number		B124942	B124942	B124942	B124942		
	Units	SCU18-002-MWA	SCU18-005-MWA	SCU-18-005-MWA-DUP	SCU18-001-MWA	RDL	QC Batch

Polyaromatic Hydrocarbons							
1-Methylnaphthalene	ug/L	ND	ND	ND	ND	0.05	2264845
2-Methylnaphthalene	ug/L	ND	ND	ND	ND	0.05	2264845
Acenaphthene	ug/L	ND	0.02	0.02	ND	0.01	2264845
Acenaphthylene	ug/L	ND	ND	ND	ND	0.01	2264845
Anthracene	ug/L	ND	0.02	0.02	ND	0.01	2264845
Benzo(a)anthracene	ug/L	ND	0.06	0.06	0.01	0.01	2264845
Benzo(a)pyrene	ug/L	ND	0.06	0.07	ND	0.01	2264845
Benzo(b)fluoranthene	ug/L	ND	0.08	0.10	ND	0.01	2264845
Benzo(g,h,i)perylene	ug/L	ND	0.04	0.05	ND	0.01	2264845
Benzo(k)fluoranthene	ug/L	ND	0.06	0.08	ND	0.01	2264845
Chrysene	ug/L	ND	0.06	0.07	ND	0.01	2264845
Dibenz(a,h)anthracene	ug/L	ND	0.02	0.01	ND	0.01	2264845
Fluoranthene	ug/L	ND	0.07	0.08	ND	0.01	2264845
Fluorene	ug/L	0.01	0.02	0.02	ND	0.01	2264845
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.04	0.05	ND	0.01	2264845
Naphthalene	ug/L	ND	ND	ND	ND	0.2	2264845
Perylene	ug/L	ND	0.02	0.02	ND	0.01	2264845
Phenanthrene	ug/L	0.02	0.05	0.05	ND	0.01	2264845
Pyrene	ug/L	ND	0.08	0.08	ND	0.01	2264845
Surrogate Recovery (%)							
D10-Anthracene	%	89	81	93	89		2264845
D14-Terphenyl	%	93	83	84	80		2264845
D8-Acenaphthylene	%	76	68	83	75		2264845

 ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0C5323
Report Date: 2010/09/20

SLR Consulting (Canada) Ltd
Client Project #: 210.05479.03
Project name: SCU 18 MWS/NSLANDS
Your P.O. #: SYD141

Sample HC7425, Elements by ICPMS - low dissolved: Test repeated.

Results relate only to the items tested.

SLR Consulting (Canada) Ltd
 Attention: Kelly Henderson
 Client Project #: 210.05479.03
 P.O. #: SYD141
 Project name: SCU 18 MWS/NSLANDS

Quality Assurance Report
 Maxxam Job Number: KB0C5323

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2263484 MSA	Matrix Spike	Dissolved Aluminum (Al)	2010/09/14		98	%	75 - 125
		Dissolved Antimony (Sb)	2010/09/14		113	%	75 - 125
		Dissolved Arsenic (As)	2010/09/14		100	%	75 - 125
		Dissolved Barium (Ba)	2010/09/14		103	%	75 - 125
		Dissolved Beryllium (Be)	2010/09/14		116	%	75 - 125
		Dissolved Bismuth (Bi)	2010/09/14		107	%	75 - 125
		Dissolved Boron (B)	2010/09/14		123	%	75 - 125
		Dissolved Cadmium (Cd)	2010/09/14		107	%	75 - 125
		Dissolved Calcium (Ca)	2010/09/14		NC	%	75 - 125
		Dissolved Chromium (Cr)	2010/09/14		109	%	75 - 125
		Dissolved Cobalt (Co)	2010/09/14		109	%	75 - 125
		Dissolved Copper (Cu)	2010/09/14		100	%	75 - 125
		Dissolved Iron (Fe)	2010/09/14		105	%	75 - 125
		Dissolved Lead (Pb)	2010/09/14		103	%	75 - 125
		Dissolved Lithium (Li)	2010/09/14		109	%	75 - 125
		Dissolved Magnesium (Mg)	2010/09/14		117	%	75 - 125
		Dissolved Manganese (Mn)	2010/09/14		102	%	75 - 125
		Dissolved Molybdenum (Mo)	2010/09/14		112	%	75 - 125
		Dissolved Nickel (Ni)	2010/09/14		102	%	75 - 125
		Dissolved Phosphorus (P)	2010/09/14		113	%	75 - 125
		Dissolved Potassium (K)	2010/09/14		108	%	75 - 125
		Dissolved Selenium (Se)	2010/09/14		106	%	75 - 125
		Dissolved Silver (Ag)	2010/09/14		102	%	75 - 125
		Dissolved Sodium (Na)	2010/09/14		NC	%	75 - 125
		Dissolved Strontium (Sr)	2010/09/14		NC	%	75 - 125
		Dissolved Thallium (Tl)	2010/09/14		103	%	75 - 125
		Dissolved Tin (Sn)	2010/09/14		109	%	75 - 125
		Dissolved Titanium (Ti)	2010/09/14		106	%	75 - 125
		Dissolved Uranium (U)	2010/09/14		117	%	75 - 125
		Dissolved Vanadium (V)	2010/09/14		113	%	75 - 125
		Dissolved Zinc (Zn)	2010/09/14		102	%	75 - 125
		QC Standard		Dissolved Aluminum (Al)	2010/09/14		111
Dissolved Antimony (Sb)	2010/09/14				112	%	75 - 125
Dissolved Arsenic (As)	2010/09/14				98	%	75 - 125
Dissolved Barium (Ba)	2010/09/14				98	%	75 - 125
Dissolved Beryllium (Be)	2010/09/14				101	%	75 - 125
Dissolved Bismuth (Bi)	2010/09/14				110	%	75 - 125
Dissolved Boron (B)	2010/09/14				110	%	75 - 125
Dissolved Cadmium (Cd)	2010/09/14				99	%	75 - 125
Dissolved Calcium (Ca)	2010/09/14				103	%	75 - 125
Dissolved Chromium (Cr)	2010/09/14				113	%	75 - 125
Dissolved Cobalt (Co)	2010/09/14				109	%	75 - 125
Dissolved Copper (Cu)	2010/09/14				99	%	75 - 125
Dissolved Iron (Fe)	2010/09/14				102	%	75 - 125
Dissolved Lead (Pb)	2010/09/14				104	%	75 - 125
Dissolved Lithium (Li)	2010/09/14				103	%	75 - 125
Dissolved Magnesium (Mg)	2010/09/14				105	%	75 - 125
Dissolved Manganese (Mn)	2010/09/14				111	%	75 - 125
Dissolved Molybdenum (Mo)	2010/09/14				108	%	75 - 125
Dissolved Nickel (Ni)	2010/09/14				104	%	75 - 125
Dissolved Potassium (K)	2010/09/14				106	%	75 - 125
Dissolved Selenium (Se)	2010/09/14		92	%	75 - 125		
Dissolved Silver (Ag)	2010/09/14		105	%	75 - 125		
Dissolved Sodium (Na)	2010/09/14		105	%	75 - 125		
Dissolved Strontium (Sr)	2010/09/14		104	%	75 - 125		

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2263484 MSA	QC Standard	Dissolved Thallium (Tl)	2010/09/14		104	%	75 - 125
		Dissolved Vanadium (V)	2010/09/14		111	%	75 - 125
		Dissolved Zinc (Zn)	2010/09/14		93	%	75 - 125
	Spiked Blank	Dissolved Aluminum (Al)	2010/09/14		92	%	75 - 125
		Dissolved Antimony (Sb)	2010/09/14		105	%	75 - 125
		Dissolved Arsenic (As)	2010/09/14		96	%	75 - 125
		Dissolved Barium (Ba)	2010/09/14		105	%	75 - 125
		Dissolved Beryllium (Be)	2010/09/14		100	%	75 - 125
		Dissolved Bismuth (Bi)	2010/09/14		111	%	75 - 125
		Dissolved Boron (B)	2010/09/14		105	%	75 - 125
		Dissolved Cadmium (Cd)	2010/09/14		104	%	75 - 125
		Dissolved Calcium (Ca)	2010/09/14		95	%	75 - 125
		Dissolved Chromium (Cr)	2010/09/14		106	%	75 - 125
		Dissolved Cobalt (Co)	2010/09/14		107	%	75 - 125
		Dissolved Copper (Cu)	2010/09/14		103	%	75 - 125
		Dissolved Iron (Fe)	2010/09/14		104	%	75 - 125
		Dissolved Lead (Pb)	2010/09/14		106	%	75 - 125
		Dissolved Lithium (Li)	2010/09/14		99	%	75 - 125
		Dissolved Magnesium (Mg)	2010/09/14		102	%	75 - 125
		Dissolved Manganese (Mn)	2010/09/14		100	%	75 - 125
		Dissolved Molybdenum (Mo)	2010/09/14		105	%	75 - 125
		Dissolved Nickel (Ni)	2010/09/14		103	%	75 - 125
		Dissolved Phosphorus (P)	2010/09/14		104	%	75 - 125
		Dissolved Potassium (K)	2010/09/14		96	%	75 - 125
		Dissolved Selenium (Se)	2010/09/14		104	%	75 - 125
		Dissolved Silver (Ag)	2010/09/14		106	%	75 - 125
		Dissolved Sodium (Na)	2010/09/14		95	%	75 - 125
		Dissolved Strontium (Sr)	2010/09/14		109	%	75 - 125
		Dissolved Thallium (Tl)	2010/09/14		107	%	75 - 125
		Dissolved Tin (Sn)	2010/09/14		104	%	75 - 125
		Dissolved Titanium (Ti)	2010/09/14		100	%	75 - 125
		Dissolved Uranium (U)	2010/09/14		115	%	75 - 125
		Dissolved Vanadium (V)	2010/09/14		105	%	75 - 125
		Dissolved Zinc (Zn)	2010/09/14		103	%	75 - 125
	Method Blank	Dissolved Aluminum (Al)	2010/09/14	ND, RDL=5.0		ug/L	
		Dissolved Antimony (Sb)	2010/09/14	ND, RDL=0.40		ug/L	
		Dissolved Arsenic (As)	2010/09/14	ND, RDL=0.60		ug/L	
		Dissolved Barium (Ba)	2010/09/14	ND, RDL=0.40		ug/L	
		Dissolved Beryllium (Be)	2010/09/14	ND, RDL=0.50		ug/L	
		Dissolved Bismuth (Bi)	2010/09/14	ND, RDL=2.0		ug/L	
		Dissolved Boron (B)	2010/09/14	ND, RDL=100		ug/L	
		Dissolved Cadmium (Cd)	2010/09/14	ND, RDL=0.017		ug/L	
		Dissolved Calcium (Ca)	2010/09/14	ND, RDL=100		ug/L	
		Dissolved Chromium (Cr)	2010/09/14	ND, RDL=1.0		ug/L	
		Dissolved Cobalt (Co)	2010/09/14	ND, RDL=1.0		ug/L	
		Dissolved Copper (Cu)	2010/09/14	ND, RDL=2.0		ug/L	
		Dissolved Iron (Fe)	2010/09/14	ND, RDL=100		ug/L	
		Dissolved Lead (Pb)	2010/09/14	ND, RDL=1.0		ug/L	
		Dissolved Lithium (Li)	2010/09/14	ND, RDL=1.0		ug/L	
		Dissolved Magnesium (Mg)	2010/09/14	ND, RDL=60		ug/L	
		Dissolved Manganese (Mn)	2010/09/14	ND, RDL=4.0		ug/L	
		Dissolved Molybdenum (Mo)	2010/09/14	ND, RDL=4.0		ug/L	
		Dissolved Nickel (Ni)	2010/09/14	ND, RDL=3.0		ug/L	
		Dissolved Phosphorus (P)	2010/09/14	ND, RDL=100		ug/L	
		Dissolved Potassium (K)	2010/09/14	ND, RDL=600		ug/L	

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2263484 MSA	Method Blank	Dissolved Selenium (Se)	2010/09/14	ND, RDL=1.0		ug/L	
		Dissolved Silver (Ag)	2010/09/14	ND, RDL=0.10		ug/L	
		Dissolved Sodium (Na)	2010/09/14	ND, RDL=300		ug/L	
		Dissolved Strontium (Sr)	2010/09/14	ND, RDL=2.0		ug/L	
		Dissolved Thallium (Tl)	2010/09/14	ND, RDL=0.80		ug/L	
		Dissolved Tin (Sn)	2010/09/14	ND, RDL=20		ug/L	
		Dissolved Titanium (Ti)	2010/09/14	ND, RDL=3.0		ug/L	
		Dissolved Uranium (U)	2010/09/14	ND, RDL=0.15		ug/L	
		Dissolved Vanadium (V)	2010/09/14	ND, RDL=2.0		ug/L	
		Dissolved Zinc (Zn)	2010/09/14	ND, RDL=5.0		ug/L	
	RPD	Dissolved Aluminum (Al)	2010/09/14	NC		%	25
		Dissolved Antimony (Sb)	2010/09/14	NC		%	25
		Dissolved Arsenic (As)	2010/09/14	NC		%	25
		Dissolved Barium (Ba)	2010/09/14	0.07		%	25
		Dissolved Beryllium (Be)	2010/09/14	NC		%	25
		Dissolved Bismuth (Bi)	2010/09/14	NC		%	25
		Dissolved Boron (B)	2010/09/14	NC		%	25
		Dissolved Cadmium (Cd)	2010/09/14	NC		%	25
		Dissolved Calcium (Ca)	2010/09/14	9.5		%	25
		Dissolved Chromium (Cr)	2010/09/14	NC		%	25
		Dissolved Cobalt (Co)	2010/09/14	NC		%	25
		Dissolved Copper (Cu)	2010/09/14	NC		%	25
		Dissolved Iron (Fe)	2010/09/14	NC		%	25
		Dissolved Lead (Pb)	2010/09/14	NC		%	25
		Dissolved Lithium (Li)	2010/09/14	4.4		%	25
		Dissolved Magnesium (Mg)	2010/09/14	6.2		%	25
		Dissolved Manganese (Mn)	2010/09/14	3.4		%	25
		Dissolved Molybdenum (Mo)	2010/09/14	NC		%	25
		Dissolved Nickel (Ni)	2010/09/14	NC		%	25
		Dissolved Phosphorus (P)	2010/09/14	NC		%	25
	Dissolved Potassium (K)	2010/09/14	9.5		%	25	
	Dissolved Selenium (Se)	2010/09/14	NC		%	25	
Dissolved Silver (Ag)	2010/09/14	NC		%	25		
Dissolved Sodium (Na)	2010/09/14	5.9		%	25		
Dissolved Strontium (Sr)	2010/09/14	2.3		%	25		
Dissolved Thallium (Tl)	2010/09/14	NC		%	25		
Dissolved Tin (Sn)	2010/09/14	NC		%	25		
Dissolved Titanium (Ti)	2010/09/14	NC		%	25		
Dissolved Uranium (U)	2010/09/14	NC		%	25		
Dissolved Vanadium (V)	2010/09/14	NC		%	25		
Dissolved Zinc (Zn)	2010/09/14	NC		%	25		
2263487 MSA	Matrix Spike	Silica (SiO2)	2010/09/14		104	%	80 - 120
	Spiked Blank	Silica (SiO2)	2010/09/14		101	%	80 - 120
	Method Blank	Silica (SiO2)	2010/09/14	ND, RDL=0.1		mg/L	
	RPD	Silica (SiO2)	2010/09/14	7.3		%	25
2264347 JAU	Calibration Check	Colour	2010/09/14		102	%	N/A
	Matrix Spike	Colour	2010/09/14		92	%	80 - 120
	Spiked Blank	Colour	2010/09/14		93	%	80 - 120
	Method Blank	Colour	2010/09/14	ND, RDL=5		TCU	
	RPD	Colour	2010/09/14	NC		%	25
2264845 TML	Matrix Spike	D10-Anthracene	2010/09/17		74	%	30 - 130
		D14-Terphenyl	2010/09/17		84	%	30 - 130
		D8-Acenaphthylene	2010/09/17		70	%	30 - 130
		1-Methyl-naphthalene	2010/09/17		79	%	50 - 130
		2-Methyl-naphthalene	2010/09/17		72	%	50 - 130

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2264845	TML	Matrix Spike					
		Acenaphthene	2010/09/17		82	%	50 - 130
		Acenaphthylene	2010/09/17		79	%	50 - 130
		Anthracene	2010/09/17		82	%	50 - 130
		Benzo(a)anthracene	2010/09/17		95	%	50 - 130
		Benzo(a)pyrene	2010/09/17		87	%	50 - 130
		Benzo(b)fluoranthene	2010/09/17		94	%	50 - 130
		Benzo(g,h,i)perylene	2010/09/17		90	%	50 - 130
		Benzo(k)fluoranthene	2010/09/17		74	%	50 - 130
		Chrysene	2010/09/17		81	%	50 - 130
		Dibenz(a,h)anthracene	2010/09/17		85	%	50 - 130
		Fluoranthene	2010/09/17		90	%	50 - 130
		Fluorene	2010/09/17		84	%	50 - 130
		Indeno(1,2,3-cd)pyrene	2010/09/17		89	%	50 - 130
		Naphthalene	2010/09/17		68	%	50 - 130
		Perylene	2010/09/17		84	%	50 - 130
		Phenanthrene	2010/09/17		88	%	50 - 130
		Pyrene	2010/09/17		86	%	50 - 130
	Spiked Blank	D10-Anthracene	2010/09/17		75	%	30 - 130
		D14-Terphenyl	2010/09/17		103	%	30 - 130
		D8-Acenaphthylene	2010/09/17		75	%	30 - 130
		1-Methylnaphthalene	2010/09/17		71	%	50 - 130
		2-Methylnaphthalene	2010/09/17		71	%	50 - 130
		Acenaphthene	2010/09/17		91	%	50 - 130
		Acenaphthylene	2010/09/17		84	%	50 - 130
		Anthracene	2010/09/17		83	%	50 - 130
		Benzo(a)anthracene	2010/09/17		88	%	50 - 130
		Benzo(a)pyrene	2010/09/17		105	%	50 - 130
		Benzo(b)fluoranthene	2010/09/17		90	%	50 - 130
		Benzo(g,h,i)perylene	2010/09/17		79	%	50 - 130
		Benzo(k)fluoranthene	2010/09/17		102	%	50 - 130
		Chrysene	2010/09/17		75	%	50 - 130
		Dibenz(a,h)anthracene	2010/09/17		70	%	50 - 130
		Fluoranthene	2010/09/17		111	%	50 - 130
		Fluorene	2010/09/17		85	%	50 - 130
		Indeno(1,2,3-cd)pyrene	2010/09/17		80	%	50 - 130
		Naphthalene	2010/09/17		87	%	50 - 130
		Perylene	2010/09/17		82	%	50 - 130
		Phenanthrene	2010/09/17		83	%	50 - 130
		Pyrene	2010/09/17		108	%	50 - 130
	Method Blank	D10-Anthracene	2010/09/17		90	%	30 - 130
		D14-Terphenyl	2010/09/17		90	%	30 - 130
		D8-Acenaphthylene	2010/09/17		79	%	30 - 130
		1-Methylnaphthalene	2010/09/17	ND, RDL=0.05		ug/L	
		2-Methylnaphthalene	2010/09/17	ND, RDL=0.05		ug/L	
		Acenaphthene	2010/09/17	ND, RDL=0.01		ug/L	
		Acenaphthylene	2010/09/17	ND, RDL=0.01		ug/L	
		Anthracene	2010/09/17	ND, RDL=0.01		ug/L	
		Benzo(a)anthracene	2010/09/17	ND, RDL=0.01		ug/L	
		Benzo(a)pyrene	2010/09/17	ND, RDL=0.01		ug/L	
		Benzo(b)fluoranthene	2010/09/17	ND, RDL=0.01		ug/L	
		Benzo(g,h,i)perylene	2010/09/17	ND, RDL=0.01		ug/L	
		Benzo(k)fluoranthene	2010/09/17	ND, RDL=0.01		ug/L	
		Chrysene	2010/09/17	ND, RDL=0.01		ug/L	
		Dibenz(a,h)anthracene	2010/09/17	ND, RDL=0.01		ug/L	
		Fluoranthene	2010/09/17	ND, RDL=0.01		ug/L	

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2264845 TML	Method Blank	Fluorene	2010/09/17	ND, RDL=0.01		ug/L	
		Indeno(1,2,3-cd)pyrene	2010/09/17	ND, RDL=0.01		ug/L	
		Naphthalene	2010/09/17	ND, RDL=0.2		ug/L	
		Perylene	2010/09/17	ND, RDL=0.01		ug/L	
		Phenanthrene	2010/09/17	ND, RDL=0.01		ug/L	
	RPD	Pyrene	2010/09/17	ND, RDL=0.01		ug/L	
		1-Methylnaphthalene	2010/09/17	NC		%	40
		2-Methylnaphthalene	2010/09/17	NC		%	40
		Acenaphthene	2010/09/17	9.3		%	40
		Acenaphthylene	2010/09/17	24.7		%	40
		Anthracene	2010/09/17	17.4		%	40
		Benzo(a)anthracene	2010/09/17	3.8		%	40
		Benzo(a)pyrene	2010/09/17	12.6		%	40
		Benzo(b)fluoranthene	2010/09/17	NC (1)		%	40
		Benzo(g,h,i)perylene	2010/09/17	NC		%	40
		Benzo(k)fluoranthene	2010/09/17	16.0		%	40
		Chrysene	2010/09/17	7.8		%	40
		Dibenz(a,h)anthracene	2010/09/17	NC		%	40
		Fluoranthene	2010/09/17	0.9		%	40
		Fluorene	2010/09/17	15.8		%	40
		Indeno(1,2,3-cd)pyrene	2010/09/17	NC		%	40
		Naphthalene	2010/09/17	NC		%	40
		Perylene	2010/09/17	NC		%	40
Phenanthrene	2010/09/17	6.3		%	40		
Pyrene	2010/09/17	1.7		%	40		
2265563 JHO	Matrix Spike	Isobutylbenzene - Extractable	2010/09/14		118	%	30 - 130
		n-Dotriacontane - Extractable	2010/09/14		124	%	30 - 130
		>C10-C16 Hydrocarbons	2010/09/14		89	%	70 - 130
		>C16-C21 Hydrocarbons	2010/09/14		85	%	70 - 130
		>C21-<C32 Hydrocarbons	2010/09/14		97	%	50 - 120
	Spiked Blank	Isobutylbenzene - Extractable	2010/09/14		125	%	30 - 130
		n-Dotriacontane - Extractable	2010/09/14		124	%	30 - 130
		>C10-C16 Hydrocarbons	2010/09/14		84	%	70 - 130
		>C16-C21 Hydrocarbons	2010/09/14		88	%	70 - 130
		>C21-<C32 Hydrocarbons	2010/09/14		100	%	50 - 120
	Method Blank	Isobutylbenzene - Extractable	2010/09/14		84	%	30 - 130
		n-Dotriacontane - Extractable	2010/09/14		87	%	30 - 130
		>C10-C16 Hydrocarbons	2010/09/14	ND, RDL=0.2		mg/L	
		>C16-C21 Hydrocarbons	2010/09/14	ND, RDL=0.2		mg/L	
		>C21-<C32 Hydrocarbons	2010/09/14	ND, RDL=0.5		mg/L	
	RPD	>C10-C16 Hydrocarbons	2010/09/14	NC		%	40
		>C16-C21 Hydrocarbons	2010/09/14	NC		%	40
		>C21-<C32 Hydrocarbons	2010/09/14	NC		%	40
2265658 SMT	Matrix Spike	Dissolved Chloride (Cl)	2010/09/15		NC	%	80 - 120
	QC Standard	Dissolved Chloride (Cl)	2010/09/15		102	%	80 - 120
	Spiked Blank	Dissolved Chloride (Cl)	2010/09/15		102	%	80 - 120
	Method Blank	Dissolved Chloride (Cl)	2010/09/15	ND, RDL=1		mg/L	
	RPD	Dissolved Chloride (Cl)	2010/09/15	0.9		%	25
2265660 SMT	Matrix Spike	Dissolved Sulphate (SO4)	2010/09/15		94	%	80 - 120
	QC Standard	Dissolved Sulphate (SO4)	2010/09/15		93	%	80 - 120
	Spiked Blank	Dissolved Sulphate (SO4)	2010/09/15		95	%	80 - 120
	Method Blank	Dissolved Sulphate (SO4)	2010/09/15	ND, RDL=2		mg/L	
	RPD	Dissolved Sulphate (SO4)	2010/09/15	NC		%	25
2265661 SMT	Matrix Spike	Orthophosphate (P)	2010/09/15		93	%	80 - 120
	QC Standard	Orthophosphate (P)	2010/09/15		98	%	80 - 120

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2265661 SMT	Spiked Blank	Orthophosphate (P)	2010/09/15		100	%	80 - 120	
	Method Blank	Orthophosphate (P)	2010/09/15	ND, RDL=0.01		mg/L		
	RPD	Orthophosphate (P)	2010/09/15	NC		%	25	
2265664 DLB	Matrix Spike	Nitrate + Nitrite	2010/09/15		98	%	80 - 120	
	QC Standard	Nitrate + Nitrite	2010/09/15		100	%	80 - 120	
	Spiked Blank	Nitrate + Nitrite	2010/09/15		100	%	80 - 120	
	Method Blank	Nitrate + Nitrite	2010/09/15	ND, RDL=0.05		mg/L		
	RPD	Nitrate + Nitrite	2010/09/15	0.3		%	25	
2265666 MCN	Matrix Spike	Nitrite (N)	2010/09/15		93	%	80 - 120	
	QC Standard	Nitrite (N)	2010/09/15		91	%	80 - 120	
	Spiked Blank	Nitrite (N)	2010/09/15		91	%	80 - 120	
	Method Blank	Nitrite (N)	2010/09/15	ND, RDL=0.01		mg/L		
	RPD	Nitrite (N)	2010/09/15	NC		%	25	
2265874 SHL	Matrix Spike	Isobutylbenzene - Volatile	2010/09/15		92	%	70 - 130	
		Benzene	2010/09/15		91	%	70 - 130	
		Toluene	2010/09/15		91	%	70 - 130	
		Ethylbenzene	2010/09/15		87	%	70 - 130	
		Xylene (Total)	2010/09/15		88	%	70 - 130	
	Spiked Blank	Isobutylbenzene - Volatile	2010/09/15		97	%	70 - 130	
		Benzene	2010/09/15		105	%	70 - 130	
		Toluene	2010/09/15		106	%	70 - 130	
		Ethylbenzene	2010/09/15		105	%	70 - 130	
		Xylene (Total)	2010/09/15		103	%	70 - 130	
	Method Blank	Isobutylbenzene - Volatile	2010/09/15		98	%	70 - 130	
		Benzene	2010/09/15	ND, RDL=0.001		mg/L		
		Toluene	2010/09/15	ND, RDL=0.001		mg/L		
		Ethylbenzene	2010/09/15	ND, RDL=0.001		mg/L		
		Xylene (Total)	2010/09/15	ND, RDL=0.002		mg/L		
		C6 - C10 (less BTEX)	2010/09/15	ND, RDL=0.01		mg/L		
		RPD	Benzene	2010/09/15	NC		%	40
			Toluene	2010/09/15	NC		%	40
			Ethylbenzene	2010/09/15	NC		%	40
			Xylene (Total)	2010/09/15	NC		%	40
			C6 - C10 (less BTEX)	2010/09/15	NC		%	40
2265917 DLB	Matrix Spike	Nitrogen (Ammonia Nitrogen)	2010/09/15		NC	%	80 - 120	
	QC Standard	Nitrogen (Ammonia Nitrogen)	2010/09/15		99	%	80 - 120	
	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2010/09/15		90	%	80 - 120	
	Method Blank	Nitrogen (Ammonia Nitrogen)	2010/09/15	ND, RDL=0.05		mg/L		
	RPD	Nitrogen (Ammonia Nitrogen)	2010/09/15	1.4		%	25	
2267092 BMI	Matrix Spike	Total Organic Carbon (C)	2010/09/15		94	%	80 - 120	
	QC Standard	Total Organic Carbon (C)	2010/09/15		96	%	80 - 120	
	Spiked Blank	Total Organic Carbon (C)	2010/09/15		97	%	80 - 120	
	Method Blank	Total Organic Carbon (C)	2010/09/15	ND, RDL=0.5		mg/L		
	RPD	Total Organic Carbon (C)	2010/09/15	NC		%	25	
2267138 JAU	Calibration Check	Colour	2010/09/16		102	%	N/A	
	Matrix Spike	Colour	2010/09/16		81	%	80 - 120	
	Spiked Blank	Colour	2010/09/16		90	%	80 - 120	
	Method Blank	Colour	2010/09/16	ND, RDL=5		TCU		
	RPD	Colour	2010/09/16	NC		%	25	
2267163 SMK	QC Standard	pH	2010/09/16		99	%	80 - 120	
	Method Blank	pH	2010/09/16	5.70		pH		
	RPD [HC7428-01]	pH	2010/09/16	0		%	25	
2267182 SMK	QC Standard	Conductivity	2010/09/16		97	%	80 - 120	
	Method Blank	Conductivity	2010/09/16	ND, RDL=1		uS/cm		
	RPD [HC7428-01]	Conductivity	2010/09/16	0.4		%	25	

SLR Consulting (Canada) Ltd
 Attention: Kelly Henderson
 Client Project #: 210.05479.03
 P.O. #: SYD141
 Project name: SCU 18 MWS/NSLANDS

Quality Assurance Report (Continued)
 Maxxam Job Number: KB0C5323

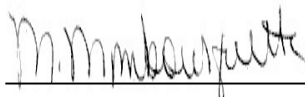
QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2267185 SMK	Matrix Spike						
	[HC7428-01]	Alkalinity (Total as CaCO3)	2010/09/16		97	%	80 - 120
	QC Standard	Alkalinity (Total as CaCO3)	2010/09/16		93	%	80 - 120
	Spiked Blank	Alkalinity (Total as CaCO3)	2010/09/16		95	%	80 - 120
	Method Blank	Alkalinity (Total as CaCO3)	2010/09/16		ND, RDL=5		mg/L
	RPD [HC7428-01]	Alkalinity (Total as CaCO3)	2010/09/16		0.6		%
2267280 JAU	Calibration Check	Turbidity	2010/09/16		109	%	N/A
	Matrix Spike	Turbidity	2010/09/16		100	%	75 - 125
	Spiked Blank	Turbidity	2010/09/16		107	%	75 - 125
	Method Blank	Turbidity	2010/09/16		ND, RDL=0.1		NTU
	RPD	Turbidity	2010/09/16		NC		%

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
 Calibration Check: A calibration standard analyzed at different times to evaluate on-going calibration accuracy.
 Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
 QC Standard: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
 NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.
 (1) Duplicate: <10% of compounds in multi-component analysis in violation.

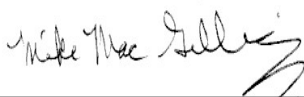
Validation Signature Page

Maxxam Job #: B0C5323

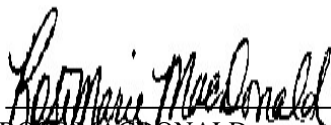
The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



MICHELLE MOMBOURQUETTE, Laboratory Manager



MIKE MACGILLIVRAY, Bedford Inorg Spvsr



ROSE MACDONALD,

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Your P.O. #: SYD147
 Your Project #: 210.05780.00000
 Site: 2010 GWMP/HCP
 Your C.O.C. #: B125819

Attention: Kelly Henderson
 SLR Consulting (Canada) Ltd
 45 Wabina Crt., Suite 107B
 PO Box 791, Station A
 Sydney, NS
 B1P 6K5

Report Date: 2010/11/19

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B0G1007
Received: 2010/11/10, 09:35

Sample Matrix: Water
 # Samples Received: 10

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
TEH in Water (PIRI)	10	2010/11/15	2010/11/16	ATL SOP-00151 R5	Based on ATL PIRI
Mercury - Total (CVAA,LL)	10	2010/11/17	2010/11/16	ATL SOP-00160 R5	Based on EPA245.1
Elements by ICPMS - low dissolved	10	N/A	2010/11/16	ATL SOP 00161 R6	Based on EPA6020A
PAH in Water by GC/MS (SIM)	3	2010/11/15	2010/11/16	ATL SOP 00147 R5	Based on EPA 8270C
PAH in Water by GC/MS (SIM)	6	2010/11/15	2010/11/17	ATL SOP 00147 R5	Based on EPA 8270C
PAH in Water by GC/MS (SIM)	1	2010/11/15	2010/11/18	ATL SOP 00147 R5	Based on EPA 8270C
VPH in Water (PIRI) ☐	2	2010/11/16	2010/11/17	ATL SOP 00118 R4	Based on Atl. PIRI
VPH in Water (PIRI) ☐	5	2010/11/17	2010/11/18	ATL SOP 00118 R4	Based on Atl. PIRI
VPH in Water (PIRI) ☐	3	2010/11/18	2010/11/19	ATL SOP 00118 R4	Based on Atl. PIRI
ModTPH (T1) Calc. for Water	4	N/A	2010/11/18	ATL SOP-00151 R4	Based on Atl PIRI
ModTPH (T1) Calc. for Water	6	N/A	2010/11/19	ATL SOP-00151 R4	Based on Atl PIRI
Volatile Organic Compounds in Water ☐	1	2010/11/17	2010/11/19	ATL SOP 00122 R4	Based on EPA624

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bedford

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

TRACY MACLEOD-FLOYD,
 Email: TMacLeod@maxxam.ca
 Phone# (902) 567 1255

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 1

Maxxam Job #: B0G1007
Report Date: 2010/11/19

SLR Consulting (Canada) Ltd
Client Project #: 210.05780.00000
Project name: 2010 GWMP/HCP
Your P.O. #: SYD147

ATLANTIC VOC IN WATER (WATER)

Maxxam ID		HU5538		
Sampling Date		2010/11/09 04:45		
COC Number		B125819		
	Units	SCU11-004-MWB	RDL	QC Batch

Chlorobenzenes				
1,2-Dichlorobenzene	ug/L	ND	0.5	2333805
1,3-Dichlorobenzene	ug/L	ND	1	2333805
1,4-Dichlorobenzene	ug/L	ND	1	2333805
Chlorobenzene	ug/L	ND	1	2333805
Volatile Organics				
1,1,1-Trichloroethane	ug/L	ND	1	2333805
1,1,2,2-Tetrachloroethane	ug/L	ND	1	2333805
1,1,2-Trichloroethane	ug/L	ND	1	2333805
1,1-Dichloroethane	ug/L	ND	2	2333805
1,1-Dichloroethylene	ug/L	ND	0.5	2333805
1,2-Dichloroethane	ug/L	ND	1	2333805
1,2-Dichloropropane	ug/L	ND	1	2333805
Benzene	ug/L	ND	1	2333805
Bromodichloromethane	ug/L	ND	1	2333805
Bromoform	ug/L	ND	1	2333805
Bromomethane	ug/L	ND	3	2333805
Carbon Tetrachloride	ug/L	ND	1	2333805
Chloroethane	ug/L	ND	8	2333805
Chloroform	ug/L	ND	1	2333805
Chloromethane	ug/L	ND	8	2333805
cis-1,2-Dichloroethylene	ug/L	ND	2	2333805
cis-1,3-Dichloropropene	ug/L	ND	2	2333805
Dibromochloromethane	ug/L	ND	1	2333805
Ethylbenzene	ug/L	ND	1	2333805
Ethylene Dibromide	ug/L	ND	1	2333805
Methylene Chloride(Dichloromethane)	ug/L	ND	3	2333805
o-Xylene	ug/L	ND	1	2333805
p+m-Xylene	ug/L	ND	2	2333805
Styrene	ug/L	ND	1	2333805
Tetrachloroethylene	ug/L	ND	1	2333805
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch				

Maxxam Job #: B0G1007
 Report Date: 2010/11/19

SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

ATLANTIC VOC IN WATER (WATER)

Maxxam ID		HU5538		
Sampling Date		2010/11/09 04:45		
COC Number		B125819		
	Units	SCU11-004-MWB	RDL	QC Batch

Toluene	ug/L	ND	1	2333805
trans-1,2-Dichloroethylene	ug/L	ND	2	2333805
trans-1,3-Dichloropropene	ug/L	ND	1	2333805
Trichloroethylene	ug/L	ND	1	2333805
Trichlorofluoromethane (FREON 11)	ug/L	ND	8	2333805
Vinyl Chloride	ug/L	ND	0.5	2333805
Surrogate Recovery (%)				
4-Bromofluorobenzene	%	100		2333805
D4-1,2-Dichloroethane	%	103		2333805
D8-Toluene	%	99		2333805

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G1007
 Report Date: 2010/11/19

SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

SYD/ BED TIER1 (WATER)

Maxxam ID		HU5535	HU5536	HU5537		HU5538		
Sampling Date		2010/11/09 14:45	2010/11/09 03:15	2010/11/09 10:30		2010/11/09 04:45		
COC Number		B125819	B125819	B125819		B125819		
	Units	SCU15-004-MWA	SCU15-004-MWB	SCU8-002-MW	QC Batch	SCU11-004-MWB	RDL	QC Batch

Petroleum Hydrocarbons								
Benzene	mg/L	ND	ND	ND	2333450	ND	0.001	2332107
Toluene	mg/L	ND	ND	ND	2333450	ND	0.001	2332107
Ethylbenzene	mg/L	ND	ND	ND	2333450	ND	0.001	2332107
Xylene (Total)	mg/L	ND	ND	ND	2333450	ND	0.002	2332107
C6 - C10 (less BTEX)	mg/L	ND	ND	ND	2333450	ND	0.01	2332107
>C10-C16 Hydrocarbons	mg/L	ND	ND	ND	2329571	ND	0.2	2329571
>C16-C21 Hydrocarbons	mg/L	ND	ND	ND	2329571	ND	0.2	2329571
>C21-<C32 Hydrocarbons	mg/L	ND	ND	ND	2329571	ND	0.5	2329571
Modified TPH (Tier1)	mg/L	ND	ND	ND	2325593	ND	0.5	2325593
Reached Baseline at C32	mg/L	Yes	Yes	Yes	2329571	Yes	N/A	2329571
Hydrocarbon Resemblance	mg/L	NA	NA	NA	2329571	NA	N/A	2329571
Surrogate Recovery (%)								
Isobutylbenzene - Extractable	%	109	104	101	2329571	103		2329571
n-Dotriacontane - Extractable	%	108	105	103	2329571	103		2329571
Isobutylbenzene - Volatile	%	115	114	112	2333450	113		2332107

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G1007
 Report Date: 2010/11/19

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

SYD/ BED TIER1 (WATER)

Maxxam ID		HU5539		HU5540		HU5541		
Sampling Date		2010/11/09 08:45		2010/11/09 10:35		2010/11/09 11:40		
COC Number		B125819		B125819		B125819		
	Units	SCU12-003-MW	QC Batch	SCU13-006-MWB	RDL	SCU15-018-MW	RDL	QC Batch

Petroleum Hydrocarbons								
Benzene	mg/L	ND	2332107	ND	0.001	0.13	0.01	2332113
Toluene	mg/L	ND	2332107	ND	0.001	ND	0.01	2332113
Ethylbenzene	mg/L	ND	2332107	ND	0.001	0.41	0.01	2332113
Xylene (Total)	mg/L	ND	2332107	ND	0.002	0.70	0.02	2332113
C6 - C10 (less BTEX)	mg/L	ND	2332107	ND	0.01	2.6	0.1	2332113
>C10-C16 Hydrocarbons	mg/L	ND	2329571	ND	0.2	7.7	0.2	2329571
>C16-C21 Hydrocarbons	mg/L	ND	2329571	ND	0.2	ND	0.2	2329571
>C21-<C32 Hydrocarbons	mg/L	ND	2329571	ND	0.5	ND	0.5	2329571
Modified TPH (Tier1)	mg/L	ND	2325593	ND	0.5	10	0.5	2325593
Reached Baseline at C32	mg/L	Yes	2329571	Yes	N/A	Yes	N/A	2329571
Hydrocarbon Resemblance	mg/L	NA	2329571	NA	N/A	SEE NOTE (1)	N/A	2329571
Surrogate Recovery (%)								
Isobutylbenzene - Extractable	%	111	2329571	93		113		2329571
n-Dotriacontane - Extractable	%	108	2329571	94		111		2329571
Isobutylbenzene - Volatile	%	116	2332107	94		95 (2)		2332113

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 (1) One product in the gasoline/fuel oil range
 (2) Elevated VPH RDL(s) due to sample dilution.

Maxxam Job #: B0G1007
 Report Date: 2010/11/19

SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

SYD/ BED TIER1 (WATER)

Maxxam ID		HU5542		HU5543	HU5544		
Sampling Date		2010/11/09 07:40		2010/11/09 14:45	2010/11/09 08:45		
COC Number		B125819		B125819	B125819		
	Units	SCU13-006-MWA	QC Batch	SCU13-003-MW	FIELD DUPA	RDL	QC Batch

Petroleum Hydrocarbons							
Benzene	mg/L	ND	2332113	ND	ND	0.001	2330722
Toluene	mg/L	ND	2332113	ND	ND	0.001	2330722
Ethylbenzene	mg/L	ND	2332113	ND	ND	0.001	2330722
Xylene (Total)	mg/L	ND	2332113	ND	ND	0.002	2330722
C6 - C10 (less BTEX)	mg/L	ND	2332113	ND	ND	0.01	2330722
>C10-C16 Hydrocarbons	mg/L	ND	2329571	ND	ND	0.2	2329571
>C16-C21 Hydrocarbons	mg/L	ND	2329571	ND	ND	0.2	2329571
>C21-<C32 Hydrocarbons	mg/L	ND	2329571	ND	ND	0.5	2329571
Modified TPH (Tier1)	mg/L	ND	2325593	ND	ND	0.5	2325593
Reached Baseline at C32	mg/L	Yes	2329571	Yes	Yes	N/A	2329571
Hydrocarbon Resemblance	mg/L	NA	2329571	NA	NA	N/A	2329571
Surrogate Recovery (%)							
Isobutylbenzene - Extractable	%	99	2329571	104	92		2329571
n-Dotriacontane - Extractable	%	96	2329571	100	86		2329571
Isobutylbenzene - Volatile	%	97	2332113	111	103		2330722

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G1007
 Report Date: 2010/11/19

SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

MERCURY BY COLD VAPOUR AA (WATER)

Maxxam ID		HU5535	HU5536	HU5537	HU5538	HU5539		
Sampling Date		2010/11/09 14:45	2010/11/09 03:15	2010/11/09 10:30	2010/11/09 04:45	2010/11/09 08:45		
COC Number		B125819	B125819	B125819	B125819	B125819		
	Units	SCU15-004-MWA	SCU15-004-MWB	SCU8-002-MW	SCU11-004-MWB	SCU12-003-MW	RDL	QC Batch

Metals								
Total Mercury (Hg)	ug/L	ND	ND	ND	ND	ND	0.013	2331982
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch								

Maxxam ID		HU5540	HU5541	HU5542	HU5543	HU5544		
Sampling Date		2010/11/09 10:35	2010/11/09 11:40	2010/11/09 07:40	2010/11/09 14:45	2010/11/09 08:45		
COC Number		B125819	B125819	B125819	B125819	B125819		
	Units	SCU13-006-MWB	SCU15-018-MW	SCU13-006-MWA	SCU13-003-MW	FIELD DUPA	RDL	QC Batch

Metals								
Total Mercury (Hg)	ug/L	ND	0.017	ND	ND	ND	0.013	2331982
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch								

Maxxam Job #: B0G1007
 Report Date: 2010/11/19

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		HU5535	HU5536	HU5537	HU5538		
Sampling Date		2010/11/09 14:45	2010/11/09 03:15	2010/11/09 10:30	2010/11/09 04:45		
COC Number		B125819	B125819	B125819	B125819		
	Units	SCU15-004-MWA	SCU15-004-MWB	SCU8-002-MW	SCU11-004-MWB	RDL	QC Batch

Metals							
Dissolved Aluminum (Al)	ug/L	10	8.6	8.4	11	5.0	2331108
Dissolved Antimony (Sb)	ug/L	3.7	ND	2.0	ND	0.40	2331108
Dissolved Arsenic (As)	ug/L	1.8	13	1.9	1.5	0.60	2331108
Dissolved Barium (Ba)	ug/L	92	47	85	77	0.40	2331108
Dissolved Beryllium (Be)	ug/L	ND	ND	ND	ND	0.50	2331108
Dissolved Bismuth (Bi)	ug/L	ND	ND	ND	ND	2.0	2331108
Dissolved Boron (B)	ug/L	ND	ND	140	ND	100	2331108
Dissolved Cadmium (Cd)	ug/L	ND	ND	0.075	ND	0.017	2331108
Dissolved Calcium (Ca)	ug/L	82000	93000	160000	92000	100	2331108
Dissolved Chromium (Cr)	ug/L	1.9	ND	ND	1.8	1.0	2331108
Dissolved Cobalt (Co)	ug/L	ND	ND	ND	ND	1.0	2331108
Dissolved Copper (Cu)	ug/L	ND	ND	ND	ND	2.0	2331108
Dissolved Iron (Fe)	ug/L	ND	480	ND	ND	100	2331108
Dissolved Lead (Pb)	ug/L	ND	ND	ND	ND	1.0	2331108
Dissolved Lithium (Li)	ug/L	19	11	15	19	1.0	2331108
Dissolved Magnesium (Mg)	ug/L	5900	12000	30000	11000	60	2331108
Dissolved Manganese (Mn)	ug/L	ND	220	30	200	4.0	2331108
Dissolved Molybdenum (Mo)	ug/L	21	ND	ND	ND	4.0	2331108
Dissolved Nickel (Ni)	ug/L	ND	ND	ND	ND	3.0	2331108
Dissolved Phosphorus (P)	ug/L	ND	ND	150	ND	100	2331108
Dissolved Potassium (K)	ug/L	6400	2700	2800	4000	600	2331108
Dissolved Selenium (Se)	ug/L	1.0	ND	3.6	ND	1.0	2331108
Dissolved Silver (Ag)	ug/L	ND	ND	ND	ND	0.10	2331108
Dissolved Sodium (Na)	ug/L	19000	32000	12000	14000	300	2331108
Dissolved Strontium (Sr)	ug/L	550	1800	560	6700	2.0	2331108
Dissolved Thallium (Tl)	ug/L	ND	ND	ND	ND	0.80	2331108
Dissolved Tin (Sn)	ug/L	ND	ND	ND	ND	20	2331108
Dissolved Titanium (Ti)	ug/L	ND	ND	ND	ND	3.0	2331108
Dissolved Uranium (U)	ug/L	0.62	0.34	5.4	2.4	0.15	2331108
Dissolved Vanadium (V)	ug/L	43	ND	4.0	ND	2.0	2331108

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G1007
 Report Date: 2010/11/19

SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		HU5535	HU5536	HU5537	HU5538		
Sampling Date		2010/11/09 14:45	2010/11/09 03:15	2010/11/09 10:30	2010/11/09 04:45		
COC Number		B125819	B125819	B125819	B125819		
	Units	SCU15-004-MWA	SCU15-004-MWB	SCU8-002-MW	SCU11-004-MWB	RDL	QC Batch

Dissolved Zinc (Zn)	ug/L	ND	ND	6.9	ND	5.0	2331108
---------------------	------	----	----	-----	----	-----	---------

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G1007
 Report Date: 2010/11/19

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		HU5539	HU5540	HU5541	HU5542		
Sampling Date		2010/11/09 08:45	2010/11/09 10:35	2010/11/09 11:40	2010/11/09 07:40		
COC Number		B125819	B125819	B125819	B125819		
	Units	SCU12-003-MW	SCU13-006-MWB	SCU15-018-MW	SCU13-006-MWA	RDL	QC Batch

Metals							
Dissolved Aluminum (Al)	ug/L	11	18	32	11	5.0	2331108
Dissolved Antimony (Sb)	ug/L	ND	ND	ND	ND	0.40	2331108
Dissolved Arsenic (As)	ug/L	ND	1.2	5.4	3.1	0.60	2331108
Dissolved Barium (Ba)	ug/L	65	25	1000	39	0.40	2331108
Dissolved Beryllium (Be)	ug/L	ND	ND	ND	ND	0.50	2331108
Dissolved Bismuth (Bi)	ug/L	ND	ND	ND	ND	2.0	2331108
Dissolved Boron (B)	ug/L	130	220	ND	120	100	2331108
Dissolved Cadmium (Cd)	ug/L	ND	ND	ND	ND	0.017	2331108
Dissolved Calcium (Ca)	ug/L	10000	140000	130000	130000	100	2331108
Dissolved Chromium (Cr)	ug/L	ND	ND	ND	ND	1.0	2331108
Dissolved Cobalt (Co)	ug/L	ND	ND	2.3	ND	1.0	2331108
Dissolved Copper (Cu)	ug/L	ND	ND	ND	ND	2.0	2331108
Dissolved Iron (Fe)	ug/L	8200	ND	4100	ND	100	2331108
Dissolved Lead (Pb)	ug/L	ND	ND	ND	ND	1.0	2331108
Dissolved Lithium (Li)	ug/L	27	48	7.3	44	1.0	2331108
Dissolved Magnesium (Mg)	ug/L	1700	17000	37000	13000	60	2331108
Dissolved Manganese (Mn)	ug/L	420	36	6200	74	4.0	2331108
Dissolved Molybdenum (Mo)	ug/L	ND	5.2	ND	9.8	4.0	2331108
Dissolved Nickel (Ni)	ug/L	ND	ND	ND	ND	3.0	2331108
Dissolved Phosphorus (P)	ug/L	ND	ND	ND	ND	100	2331108
Dissolved Potassium (K)	ug/L	2600	4700	5600	5400	600	2331108
Dissolved Selenium (Se)	ug/L	ND	ND	ND	1.7	1.0	2331108
Dissolved Silver (Ag)	ug/L	ND	ND	ND	ND	0.10	2331108
Dissolved Sodium (Na)	ug/L	120000	64000	32000	53000	300	2331108
Dissolved Strontium (Sr)	ug/L	200	6900	1900	1500	2.0	2331108
Dissolved Thallium (Tl)	ug/L	ND	ND	ND	ND	0.80	2331108
Dissolved Tin (Sn)	ug/L	ND	ND	ND	ND	20	2331108
Dissolved Titanium (Ti)	ug/L	ND	ND	ND	ND	3.0	2331108
Dissolved Uranium (U)	ug/L	ND	1.1	1.4	4.9	0.15	2331108
Dissolved Vanadium (V)	ug/L	ND	ND	ND	4.3	2.0	2331108

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G1007
 Report Date: 2010/11/19

SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		HU5539	HU5540	HU5541	HU5542		
Sampling Date		2010/11/09 08:45	2010/11/09 10:35	2010/11/09 11:40	2010/11/09 07:40		
COC Number		B125819	B125819	B125819	B125819		
	Units	SCU12-003-MW	SCU13-006-MWB	SCU15-018-MW	SCU13-006-MWA	RDL	QC Batch

Dissolved Zinc (Zn)	ug/L	ND	ND	8.2	ND	5.0	2331108
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ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G1007
 Report Date: 2010/11/19

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		HU5543	HU5544		
Sampling Date		2010/11/09 14:45	2010/11/09 08:45		
COC Number		B125819	B125819		
	Units	SCU13-003-MW	FIELD DUPA	RDL	QC Batch

Metals					
Dissolved Aluminum (Al)	ug/L	14	10	5.0	2331108
Dissolved Antimony (Sb)	ug/L	3.1	ND	0.40	2331108
Dissolved Arsenic (As)	ug/L	4.4	ND	0.60	2331108
Dissolved Barium (Ba)	ug/L	50	66	0.40	2331108
Dissolved Beryllium (Be)	ug/L	ND	ND	0.50	2331108
Dissolved Bismuth (Bi)	ug/L	ND	ND	2.0	2331108
Dissolved Boron (B)	ug/L	ND	130	100	2331108
Dissolved Cadmium (Cd)	ug/L	0.13	ND	0.017	2331108
Dissolved Calcium (Ca)	ug/L	130000	9900	100	2331108
Dissolved Chromium (Cr)	ug/L	3.3	ND	1.0	2331108
Dissolved Cobalt (Co)	ug/L	ND	ND	1.0	2331108
Dissolved Copper (Cu)	ug/L	2.1	ND	2.0	2331108
Dissolved Iron (Fe)	ug/L	ND	8300	100	2331108
Dissolved Lead (Pb)	ug/L	ND	ND	1.0	2331108
Dissolved Lithium (Li)	ug/L	15	27	1.0	2331108
Dissolved Magnesium (Mg)	ug/L	1300	1800	60	2331108
Dissolved Manganese (Mn)	ug/L	ND	420	4.0	2331108
Dissolved Molybdenum (Mo)	ug/L	5.1	ND	4.0	2331108
Dissolved Nickel (Ni)	ug/L	ND	ND	3.0	2331108
Dissolved Phosphorus (P)	ug/L	ND	ND	100	2331108
Dissolved Potassium (K)	ug/L	6000	2600	600	2331108
Dissolved Selenium (Se)	ug/L	3.4	ND	1.0	2331108
Dissolved Silver (Ag)	ug/L	ND	ND	0.10	2331108
Dissolved Sodium (Na)	ug/L	8100	120000	300	2331108
Dissolved Strontium (Sr)	ug/L	810	200	2.0	2331108
Dissolved Thallium (Tl)	ug/L	ND	ND	0.80	2331108
Dissolved Tin (Sn)	ug/L	ND	ND	20	2331108
Dissolved Titanium (Ti)	ug/L	ND	ND	3.0	2331108
Dissolved Uranium (U)	ug/L	1.5	ND	0.15	2331108
Dissolved Vanadium (V)	ug/L	36	ND	2.0	2331108

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G1007
 Report Date: 2010/11/19

SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		HU5543	HU5544		
Sampling Date		2010/11/09 14:45	2010/11/09 08:45		
COC Number		B125819	B125819		
	Units	SCU13-003-MW	FIELD DUPA	RDL	QC Batch

Dissolved Zinc (Zn)	ug/L	ND	ND	5.0	2331108
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ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G1007
 Report Date: 2010/11/19

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Maxxam ID		HU5535	HU5536	HU5537	HU5538		
Sampling Date		2010/11/09 14:45	2010/11/09 03:15	2010/11/09 10:30	2010/11/09 04:45		
COC Number		B125819	B125819	B125819	B125819		
	Units	SCU15-004-MWA	SCU15-004-MWB	SCU8-002-MW	SCU11-004-MWB	RDL	QC Batch

Polyaromatic Hydrocarbons							
1-Methylnaphthalene	ug/L	ND	ND	ND	0.15	0.05	2329817
2-Methylnaphthalene	ug/L	ND	ND	ND	0.19	0.05	2329817
Acenaphthene	ug/L	0.01	ND	ND	0.06	0.01	2329817
Acenaphthylene	ug/L	ND	ND	ND	ND	0.01	2329817
Anthracene	ug/L	ND	ND	ND	0.03	0.01	2329817
Benzo(a)anthracene	ug/L	ND	ND	ND	0.01	0.01	2329817
Benzo(a)pyrene	ug/L	ND	ND	ND	0.02	0.01	2329817
Benzo(b)fluoranthene	ug/L	ND	ND	ND	ND	0.01	2329817
Benzo(g,h,i)perylene	ug/L	ND	ND	ND	0.01	0.01	2329817
Benzo(k)fluoranthene	ug/L	ND	ND	ND	ND	0.01	2329817
Chrysene	ug/L	ND	ND	ND	0.01	0.01	2329817
Dibenz(a,h)anthracene	ug/L	ND	ND	ND	ND	0.01	2329817
Fluoranthene	ug/L	ND	ND	ND	0.04	0.01	2329817
Fluorene	ug/L	ND	ND	ND	0.04	0.01	2329817
Indeno(1,2,3-cd)pyrene	ug/L	ND	ND	ND	ND	0.01	2329817
Naphthalene	ug/L	ND	ND	ND	2.5	0.2	2329817
Perylene	ug/L	ND	ND	ND	ND	0.01	2329817
Phenanthrene	ug/L	ND	ND	ND	0.05	0.01	2329817
Pyrene	ug/L	ND	ND	ND	0.03	0.01	2329817
Surrogate Recovery (%)							
D10-Anthracene	%	86	87	72	84		2329817
D14-Terphenyl	%	100	90	75	94		2329817
D8-Acenaphthylene	%	102	91	73	105		2329817

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G1007
 Report Date: 2010/11/19

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Maxxam ID		HU5539	HU5540		HU5541		HU5542		
Sampling Date		2010/11/09 08:45	2010/11/09 10:35		2010/11/09 11:40		2010/11/09 07:40		
COC Number		B125819	B125819		B125819		B125819		
	Units	SCU12-003-MW	SCU13-006-MWB	RDL	SCU15-018-MW	RDL	SCU13-006-MWA	RDL	QC Batch

Polyaromatic Hydrocarbons									
1-Methylnaphthalene	ug/L	ND	ND	0.05	83 (1)	10	ND	0.05	2329817
2-Methylnaphthalene	ug/L	ND	ND	0.05	100 (1)	10	0.05	0.05	2329817
Acenaphthene	ug/L	0.01	ND	0.01	28	0.01	0.01	0.01	2329817
Acenaphthylene	ug/L	ND	ND	0.01	1.1	0.01	ND	0.01	2329817
Anthracene	ug/L	0.01	ND	0.01	3.9	0.01	0.02	0.01	2329817
Benzo(a)anthracene	ug/L	ND	ND	0.01	0.42	0.01	0.01	0.01	2329817
Benzo(a)pyrene	ug/L	ND	ND	0.01	0.22	0.01	0.01	0.01	2329817
Benzo(b)fluoranthene	ug/L	ND	ND	0.01	0.13	0.01	ND	0.01	2329817
Benzo(g,h,i)perylene	ug/L	ND	ND	0.01	0.05	0.01	ND	0.01	2329817
Benzo(k)fluoranthene	ug/L	ND	ND	0.01	0.13	0.01	0.01	0.01	2329817
Chrysene	ug/L	ND	ND	0.01	0.36	0.01	0.01	0.01	2329817
Dibenz(a,h)anthracene	ug/L	ND	ND	0.01	0.02	0.01	ND	0.01	2329817
Fluoranthene	ug/L	0.02	ND	0.01	2.6	0.01	0.03	0.01	2329817
Fluorene	ug/L	0.02	ND	0.01	14	0.01	0.02	0.01	2329817
Indeno(1,2,3-cd)pyrene	ug/L	ND	ND	0.01	0.05	0.01	ND	0.01	2329817
Naphthalene	ug/L	0.2	ND	0.2	2300 (1)	40	0.5	0.2	2329817
Perylene	ug/L	ND	ND	0.01	0.03	0.01	ND	0.01	2329817
Phenanthrene	ug/L	0.04	ND	0.01	18	0.01	0.03	0.01	2329817
Pyrene	ug/L	0.02	ND	0.01	1.6	0.01	0.02	0.01	2329817
Surrogate Recovery (%)									
D10-Anthracene	%	70	98		71		87		2329817
D14-Terphenyl	%	73	106		79		97		2329817
D8-Acenaphthylene	%	73	107		81		104		2329817

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 (1) PAH RDL(s) elevated due to sample dilution.

Maxxam Job #: B0G1007
 Report Date: 2010/11/19

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Maxxam ID		HU5543	HU5544		
Sampling Date		2010/11/09 14:45	2010/11/09 08:45		
COC Number		B125819	B125819		
	Units	SCU13-003-MW	FIELD DUPA	RDL	QC Batch

Polyaromatic Hydrocarbons					
1-Methylnaphthalene	ug/L	0.24	ND	0.05	2329817
2-Methylnaphthalene	ug/L	0.29	ND	0.05	2329817
Acenaphthene	ug/L	0.09	0.01	0.01	2329817
Acenaphthylene	ug/L	ND	ND	0.01	2329817
Anthracene	ug/L	0.03	ND	0.01	2329817
Benzo(a)anthracene	ug/L	ND	ND	0.01	2329817
Benzo(a)pyrene	ug/L	ND	ND	0.01	2329817
Benzo(b)fluoranthene	ug/L	ND	ND	0.01	2329817
Benzo(g,h,i)perylene	ug/L	ND	ND	0.01	2329817
Benzo(k)fluoranthene	ug/L	ND	ND	0.01	2329817
Chrysene	ug/L	ND	ND	0.01	2329817
Dibenz(a,h)anthracene	ug/L	ND	ND	0.01	2329817
Fluoranthene	ug/L	0.02	0.02	0.01	2329817
Fluorene	ug/L	0.06	0.02	0.01	2329817
Indeno(1,2,3-cd)pyrene	ug/L	ND	ND	0.01	2329817
Naphthalene	ug/L	3.6	ND	0.2	2329817
Perylene	ug/L	ND	ND	0.01	2329817
Phenanthrene	ug/L	0.06	0.04	0.01	2329817
Pyrene	ug/L	0.03	0.01	0.01	2329817
Surrogate Recovery (%)					
D10-Anthracene	%	76	70		2329817
D14-Terphenyl	%	103	76		2329817
D8-Acenaphthylene	%	105	75		2329817

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G1007
Report Date: 2010/11/19

SLR Consulting (Canada) Ltd
Client Project #: 210.05780.00000
Project name: 2010 GWMP/HCP
Your P.O. #: SYD147

GENERAL COMMENTS

Results relate only to the items tested.

SLR Consulting (Canada) Ltd
 Attention: Kelly Henderson
 Client Project #: 210.05780.00000
 P.O. #: SYD147
 Project name: 2010 GWMP/HCP

Quality Assurance Report
 Maxxam Job Number: KB0G1007

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2329571 JHO	Matrix Spike	Isobutylbenzene - Extractable	2010/11/16		98	%	30 - 130	
		n-Dotriacontane - Extractable	2010/11/16		98	%	30 - 130	
		>C10-C16 Hydrocarbons	2010/11/16		93	%	70 - 130	
		>C16-C21 Hydrocarbons	2010/11/16		91	%	70 - 130	
	Spiked Blank	>C21-<C32 Hydrocarbons	2010/11/16		63	%	50 - 120	
		Isobutylbenzene - Extractable	2010/11/16		98	%	30 - 130	
		n-Dotriacontane - Extractable	2010/11/16		101	%	30 - 130	
		>C10-C16 Hydrocarbons	2010/11/16		91	%	70 - 130	
	Method Blank	>C16-C21 Hydrocarbons	2010/11/16		90	%	70 - 130	
		>C21-<C32 Hydrocarbons	2010/11/16		64	%	50 - 120	
		Isobutylbenzene - Extractable	2010/11/16		103	%	30 - 130	
		n-Dotriacontane - Extractable	2010/11/16		109	%	30 - 130	
	RPD	>C10-C16 Hydrocarbons	2010/11/16		ND, RDL=0.2		mg/L	
		>C16-C21 Hydrocarbons	2010/11/16		ND, RDL=0.2		mg/L	
		>C21-<C32 Hydrocarbons	2010/11/16		ND, RDL=0.5		mg/L	
		>C10-C16 Hydrocarbons	2010/11/16		NC		%	40
			>C16-C21 Hydrocarbons	2010/11/16		NC	%	40
			>C21-<C32 Hydrocarbons	2010/11/16		NC	%	40
2329817 TML	Matrix Spike [HU5535-01]	D10-Anthracene	2010/11/16		76	%	30 - 130	
		D14-Terphenyl	2010/11/16		98	%	30 - 130	
		D8-Acenaphthylene	2010/11/16		98	%	30 - 130	
		1-Methylnaphthalene	2010/11/16		99	%	50 - 130	
		2-Methylnaphthalene	2010/11/16		92	%	50 - 130	
		Acenaphthene	2010/11/16		114	%	50 - 130	
		Acenaphthylene	2010/11/16		102	%	50 - 130	
		Anthracene	2010/11/16		122	%	50 - 130	
		Benzo(a)anthracene	2010/11/16		109	%	50 - 130	
		Benzo(a)pyrene	2010/11/16		121	%	50 - 130	
		Benzo(b)fluoranthene	2010/11/16		99	%	50 - 130	
		Benzo(g,h,i)perylene	2010/11/16		119	%	50 - 130	
		Benzo(k)fluoranthene	2010/11/16		124	%	50 - 130	
		Chrysene	2010/11/16		111	%	50 - 130	
		Dibenz(a,h)anthracene	2010/11/16		117	%	50 - 130	
		Fluoranthene	2010/11/16		117	%	50 - 130	
		Fluorene	2010/11/16		111	%	50 - 130	
		Indeno(1,2,3-cd)pyrene	2010/11/16		126	%	50 - 130	
		Naphthalene	2010/11/16		96	%	50 - 130	
		Perylene	2010/11/16		116	%	50 - 130	
		Phenanthrene	2010/11/16		98	%	50 - 130	
		Pyrene	2010/11/16		113	%	50 - 130	
		Spiked Blank	D10-Anthracene	2010/11/16		73	%	30 - 130
			D14-Terphenyl	2010/11/16		94	%	30 - 130
			D8-Acenaphthylene	2010/11/16		95	%	30 - 130
			1-Methylnaphthalene	2010/11/16		94	%	50 - 130
			2-Methylnaphthalene	2010/11/16		84	%	50 - 130
			Acenaphthene	2010/11/16		104	%	50 - 130
			Acenaphthylene	2010/11/16		95	%	50 - 130
			Anthracene	2010/11/16		128	%	50 - 130
			Benzo(a)anthracene	2010/11/16		105	%	50 - 130
			Benzo(a)pyrene	2010/11/16		104	%	50 - 130
			Benzo(b)fluoranthene	2010/11/16		82	%	50 - 130
			Benzo(g,h,i)perylene	2010/11/16		102	%	50 - 130
Benzo(k)fluoranthene	2010/11/16			115	%	50 - 130		
Chrysene	2010/11/16			107	%	50 - 130		

SLR Consulting (Canada) Ltd
 Attention: Kelly Henderson
 Client Project #: 210.05780.00000
 P.O. #: SYD147
 Project name: 2010 GWMP/HCP

Quality Assurance Report (Continued)

Maxxam Job Number: KB0G1007

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2329817 TML	Spiked Blank	Dibenz(a,h)anthracene	2010/11/16		99	%	50 - 130	
		Fluoranthene	2010/11/16		111	%	50 - 130	
		Fluorene	2010/11/16		102	%	50 - 130	
		Indeno(1,2,3-cd)pyrene	2010/11/16		112	%	50 - 130	
		Naphthalene	2010/11/16		93	%	50 - 130	
		Perylene	2010/11/16		99	%	50 - 130	
		Phenanthrene	2010/11/16		111	%	50 - 130	
		Pyrene	2010/11/16		107	%	50 - 130	
		Method Blank	D10-Anthracene	2010/11/16		97	%	30 - 130
			D14-Terphenyl	2010/11/16		110	%	30 - 130
	D8-Acenaphthylene		2010/11/16		109	%	30 - 130	
	1-Methylnaphthalene		2010/11/16	ND, RDL=0.05		ug/L		
	2-Methylnaphthalene		2010/11/16	ND, RDL=0.05		ug/L		
	Acenaphthene		2010/11/16	ND, RDL=0.01		ug/L		
	Acenaphthylene		2010/11/16	ND, RDL=0.01		ug/L		
	Anthracene		2010/11/16	ND, RDL=0.01		ug/L		
	Benzo(a)anthracene		2010/11/16	ND, RDL=0.01		ug/L		
	Benzo(a)pyrene		2010/11/16	ND, RDL=0.01		ug/L		
	RPD	Benzo(b)fluoranthene	2010/11/16	ND, RDL=0.01		ug/L		
		Benzo(g,h,i)perylene	2010/11/16	ND, RDL=0.01		ug/L		
		Benzo(k)fluoranthene	2010/11/16	ND, RDL=0.01		ug/L		
		Chrysene	2010/11/16	ND, RDL=0.01		ug/L		
		Dibenz(a,h)anthracene	2010/11/16	ND, RDL=0.01		ug/L		
		Fluoranthene	2010/11/16	ND, RDL=0.01		ug/L		
		Fluorene	2010/11/16	ND, RDL=0.01		ug/L		
		Indeno(1,2,3-cd)pyrene	2010/11/16	ND, RDL=0.01		ug/L		
		Naphthalene	2010/11/16	ND, RDL=0.2		ug/L		
		Perylene	2010/11/16	ND, RDL=0.01		ug/L		
		Phenanthrene	2010/11/16	ND, RDL=0.01		ug/L		
		Pyrene	2010/11/16	ND, RDL=0.01		ug/L		
		1-Methylnaphthalene	2010/11/16	NC		%	40	
		2-Methylnaphthalene	2010/11/16	NC		%	40	
		Acenaphthene	2010/11/16	1.3		%	40	
		Acenaphthylene	2010/11/16	NC		%	40	
		Anthracene	2010/11/16	NC		%	40	
		Benzo(a)anthracene	2010/11/16	NC		%	40	
		Benzo(a)pyrene	2010/11/16	NC		%	40	
		Benzo(b)fluoranthene	2010/11/16	NC		%	40	
	Benzo(g,h,i)perylene	2010/11/16	NC		%	40		
	Benzo(k)fluoranthene	2010/11/16	NC		%	40		
Chrysene	2010/11/16	NC		%	40			
2330722 THL	Matrix Spike [HU5543-01]	Dibenz(a,h)anthracene	2010/11/16	NC		%	40	
		Fluoranthene	2010/11/16	3.2		%	40	
		Fluorene	2010/11/16	NC		%	40	
		Indeno(1,2,3-cd)pyrene	2010/11/16	NC		%	40	
		Naphthalene	2010/11/16	NC		%	40	
		Perylene	2010/11/16	NC		%	40	
		Phenanthrene	2010/11/16	NC		%	40	
		Pyrene	2010/11/16	5.3		%	40	
		Isobutylbenzene - Volatile	2010/11/17		106	%	70 - 130	
		Benzene	2010/11/17		109	%	70 - 130	
Toluene	2010/11/17		109	%	70 - 130			
Ethylbenzene	2010/11/17		109	%	70 - 130			
Xylene (Total)	2010/11/17		110	%	70 - 130			

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2330722 THL	Spiked Blank	Isobutylbenzene - Volatile	2010/11/17		103	%	70 - 130
		Benzene	2010/11/17		96	%	70 - 130
		Toluene	2010/11/17		99	%	70 - 130
		Ethylbenzene	2010/11/17		98	%	70 - 130
	Method Blank	Xylene (Total)	2010/11/17		101	%	70 - 130
		Isobutylbenzene - Volatile	2010/11/17		99	%	70 - 130
		Benzene	2010/11/17	ND, RDL=0.001		mg/L	
		Toluene	2010/11/17	ND, RDL=0.001		mg/L	
	RPD [HU5544-01]	Ethylbenzene	2010/11/17	ND, RDL=0.001		mg/L	
		Xylene (Total)	2010/11/17	ND, RDL=0.002		mg/L	
		C6 - C10 (less BTEX)	2010/11/17	ND, RDL=0.01		mg/L	
		Benzene	2010/11/17	NC		%	40
		Toluene	2010/11/17	NC		%	40
		Ethylbenzene	2010/11/17	NC		%	40
		Xylene (Total)	2010/11/17	NC		%	40
		C6 - C10 (less BTEX)	2010/11/17	NC		%	40
2331108 MBU	Matrix Spike	Dissolved Aluminum (Al)	2010/11/16		100	%	75 - 125
		Dissolved Antimony (Sb)	2010/11/16		112	%	75 - 125
		Dissolved Arsenic (As)	2010/11/16		92	%	75 - 125
		Dissolved Barium (Ba)	2010/11/16		103	%	75 - 125
		Dissolved Beryllium (Be)	2010/11/16		100	%	75 - 125
		Dissolved Bismuth (Bi)	2010/11/16		104	%	75 - 125
		Dissolved Boron (B)	2010/11/16		97	%	75 - 125
		Dissolved Cadmium (Cd)	2010/11/16		109	%	75 - 125
		Dissolved Calcium (Ca)	2010/11/16		116	%	75 - 125
		Dissolved Chromium (Cr)	2010/11/16		108	%	75 - 125
		Dissolved Cobalt (Co)	2010/11/16		107	%	75 - 125
		Dissolved Copper (Cu)	2010/11/16		102	%	75 - 125
		Dissolved Iron (Fe)	2010/11/16		92	%	75 - 125
		Dissolved Lead (Pb)	2010/11/16		105	%	75 - 125
		Dissolved Lithium (Li)	2010/11/16		99	%	75 - 125
		Dissolved Magnesium (Mg)	2010/11/16		106	%	75 - 125
		Dissolved Manganese (Mn)	2010/11/16		102	%	75 - 125
		Dissolved Molybdenum (Mo)	2010/11/16		111	%	75 - 125
		Dissolved Nickel (Ni)	2010/11/16		101	%	75 - 125
		Dissolved Phosphorus (P)	2010/11/16		110	%	75 - 125
		Dissolved Potassium (K)	2010/11/16		100	%	75 - 125
		Dissolved Selenium (Se)	2010/11/16		106	%	75 - 125
		Dissolved Silver (Ag)	2010/11/16		91	%	75 - 125
		Dissolved Sodium (Na)	2010/11/16		109	%	75 - 125
		Dissolved Strontium (Sr)	2010/11/16		109	%	75 - 125
		Dissolved Thallium (Tl)	2010/11/16		107	%	75 - 125
		Dissolved Tin (Sn)	2010/11/16		106	%	75 - 125
		Dissolved Titanium (Ti)	2010/11/16		96	%	75 - 125
		Dissolved Uranium (U)	2010/11/16		109	%	75 - 125
		Dissolved Vanadium (V)	2010/11/16		108	%	75 - 125
	Dissolved Zinc (Zn)	2010/11/16		100	%	75 - 125	
	QC Standard	Dissolved Aluminum (Al)	2010/11/16		108	%	75 - 125
		Dissolved Antimony (Sb)	2010/11/16		112	%	75 - 125
		Dissolved Arsenic (As)	2010/11/16		85	%	75 - 125
Dissolved Barium (Ba)		2010/11/16		91	%	75 - 125	
Dissolved Beryllium (Be)		2010/11/16		90	%	75 - 125	
Dissolved Bismuth (Bi)		2010/11/16		115	%	75 - 125	
		Dissolved Boron (B)	2010/11/16		92	%	75 - 125
		Dissolved Cadmium (Cd)	2010/11/16		95	%	75 - 125

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits		
2331108 MBU	QC Standard	Dissolved Calcium (Ca)	2010/11/16		87	%	75 - 125		
		Dissolved Chromium (Cr)	2010/11/16		103	%	75 - 125		
		Dissolved Cobalt (Co)	2010/11/16		100	%	75 - 125		
		Dissolved Copper (Cu)	2010/11/16		95	%	75 - 125		
		Dissolved Iron (Fe)	2010/11/16		76	%	75 - 125		
		Dissolved Lead (Pb)	2010/11/16		99	%	75 - 125		
		Dissolved Lithium (Li)	2010/11/16		94	%	75 - 125		
		Dissolved Magnesium (Mg)	2010/11/16		90	%	75 - 125		
		Dissolved Manganese (Mn)	2010/11/16		101	%	75 - 125		
		Dissolved Molybdenum (Mo)	2010/11/16		99	%	75 - 125		
		Dissolved Nickel (Ni)	2010/11/16		94	%	75 - 125		
		Dissolved Potassium (K)	2010/11/16		89	%	75 - 125		
		Dissolved Selenium (Se)	2010/11/16		83	%	75 - 125		
		Dissolved Silver (Ag)	2010/11/16		98	%	75 - 125		
		Dissolved Sodium (Na)	2010/11/16		92	%	75 - 125		
		Dissolved Strontium (Sr)	2010/11/16		92	%	75 - 125		
		Dissolved Thallium (Tl)	2010/11/16		101	%	75 - 125		
		Dissolved Vanadium (V)	2010/11/16		100	%	75 - 125		
		Dissolved Zinc (Zn)	2010/11/16		93	%	75 - 125		
		Spiked Blank		Dissolved Aluminum (Al)	2010/11/16		96	%	75 - 125
				Dissolved Antimony (Sb)	2010/11/16		101	%	75 - 125
				Dissolved Arsenic (As)	2010/11/16		87	%	75 - 125
				Dissolved Barium (Ba)	2010/11/16		97	%	75 - 125
				Dissolved Beryllium (Be)	2010/11/16		97	%	75 - 125
				Dissolved Bismuth (Bi)	2010/11/16		100	%	75 - 125
				Dissolved Boron (B)	2010/11/16		100	%	75 - 125
				Dissolved Cadmium (Cd)	2010/11/16		104	%	75 - 125
				Dissolved Calcium (Ca)	2010/11/16		92	%	75 - 125
				Dissolved Chromium (Cr)	2010/11/16		103	%	75 - 125
				Dissolved Cobalt (Co)	2010/11/16		104	%	75 - 125
				Dissolved Copper (Cu)	2010/11/16		99	%	75 - 125
				Dissolved Iron (Fe)	2010/11/16		94	%	75 - 125
				Dissolved Lead (Pb)	2010/11/16		104	%	75 - 125
				Dissolved Lithium (Li)	2010/11/16		95	%	75 - 125
				Dissolved Magnesium (Mg)	2010/11/16		95	%	75 - 125
				Dissolved Manganese (Mn)	2010/11/16		100	%	75 - 125
				Dissolved Molybdenum (Mo)	2010/11/16		106	%	75 - 125
				Dissolved Nickel (Ni)	2010/11/16		99	%	75 - 125
				Dissolved Phosphorus (P)	2010/11/16		104	%	75 - 125
				Dissolved Potassium (K)	2010/11/16		90	%	75 - 125
Dissolved Selenium (Se)	2010/11/16				100	%	75 - 125		
Dissolved Silver (Ag)	2010/11/16				87	%	75 - 125		
Dissolved Sodium (Na)	2010/11/16				94	%	75 - 125		
Dissolved Strontium (Sr)	2010/11/16				101	%	75 - 125		
Dissolved Thallium (Tl)	2010/11/16				104	%	75 - 125		
Dissolved Tin (Sn)	2010/11/16				101	%	75 - 125		
Dissolved Titanium (Ti)	2010/11/16				91	%	75 - 125		
Dissolved Uranium (U)	2010/11/16				102	%	75 - 125		
Dissolved Vanadium (V)	2010/11/16				103	%	75 - 125		
Dissolved Zinc (Zn)	2010/11/16				97	%	75 - 125		
Method Blank				Dissolved Aluminum (Al)	2010/11/16	ND, RDL=5.0		ug/L	
				Dissolved Antimony (Sb)	2010/11/16	ND, RDL=0.40		ug/L	
				Dissolved Arsenic (As)	2010/11/16	ND, RDL=0.60		ug/L	
				Dissolved Barium (Ba)	2010/11/16	ND, RDL=0.40		ug/L	
				Dissolved Beryllium (Be)	2010/11/16	ND, RDL=0.50		ug/L	

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2331108	MBU	Method Blank					
		Dissolved Bismuth (Bi)	2010/11/16	ND, RDL=2.0		ug/L	
		Dissolved Boron (B)	2010/11/16	ND, RDL=100		ug/L	
		Dissolved Cadmium (Cd)	2010/11/16	ND, RDL=0.017		ug/L	
		Dissolved Calcium (Ca)	2010/11/16	ND, RDL=100		ug/L	
		Dissolved Chromium (Cr)	2010/11/16	ND, RDL=1.0		ug/L	
		Dissolved Cobalt (Co)	2010/11/16	ND, RDL=1.0		ug/L	
		Dissolved Copper (Cu)	2010/11/16	ND, RDL=2.0		ug/L	
		Dissolved Iron (Fe)	2010/11/16	ND, RDL=100		ug/L	
		Dissolved Lead (Pb)	2010/11/16	ND, RDL=1.0		ug/L	
		Dissolved Lithium (Li)	2010/11/16	ND, RDL=1.0		ug/L	
		Dissolved Magnesium (Mg)	2010/11/16	ND, RDL=60		ug/L	
		Dissolved Manganese (Mn)	2010/11/16	ND, RDL=4.0		ug/L	
		Dissolved Molybdenum (Mo)	2010/11/16	ND, RDL=4.0		ug/L	
		Dissolved Nickel (Ni)	2010/11/16	ND, RDL=3.0		ug/L	
		Dissolved Phosphorus (P)	2010/11/16	ND, RDL=100		ug/L	
		Dissolved Potassium (K)	2010/11/16	ND, RDL=600		ug/L	
		Dissolved Selenium (Se)	2010/11/16	ND, RDL=1.0		ug/L	
		Dissolved Silver (Ag)	2010/11/16	ND, RDL=0.10		ug/L	
		Dissolved Sodium (Na)	2010/11/16	ND, RDL=300		ug/L	
		Dissolved Strontium (Sr)	2010/11/16	ND, RDL=2.0		ug/L	
		Dissolved Thallium (Tl)	2010/11/16	ND, RDL=0.80		ug/L	
		Dissolved Tin (Sn)	2010/11/16	ND, RDL=20		ug/L	
		Dissolved Titanium (Ti)	2010/11/16	ND, RDL=3.0		ug/L	
		Dissolved Uranium (U)	2010/11/16	ND, RDL=0.15		ug/L	
		Dissolved Vanadium (V)	2010/11/16	ND, RDL=2.0		ug/L	
		Dissolved Zinc (Zn)	2010/11/16	ND, RDL=5.0		ug/L	
	RPD	Dissolved Aluminum (Al)	2010/11/16	1.1		%	25
		Dissolved Antimony (Sb)	2010/11/16	NC		%	25
		Dissolved Arsenic (As)	2010/11/16	NC		%	25
		Dissolved Barium (Ba)	2010/11/16	2.2		%	25
		Dissolved Beryllium (Be)	2010/11/16	NC		%	25
		Dissolved Bismuth (Bi)	2010/11/16	NC		%	25
		Dissolved Boron (B)	2010/11/16	NC		%	25
		Dissolved Cadmium (Cd)	2010/11/16	NC		%	25
		Dissolved Calcium (Ca)	2010/11/16	0.4		%	25
		Dissolved Chromium (Cr)	2010/11/16	NC		%	25
		Dissolved Cobalt (Co)	2010/11/16	0.3		%	25
		Dissolved Copper (Cu)	2010/11/16	NC		%	25
		Dissolved Iron (Fe)	2010/11/16	NC		%	25
		Dissolved Lead (Pb)	2010/11/16	NC		%	25
		Dissolved Lithium (Li)	2010/11/16	NC		%	25
		Dissolved Magnesium (Mg)	2010/11/16	1.5		%	25
		Dissolved Manganese (Mn)	2010/11/16	0.8		%	25
		Dissolved Molybdenum (Mo)	2010/11/16	NC		%	25
		Dissolved Nickel (Ni)	2010/11/16	NC		%	25
		Dissolved Phosphorus (P)	2010/11/16	NC		%	25
		Dissolved Potassium (K)	2010/11/16	2.4		%	25
		Dissolved Selenium (Se)	2010/11/16	NC		%	25
		Dissolved Silver (Ag)	2010/11/16	NC		%	25
		Dissolved Sodium (Na)	2010/11/16	0.6		%	25
		Dissolved Strontium (Sr)	2010/11/16	1		%	25
		Dissolved Thallium (Tl)	2010/11/16	NC		%	25
		Dissolved Tin (Sn)	2010/11/16	NC		%	25
		Dissolved Titanium (Ti)	2010/11/16	NC		%	25
		Dissolved Uranium (U)	2010/11/16	NC		%	25

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2331108 MBU	RPD	Dissolved Vanadium (V)	2010/11/16	NC		%	25
		Dissolved Zinc (Zn)	2010/11/16	NC		%	25
2331982 BMI	Matrix Spike	Total Mercury (Hg)	2010/11/16		99	%	80 - 120
	[HU5535-01]	Total Mercury (Hg)	2010/11/16		100	%	80 - 120
	QC Standard	Total Mercury (Hg)	2010/11/16		94	%	80 - 120
	Spiked Blank	Total Mercury (Hg)	2010/11/16		ND, RDL=0.013	ug/L	
	Method Blank	Total Mercury (Hg)	2010/11/16		NC	%	25
2332107 THL	Matrix Spike	Isobutylbenzene - Volatile	2010/11/18		106	%	70 - 130
		Benzene	2010/11/18		117	%	70 - 130
		Toluene	2010/11/18		122	%	70 - 130
		Ethylbenzene	2010/11/18		117	%	70 - 130
		Xylene (Total)	2010/11/18		120	%	70 - 130
	Spiked Blank	Isobutylbenzene - Volatile	2010/11/18		81	%	70 - 130
		Benzene	2010/11/18		100	%	70 - 130
		Toluene	2010/11/18		93	%	70 - 130
		Ethylbenzene	2010/11/18		82	%	70 - 130
		Xylene (Total)	2010/11/18		83	%	70 - 130
	Method Blank	Isobutylbenzene - Volatile	2010/11/18		95	%	70 - 130
		Benzene	2010/11/18	ND, RDL=0.001		mg/L	
		Toluene	2010/11/18	ND, RDL=0.001		mg/L	
		Ethylbenzene	2010/11/18	ND, RDL=0.001		mg/L	
		Xylene (Total)	2010/11/18	ND, RDL=0.002		mg/L	
		C6 - C10 (less BTEX)	2010/11/18	ND, RDL=0.01		mg/L	
	RPD	Benzene	2010/11/18	NC		%	40
		Toluene	2010/11/18	NC		%	40
		Ethylbenzene	2010/11/18	NC		%	40
		Xylene (Total)	2010/11/18	NC		%	40
		C6 - C10 (less BTEX)	2010/11/18	NC		%	40
2332113 SHL	Matrix Spike	Isobutylbenzene - Volatile	2010/11/18		80	%	70 - 130
		Benzene	2010/11/18		104	%	70 - 130
		Toluene	2010/11/18		109	%	70 - 130
		Ethylbenzene	2010/11/18		104	%	70 - 130
		Xylene (Total)	2010/11/18		107	%	70 - 130
	Spiked Blank	Isobutylbenzene - Volatile	2010/11/18		93	%	70 - 130
		Benzene	2010/11/18		104	%	70 - 130
		Toluene	2010/11/18		106	%	70 - 130
		Ethylbenzene	2010/11/18		108	%	70 - 130
		Xylene (Total)	2010/11/18		110	%	70 - 130
	Method Blank	Isobutylbenzene - Volatile	2010/11/18		79	%	70 - 130
		Benzene	2010/11/18	ND, RDL=0.001		mg/L	
		Toluene	2010/11/18	ND, RDL=0.001		mg/L	
		Ethylbenzene	2010/11/18	ND, RDL=0.001		mg/L	
		Xylene (Total)	2010/11/18	ND, RDL=0.002		mg/L	
		C6 - C10 (less BTEX)	2010/11/18	ND, RDL=0.01		mg/L	
	RPD	Benzene	2010/11/18	NC		%	40
		Toluene	2010/11/18	NC		%	40
		Ethylbenzene	2010/11/18	NC		%	40
		Xylene (Total)	2010/11/18	NC		%	40
		C6 - C10 (less BTEX)	2010/11/18	NC		%	40
2333450 THL	Matrix Spike	Isobutylbenzene - Volatile	2010/11/19		107	%	70 - 130
	[HU5535-01]	Benzene	2010/11/19		113	%	70 - 130
		Toluene	2010/11/19		113	%	70 - 130
		Ethylbenzene	2010/11/19		113	%	70 - 130

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2333450 THL	Matrix Spike [HU5535-01] Spiked Blank	Xylene (Total)	2010/11/19		116	%	70 - 130	
		Isobutylbenzene - Volatile	2010/11/19		106	%	70 - 130	
		Benzene	2010/11/19		109	%	70 - 130	
		Toluene	2010/11/19		111	%	70 - 130	
		Ethylbenzene	2010/11/19		109	%	70 - 130	
	Method Blank	Xylene (Total)	2010/11/19		113	%	70 - 130	
		Isobutylbenzene - Volatile	2010/11/19		99	%	70 - 130	
		Benzene	2010/11/19	ND, RDL=0.001		mg/L		
		Toluene	2010/11/19	ND, RDL=0.001		mg/L		
		Ethylbenzene	2010/11/19	ND, RDL=0.001		mg/L		
		Xylene (Total)	2010/11/19	ND, RDL=0.002		mg/L		
		C6 - C10 (less BTEX)	2010/11/19	ND, RDL=0.01		mg/L		
	RPD	Benzene	2010/11/19	NC		%	40	
		Toluene	2010/11/19	NC		%	40	
		Ethylbenzene	2010/11/19	NC		%	40	
		Xylene (Total)	2010/11/19	NC		%	40	
		C6 - C10 (less BTEX)	2010/11/19	NC		%	40	
	2333805 MSK	Matrix Spike	1,2-Dichlorobenzene	2010/11/19		111	%	70 - 130
			1,3-Dichlorobenzene	2010/11/19		111	%	70 - 130
			1,4-Dichlorobenzene	2010/11/19		105	%	70 - 130
Chlorobenzene			2010/11/19		116	%	70 - 130	
1,1,1-Trichloroethane			2010/11/19		121	%	70 - 130	
1,1,2,2-Tetrachloroethane			2010/11/19		105	%	70 - 130	
1,1,2-Trichloroethane			2010/11/19		111	%	70 - 130	
1,1-Dichloroethane			2010/11/19		111	%	70 - 130	
1,1-Dichloroethylene			2010/11/19		126	%	70 - 130	
1,2-Dichloroethane			2010/11/19		111	%	70 - 130	
1,2-Dichloropropane			2010/11/19		111	%	70 - 130	
4-Bromofluorobenzene			2010/11/19		101	%	70 - 130	
Benzene			2010/11/19		116	%	70 - 130	
Bromodichloromethane			2010/11/19		100	%	70 - 130	
Bromoform			2010/11/19		79	%	70 - 130	
Bromomethane			2010/11/19		132 (1)	%	70 - 130	
Carbon Tetrachloride			2010/11/19		116	%	70 - 130	
Chloroethane			2010/11/19		121	%	70 - 130	
Chloroform			2010/11/19		111	%	70 - 130	
Chloromethane			2010/11/19		116	%	70 - 130	
cis-1,2-Dichloroethylene			2010/11/19		110	%	70 - 130	
cis-1,3-Dichloropropene			2010/11/19		95	%	70 - 130	
D4-1,2-Dichloroethane			2010/11/19		100	%	70 - 130	
D8-Toluene			2010/11/19		102	%	70 - 130	
Dibromochloromethane			2010/11/19		95	%	70 - 130	
Ethylbenzene			2010/11/19		116	%	70 - 130	
Ethylene Dibromide			2010/11/19		105	%	70 - 130	
Methylene Chloride(Dichloromethane)			2010/11/19		111	%	70 - 130	
o-Xylene			2010/11/19		115	%	70 - 130	
p+m-Xylene			2010/11/19		120	%	70 - 130	
Styrene			2010/11/19		110	%	70 - 130	
Tetrachloroethylene			2010/11/19		116	%	70 - 130	
Toluene	2010/11/19		116	%	70 - 130			
trans-1,2-Dichloroethylene	2010/11/19		116	%	70 - 130			
trans-1,3-Dichloropropene	2010/11/19		79	%	70 - 130			
Trichloroethylene	2010/11/19		121	%	70 - 130			
Trichlorofluoromethane (FREON 11)	2010/11/19		116	%	70 - 130			

SLR Consulting (Canada) Ltd
 Attention: Kelly Henderson
 Client Project #: 210.05780.00000
 P.O. #: SYD147
 Project name: 2010 GWMP/HCP

Quality Assurance Report (Continued)

Maxxam Job Number: KB0G1007

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2333805 MSK	Matrix Spike	Vinyl Chloride	2010/11/19		116	%	70 - 130
		Spiked Blank	1,2-Dichlorobenzene	2010/11/19	98	%	70 - 130
	Method Blank	1,3-Dichlorobenzene	2010/11/19	100	%	70 - 130	
		1,4-Dichlorobenzene	2010/11/19	97	%	70 - 130	
		Chlorobenzene	2010/11/19	105	%	70 - 130	
		1,1,1-Trichloroethane	2010/11/19	111	%	70 - 130	
		1,1,2,2-Tetrachloroethane	2010/11/19	90	%	70 - 130	
		1,1,2-Trichloroethane	2010/11/19	100	%	70 - 130	
		1,1-Dichloroethane	2010/11/19	105	%	70 - 130	
		1,1-Dichloroethylene	2010/11/19	120	%	70 - 130	
		1,2-Dichloroethane	2010/11/19	102	%	70 - 130	
		1,2-Dichloropropane	2010/11/19	103	%	70 - 130	
		4-Bromofluorobenzene	2010/11/19	100	%	70 - 130	
		Benzene	2010/11/19	104	%	70 - 130	
		Bromodichloromethane	2010/11/19	93	%	70 - 130	
		Bromoform	2010/11/19	72	%	70 - 130	
		Bromomethane	2010/11/19	112	%	70 - 130	
		Carbon Tetrachloride	2010/11/19	106	%	70 - 130	
		Chloroethane	2010/11/19	112	%	70 - 130	
		Chloroform	2010/11/19	104	%	70 - 130	
		Chloromethane	2010/11/19	109	%	70 - 130	
		cis-1,2-Dichloroethylene	2010/11/19	106	%	70 - 130	
		cis-1,3-Dichloropropene	2010/11/19	88	%	70 - 130	
		D4-1,2-Dichloroethane	2010/11/19	103	%	70 - 130	
		D8-Toluene	2010/11/19	101	%	70 - 130	
		Dibromochloromethane	2010/11/19	86	%	70 - 130	
		Ethylbenzene	2010/11/19	108	%	70 - 130	
		Ethylene Dibromide	2010/11/19	99	%	70 - 130	
		Methylene Chloride(Dichloromethane)	2010/11/19	103	%	70 - 130	
		o-Xylene	2010/11/19	107	%	70 - 130	
		p+m-Xylene	2010/11/19	108	%	70 - 130	
		Styrene	2010/11/19	104	%	70 - 130	
		Tetrachloroethylene	2010/11/19	105	%	70 - 130	
		Toluene	2010/11/19	105	%	70 - 130	
		trans-1,2-Dichloroethylene	2010/11/19	109	%	70 - 130	
		trans-1,3-Dichloropropene	2010/11/19	73	%	70 - 130	
		Trichloroethylene	2010/11/19	111	%	70 - 130	
		Trichlorofluoromethane (FREON 11)	2010/11/19	109	%	70 - 130	
		Vinyl Chloride	2010/11/19	112	%	70 - 130	
				1,2-Dichlorobenzene	2010/11/18	ND, RDL=0.5	
		1,3-Dichlorobenzene	2010/11/18	ND, RDL=1		ug/L	
		1,4-Dichlorobenzene	2010/11/18	ND, RDL=1		ug/L	
		Chlorobenzene	2010/11/18	ND, RDL=1		ug/L	
		1,1,1-Trichloroethane	2010/11/18	ND, RDL=1		ug/L	
		1,1,2,2-Tetrachloroethane	2010/11/18	ND, RDL=1		ug/L	
		1,1,2-Trichloroethane	2010/11/18	ND, RDL=1		ug/L	
		1,1-Dichloroethane	2010/11/18	ND, RDL=2		ug/L	
		1,1-Dichloroethylene	2010/11/18	ND, RDL=0.5		ug/L	
		1,2-Dichloroethane	2010/11/18	ND, RDL=1		ug/L	
		1,2-Dichloropropane	2010/11/18	ND, RDL=1		ug/L	
		4-Bromofluorobenzene	2010/11/18		95	%	70 - 130
		Benzene	2010/11/18	ND, RDL=1		ug/L	
		Bromodichloromethane	2010/11/18	ND, RDL=1		ug/L	
		Bromoform	2010/11/18	ND, RDL=1		ug/L	
		Bromomethane	2010/11/18	ND, RDL=3		ug/L	

SLR Consulting (Canada) Ltd
 Attention: Kelly Henderson
 Client Project #: 210.05780.00000
 P.O. #: SYD147
 Project name: 2010 GWMP/HCP

Quality Assurance Report (Continued)

Maxxam Job Number: KB0G1007

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2333805 MSK	Method Blank	Carbon Tetrachloride	2010/11/18	ND, RDL=1		ug/L	
		Chloroethane	2010/11/18	ND, RDL=8		ug/L	
		Chloroform	2010/11/18	ND, RDL=1		ug/L	
		Chloromethane	2010/11/18	ND, RDL=8		ug/L	
		cis-1,2-Dichloroethylene	2010/11/18	ND, RDL=2		ug/L	
		cis-1,3-Dichloropropene	2010/11/18	ND, RDL=2		ug/L	
		D4-1,2-Dichloroethane	2010/11/18		103	%	70 - 130
		D8-Toluene	2010/11/18		99	%	70 - 130
		Dibromochloromethane	2010/11/18	ND, RDL=1		ug/L	
		Ethylbenzene	2010/11/18	ND, RDL=1		ug/L	
		Ethylene Dibromide	2010/11/18	ND, RDL=1		ug/L	
		Methylene Chloride(Dichloromethane)	2010/11/18	ND, RDL=3		ug/L	
		o-Xylene	2010/11/18	ND, RDL=1		ug/L	
		p+m-Xylene	2010/11/18	ND, RDL=2		ug/L	
		Styrene	2010/11/18	ND, RDL=1		ug/L	
		Tetrachloroethylene	2010/11/18	ND, RDL=1		ug/L	
		Toluene	2010/11/18	ND, RDL=1		ug/L	
		trans-1,2-Dichloroethylene	2010/11/18	ND, RDL=2		ug/L	
		trans-1,3-Dichloropropene	2010/11/18	ND, RDL=1		ug/L	
		Trichloroethylene	2010/11/18	ND, RDL=1		ug/L	
		Trichlorofluoromethane (FREON 11)	2010/11/18	ND, RDL=8		ug/L	
		Vinyl Chloride	2010/11/18	ND, RDL=0.5		ug/L	
	RPD	1,2-Dichlorobenzene	2010/11/19	NC		%	40
		1,3-Dichlorobenzene	2010/11/19	NC		%	40
		1,4-Dichlorobenzene	2010/11/19	NC		%	40
		Chlorobenzene	2010/11/19	NC		%	40
		1,1,1-Trichloroethane	2010/11/19	NC		%	40
		1,1,2,2-Tetrachloroethane	2010/11/19	NC		%	40
		1,1,2-Trichloroethane	2010/11/19	NC		%	40
		1,1-Dichloroethane	2010/11/19	NC		%	40
		1,1-Dichloroethylene	2010/11/19	NC		%	40
		1,2-Dichloroethane	2010/11/19	NC		%	40
		1,2-Dichloropropane	2010/11/19	NC		%	40
		Benzene	2010/11/19	NC		%	40
		Bromodichloromethane	2010/11/19	NC		%	40
		Bromoform	2010/11/19	NC		%	40
		Bromomethane	2010/11/19	NC		%	40
		Carbon Tetrachloride	2010/11/19	NC		%	40
		Chloroethane	2010/11/19	NC		%	40
		Chloroform	2010/11/19	NC		%	40
		Chloromethane	2010/11/19	NC		%	40
		cis-1,2-Dichloroethylene	2010/11/19	NC		%	40
		cis-1,3-Dichloropropene	2010/11/19	NC		%	40
		Dibromochloromethane	2010/11/19	NC		%	40
		Ethylbenzene	2010/11/19	NC		%	40
		Ethylene Dibromide	2010/11/19	NC		%	40
		Methylene Chloride(Dichloromethane)	2010/11/19	NC		%	40
		o-Xylene	2010/11/19	NC		%	40
		p+m-Xylene	2010/11/19	NC		%	40
		Styrene	2010/11/19	NC		%	40
		Tetrachloroethylene	2010/11/19	NC		%	40
		Toluene	2010/11/19	NC		%	40
		trans-1,2-Dichloroethylene	2010/11/19	NC		%	40
		trans-1,3-Dichloropropene	2010/11/19	NC		%	40
		Trichloroethylene	2010/11/19	NC		%	40

SLR Consulting (Canada) Ltd
 Attention: Kelly Henderson
 Client Project #: 210.05780.00000
 P.O. #: SYD147
 Project name: 2010 GWMP/HCP

Quality Assurance Report (Continued)
 Maxxam Job Number: KB0G1007

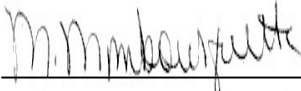
QA/QC Batch				Date Analyzed				
Num Init	QC Type	Parameter		yyyy/mm/dd	Value	Recovery	Units	QC Limits
2333805	MSK	RPD	Trichlorofluoromethane (FREON 11)	2010/11/19	NC		%	40
			Vinyl Chloride	2010/11/19	NC		%	40

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
 Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
 QC Standard: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.
 (1) Matrix Spike: < 10 % of compounds in multi-component analysis in violation.

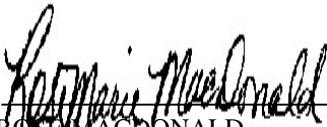
Validation Signature Page

Maxxam Job #: B0G1007

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



MICHELLE MOMBOURQUETTE, Laboratory Manager



ROSE MACDONALD,

=====

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Your P.O. #: SYD147
 Your Project #: 210.05780.00000
 Site: 2010 GWP/HCP
 Your C.O.C. #: B125830

Attention: Kelly Henderson

SLR Consulting (Canada) Ltd
 45 Wabina Crt., Suite 107B
 PO Box 791, Station A
 Sydney, NS
 B1P 6K5

Report Date: 2010/11/24

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B0G4089

Received: 2010/11/16, 09:50

Sample Matrix: Water
 # Samples Received: 10

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
TEH in Water (PIRI)	10	2010/11/18	2010/11/23	ATL SOP-00151 R5	Based on ATL PIRI
Mercury - Total (CVAA,LL)	10	2010/11/18	2010/11/17	ATL SOP-00160 R5	Based on EPA245.1
Elements by ICPMS - low dissolved	6	N/A	2010/11/22	ATL SOP 00161 R6	Based on EPA6020A
Elements by ICPMS - low dissolved	4	N/A	2010/11/23	ATL SOP 00161 R6	Based on EPA6020A
PAH in Water by GC/MS (SIM)	6	2010/11/19	2010/11/22	ATL SOP 00147 R5	Based on EPA 8270C
PAH in Water by GC/MS (SIM)	4	2010/11/19	2010/11/23	ATL SOP 00147 R5	Based on EPA 8270C
VPH in Water (PIRI) 0	1	2010/11/17	2010/11/21	ATL SOP 00118 R4	Based on Atl. PIRI
VPH in Water (PIRI) 0	6	2010/11/19	2010/11/20	ATL SOP 00118 R4	Based on Atl. PIRI
VPH in Water (PIRI) 0	1	2010/11/19	2010/11/22	ATL SOP 00118 R4	Based on Atl. PIRI
VPH in Water (PIRI) 0	2	2010/11/19	2010/11/23	ATL SOP 00118 R4	Based on Atl. PIRI
ModTPH (T1) Calc. for Water	10	N/A	2010/11/24	ATL SOP-00151 R4	Based on Atl PIRI

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bedford

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

TRACY MACLEOD-FLOYD,
 Email: TMacLeod@maxxam.ca
 Phone# (902) 567 1255

=====

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Total cover pages: 1

Maxxam Job #: B0G4089
 Report Date: 2010/11/24

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWP/HCP
 Your P.O. #: SYD147

SYD/ BED TIER1 (WATER)

Maxxam ID		HW1576	HW1577	HW1578	HW1579		
Sampling Date		2010/11/15 16:20	2010/11/15 03:45	2010/11/15 01:00	2010/11/15 02:45		
COC Number		B125830	B125830	B125830	B125830		
	Units	SCU16-001-MW	SCU17-002-MW	SCU17-014-MW	SCU17-004-MW	RDL	QC Batch

Petroleum Hydrocarbons							
Benzene	mg/L	ND	0.002	0.002	0.001	0.001	2335185
Toluene	mg/L	ND	0.003	ND	0.002	0.001	2335185
Ethylbenzene	mg/L	ND	ND	ND	ND	0.001	2335185
Xylene (Total)	mg/L	ND	0.008	ND	0.002	0.002	2335185
C6 - C10 (less BTEX)	mg/L	ND	ND	ND	ND	0.01	2335185
>C10-C16 Hydrocarbons	mg/L	ND	0.3	0.3	ND	0.2	2333943
>C16-C21 Hydrocarbons	mg/L	ND	ND	ND	ND	0.2	2333943
>C21-<C32 Hydrocarbons	mg/L	ND	ND	ND	ND	0.5	2333943
Modified TPH (Tier1)	mg/L	ND	ND	ND	ND	0.5	2331276
Reached Baseline at C32	mg/L	Yes	Yes	Yes	Yes	N/A	2333943
Hydrocarbon Resemblance	mg/L	NA	SEE NOTE (1)	SEE NOTE (1)	NA	N/A	2333943
Surrogate Recovery (%)							
Isobutylbenzene - Extractable	%	77	74	79	81		2333943
n-Dotriacontane - Extractable	%	80	81	84	83		2333943
Isobutylbenzene - Volatile	%	111	114	104	107		2335185

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 (1) Fuel Oil Range

Maxxam Job #: B0G4089
 Report Date: 2010/11/24

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWP/HCP
 Your P.O. #: SYD147

SYD/ BED TIER1 (WATER)

Maxxam ID		HW1580	HW1581	HW1582	HW1583		
Sampling Date		2010/11/15 03:45	2010/11/15 08:45	2010/11/15 10:00	2010/11/15 10:00		
COC Number		B125830	B125830	B125830	B125830		
	Units	FD4	SCU17-010MWA	FD3	SCU17-010-MWC	RDL	QC Batch

Petroleum Hydrocarbons							
Benzene	mg/L	0.002	ND	ND	ND	0.001	2335185
Toluene	mg/L	0.004	ND	ND	ND	0.001	2335185
Ethylbenzene	mg/L	ND	ND	ND	ND	0.001	2335185
Xylene (Total)	mg/L	0.008	ND	ND	ND	0.002	2335185
C6 - C10 (less BTEX)	mg/L	ND	ND	ND	ND	0.01	2335185
>C10-C16 Hydrocarbons	mg/L	0.3	ND	ND	ND	0.2	2333943
>C16-C21 Hydrocarbons	mg/L	ND	ND	ND	ND	0.2	2333943
>C21-<C32 Hydrocarbons	mg/L	ND	ND	ND	ND	0.5	2333943
Modified TPH (Tier1)	mg/L	ND	ND	ND	ND	0.5	2331276
Reached Baseline at C32	mg/L	Yes	Yes	Yes	Yes	N/A	2333943
Hydrocarbon Resemblance	mg/L	SEE NOTE (1)	NA	NA	NA	N/A	2333943
Surrogate Recovery (%)							
Isobutylbenzene - Extractable	%	73	74	82	81		2333943
n-Dotriacontane - Extractable	%	73	75	80	85		2333943
Isobutylbenzene - Volatile	%	107	109	112	106		2335185

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 (1) Fuel Oil Range

Maxxam Job #: B0G4089
 Report Date: 2010/11/24

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWP/HCP
 Your P.O. #: SYD147

SYD/ BED TIER1 (WATER)

Maxxam ID		HW1584	HW1585		
Sampling Date		2010/11/15 11:15	2010/11/15 12:30		
COC Number		B125830	B125830		
	Units	SCU16-014-MW	SCU17-010-MWB	RDL	QC Batch

Petroleum Hydrocarbons					
Benzene	mg/L	ND	ND	0.001	2335187
Toluene	mg/L	ND	ND	0.001	2335187
Ethylbenzene	mg/L	ND	ND	0.001	2335187
Xylene (Total)	mg/L	ND	ND	0.003	2335187
C6 - C10 (less BTEX)	mg/L	ND	ND	0.01	2335187
>C10-C16 Hydrocarbons	mg/L	ND	ND	0.2	2333943
>C16-C21 Hydrocarbons	mg/L	ND	ND	0.2	2333943
>C21-<C32 Hydrocarbons	mg/L	ND	ND	0.5	2333943
Modified TPH (Tier1)	mg/L	ND	ND	0.5	2331276
Reached Baseline at C32	mg/L	Yes	Yes	N/A	2333943
Hydrocarbon Resemblance	mg/L	NA	NA	N/A	2333943
Surrogate Recovery (%)					
Isobutylbenzene - Extractable	%	71	98		2333943
n-Dotriacontane - Extractable	%	78	93		2333943
Isobutylbenzene - Volatile	%	101 (1)	75 (1)		2335187

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 (1) VPH analysis performed on previously opened vial.

Maxxam Job #: B0G4089
 Report Date: 2010/11/24

SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWP/HCP
 Your P.O. #: SYD147

MERCURY BY COLD VAPOUR AA (WATER)

Maxxam ID		HW1576	HW1577	HW1578	HW1579	HW1580		
Sampling Date		2010/11/15 16:20	2010/11/15 03:45	2010/11/15 01:00	2010/11/15 02:45	2010/11/15 03:45		
COC Number		B125830	B125830	B125830	B125830	B125830		
	Units	SCU16-001-MW	SCU17-002-MW	SCU17-014-MW	SCU17-004-MW	FD4	RDL	QC Batch

Metals								
Total Mercury (Hg)	ug/L	ND	ND	ND	ND	ND	0.013	2333698
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch								

Maxxam ID		HW1581	HW1582	HW1583	HW1584	HW1585		
Sampling Date		2010/11/15 08:45	2010/11/15 10:00	2010/11/15 10:00	2010/11/15 11:15	2010/11/15 12:30		
COC Number		B125830	B125830	B125830	B125830	B125830		
	Units	SCU17-010MWA	FD3	SCU17-010-MWC	SCU16-014-MW	SCU17-010-MWB	RDL	QC Batch

Metals								
Total Mercury (Hg)	ug/L	ND	ND	ND	ND	ND	0.013	2333698
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch								

Maxxam Job #: B0G4089
 Report Date: 2010/11/24

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWP/HCP
 Your P.O. #: SYD147

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		HW1576	HW1577		HW1578		HW1579		
Sampling Date		2010/11/15 16:20	2010/11/15 03:45		2010/11/15 01:00		2010/11/15 02:45		
COC Number		B125830	B125830		B125830		B125830		
	Units	SCU16-001-MW	SCU17-002-MW	RDL	SCU17-014-MW	RDL	SCU17-004-MW	RDL	QC Batch

Metals									
Dissolved Aluminum (Al)	ug/L	25	44	5.0	1000	5.0	24	5.0	2337115
Dissolved Antimony (Sb)	ug/L	ND	ND	0.40	ND	0.40	ND	0.40	2337115
Dissolved Arsenic (As)	ug/L	2.5	ND	0.60	8.5	0.60	3.4	0.60	2337115
Dissolved Barium (Ba)	ug/L	22	38	0.40	48	0.40	59	0.40	2337115
Dissolved Beryllium (Be)	ug/L	ND	ND	0.50	ND	0.50	ND	0.50	2337115
Dissolved Bismuth (Bi)	ug/L	ND	ND	2.0	ND	2.0	ND	2.0	2337115
Dissolved Boron (B)	ug/L	ND	ND	100	120	100	ND	100	2337115
Dissolved Cadmium (Cd)	ug/L	ND	0.026	0.017	ND	0.017	ND	0.017	2337115
Dissolved Calcium (Ca)	ug/L	92000	130000	100	35000	100	110000	100	2337115
Dissolved Chromium (Cr)	ug/L	ND	ND	1.0	ND	1.0	ND	1.0	2337115
Dissolved Cobalt (Co)	ug/L	ND	ND	1.0	ND	1.0	ND	1.0	2337115
Dissolved Copper (Cu)	ug/L	ND	ND	2.0	ND	2.0	ND	2.0	2337115
Dissolved Iron (Fe)	ug/L	ND	ND	100	ND	100	ND	100	2337115
Dissolved Lead (Pb)	ug/L	ND	ND	1.0	ND	1.0	ND	1.0	2337115
Dissolved Lithium (Li)	ug/L	1.9	69	1.0	11	1.0	17	1.0	2337115
Dissolved Magnesium (Mg)	ug/L	4700	510	60	ND	60	ND	60	2337115
Dissolved Manganese (Mn)	ug/L	ND	ND	4.0	ND	4.0	ND	4.0	2337115
Dissolved Molybdenum (Mo)	ug/L	16	12	4.0	19	4.0	5.5	4.0	2337115
Dissolved Nickel (Ni)	ug/L	ND	ND	3.0	ND	3.0	ND	3.0	2337115
Dissolved Phosphorus (P)	ug/L	ND	ND	100	ND	100	ND	100	2337115
Dissolved Potassium (K)	ug/L	8500	13000	600	20000	600	8300	600	2337115
Dissolved Selenium (Se)	ug/L	1.1	16	1.0	5.6	1.0	8.9	1.0	2337115
Dissolved Silver (Ag)	ug/L	ND	ND	0.10	ND	0.10	ND	0.10	2337115
Dissolved Sodium (Na)	ug/L	40000	48000	300	170000	3000	30000	300	2337115
Dissolved Strontium (Sr)	ug/L	280	620	2.0	260	2.0	460	2.0	2337115
Dissolved Thallium (Tl)	ug/L	ND	ND	0.80	ND	0.80	ND	0.80	2337115
Dissolved Tin (Sn)	ug/L	ND	ND	20	ND	20	ND	20	2337115
Dissolved Titanium (Ti)	ug/L	ND	ND	3.0	ND	3.0	ND	3.0	2337115
Dissolved Uranium (U)	ug/L	1.2	ND	0.15	ND	0.15	ND	0.15	2337115
Dissolved Vanadium (V)	ug/L	14	ND	2.0	14	2.0	15	2.0	2337115

 ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G4089
 Report Date: 2010/11/24

SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWP/HCP
 Your P.O. #: SYD147

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		HW1576	HW1577		HW1578		HW1579		
Sampling Date		2010/11/15 16:20	2010/11/15 03:45		2010/11/15 01:00		2010/11/15 02:45		
COC Number		B125830	B125830		B125830		B125830		
	Units	SCU16-001-MW	SCU17-002-MW	RDL	SCU17-014-MW	RDL	SCU17-004-MW	RDL	QC Batch

Dissolved Zinc (Zn)	ug/L	ND	ND	5.0	ND	5.0	ND	5.0	2337115
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ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G4089
 Report Date: 2010/11/24

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWP/HCP
 Your P.O. #: SYD147

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		HW1580	HW1581		HW1582	HW1583		
Sampling Date		2010/11/15 03:45	2010/11/15 08:45		2010/11/15 10:00	2010/11/15 10:00		
COC Number		B125830	B125830		B125830	B125830		
	Units	FD4	SCU17-010MWA	RDL	FD3	SCU17-010-MWC	RDL	QC Batch

Metals								
Dissolved Aluminum (Al)	ug/L	45	61	5.0	ND	5.5	5.0	2337115
Dissolved Antimony (Sb)	ug/L	ND	ND	0.40	ND	ND	0.40	2337115
Dissolved Arsenic (As)	ug/L	ND	1.4	0.60	9.2	9.3	0.60	2337115
Dissolved Barium (Ba)	ug/L	38	46	0.40	13	13	0.40	2337115
Dissolved Beryllium (Be)	ug/L	ND	ND	0.50	ND	ND	0.50	2337115
Dissolved Bismuth (Bi)	ug/L	ND	ND	2.0	ND	ND	2.0	2337115
Dissolved Boron (B)	ug/L	ND	130	100	440	530	100	2337115
Dissolved Cadmium (Cd)	ug/L	ND	ND	0.017	ND	ND	0.017	2337115
Dissolved Calcium (Ca)	ug/L	140000	100000	100	1100000	1100000	100	2337115
Dissolved Chromium (Cr)	ug/L	ND	ND	1.0	ND	ND	1.0	2337115
Dissolved Cobalt (Co)	ug/L	ND	ND	1.0	2.3	2.4	1.0	2337115
Dissolved Copper (Cu)	ug/L	ND	ND	2.0	ND	ND	2.0	2337115
Dissolved Iron (Fe)	ug/L	ND	ND	100	860	760	100	2337115
Dissolved Lead (Pb)	ug/L	ND	ND	1.0	ND	ND	1.0	2337115
Dissolved Lithium (Li)	ug/L	71	11	1.0	91	94	1.0	2337115
Dissolved Magnesium (Mg)	ug/L	700	3300	60	62000	61000	60	2337115
Dissolved Manganese (Mn)	ug/L	ND	ND	4.0	630	620	4.0	2337115
Dissolved Molybdenum (Mo)	ug/L	13	13	4.0	5.5	5.1	4.0	2337115
Dissolved Nickel (Ni)	ug/L	ND	ND	3.0	ND	ND	3.0	2337115
Dissolved Phosphorus (P)	ug/L	ND	ND	100	ND	ND	100	2337115
Dissolved Potassium (K)	ug/L	13000	9000	600	17000	16000	600	2337115
Dissolved Selenium (Se)	ug/L	18	2.9	1.0	ND	ND	1.0	2337115
Dissolved Silver (Ag)	ug/L	ND	ND	0.10	ND	ND	0.10	2337115
Dissolved Sodium (Na)	ug/L	52000	66000	300	280000	290000	3000	2337115
Dissolved Strontium (Sr)	ug/L	650	450	2.0	29000	29000	2.0	2337115
Dissolved Thallium (Tl)	ug/L	ND	ND	0.80	ND	ND	0.80	2337115
Dissolved Tin (Sn)	ug/L	ND	ND	20	ND	ND	20	2337115
Dissolved Titanium (Ti)	ug/L	ND	ND	3.0	ND	ND	3.0	2337115
Dissolved Uranium (U)	ug/L	ND	0.18	0.15	0.35	0.31	0.15	2337115
Dissolved Vanadium (V)	ug/L	ND	3.0	2.0	ND	ND	2.0	2337115

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G4089
 Report Date: 2010/11/24

SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWP/HCP
 Your P.O. #: SYD147

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		HW1580	HW1581		HW1582	HW1583		
Sampling Date		2010/11/15 03:45	2010/11/15 08:45		2010/11/15 10:00	2010/11/15 10:00		
COC Number		B125830	B125830		B125830	B125830		
	Units	FD4	SCU17-010MWA	RDL	FD3	SCU17-010-MWC	RDL	QC Batch

Dissolved Zinc (Zn)	ug/L	ND	ND	5.0	ND	ND	5.0	2337115
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ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G4089
 Report Date: 2010/11/24

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWP/HCP
 Your P.O. #: SYD147

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		HW1584		HW1585		
Sampling Date		2010/11/15 11:15		2010/11/15 12:30		
COC Number		B125830		B125830		
	Units	SCU16-014-MW	RDL	SCU17-010-MWB	RDL	QC Batch

Metals						
Dissolved Aluminum (Al)	ug/L	24	5.0	ND	5.0	2337115
Dissolved Antimony (Sb)	ug/L	ND	0.40	ND	0.40	2337115
Dissolved Arsenic (As)	ug/L	25	0.60	19	0.60	2337115
Dissolved Barium (Ba)	ug/L	25	0.40	9.6	0.40	2337115
Dissolved Beryllium (Be)	ug/L	ND	0.50	ND	0.50	2337115
Dissolved Bismuth (Bi)	ug/L	ND	2.0	ND	2.0	2337115
Dissolved Boron (B)	ug/L	ND	100	180	100	2337115
Dissolved Cadmium (Cd)	ug/L	ND	0.017	ND	0.017	2337115
Dissolved Calcium (Ca)	ug/L	77000	100	840000	100	2337115
Dissolved Chromium (Cr)	ug/L	2.3	1.0	ND	1.0	2337115
Dissolved Cobalt (Co)	ug/L	ND	1.0	2.0	1.0	2337115
Dissolved Copper (Cu)	ug/L	ND	2.0	ND	2.0	2337115
Dissolved Iron (Fe)	ug/L	ND	100	890	100	2337115
Dissolved Lead (Pb)	ug/L	ND	1.0	ND	1.0	2337115
Dissolved Lithium (Li)	ug/L	25	1.0	42	1.0	2337115
Dissolved Magnesium (Mg)	ug/L	5300	60	27000	60	2337115
Dissolved Manganese (Mn)	ug/L	360	4.0	320	4.0	2337115
Dissolved Molybdenum (Mo)	ug/L	37	4.0	ND	4.0	2337115
Dissolved Nickel (Ni)	ug/L	ND	3.0	ND	3.0	2337115
Dissolved Phosphorus (P)	ug/L	120	100	ND	100	2337115
Dissolved Potassium (K)	ug/L	22000	600	8000	600	2337115
Dissolved Selenium (Se)	ug/L	1.9	1.0	ND	1.0	2337115
Dissolved Silver (Ag)	ug/L	ND	0.10	ND	0.10	2337115
Dissolved Sodium (Na)	ug/L	53000	300	480000	3000	2337115
Dissolved Strontium (Sr)	ug/L	560	2.0	22000	2.0	2337115
Dissolved Thallium (Tl)	ug/L	ND	0.80	ND	0.80	2337115
Dissolved Tin (Sn)	ug/L	ND	20	ND	20	2337115
Dissolved Titanium (Ti)	ug/L	ND	3.0	ND	3.0	2337115
Dissolved Uranium (U)	ug/L	ND	0.15	2.7	0.15	2337115
Dissolved Vanadium (V)	ug/L	23	2.0	ND	2.0	2337115
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: B0G4089
 Report Date: 2010/11/24

SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWP/HCP
 Your P.O. #: SYD147

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		HW1584		HW1585		
Sampling Date		2010/11/15 11:15		2010/11/15 12:30		
COC Number		B125830		B125830		
	Units	SCU16-014-MW	RDL	SCU17-010-MWB	RDL	QC Batch

Dissolved Zinc (Zn)	ug/L	ND	5.0	ND	5.0	2337115
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ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G4089
 Report Date: 2010/11/24

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWP/HCP
 Your P.O. #: SYD147

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Maxxam ID		HW1576		HW1577		HW1578		
Sampling Date		2010/11/15 16:20		2010/11/15 03:45		2010/11/15 01:00		
COC Number		B125830		B125830		B125830		
	Units	SCU16-001-MW	RDL	SCU17-002-MW	RDL	SCU17-014-MW	RDL	QC Batch

Polyaromatic Hydrocarbons								
1-Methylnaphthalene	ug/L	ND	0.05	13	0.05	0.10	0.05	2334961
2-Methylnaphthalene	ug/L	0.05	0.05	18 (1)	0.5	ND	0.05	2334961
Acenaphthene	ug/L	ND	0.01	1.6	0.01	0.03	0.01	2334961
Acenaphthylene	ug/L	0.03	0.01	11	0.01	ND	0.01	2334961
Anthracene	ug/L	0.02	0.01	1.6	0.01	ND	0.01	2334961
Benzo(a)anthracene	ug/L	ND	0.01	0.09	0.01	ND	0.01	2334961
Benzo(a)pyrene	ug/L	ND	0.01	0.01	0.01	ND	0.01	2334961
Benzo(b)fluoranthene	ug/L	ND	0.01	ND	0.01	ND	0.01	2334961
Benzo(g,h,i)perylene	ug/L	ND	0.01	ND	0.01	ND	0.01	2334961
Benzo(k)fluoranthene	ug/L	ND	0.01	0.01	0.01	ND	0.01	2334961
Chrysene	ug/L	ND	0.01	0.07	0.01	ND	0.01	2334961
Dibenz(a,h)anthracene	ug/L	ND	0.01	ND	0.01	ND	0.01	2334961
Fluoranthene	ug/L	0.01	0.01	1.4	0.01	ND	0.01	2334961
Fluorene	ug/L	0.05	0.01	8.3	0.01	ND	0.01	2334961
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.01	ND	0.01	ND	0.01	2334961
Naphthalene	ug/L	ND	0.2	97 (1)	2	0.4	0.2	2334961
Perylene	ug/L	ND	0.01	ND	0.01	ND	0.01	2334961
Phenanthrene	ug/L	0.05	0.01	9.5	0.01	0.03	0.01	2334961
Pyrene	ug/L	0.01	0.01	0.89	0.01	ND	0.01	2334961
Surrogate Recovery (%)								
D10-Anthracene	%	112		74		105		2334961
D14-Terphenyl	%	103		110		104		2334961
D8-Acenaphthylene	%	95		100		107		2334961

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 (1) PAH RDL(s) elevated due to sample dilution.

Maxxam Job #: B0G4089
 Report Date: 2010/11/24

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWP/HCP
 Your P.O. #: SYD147

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Maxxam ID		HW1579		HW1580		HW1581	HW1582		
Sampling Date		2010/11/15 02:45		2010/11/15 03:45		2010/11/15 08:45	2010/11/15 10:00		
COC Number		B125830		B125830		B125830	B125830		
	Units	SCU17-004-MW	RDL	FD4	RDL	SCU17-010MWA	FD3	RDL	QC Batch

Polyaromatic Hydrocarbons									
1-Methylnaphthalene	ug/L	8.2	0.05	16	0.05	ND	ND	0.05	2334961
2-Methylnaphthalene	ug/L	14	0.05	21 (1)	0.5	ND	ND	0.05	2334961
Acenaphthene	ug/L	1.2	0.01	1.9	0.01	0.01	ND	0.01	2334961
Acenaphthylene	ug/L	8.4	0.01	14	0.01	0.01	ND	0.01	2334961
Anthracene	ug/L	1.7	0.01	1.9	0.01	0.05	ND	0.01	2334961
Benzo(a)anthracene	ug/L	0.11	0.01	0.10	0.01	ND	ND	0.01	2334961
Benzo(a)pyrene	ug/L	0.01	0.01	0.01	0.01	ND	ND	0.01	2334961
Benzo(b)fluoranthene	ug/L	0.01	0.01	0.01	0.01	ND	ND	0.01	2334961
Benzo(g,h,i)perylene	ug/L	ND	0.01	ND	0.01	ND	ND	0.01	2334961
Benzo(k)fluoranthene	ug/L	0.01	0.01	0.01	0.01	ND	ND	0.01	2334961
Chrysene	ug/L	0.07	0.01	0.08	0.01	ND	ND	0.01	2334961
Dibenz(a,h)anthracene	ug/L	ND	0.01	ND	0.01	ND	ND	0.01	2334961
Fluoranthene	ug/L	2.3	0.01	1.8	0.01	0.04	ND	0.01	2334961
Fluorene	ug/L	7.4	0.01	10	0.01	0.04	ND	0.01	2334961
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.01	ND	0.01	ND	ND	0.01	2334961
Naphthalene	ug/L	43 (1)	2	110 (1)	2	0.2	ND	0.2	2334961
Perylene	ug/L	ND	0.01	ND	0.01	ND	ND	0.01	2334961
Phenanthrene	ug/L	9.6	0.01	11	0.01	0.09	ND	0.01	2334961
Pyrene	ug/L	1.5	0.01	1.1	0.01	0.03	ND	0.01	2334961
Surrogate Recovery (%)									
D10-Anthracene	%	72		85		121	122		2334961
D14-Terphenyl	%	112		124		104	98		2334961
D8-Acenaphthylene	%	99		124		92	98		2334961

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 (1) PAH RDL(s) elevated due to sample dilution.

Maxxam Job #: B0G4089
 Report Date: 2010/11/24

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWP/HCP
 Your P.O. #: SYD147

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Maxxam ID		HW1583	HW1584	HW1585		
Sampling Date		2010/11/15 10:00	2010/11/15 11:15	2010/11/15 12:30		
COC Number		B125830	B125830	B125830		
	Units	SCU17-010-MWC	SCU16-014-MW	SCU17-010-MWB	RDL	QC Batch

Polyaromatic Hydrocarbons						
1-Methylnaphthalene	ug/L	ND	ND	ND	0.05	2334961
2-Methylnaphthalene	ug/L	ND	ND	ND	0.05	2334961
Acenaphthene	ug/L	ND	ND	ND	0.01	2334961
Acenaphthylene	ug/L	ND	ND	ND	0.01	2334961
Anthracene	ug/L	ND	ND	ND	0.01	2334961
Benzo(a)anthracene	ug/L	ND	ND	ND	0.01	2334961
Benzo(a)pyrene	ug/L	ND	ND	ND	0.01	2334961
Benzo(b)fluoranthene	ug/L	ND	ND	ND	0.01	2334961
Benzo(g,h,i)perylene	ug/L	ND	ND	ND	0.01	2334961
Benzo(k)fluoranthene	ug/L	ND	ND	ND	0.01	2334961
Chrysene	ug/L	ND	ND	ND	0.01	2334961
Dibenz(a,h)anthracene	ug/L	ND	ND	ND	0.01	2334961
Fluoranthene	ug/L	ND	0.01	ND	0.01	2334961
Fluorene	ug/L	ND	ND	ND	0.01	2334961
Indeno(1,2,3-cd)pyrene	ug/L	ND	ND	ND	0.01	2334961
Naphthalene	ug/L	ND	ND	ND	0.2	2334961
Perylene	ug/L	ND	ND	ND	0.01	2334961
Phenanthrene	ug/L	0.01	0.01	ND	0.01	2334961
Pyrene	ug/L	ND	0.01	ND	0.01	2334961
Surrogate Recovery (%)						
D10-Anthracene	%	121	108	115		2334961
D14-Terphenyl	%	97	101	98		2334961
D8-Acenaphthylene	%	97	97	96		2334961

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G4089
Report Date: 2010/11/24

SLR Consulting (Canada) Ltd
Client Project #: 210.05780.00000
Project name: 2010 GWP/HCP
Your P.O. #: SYD147

GENERAL COMMENTS

Results relate only to the items tested.

SLR Consulting (Canada) Ltd
 Attention: Kelly Henderson
 Client Project #: 210.05780.00000
 P.O. #: SYD147
 Project name: 2010 GWP/HCP

Quality Assurance Report
 Maxxam Job Number: KB0G4089

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2333698 BMI	Matrix Spike	Total Mercury (Hg)	2010/11/17		102	%	80 - 120	
	QC Standard	Total Mercury (Hg)	2010/11/17		98	%	80 - 120	
	Spiked Blank	Total Mercury (Hg)	2010/11/17		97	%	80 - 120	
	Method Blank	Total Mercury (Hg)	2010/11/17	ND, RDL=0.013		ug/L		
	RPD	Total Mercury (Hg)	2010/11/17	NC		%	25	
2333943 JHO	Matrix Spike [HW1577-01]	Isobutylbenzene - Extractable	2010/11/23		74	%	30 - 130	
		n-Dotriacontane - Extractable	2010/11/23		78	%	30 - 130	
		>C10-C16 Hydrocarbons	2010/11/23		83	%	70 - 130	
		>C16-C21 Hydrocarbons	2010/11/23		75	%	70 - 130	
		>C21-<C32 Hydrocarbons	2010/11/23		59	%	50 - 120	
	Spiked Blank	Isobutylbenzene - Extractable	2010/11/23		79	%	30 - 130	
		n-Dotriacontane - Extractable	2010/11/23		81	%	30 - 130	
		>C10-C16 Hydrocarbons	2010/11/23		89	%	70 - 130	
		>C16-C21 Hydrocarbons	2010/11/23		79	%	70 - 130	
	Method Blank	>C21-<C32 Hydrocarbons	2010/11/23		62	%	50 - 120	
		Isobutylbenzene - Extractable	2010/11/23		73	%	30 - 130	
		n-Dotriacontane - Extractable	2010/11/23		87	%	30 - 130	
		>C10-C16 Hydrocarbons	2010/11/23	ND, RDL=0.2		mg/L		
		>C16-C21 Hydrocarbons	2010/11/23	ND, RDL=0.2		mg/L		
		>C21-<C32 Hydrocarbons	2010/11/23	ND, RDL=0.5		mg/L		
RPD [HW1576-01]	>C10-C16 Hydrocarbons	2010/11/23	NC		%	40		
	>C16-C21 Hydrocarbons	2010/11/23	NC		%	40		
	>C21-<C32 Hydrocarbons	2010/11/23	NC		%	40		
2334961 TML	Matrix Spike [HW1577-01]	D10-Anthracene	2010/11/22		76	%	30 - 130	
		D14-Terphenyl	2010/11/22		112	%	30 - 130	
		D8-Acenaphthylene	2010/11/22		101	%	30 - 130	
		1-Methylnaphthalene	2010/11/22		37 (1)	%	50 - 130	
		2-Methylnaphthalene	2010/11/22		-100 (2)	%	50 - 130	
		Acenaphthene	2010/11/22		105	%	50 - 130	
		Acenaphthylene	2010/11/22		35 (1)	%	50 - 130	
		Anthracene	2010/11/22		73	%	50 - 130	
		Benzo(a)anthracene	2010/11/22		109	%	50 - 130	
		Benzo(a)pyrene	2010/11/22		108	%	50 - 130	
		Benzo(b)fluoranthene	2010/11/22		110	%	50 - 130	
		Benzo(g,h,i)perylene	2010/11/22		110	%	50 - 130	
		Benzo(k)fluoranthene	2010/11/22		121	%	50 - 130	
		Chrysene	2010/11/22		108	%	50 - 130	
		Dibenz(a,h)anthracene	2010/11/22		106	%	50 - 130	
		Fluoranthene	2010/11/22		109	%	50 - 130	
		Fluorene	2010/11/22		95	%	50 - 130	
		Indeno(1,2,3-cd)pyrene	2010/11/22		119	%	50 - 130	
		Naphthalene	2010/11/22		-750 (2)	%	50 - 130	
		Perylene	2010/11/22		101	%	50 - 130	
		Phenanthrene	2010/11/22		-0.50 (1)	%	50 - 130	
		Pyrene	2010/11/22		112	%	50 - 130	
		Spiked Blank	D10-Anthracene	2010/11/22		103	%	30 - 130
			D14-Terphenyl	2010/11/22		104	%	30 - 130
	D8-Acenaphthylene		2010/11/22		97	%	30 - 130	
	1-Methylnaphthalene		2010/11/22		95	%	50 - 130	
	2-Methylnaphthalene		2010/11/22		85	%	50 - 130	
	Acenaphthene		2010/11/22		105	%	50 - 130	
	Method Blank	Acenaphthylene	2010/11/22		96	%	50 - 130	
		Anthracene	2010/11/22		102	%	50 - 130	

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits		
2334961	TML	Spiked Blank	Benzo(a)anthracene	2010/11/22		103	%	50 - 130	
			Benzo(a)pyrene	2010/11/22		101	%	50 - 130	
			Benzo(b)fluoranthene	2010/11/22		112	%	50 - 130	
			Benzo(g,h,i)perylene	2010/11/22		103	%	50 - 130	
			Benzo(k)fluoranthene	2010/11/22		113	%	50 - 130	
			Chrysene	2010/11/22		102	%	50 - 130	
			Dibenz(a,h)anthracene	2010/11/22		98	%	50 - 130	
			Fluoranthene	2010/11/22		108	%	50 - 130	
			Fluorene	2010/11/22		102	%	50 - 130	
			Indeno(1,2,3-cd)pyrene	2010/11/22		100	%	50 - 130	
			Naphthalene	2010/11/22		96	%	50 - 130	
			Perylene	2010/11/22		96	%	50 - 130	
			Phenanthrene	2010/11/22		90	%	50 - 130	
			Pyrene	2010/11/22		106	%	50 - 130	
			Method Blank	D10-Anthracene	2010/11/22		98	%	30 - 130
				D14-Terphenyl	2010/11/22		107	%	30 - 130
				D8-Acenaphthylene	2010/11/22		98	%	30 - 130
				1-Methylnaphthalene	2010/11/22	ND, RDL=0.05			ug/L
	2-Methylnaphthalene	2010/11/22		ND, RDL=0.05			ug/L		
	Acenaphthene	2010/11/22		ND, RDL=0.01			ug/L		
	Acenaphthylene	2010/11/22		ND, RDL=0.01			ug/L		
	Anthracene	2010/11/22		ND, RDL=0.01			ug/L		
	Benzo(a)anthracene	2010/11/22		ND, RDL=0.01			ug/L		
	Benzo(a)pyrene	2010/11/22		ND, RDL=0.01			ug/L		
	Benzo(b)fluoranthene	2010/11/22		ND, RDL=0.01			ug/L		
	Benzo(g,h,i)perylene	2010/11/22		ND, RDL=0.01			ug/L		
	Benzo(k)fluoranthene	2010/11/22		ND, RDL=0.01			ug/L		
	Chrysene	2010/11/22		ND, RDL=0.01			ug/L		
	Dibenz(a,h)anthracene	2010/11/22		ND, RDL=0.01			ug/L		
	Fluoranthene	2010/11/22		ND, RDL=0.01			ug/L		
	Fluorene	2010/11/22		ND, RDL=0.01			ug/L		
	Indeno(1,2,3-cd)pyrene	2010/11/22		ND, RDL=0.01			ug/L		
	Naphthalene	2010/11/22	ND, RDL=0.2			ug/L			
	Perylene	2010/11/22	ND, RDL=0.01			ug/L			
	Phenanthrene	2010/11/22	ND, RDL=0.01			ug/L			
	Pyrene	2010/11/22	ND, RDL=0.01			ug/L			
	RPD [HW1576-01]	1-Methylnaphthalene	2010/11/22	NC			%	40	
		2-Methylnaphthalene	2010/11/22	NC			%	40	
		Acenaphthene	2010/11/22	NC			%	40	
Acenaphthylene		2010/11/22	NC			%	40		
Anthracene		2010/11/22	NC			%	40		
Benzo(a)anthracene		2010/11/22	NC			%	40		
Benzo(a)pyrene		2010/11/22	NC			%	40		
Benzo(b)fluoranthene		2010/11/22	NC			%	40		
Benzo(g,h,i)perylene		2010/11/22	NC			%	40		
Benzo(k)fluoranthene		2010/11/22	NC			%	40		
Chrysene		2010/11/22	NC			%	40		
Dibenz(a,h)anthracene		2010/11/22	NC			%	40		
Fluoranthene		2010/11/22	NC			%	40		
Fluorene		2010/11/22	NC			%	40		
Indeno(1,2,3-cd)pyrene		2010/11/22	NC			%	40		
Naphthalene		2010/11/22	NC			%	40		
Perylene		2010/11/22	NC			%	40		
Phenanthrene		2010/11/22	12.2			%	40		
Pyrene	2010/11/22	NC			%	40			

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2335185 THL	Matrix Spike	Isobutylbenzene - Volatile	2010/11/20		97	%	70 - 130
		Benzene	2010/11/20		104	%	70 - 130
		Toluene	2010/11/20		100	%	70 - 130
		Ethylbenzene	2010/11/20		100	%	70 - 130
	Spiked Blank	Xylene (Total)	2010/11/20		101	%	70 - 130
		Isobutylbenzene - Volatile	2010/11/20		102	%	70 - 130
		Benzene	2010/11/20		97	%	70 - 130
		Toluene	2010/11/20		105	%	70 - 130
	Method Blank	Ethylbenzene	2010/11/20		100	%	70 - 130
		Xylene (Total)	2010/11/20		97	%	70 - 130
		Isobutylbenzene - Volatile	2010/11/20		110	%	70 - 130
		Benzene	2010/11/20	ND, RDL=0.001		mg/L	
	RPD	Toluene	2010/11/20	ND, RDL=0.001		mg/L	
		Ethylbenzene	2010/11/20	ND, RDL=0.001		mg/L	
		Xylene (Total)	2010/11/20	ND, RDL=0.002		mg/L	
		C6 - C10 (less BTEX)	2010/11/20	ND, RDL=0.01		mg/L	
		Benzene	2010/11/20	NC		%	40
		Toluene	2010/11/20	NC		%	40
		Ethylbenzene	2010/11/20	4.0		%	40
		Xylene (Total)	2010/11/20	3.8		%	40
2335187 SHL	Matrix Spike	C6 - C10 (less BTEX)	2010/11/20	8.2		%	40
		Isobutylbenzene - Volatile	2010/11/23		78	%	70 - 130
		Benzene	2010/11/23		104	%	70 - 130
		Toluene	2010/11/23		100	%	70 - 130
	Spiked Blank	Ethylbenzene	2010/11/23		96	%	70 - 130
		Xylene (Total)	2010/11/23		99	%	70 - 130
		Isobutylbenzene - Volatile	2010/11/23		90	%	70 - 130
		Benzene	2010/11/23		106	%	70 - 130
	Method Blank	Toluene	2010/11/23		111	%	70 - 130
		Ethylbenzene	2010/11/23		114	%	70 - 130
		Xylene (Total)	2010/11/23		116	%	70 - 130
		Isobutylbenzene - Volatile	2010/11/23		98	%	70 - 130
	RPD	Benzene	2010/11/23	ND, RDL=0.001		mg/L	
		Toluene	2010/11/23	ND, RDL=0.001		mg/L	
		Ethylbenzene	2010/11/23	ND, RDL=0.001		mg/L	
		Xylene (Total)	2010/11/23	ND, RDL=0.002		mg/L	
		C6 - C10 (less BTEX)	2010/11/23	ND, RDL=0.01		mg/L	
		Benzene	2010/11/23	NC		%	40
		Toluene	2010/11/23	NC		%	40
		Ethylbenzene	2010/11/23	NC		%	40
2337115 MBU	Matrix Spike [HW1585-01]	Xylene (Total)	2010/11/23	NC		%	40
		C6 - C10 (less BTEX)	2010/11/23	NC		%	40
		Dissolved Aluminum (Al)	2010/11/22		93	%	75 - 125
		Dissolved Antimony (Sb)	2010/11/22		104	%	75 - 125
		Dissolved Arsenic (As)	2010/11/22		90	%	75 - 125
		Dissolved Barium (Ba)	2010/11/22		102	%	75 - 125
		Dissolved Beryllium (Be)	2010/11/22		121	%	75 - 125
		Dissolved Bismuth (Bi)	2010/11/22		100	%	75 - 125
		Dissolved Boron (B)	2010/11/22		NC	%	75 - 125
		Dissolved Cadmium (Cd)	2010/11/22		101	%	75 - 125
		Dissolved Calcium (Ca)	2010/11/22		NC	%	75 - 125
		Dissolved Chromium (Cr)	2010/11/22		104	%	75 - 125
		Dissolved Cobalt (Co)	2010/11/22		104	%	75 - 125
Dissolved Copper (Cu)	2010/11/22		93	%	75 - 125		

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2337115 MBU	Matrix Spike [HW1585-01]	Dissolved Iron (Fe)	2010/11/22		90	%	75 - 125
		Dissolved Lead (Pb)	2010/11/22		100	%	75 - 125
		Dissolved Lithium (Li)	2010/11/22		90	%	75 - 125
		Dissolved Magnesium (Mg)	2010/11/22		NC	%	75 - 125
		Dissolved Manganese (Mn)	2010/11/22		97	%	75 - 125
		Dissolved Molybdenum (Mo)	2010/11/22		111	%	75 - 125
		Dissolved Nickel (Ni)	2010/11/22		96	%	75 - 125
		Dissolved Phosphorus (P)	2010/11/22		106	%	75 - 125
		Dissolved Potassium (K)	2010/11/22		92	%	75 - 125
		Dissolved Selenium (Se)	2010/11/22		99	%	75 - 125
		Dissolved Silver (Ag)	2010/11/22		85	%	75 - 125
		Dissolved Sodium (Na)	2010/11/22		NC	%	75 - 125
		Dissolved Strontium (Sr)	2010/11/22		NC	%	75 - 125
		Dissolved Thallium (Tl)	2010/11/22		102	%	75 - 125
		Dissolved Tin (Sn)	2010/11/22		104	%	75 - 125
		Dissolved Titanium (Ti)	2010/11/22		95	%	75 - 125
		Dissolved Uranium (U)	2010/11/22		108	%	75 - 125
		Dissolved Vanadium (V)	2010/11/22		109	%	75 - 125
		Dissolved Zinc (Zn)	2010/11/22		85	%	75 - 125
	QC Standard	Dissolved Aluminum (Al)	2010/11/22		110	%	75 - 125
		Dissolved Antimony (Sb)	2010/11/22		118	%	75 - 125
		Dissolved Arsenic (As)	2010/11/22		89	%	75 - 125
		Dissolved Barium (Ba)	2010/11/22		96	%	75 - 125
		Dissolved Beryllium (Be)	2010/11/22		94	%	75 - 125
		Dissolved Bismuth (Bi)	2010/11/22		120	%	75 - 125
		Dissolved Boron (B)	2010/11/22		101	%	75 - 125
		Dissolved Cadmium (Cd)	2010/11/22		105	%	75 - 125
		Dissolved Calcium (Ca)	2010/11/22		91	%	75 - 125
		Dissolved Chromium (Cr)	2010/11/22		108	%	75 - 125
		Dissolved Cobalt (Co)	2010/11/22		108	%	75 - 125
		Dissolved Copper (Cu)	2010/11/22		101	%	75 - 125
		Dissolved Iron (Fe)	2010/11/22		92	%	75 - 125
		Dissolved Lead (Pb)	2010/11/22		107	%	75 - 125
		Dissolved Lithium (Li)	2010/11/22		92	%	75 - 125
		Dissolved Magnesium (Mg)	2010/11/22		96	%	75 - 125
		Dissolved Manganese (Mn)	2010/11/22		105	%	75 - 125
		Dissolved Molybdenum (Mo)	2010/11/22		110	%	75 - 125
		Dissolved Nickel (Ni)	2010/11/22		101	%	75 - 125
		Dissolved Potassium (K)	2010/11/22		97	%	75 - 125
		Dissolved Selenium (Se)	2010/11/22		92	%	75 - 125
		Dissolved Silver (Ag)	2010/11/22		104	%	75 - 125
		Dissolved Sodium (Na)	2010/11/22		97	%	75 - 125
		Dissolved Strontium (Sr)	2010/11/22		100	%	75 - 125
		Dissolved Thallium (Tl)	2010/11/22		108	%	75 - 125
		Dissolved Vanadium (V)	2010/11/22		107	%	75 - 125
		Dissolved Zinc (Zn)	2010/11/22		97	%	75 - 125
	Spiked Blank	Dissolved Aluminum (Al)	2010/11/22		98	%	75 - 125
		Dissolved Antimony (Sb)	2010/11/22		107	%	75 - 125
		Dissolved Arsenic (As)	2010/11/22		89	%	75 - 125
		Dissolved Barium (Ba)	2010/11/22		103	%	75 - 125
		Dissolved Beryllium (Be)	2010/11/22		100	%	75 - 125
		Dissolved Bismuth (Bi)	2010/11/22		107	%	75 - 125
		Dissolved Boron (B)	2010/11/22		106	%	75 - 125
		Dissolved Cadmium (Cd)	2010/11/22		110	%	75 - 125

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2337115 MBU	Spiked Blank	Dissolved Calcium (Ca)	2010/11/22		96	%	75 - 125	
		Dissolved Chromium (Cr)	2010/11/22		107	%	75 - 125	
		Dissolved Cobalt (Co)	2010/11/22		109	%	75 - 125	
		Dissolved Copper (Cu)	2010/11/22		104	%	75 - 125	
		Dissolved Iron (Fe)	2010/11/22		95	%	75 - 125	
		Dissolved Lead (Pb)	2010/11/22		109	%	75 - 125	
		Dissolved Lithium (Li)	2010/11/22		94	%	75 - 125	
		Dissolved Magnesium (Mg)	2010/11/22		94	%	75 - 125	
		Dissolved Manganese (Mn)	2010/11/22		103	%	75 - 125	
		Dissolved Molybdenum (Mo)	2010/11/22		109	%	75 - 125	
		Dissolved Nickel (Ni)	2010/11/22		105	%	75 - 125	
		Dissolved Phosphorus (P)	2010/11/22		107	%	75 - 125	
		Dissolved Potassium (K)	2010/11/22		97	%	75 - 125	
		Dissolved Selenium (Se)	2010/11/22		104	%	75 - 125	
		Dissolved Silver (Ag)	2010/11/22		89	%	75 - 125	
		Dissolved Sodium (Na)	2010/11/22		100	%	75 - 125	
		Dissolved Strontium (Sr)	2010/11/22		107	%	75 - 125	
		Dissolved Thallium (Tl)	2010/11/22		110	%	75 - 125	
		Dissolved Tin (Sn)	2010/11/22		107	%	75 - 125	
		Method Blank		Dissolved Titanium (Ti)	2010/11/22		92	%
Dissolved Uranium (U)	2010/11/22				112	%	75 - 125	
Dissolved Vanadium (V)	2010/11/22				108	%	75 - 125	
Dissolved Zinc (Zn)	2010/11/22				102	%	75 - 125	
Dissolved Aluminum (Al)	2010/11/22			ND, RDL=5.0			ug/L	
Dissolved Antimony (Sb)	2010/11/22			ND, RDL=0.40			ug/L	
Dissolved Arsenic (As)	2010/11/22			ND, RDL=0.60			ug/L	
Dissolved Barium (Ba)	2010/11/22			ND, RDL=0.40			ug/L	
Dissolved Beryllium (Be)	2010/11/22			ND, RDL=0.50			ug/L	
Dissolved Bismuth (Bi)	2010/11/22			ND, RDL=2.0			ug/L	
Dissolved Boron (B)	2010/11/22			ND, RDL=100			ug/L	
Dissolved Cadmium (Cd)	2010/11/22			ND, RDL=0.017			ug/L	
Dissolved Calcium (Ca)	2010/11/22			ND, RDL=100			ug/L	
Dissolved Chromium (Cr)	2010/11/22			ND, RDL=1.0			ug/L	
Dissolved Cobalt (Co)	2010/11/22			ND, RDL=1.0			ug/L	
Dissolved Copper (Cu)	2010/11/22			ND, RDL=2.0			ug/L	
Dissolved Iron (Fe)	2010/11/22			ND, RDL=100			ug/L	
Dissolved Lead (Pb)	2010/11/22			ND, RDL=1.0			ug/L	
Dissolved Lithium (Li)	2010/11/22			ND, RDL=1.0			ug/L	
Dissolved Magnesium (Mg)	2010/11/22			ND, RDL=60			ug/L	
Dissolved Manganese (Mn)	2010/11/22			ND, RDL=4.0			ug/L	
Dissolved Molybdenum (Mo)	2010/11/22			ND, RDL=4.0			ug/L	
Dissolved Nickel (Ni)	2010/11/22			ND, RDL=3.0			ug/L	
Dissolved Phosphorus (P)	2010/11/22			ND, RDL=100			ug/L	
Dissolved Potassium (K)	2010/11/22			ND, RDL=600			ug/L	
Dissolved Selenium (Se)	2010/11/22			ND, RDL=1.0			ug/L	
Dissolved Silver (Ag)	2010/11/22			ND, RDL=0.10			ug/L	
Dissolved Sodium (Na)	2010/11/22			ND, RDL=300			ug/L	
Dissolved Strontium (Sr)	2010/11/22			ND, RDL=2.0			ug/L	
Dissolved Thallium (Tl)	2010/11/22			ND, RDL=0.80			ug/L	
Dissolved Tin (Sn)	2010/11/22			ND, RDL=20			ug/L	
Dissolved Titanium (Ti)	2010/11/22			ND, RDL=3.0			ug/L	
Dissolved Uranium (U)	2010/11/22			ND, RDL=0.15			ug/L	
Dissolved Vanadium (V)	2010/11/22	ND, RDL=2.0			ug/L			
Dissolved Zinc (Zn)	2010/11/22	ND, RDL=5.0			ug/L			
RPD [HW1585-01]		Dissolved Aluminum (Al)	2010/11/23	NC		%	25	

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2337115 MBU	RPD [HW1585-01]	Dissolved Antimony (Sb)	2010/11/23	NC		%	25
		Dissolved Arsenic (As)	2010/11/23	2.0		%	25
		Dissolved Barium (Ba)	2010/11/23	6.5		%	25
		Dissolved Beryllium (Be)	2010/11/23	NC		%	25
		Dissolved Bismuth (Bi)	2010/11/23	NC		%	25
		Dissolved Boron (B)	2010/11/23	NC		%	25
		Dissolved Cadmium (Cd)	2010/11/23	NC		%	25
		Dissolved Calcium (Ca)	2010/11/23	4.3		%	25
		Dissolved Chromium (Cr)	2010/11/23	NC		%	25
		Dissolved Cobalt (Co)	2010/11/23	NC		%	25
		Dissolved Copper (Cu)	2010/11/23	NC		%	25
		Dissolved Iron (Fe)	2010/11/23	5.1		%	25
		Dissolved Lead (Pb)	2010/11/23	NC		%	25
		Dissolved Lithium (Li)	2010/11/23	7.5		%	25
		Dissolved Magnesium (Mg)	2010/11/23	4.2		%	25
		Dissolved Manganese (Mn)	2010/11/23	0.6		%	25
		Dissolved Molybdenum (Mo)	2010/11/23	NC		%	25
		Dissolved Nickel (Ni)	2010/11/23	NC		%	25
		Dissolved Phosphorus (P)	2010/11/23	NC		%	25
		Dissolved Potassium (K)	2010/11/23	0.09		%	25
		Dissolved Selenium (Se)	2010/11/23	NC		%	25
		Dissolved Silver (Ag)	2010/11/23	NC		%	25
		Dissolved Sodium (Na)	2010/11/23	5.8		%	25
		Dissolved Strontium (Sr)	2010/11/23	1.0		%	25
		Dissolved Thallium (Tl)	2010/11/23	NC		%	25
		Dissolved Tin (Sn)	2010/11/23	NC		%	25
		Dissolved Titanium (Ti)	2010/11/23	NC		%	25
		Dissolved Uranium (U)	2010/11/23	1.5		%	25
		Dissolved Vanadium (V)	2010/11/23	NC		%	25
		Dissolved Zinc (Zn)	2010/11/23	NC		%	25

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.

Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.

NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

(1) Matrix Spike: sample concentration is >2X spiking level.

(2) Matrix Spike: sample concentration is >2X spiking level. PAH RDL(s) elevated due to sample dilution.

Validation Signature Page

Maxxam Job #: B0G4089

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



ALAN STEWART, Scientific Specialist (Organics)



MICHELLE MOMBOURQUETTE, Laboratory Manager

=====

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Your P.O. #: SYD147
 Your Project #: 210.5780.00000
 Site: 2010 GWMP/HCP
 Your C.O.C. #: B125842

Attention: Kelly Henderson
 SLR Consulting (Canada) Ltd
 45 Wabina Crt., Suite 107B
 PO Box 791, Station A
 Sydney, NS
 B1P 6K5

Report Date: 2010/11/30

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B0G5718
Received: 2010/11/18, 08:36

Sample Matrix: Water
 # Samples Received: 9

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
TEH in Water (PIRI)	9	2010/11/23	2010/11/24	ATL SOP-00151 R5	Based on ATL PIRI
Mercury - Total (CVAA,LL)	8	2010/11/24	2010/11/23	ATL SOP-00160 R5	Based on EPA245.1
Elements by ICPMS - low dissolved	3	N/A	2010/11/23	ATL SOP 00161 R6	Based on EPA6020A
Elements by ICPMS - low dissolved	5	N/A	2010/11/24	ATL SOP 00161 R6	Based on EPA6020A
PAH in Water by GC/MS (SIM)	5	2010/11/22	2010/11/24	ATL SOP 00147 R5	Based on EPA 8270C
PAH in Water by GC/MS (SIM)	3	2010/11/23	2010/11/30	ATL SOP 00147 R5	Based on EPA 8270C
VPH in Water (PIRI) Ⓟ	3	2010/11/22	2010/11/23	ATL SOP 00118 R4	Based on Atl. PIRI
VPH in Water (PIRI) Ⓟ	6	2010/11/22	2010/11/24	ATL SOP 00118 R4	Based on Atl. PIRI
ModTPH (T1) Calc. for Water	9	N/A	2010/11/26	ATL SOP-00151 R4	Based on Atl PIRI
Volatile Organic Compounds in Water Ⓟ	1	2010/11/22	2010/11/25	ATL SOP 00122 R4	Based on EPA624

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bedford

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

TRACY MACLEOD-FLOYD,
 Email: TMacLeod@maxxam.ca
 Phone# (902) 567 1255

=====
 Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 1

Maxxam Job #: B0G5718
 Report Date: 2010/11/30

SLR Consulting (Canada) Ltd
 Client Project #: 210.5780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

ATLANTIC VOC IN WATER (WATER)

Maxxam ID		HW8707		
Sampling Date		2010/11/16 04:15		
COC Number		B125842		
	Units	SCU12-001-MW	RDL	QC Batch

Chlorobenzenes				
1,2-Dichlorobenzene	ug/L	ND	0.5	2339717
1,3-Dichlorobenzene	ug/L	ND	1	2339717
1,4-Dichlorobenzene	ug/L	ND	1	2339717
Chlorobenzene	ug/L	ND	1	2339717
Volatile Organics				
1,1,1-Trichloroethane	ug/L	ND	1	2339717
1,1,2,2-Tetrachloroethane	ug/L	ND	1	2339717
1,1,2-Trichloroethane	ug/L	ND	1	2339717
1,1-Dichloroethane	ug/L	ND	2	2339717
1,1-Dichloroethylene	ug/L	ND	0.5	2339717
1,2-Dichloroethane	ug/L	ND	1	2339717
1,2-Dichloropropane	ug/L	ND	1	2339717
Benzene	ug/L	ND	1	2339717
Bromodichloromethane	ug/L	ND	1	2339717
Bromoform	ug/L	ND	1	2339717
Bromomethane	ug/L	ND	3	2339717
Carbon Tetrachloride	ug/L	ND	1	2339717
Chloroethane	ug/L	ND	8	2339717
Chloroform	ug/L	ND	1	2339717
Chloromethane	ug/L	ND	8	2339717
cis-1,2-Dichloroethylene	ug/L	ND	2	2339717
cis-1,3-Dichloropropene	ug/L	ND	2	2339717
Dibromochloromethane	ug/L	ND	1	2339717
Ethylbenzene	ug/L	ND	1	2339717
Ethylene Dibromide	ug/L	ND	1	2339717
Methylene Chloride(Dichloromethane)	ug/L	ND	3	2339717
o-Xylene	ug/L	ND	1	2339717
p+m-Xylene	ug/L	ND	2	2339717
Styrene	ug/L	ND	1	2339717
Tetrachloroethylene	ug/L	ND	1	2339717
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch				

Maxxam Job #: B0G5718
 Report Date: 2010/11/30

SLR Consulting (Canada) Ltd
 Client Project #: 210.5780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

ATLANTIC VOC IN WATER (WATER)

Maxxam ID		HW8707		
Sampling Date		2010/11/16 04:15		
COC Number		B125842		
	Units	SCU12-001-MW	RDL	QC Batch

Toluene	ug/L	ND	1	2339717
trans-1,2-Dichloroethylene	ug/L	ND	2	2339717
trans-1,3-Dichloropropene	ug/L	ND	1	2339717
Trichloroethylene	ug/L	ND	1	2339717
Trichlorofluoromethane (FREON 11)	ug/L	ND	8	2339717
Vinyl Chloride	ug/L	ND	0.5	2339717
Surrogate Recovery (%)				
4-Bromofluorobenzene	%	100		2339717
D4-1,2-Dichloroethane	%	100		2339717
D8-Toluene	%	101		2339717

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G5718
 Report Date: 2010/11/30

 SLR Consulting (Canada) Ltd
 Client Project #: 210.5780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

SYD/ BED TIER1 (WATER)

Maxxam ID		HW8697	HW8700	HW8701	HW8702		
Sampling Date		2010/11/16 15:45	2010/11/16	2010/11/16 01:15	2010/11/16 03:05		
COC Number		B125842	B125842	B125842	B125842		
	Units	SCU31-002MW-B	TRIP BLANK	SCU25-004-MW	SCU33-001-MW	RDL	QC Batch

Petroleum Hydrocarbons							
Benzene	mg/L	ND	ND	ND	ND	0.001	2337293
Toluene	mg/L	ND	ND	ND	ND	0.001	2337293
Ethylbenzene	mg/L	ND	ND	ND	ND	0.001	2337293
Xylene (Total)	mg/L	ND	ND	ND	ND	0.002	2337293
C6 - C10 (less BTEX)	mg/L	ND	ND	ND	ND	0.01	2337293
>C10-C16 Hydrocarbons	mg/L	ND	ND	ND	ND	0.2	2337701
>C16-C21 Hydrocarbons	mg/L	ND	ND	ND	ND	0.2	2337701
>C21-<C32 Hydrocarbons	mg/L	ND	ND	ND	ND	0.5	2337701
Modified TPH (Tier1)	mg/L	ND	ND	ND	ND	0.5	2334087
Reached Baseline at C32	mg/L	Yes	Yes	Yes	Yes	N/A	2337701
Hydrocarbon Resemblance	mg/L	NA	NA	NA	NA	N/A	2337701
Surrogate Recovery (%)							
Isobutylbenzene - Extractable	%	89	99	94	90		2337701
n-Dotriacontane - Extractable	%	89	101	92	91		2337701
Isobutylbenzene - Volatile	%	93	91	94	91		2337293

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G5718
Report Date: 2010/11/30

SLR Consulting (Canada) Ltd
Client Project #: 210.5780.00000
Project name: 2010 GWMP/HCP
Your P.O. #: SYD147

SYD/ BED TIER1 (WATER)

Maxxam ID		HW8703	HW8704		HW8705	HW8706		
Sampling Date		2010/11/16 09:35	2010/11/16 10:00		2010/11/16 01:45	2010/11/16 07:50		
COC Number		B125842	B125842		B125842	B125842		
	Units	SCU25-005-MWC	SCU25-005-MWB	QC Batch	SCU25-007-MW	SCU25-003-MW	RDL	QC Batch

Petroleum Hydrocarbons								
Benzene	mg/L	ND	ND	2337293	ND	ND	0.001	2337295
Toluene	mg/L	ND	ND	2337293	ND	ND	0.001	2337295
Ethylbenzene	mg/L	ND	ND	2337293	ND	ND	0.001	2337295
Xylene (Total)	mg/L	ND	ND	2337293	ND	ND	0.002	2337295
C6 - C10 (less BTEX)	mg/L	ND	ND	2337293	ND	ND	0.01	2337295
>C10-C16 Hydrocarbons	mg/L	ND	ND	2337701	ND	ND	0.2	2337701
>C16-C21 Hydrocarbons	mg/L	ND	ND	2337701	ND	ND	0.2	2337701
>C21-<C32 Hydrocarbons	mg/L	ND	ND	2337701	ND	ND	0.5	2337701
Modified TPH (Tier1)	mg/L	ND	ND	2334087	ND	ND	0.5	2334087
Reached Baseline at C32	mg/L	Yes	Yes	2337701	Yes	Yes	N/A	2337701
Hydrocarbon Resemblance	mg/L	NA	NA	2337701	NA	NA	N/A	2337701
Surrogate Recovery (%)								
Isobutylbenzene - Extractable	%	77	92	2337701	94	92		2337701
n-Dotriacontane - Extractable	%	73	88	2337701	94	92		2337701
Isobutylbenzene - Volatile	%	90	88	2337293	102	106		2337295

ND = Not detected
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: B0G5718
 Report Date: 2010/11/30

SLR Consulting (Canada) Ltd
 Client Project #: 210.5780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

SYD/ BED TIER1 (WATER)

Maxxam ID		HW8707		
Sampling Date		2010/11/16 04:15		
COC Number		B125842		
	Units	SCU12-001-MW	RDL	QC Batch

Petroleum Hydrocarbons				
Benzene	mg/L	ND	0.001	2337295
Toluene	mg/L	ND	0.001	2337295
Ethylbenzene	mg/L	ND	0.001	2337295
Xylene (Total)	mg/L	ND	0.002	2337295
C6 - C10 (less BTEX)	mg/L	ND	0.01	2337295
>C10-C16 Hydrocarbons	mg/L	ND	0.2	2337701
>C16-C21 Hydrocarbons	mg/L	ND	0.2	2337701
>C21-<C32 Hydrocarbons	mg/L	ND	0.5	2337701
Modified TPH (Tier1)	mg/L	ND	0.5	2334087
Reached Baseline at C32	mg/L	Yes	N/A	2337701
Hydrocarbon Resemblance	mg/L	NA	N/A	2337701
Surrogate Recovery (%)				
Isobutylbenzene - Extractable	%	89		2337701
n-Dotriacontane - Extractable	%	91		2337701
Isobutylbenzene - Volatile	%	103		2337295
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch				

Maxxam Job #: B0G5718
 Report Date: 2010/11/30

SLR Consulting (Canada) Ltd
 Client Project #: 210.5780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

MERCURY BY COLD VAPOUR AA (WATER)

Maxxam ID		HW8697	HW8701	HW8702	HW8703	HW8704		
Sampling Date		2010/11/16 15:45	2010/11/16 01:15	2010/11/16 03:05	2010/11/16 09:35	2010/11/16 10:00		
COC Number		B125842	B125842	B125842	B125842	B125842		
	Units	SCU31-002MW-B	SCU25-004-MW	SCU33-001-MW	SCU25-005-MWC	SCU25-005-MWB	RDL	QC Batch

Metals								
Total Mercury (Hg)	ug/L	ND	0.14	ND	ND	ND	0.013	2339620

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam ID		HW8705	HW8706	HW8707		
Sampling Date		2010/11/16 01:45	2010/11/16 07:50	2010/11/16 04:15		
COC Number		B125842	B125842	B125842		
	Units	SCU25-007-MW	SCU25-003-MW	SCU12-001-MW	RDL	QC Batch

Metals						
Total Mercury (Hg)	ug/L	ND	0.015	ND	0.013	2339620

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G5718
 Report Date: 2010/11/30

 SLR Consulting (Canada) Ltd
 Client Project #: 210.5780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		HW8697		HW8701	HW8702		HW8703		
Sampling Date		2010/11/16 15:45		2010/11/16 01:15	2010/11/16 03:05		2010/11/16 09:35		
COC Number		B125842		B125842	B125842		B125842		
	Units	SCU31-002MW-B	RDL	SCU25-004-MW	SCU33-001-MW	RDL	SCU25-005-MWC	RDL	QC Batch

Metals									
Dissolved Aluminum (Al)	ug/L	15	5.0	17	30	5.0	ND	50	2338282
Dissolved Antimony (Sb)	ug/L	ND	0.40	ND	ND	0.40	ND	4.0	2338282
Dissolved Arsenic (As)	ug/L	ND	0.60	ND	ND	0.60	ND	6.0	2338282
Dissolved Barium (Ba)	ug/L	29	0.40	160	100	0.40	54	4.0	2338282
Dissolved Beryllium (Be)	ug/L	ND	0.50	ND	ND	0.50	ND	5.0	2338282
Dissolved Bismuth (Bi)	ug/L	ND	2.0	ND	ND	2.0	ND	20	2338282
Dissolved Boron (B)	ug/L	520	100	ND	ND	100	ND	1000	2338282
Dissolved Cadmium (Cd)	ug/L	0.025	0.017	ND	ND	0.017	ND	0.17	2338282
Dissolved Calcium (Ca)	ug/L	510000	100	260000	230000	100	2600000	1000	2338282
Dissolved Chromium (Cr)	ug/L	ND	1.0	14	ND	1.0	ND	10	2338282
Dissolved Cobalt (Co)	ug/L	1.3	1.0	ND	ND	1.0	ND	10	2338282
Dissolved Copper (Cu)	ug/L	ND	2.0	ND	ND	2.0	ND	20	2338282
Dissolved Iron (Fe)	ug/L	ND	100	ND	ND	100	2000	1000	2338282
Dissolved Lead (Pb)	ug/L	ND	1.0	ND	ND	1.0	ND	10	2338282
Dissolved Lithium (Li)	ug/L	52	1.0	68	64	1.0	91	10	2338282
Dissolved Magnesium (Mg)	ug/L	110000	60	ND	ND	60	190000	600	2338282
Dissolved Manganese (Mn)	ug/L	520	4.0	ND	ND	4.0	1300	40	2338282
Dissolved Molybdenum (Mo)	ug/L	ND	4.0	12	63	4.0	ND	40	2338282
Dissolved Nickel (Ni)	ug/L	ND	3.0	ND	ND	3.0	ND	30	2338282
Dissolved Phosphorus (P)	ug/L	ND	100	ND	ND	100	ND	1000	2338282
Dissolved Potassium (K)	ug/L	21000	600	13000	21000	600	13000	6000	2338282
Dissolved Selenium (Se)	ug/L	ND	1.0	3.8	4.2	1.0	ND	10	2338282
Dissolved Silver (Ag)	ug/L	0.28	0.10	ND	ND	0.10	ND	1.0	2338282
Dissolved Sodium (Na)	ug/L	1500000	30000	31000	49000	300	350000	3000	2338282
Dissolved Strontium (Sr)	ug/L	19000	2.0	1400	1100	2.0	120000	20	2338282
Dissolved Thallium (Tl)	ug/L	ND	0.80	ND	ND	0.80	ND	8.0	2338282
Dissolved Tin (Sn)	ug/L	ND	20	ND	ND	20	ND	200	2338282
Dissolved Titanium (Ti)	ug/L	ND	3.0	ND	ND	3.0	ND	30	2338282
Dissolved Uranium (U)	ug/L	8.4	0.15	ND	ND	0.15	ND	1.5	2338282
Dissolved Vanadium (V)	ug/L	ND	2.0	2.1	2.4	2.0	ND	20	2338282

 ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G5718
 Report Date: 2010/11/30

SLR Consulting (Canada) Ltd
 Client Project #: 210.5780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		HW8697		HW8701	HW8702		HW8703		
Sampling Date		2010/11/16 15:45		2010/11/16 01:15	2010/11/16 03:05		2010/11/16 09:35		
COC Number		B125842		B125842	B125842		B125842		
	Units	SCU31-002MW-B	RDL	SCU25-004-MW	SCU33-001-MW	RDL	SCU25-005-MWC	RDL	QC Batch

Dissolved Zinc (Zn)	ug/L	ND	5.0	ND	ND	5.0	ND	50	2338282
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ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G5718
 Report Date: 2010/11/30

 SLR Consulting (Canada) Ltd
 Client Project #: 210.5780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		HW8704	HW8705	HW8706	HW8707		
Sampling Date		2010/11/16 10:00	2010/11/16 01:45	2010/11/16 07:50	2010/11/16 04:15		
COC Number		B125842	B125842	B125842	B125842		
	Units	SCU25-005-MWB	SCU25-007-MW	SCU25-003-MW	SCU12-001-MW	RDL	QC Batch
Metals							
Dissolved Aluminum (Al)	ug/L	ND	75	ND	ND	50	2338282
Dissolved Antimony (Sb)	ug/L	ND	ND	ND	ND	4.0	2338282
Dissolved Arsenic (As)	ug/L	ND	ND	ND	9.7	6.0	2338282
Dissolved Barium (Ba)	ug/L	110	140	330	22	4.0	2338282
Dissolved Beryllium (Be)	ug/L	ND	ND	ND	ND	5.0	2338282
Dissolved Bismuth (Bi)	ug/L	ND	ND	ND	ND	20	2338282
Dissolved Boron (B)	ug/L	ND	ND	ND	ND	1000	2338282
Dissolved Cadmium (Cd)	ug/L	ND	ND	ND	ND	0.17	2338282
Dissolved Calcium (Ca)	ug/L	4800000	190000	280000	550000	1000	2338282
Dissolved Chromium (Cr)	ug/L	ND	ND	ND	ND	10	2338282
Dissolved Cobalt (Co)	ug/L	11	ND	ND	ND	10	2338282
Dissolved Copper (Cu)	ug/L	ND	ND	ND	ND	20	2338282
Dissolved Iron (Fe)	ug/L	12000	ND	ND	ND	1000	2338282
Dissolved Lead (Pb)	ug/L	ND	ND	ND	ND	10	2338282
Dissolved Lithium (Li)	ug/L	200	94	56	49	10	2338282
Dissolved Magnesium (Mg)	ug/L	190000	ND	ND	21000	600	2338282
Dissolved Manganese (Mn)	ug/L	2000	ND	ND	ND	40	2338282
Dissolved Molybdenum (Mo)	ug/L	ND	110	ND	ND	40	2338282
Dissolved Nickel (Ni)	ug/L	44	ND	ND	ND	30	2338282
Dissolved Phosphorus (P)	ug/L	ND	ND	ND	ND	1000	2338282
Dissolved Potassium (K)	ug/L	23000	29000	13000	6600	6000	2338282
Dissolved Selenium (Se)	ug/L	ND	ND	12	38	10	2338282
Dissolved Silver (Ag)	ug/L	ND	ND	ND	ND	1.0	2338282
Dissolved Sodium (Na)	ug/L	1000000	34000	27000	130000	3000	2338282
Dissolved Strontium (Sr)	ug/L	230000	1400	1500	6800	20	2338282
Dissolved Thallium (Tl)	ug/L	ND	ND	ND	ND	8.0	2338282
Dissolved Tin (Sn)	ug/L	ND	ND	ND	ND	200	2338282
Dissolved Titanium (Ti)	ug/L	ND	ND	ND	ND	30	2338282
Dissolved Uranium (U)	ug/L	ND	ND	ND	26	1.5	2338282
Dissolved Vanadium (V)	ug/L	ND	ND	ND	ND	20	2338282
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

Maxxam Job #: B0G5718
 Report Date: 2010/11/30

SLR Consulting (Canada) Ltd
 Client Project #: 210.5780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		HW8704	HW8705	HW8706	HW8707		
Sampling Date		2010/11/16 10:00	2010/11/16 01:45	2010/11/16 07:50	2010/11/16 04:15		
COC Number		B125842	B125842	B125842	B125842		
	Units	SCU25-005-MWB	SCU25-007-MW	SCU25-003-MW	SCU12-001-MW	RDL	QC Batch
Dissolved Zinc (Zn)	ug/L	ND	ND	ND	ND	50	2338282
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

Maxxam Job #: B0G5718
 Report Date: 2010/11/30

 SLR Consulting (Canada) Ltd
 Client Project #: 210.5780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Maxxam ID		HW8697	HW8701	HW8702	HW8703		
Sampling Date		2010/11/16 15:45	2010/11/16 01:15	2010/11/16 03:05	2010/11/16 09:35		
COC Number		B125842	B125842	B125842	B125842		
	Units	SCU31-002MW-B	SCU25-004-MW	SCU33-001-MW	SCU25-005-MWC	RDL	QC Batch

Polyaromatic Hydrocarbons							
1-Methylnaphthalene	ug/L	ND	0.54	0.46	ND	0.05	2337345
2-Methylnaphthalene	ug/L	ND	0.46	0.24	ND	0.05	2337345
Acenaphthene	ug/L	ND	0.14	0.19	0.01	0.01	2337345
Acenaphthylene	ug/L	ND	0.12	0.28	0.01	0.01	2337345
Anthracene	ug/L	ND	0.19	0.20	ND	0.01	2337345
Benzo(a)anthracene	ug/L	ND	0.07	0.03	ND	0.01	2337345
Benzo(a)pyrene	ug/L	ND	ND	ND	ND	0.01	2337345
Benzo(b)fluoranthene	ug/L	ND	0.01	ND	ND	0.01	2337345
Benzo(g,h,i)perylene	ug/L	ND	ND	ND	ND	0.01	2337345
Benzo(k)fluoranthene	ug/L	ND	ND	ND	ND	0.01	2337345
Chrysene	ug/L	ND	0.07	0.03	ND	0.01	2337345
Dibenz(a,h)anthracene	ug/L	ND	ND	ND	ND	0.01	2337345
Fluoranthene	ug/L	0.01	0.73	1.1	0.02	0.01	2337345
Fluorene	ug/L	0.01	0.50	0.46	0.03	0.01	2337345
Indeno(1,2,3-cd)pyrene	ug/L	ND	ND	ND	ND	0.01	2337345
Naphthalene	ug/L	ND	4.0	0.8	ND	0.2	2337345
Perylene	ug/L	ND	ND	ND	ND	0.01	2337345
Phenanthrene	ug/L	0.02	0.59	0.84	0.05	0.01	2337345
Pyrene	ug/L	0.01	0.42	0.74	0.02	0.01	2337345
Surrogate Recovery (%)							
D10-Anthracene	%	83	73	71	73		2337345
D14-Terphenyl	%	103	110	105	95		2337345
D8-Acenaphthylene	%	92	98	99	85		2337345

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G5718
 Report Date: 2010/11/30

 SLR Consulting (Canada) Ltd
 Client Project #: 210.5780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Maxxam ID		HW8704		HW8705	HW8706	HW8707		
Sampling Date		2010/11/16 10:00		2010/11/16 01:45	2010/11/16 07:50	2010/11/16 04:15		
COC Number		B125842		B125842	B125842	B125842		
	Units	SCU25-005-MWB	QC Batch	SCU25-007-MW	SCU25-003-MW	SCU12-001-MW	RDL	QC Batch

Polyaromatic Hydrocarbons								
1-Methylnaphthalene	ug/L	ND	2337345	0.09	0.69	ND	0.05	2338189
2-Methylnaphthalene	ug/L	ND	2337345	0.08	1.0	ND	0.05	2338189
Acenaphthene	ug/L	ND	2337345	0.05	0.11	0.01	0.01	2338189
Acenaphthylene	ug/L	ND	2337345	0.05	0.26	ND	0.01	2338189
Anthracene	ug/L	ND	2337345	0.04	0.26	0.01	0.01	2338189
Benzo(a)anthracene	ug/L	ND	2337345	0.02	0.06	0.01	0.01	2338189
Benzo(a)pyrene	ug/L	ND	2337345	ND	0.02	ND	0.01	2338189
Benzo(b)fluoranthene	ug/L	ND	2337345	ND	0.01	ND	0.01	2338189
Benzo(g,h,i)perylene	ug/L	ND	2337345	ND	ND	ND	0.01	2338189
Benzo(k)fluoranthene	ug/L	ND	2337345	ND	0.01	ND	0.01	2338189
Chrysene	ug/L	ND	2337345	0.02	0.05	0.02	0.01	2338189
Dibenz(a,h)anthracene	ug/L	ND	2337345	ND	ND	ND	0.01	2338189
Fluoranthene	ug/L	ND	2337345	0.28	0.54	0.12	0.01	2338189
Fluorene	ug/L	0.01	2337345	0.07	0.66	0.03	0.01	2338189
Indeno(1,2,3-cd)pyrene	ug/L	ND	2337345	ND	ND	ND	0.01	2338189
Naphthalene	ug/L	ND	2337345	0.3	5.4	ND	0.2	2338189
Perylene	ug/L	ND	2337345	ND	ND	ND	0.01	2338189
Phenanthrene	ug/L	0.03	2337345	0.21	0.99	0.18	0.01	2338189
Pyrene	ug/L	ND	2337345	0.17	0.31	0.07	0.01	2338189
Surrogate Recovery (%)								
D10-Anthracene	%	83	2337345	75	70	84		2338189
D14-Terphenyl	%	101	2337345	86	80	99		2338189
D8-Acenaphthylene	%	89	2337345	83	74	95		2338189

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G5718
Report Date: 2010/11/30

SLR Consulting (Canada) Ltd
Client Project #: 210.5780.00000
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Your P.O. #: SYD147

GENERAL COMMENTS

Sample HW8703-01: Reporting limits for ICP-MS metals elevated due to dilution for interfering compounds.

Sample HW8704-01: Reporting limits for ICP-MS metals elevated due to dilution for interfering compounds.

Sample HW8705-01: Reporting limits for ICP-MS metals elevated due to dilution for interfering compounds.

Sample HW8706-01: Reporting limits for ICP-MS metals elevated due to dilution for interfering compounds.

Sample HW8707-01: Reporting limits for ICP-MS metals elevated due to dilution for interfering compounds.

Results relate only to the items tested.

SLR Consulting (Canada) Ltd
 Attention: Kelly Henderson
 Client Project #: 210.5780.00000
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Quality Assurance Report
 Maxxam Job Number: KB0G5718

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2337293 SHL	Matrix Spike	Isobutylbenzene - Volatile	2010/11/24		85	%	70 - 130
		Benzene	2010/11/24		109	%	70 - 130
		Toluene	2010/11/24		109	%	70 - 130
		Ethylbenzene	2010/11/24		104	%	70 - 130
	Spiked Blank	Xylene (Total)	2010/11/24		101	%	70 - 130
		Isobutylbenzene - Volatile	2010/11/24		80	%	70 - 130
		Benzene	2010/11/24		99	%	70 - 130
		Toluene	2010/11/24		101	%	70 - 130
	Method Blank	Ethylbenzene	2010/11/24		96	%	70 - 130
		Xylene (Total)	2010/11/24		99	%	70 - 130
		Isobutylbenzene - Volatile	2010/11/24		89	%	70 - 130
		Benzene	2010/11/24	ND, RDL=0.001		mg/L	
	RPD	Toluene	2010/11/24	ND, RDL=0.001		mg/L	
		Ethylbenzene	2010/11/24	ND, RDL=0.001		mg/L	
		Xylene (Total)	2010/11/24	ND, RDL=0.002		mg/L	
		C6 - C10 (less BTEX)	2010/11/24	ND, RDL=0.01		mg/L	
		Benzene	2010/11/24	NC		%	40
		Toluene	2010/11/24	NC		%	40
		Ethylbenzene	2010/11/24	NC		%	40
		Xylene (Total)	2010/11/24	NC		%	40
2337295 MSK	Matrix Spike [HW8706-01]	C6 - C10 (less BTEX)	2010/11/24	NC		%	40
		Isobutylbenzene - Volatile	2010/11/23		108	%	70 - 130
		Benzene	2010/11/23		117	%	70 - 130
		Toluene	2010/11/23		122	%	70 - 130
	Spiked Blank	Ethylbenzene	2010/11/23		117	%	70 - 130
		Xylene (Total)	2010/11/23		123	%	70 - 130
		Isobutylbenzene - Volatile	2010/11/23		102	%	70 - 130
		Benzene	2010/11/23		104	%	70 - 130
	Method Blank	Toluene	2010/11/23		112	%	70 - 130
		Ethylbenzene	2010/11/23		114	%	70 - 130
		Xylene (Total)	2010/11/23		116	%	70 - 130
		Isobutylbenzene - Volatile	2010/11/23		104	%	70 - 130
	RPD [HW8705-01]	Benzene	2010/11/23	ND, RDL=0.001		mg/L	
		Toluene	2010/11/23	ND, RDL=0.001		mg/L	
		Ethylbenzene	2010/11/23	ND, RDL=0.001		mg/L	
		Xylene (Total)	2010/11/23	ND, RDL=0.002		mg/L	
		C6 - C10 (less BTEX)	2010/11/23	ND, RDL=0.01		mg/L	
		Benzene	2010/11/23	NC		%	40
		Toluene	2010/11/23	NC		%	40
		Ethylbenzene	2010/11/23	NC		%	40
2337345 TML	Matrix Spike	Xylene (Total)	2010/11/23	NC		%	40
		C6 - C10 (less BTEX)	2010/11/23	NC		%	40
		D10-Anthracene	2010/11/23		76	%	30 - 130
		D14-Terphenyl	2010/11/23		95	%	30 - 130
		D8-Acenaphthylene	2010/11/23		88	%	30 - 130
		1-Methylnaphthalene	2010/11/23		91	%	50 - 130
		2-Methylnaphthalene	2010/11/23		79	%	50 - 130
		Acenaphthene	2010/11/23		102	%	50 - 130
		Acenaphthylene	2010/11/23		95	%	50 - 130
		Anthracene	2010/11/23		96	%	50 - 130
		Benzo(a)anthracene	2010/11/23		101	%	50 - 130
		Benzo(a)pyrene	2010/11/23		101	%	50 - 130
Benzo(b)fluoranthene	2010/11/23		87	%	50 - 130		
Benzo(g,h,i)perylene	2010/11/23		103	%	50 - 130		

SLR Consulting (Canada) Ltd
 Attention: Kelly Henderson
 Client Project #: 210.5780.00000
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Quality Assurance Report (Continued)

Maxxam Job Number: KB0G5718

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2337345 TML	Matrix Spike	Benzo(k)fluoranthene	2010/11/23		105	%	50 - 130
		Chrysene	2010/11/23		103	%	50 - 130
		Dibenz(a,h)anthracene	2010/11/23		92	%	50 - 130
		Fluoranthene	2010/11/23		105	%	50 - 130
		Fluorene	2010/11/23		97	%	50 - 130
		Indeno(1,2,3-cd)pyrene	2010/11/23		110	%	50 - 130
		Naphthalene	2010/11/23		90	%	50 - 130
		Perylene	2010/11/23		97	%	50 - 130
		Phenanthrene	2010/11/23		90	%	50 - 130
		Pyrene	2010/11/23		102	%	50 - 130
	Spiked Blank	D10-Anthracene	2010/11/23		71	%	30 - 130
		D14-Terphenyl	2010/11/23		88	%	30 - 130
		D8-Acenaphthylene	2010/11/23		92	%	30 - 130
		1-Methylnaphthalene	2010/11/23		94	%	50 - 130
		2-Methylnaphthalene	2010/11/23		87	%	50 - 130
		Acenaphthene	2010/11/23		109	%	50 - 130
		Acenaphthylene	2010/11/23		99	%	50 - 130
		Anthracene	2010/11/23		112	%	50 - 130
		Benzo(a)anthracene	2010/11/23		93	%	50 - 130
		Benzo(a)pyrene	2010/11/23		93	%	50 - 130
		Benzo(b)fluoranthene	2010/11/23		79	%	50 - 130
		Benzo(g,h,i)perylene	2010/11/23		99	%	50 - 130
		Benzo(k)fluoranthene	2010/11/23		104	%	50 - 130
		Chrysene	2010/11/23		95	%	50 - 130
		Dibenz(a,h)anthracene	2010/11/23		89	%	50 - 130
		Fluoranthene	2010/11/23		97	%	50 - 130
		Fluorene	2010/11/23		103	%	50 - 130
		Indeno(1,2,3-cd)pyrene	2010/11/23		101	%	50 - 130
		Naphthalene	2010/11/23		95	%	50 - 130
		Perylene	2010/11/23		90	%	50 - 130
		Phenanthrene	2010/11/23		92	%	50 - 130
		Pyrene	2010/11/23		95	%	50 - 130
	Method Blank	D10-Anthracene	2010/11/23		87	%	30 - 130
		D14-Terphenyl	2010/11/23		105	%	30 - 130
		D8-Acenaphthylene	2010/11/23		101	%	30 - 130
		1-Methylnaphthalene	2010/11/23	ND, RDL=0.05		ug/L	
		2-Methylnaphthalene	2010/11/23	ND, RDL=0.05		ug/L	
		Acenaphthene	2010/11/23	ND, RDL=0.01		ug/L	
		Acenaphthylene	2010/11/23	ND, RDL=0.01		ug/L	
		Anthracene	2010/11/23	ND, RDL=0.01		ug/L	
		Benzo(a)anthracene	2010/11/23	ND, RDL=0.01		ug/L	
		Benzo(a)pyrene	2010/11/23	ND, RDL=0.01		ug/L	
		Benzo(b)fluoranthene	2010/11/23	ND, RDL=0.01		ug/L	
		Benzo(g,h,i)perylene	2010/11/23	ND, RDL=0.01		ug/L	
		Benzo(k)fluoranthene	2010/11/23	ND, RDL=0.01		ug/L	
		Chrysene	2010/11/23	ND, RDL=0.01		ug/L	
		Dibenz(a,h)anthracene	2010/11/23	ND, RDL=0.01		ug/L	
		Fluoranthene	2010/11/23	ND, RDL=0.01		ug/L	
		Fluorene	2010/11/23	ND, RDL=0.01		ug/L	
		Indeno(1,2,3-cd)pyrene	2010/11/23	ND, RDL=0.01		ug/L	
		Naphthalene	2010/11/23	ND, RDL=0.2		ug/L	
		Perylene	2010/11/23	ND, RDL=0.01		ug/L	
		Phenanthrene	2010/11/23	ND, RDL=0.01		ug/L	
		Pyrene	2010/11/23	ND, RDL=0.01		ug/L	
	RPD	1-Methylnaphthalene	2010/11/23	NC		%	40

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 Attention: Kelly Henderson
 Client Project #: 210.5780.00000
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Quality Assurance Report (Continued)

Maxxam Job Number: KB0G5718

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2337345 TML	RPD	2-Methylnaphthalene	2010/11/23	NC		%	40
		Acenaphthene	2010/11/23	NC		%	40
		Acenaphthylene	2010/11/23	NC		%	40
		Anthracene	2010/11/23	NC		%	40
		Benzo(a)anthracene	2010/11/23	NC		%	40
		Benzo(a)pyrene	2010/11/23	NC		%	40
		Benzo(b)fluoranthene	2010/11/23	NC		%	40
		Benzo(g,h,i)perylene	2010/11/23	NC		%	40
		Benzo(k)fluoranthene	2010/11/23	NC		%	40
		Chrysene	2010/11/23	NC		%	40
		Dibenz(a,h)anthracene	2010/11/23	NC		%	40
		Fluoranthene	2010/11/23	NC		%	40
		Fluorene	2010/11/23	NC		%	40
		Indeno(1,2,3-cd)pyrene	2010/11/23	NC		%	40
		Naphthalene	2010/11/23	NC		%	40
		Perylene	2010/11/23	NC		%	40
		Phenanthrene	2010/11/23	21.1		%	40
Pyrene	2010/11/23	NC		%	40		
2337701 JHO	Matrix Spike [HW8702-01]	Isobutylbenzene - Extractable	2010/11/24		94	%	30 - 130
		n-Dotriacontane - Extractable	2010/11/24		101	%	30 - 130
		>C10-C16 Hydrocarbons	2010/11/24		107	%	70 - 130
	Spiked Blank	>C16-C21 Hydrocarbons	2010/11/24		100	%	70 - 130
		>C21-<C32 Hydrocarbons	2010/11/24		78	%	50 - 120
		Isobutylbenzene - Extractable	2010/11/24		95	%	30 - 130
		n-Dotriacontane - Extractable	2010/11/24		107	%	30 - 130
		>C10-C16 Hydrocarbons	2010/11/24		107	%	70 - 130
		>C16-C21 Hydrocarbons	2010/11/24		100	%	70 - 130
	Method Blank	>C21-<C32 Hydrocarbons	2010/11/24		80	%	50 - 120
		Isobutylbenzene - Extractable	2010/11/24		98	%	30 - 130
		n-Dotriacontane - Extractable	2010/11/24		96	%	30 - 130
		>C10-C16 Hydrocarbons	2010/11/24	ND, RDL=0.2		mg/L	
		>C16-C21 Hydrocarbons	2010/11/24	ND, RDL=0.2		mg/L	
		>C21-<C32 Hydrocarbons	2010/11/24	ND, RDL=0.5		mg/L	
	RPD [HW8701-01]	>C10-C16 Hydrocarbons	2010/11/24	NC		%	40
		>C16-C21 Hydrocarbons	2010/11/24	NC		%	40
>C21-<C32 Hydrocarbons		2010/11/24	NC		%	40	
2338189 TML	Matrix Spike	D10-Anthracene	2010/11/30		83	%	30 - 130
		D14-Terphenyl	2010/11/30		96	%	30 - 130
		D8-Acenaphthylene	2010/11/30		92	%	30 - 130
		1-Methylnaphthalene	2010/11/30		88	%	50 - 130
		2-Methylnaphthalene	2010/11/30		80	%	50 - 130
		Acenaphthene	2010/11/30		90	%	50 - 130
		Acenaphthylene	2010/11/30		86	%	50 - 130
		Anthracene	2010/11/30		80	%	50 - 130
		Benzo(a)anthracene	2010/11/30		88	%	50 - 130
		Benzo(a)pyrene	2010/11/30		101	%	50 - 130
		Benzo(b)fluoranthene	2010/11/30		104	%	50 - 130
		Benzo(g,h,i)perylene	2010/11/30		104	%	50 - 130
		Benzo(k)fluoranthene	2010/11/30		112	%	50 - 130
		Chrysene	2010/11/30		89	%	50 - 130
		Dibenz(a,h)anthracene	2010/11/30		107	%	50 - 130
		Fluoranthene	2010/11/30		96	%	50 - 130
		Fluorene	2010/11/30		94	%	50 - 130
Indeno(1,2,3-cd)pyrene	2010/11/30		105	%	50 - 130		

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 Attention: Kelly Henderson
 Client Project #: 210.5780.00000
 P.O. #: SYD147
 Project name: 2010 GWMP/HCP

Quality Assurance Report (Continued)

Maxxam Job Number: KB0G5718

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2338189 TML	Matrix Spike	Naphthalene	2010/11/30		83	%	50 - 130
		Perylene	2010/11/30		90	%	50 - 130
		Phenanthrene	2010/11/30		85	%	50 - 130
		Pyrene	2010/11/30		88	%	50 - 130
	Spiked Blank	D10-Anthracene	2010/11/24		106	%	30 - 130
		D14-Terphenyl	2010/11/24		97	%	30 - 130
		D8-Acenaphthylene	2010/11/24		94	%	30 - 130
		1-Methylnaphthalene	2010/11/24		85	%	50 - 130
		2-Methylnaphthalene	2010/11/24		76	%	50 - 130
		Acenaphthene	2010/11/24		98	%	50 - 130
		Acenaphthylene	2010/11/24		90	%	50 - 130
		Anthracene	2010/11/24		98	%	50 - 130
		Benzo(a)anthracene	2010/11/24		92	%	50 - 130
		Benzo(a)pyrene	2010/11/24		115	%	50 - 130
		Benzo(b)fluoranthene	2010/11/24		104	%	50 - 130
		Benzo(g,h,i)perylene	2010/11/24		118	%	50 - 130
		Benzo(k)fluoranthene	2010/11/24		129	%	50 - 130
		Chrysene	2010/11/24		101	%	50 - 130
		Dibenz(a,h)anthracene	2010/11/24		110	%	50 - 130
		Fluoranthene	2010/11/24		96	%	50 - 130
		Fluorene	2010/11/24		95	%	50 - 130
		Indeno(1,2,3-cd)pyrene	2010/11/24		117	%	50 - 130
		Naphthalene	2010/11/24		85	%	50 - 130
		Perylene	2010/11/24		108	%	50 - 130
		Phenanthrene	2010/11/24		88	%	50 - 130
		Pyrene	2010/11/24		94	%	50 - 130
	Method Blank	D10-Anthracene	2010/11/30		83	%	30 - 130
		D14-Terphenyl	2010/11/30		96	%	30 - 130
		D8-Acenaphthylene	2010/11/30		105	%	30 - 130
		1-Methylnaphthalene	2010/11/30	ND, RDL=0.05		ug/L	
		2-Methylnaphthalene	2010/11/30	ND, RDL=0.05		ug/L	
		Acenaphthene	2010/11/30	ND, RDL=0.01		ug/L	
		Acenaphthylene	2010/11/30	ND, RDL=0.01		ug/L	
		Anthracene	2010/11/30	ND, RDL=0.01		ug/L	
		Benzo(a)anthracene	2010/11/30	ND, RDL=0.01		ug/L	
		Benzo(a)pyrene	2010/11/30	ND, RDL=0.01		ug/L	
		Benzo(b)fluoranthene	2010/11/30	ND, RDL=0.01		ug/L	
		Benzo(g,h,i)perylene	2010/11/30	ND, RDL=0.01		ug/L	
		Benzo(k)fluoranthene	2010/11/30	ND, RDL=0.01		ug/L	
		Chrysene	2010/11/30	ND, RDL=0.01		ug/L	
		Dibenz(a,h)anthracene	2010/11/30	ND, RDL=0.01		ug/L	
		Fluoranthene	2010/11/30	ND, RDL=0.01		ug/L	
		Fluorene	2010/11/30	ND, RDL=0.01		ug/L	
		Indeno(1,2,3-cd)pyrene	2010/11/30	ND, RDL=0.01		ug/L	
		Naphthalene	2010/11/30	ND, RDL=0.2		ug/L	
		Perylene	2010/11/30	ND, RDL=0.01		ug/L	
		Phenanthrene	2010/11/30	ND, RDL=0.01		ug/L	
		Pyrene	2010/11/30	ND, RDL=0.01		ug/L	
	RPD	1-Methylnaphthalene	2010/11/30	NC		%	40
		2-Methylnaphthalene	2010/11/30	NC		%	40
		Acenaphthene	2010/11/30	NC		%	40
		Acenaphthylene	2010/11/30	NC		%	40
		Anthracene	2010/11/30	NC		%	40
		Benzo(a)anthracene	2010/11/30	NC		%	40
		Benzo(a)pyrene	2010/11/30	NC		%	40

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 Attention: Kelly Henderson
 Client Project #: 210.5780.00000
 P.O. #: SYD147
 Project name: 2010 GWMP/HCP

Quality Assurance Report (Continued)

Maxxam Job Number: KB0G5718

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2338189 TML	RPD	Benzo(b)fluoranthene	2010/11/30	NC		%	40	
		Benzo(g,h,i)perylene	2010/11/30	NC		%	40	
		Benzo(k)fluoranthene	2010/11/30	NC		%	40	
		Chrysene	2010/11/30	NC		%	40	
		Dibenz(a,h)anthracene	2010/11/30	NC		%	40	
		Fluoranthene	2010/11/30	NC		%	40	
		Fluorene	2010/11/30	NC		%	40	
		Indeno(1,2,3-cd)pyrene	2010/11/30	NC		%	40	
		Naphthalene	2010/11/30	NC		%	40	
		Perylene	2010/11/30	NC		%	40	
		Phenanthrene	2010/11/30	NC		%	40	
		Pyrene	2010/11/30	NC		%	40	
		2338282 MBU	Matrix Spike	Dissolved Aluminum (Al)	2010/11/23		106	%
Dissolved Antimony (Sb)	2010/11/23				106	%	75 - 125	
Dissolved Arsenic (As)	2010/11/23				92	%	75 - 125	
Dissolved Barium (Ba)	2010/11/23				107	%	75 - 125	
Dissolved Beryllium (Be)	2010/11/23				111	%	75 - 125	
Dissolved Bismuth (Bi)	2010/11/23				90	%	75 - 125	
Dissolved Boron (B)	2010/11/23				97	%	75 - 125	
Dissolved Cadmium (Cd)	2010/11/23				111	%	75 - 125	
Dissolved Calcium (Ca)	2010/11/23				NC	%	75 - 125	
Dissolved Chromium (Cr)	2010/11/23				108	%	75 - 125	
Dissolved Cobalt (Co)	2010/11/23				107	%	75 - 125	
Dissolved Copper (Cu)	2010/11/23				101	%	75 - 125	
Dissolved Iron (Fe)	2010/11/23				95	%	75 - 125	
Dissolved Lead (Pb)	2010/11/23				108	%	75 - 125	
Dissolved Lithium (Li)	2010/11/23				93	%	75 - 125	
Dissolved Magnesium (Mg)	2010/11/23				102	%	75 - 125	
Dissolved Manganese (Mn)	2010/11/23				103	%	75 - 125	
Dissolved Molybdenum (Mo)	2010/11/23				111	%	75 - 125	
Dissolved Nickel (Ni)	2010/11/23				105	%	75 - 125	
Dissolved Phosphorus (P)	2010/11/23				109	%	75 - 125	
Dissolved Potassium (K)	2010/11/23				96	%	75 - 125	
Dissolved Selenium (Se)	2010/11/23				64 (1)	%	75 - 125	
Dissolved Silver (Ag)	2010/11/23				82	%	75 - 125	
Dissolved Sodium (Na)	2010/11/23				118	%	75 - 125	
Dissolved Strontium (Sr)	2010/11/23				112	%	75 - 125	
Dissolved Thallium (Tl)	2010/11/23				109	%	75 - 125	
Dissolved Tin (Sn)	2010/11/23				108	%	75 - 125	
Dissolved Titanium (Ti)	2010/11/23				94	%	75 - 125	
Dissolved Uranium (U)	2010/11/23				115	%	75 - 125	
Dissolved Vanadium (V)	2010/11/23				106	%	75 - 125	
Dissolved Zinc (Zn)	2010/11/23				97	%	75 - 125	
QC Standard	Dissolved Aluminum (Al)			2010/11/23		116	%	75 - 125
	Dissolved Antimony (Sb)			2010/11/23		119	%	75 - 125
	Dissolved Arsenic (As)			2010/11/23		90	%	75 - 125
	Dissolved Barium (Ba)			2010/11/23		101	%	75 - 125
	Dissolved Beryllium (Be)	2010/11/23		94	%	75 - 125		
	Dissolved Bismuth (Bi)	2010/11/23		117	%	75 - 125		
	Dissolved Boron (B)	2010/11/23		101	%	75 - 125		
	Dissolved Cadmium (Cd)	2010/11/23		104	%	75 - 125		
	Dissolved Calcium (Ca)	2010/11/23		93	%	75 - 125		
	Dissolved Chromium (Cr)	2010/11/23		103	%	75 - 125		
	Dissolved Cobalt (Co)	2010/11/23		107	%	75 - 125		
	Dissolved Copper (Cu)	2010/11/23		102	%	75 - 125		

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits		
2338282 MBU	QC Standard	Dissolved Lead (Pb)	2010/11/23		105	%	75 - 125		
		Dissolved Lithium (Li)	2010/11/23		101	%	75 - 125		
		Dissolved Magnesium (Mg)	2010/11/23		98	%	75 - 125		
		Dissolved Manganese (Mn)	2010/11/23		108	%	75 - 125		
		Dissolved Molybdenum (Mo)	2010/11/23		109	%	75 - 125		
		Dissolved Nickel (Ni)	2010/11/23		105	%	75 - 125		
		Dissolved Potassium (K)	2010/11/23		94	%	75 - 125		
		Dissolved Selenium (Se)	2010/11/23		94	%	75 - 125		
		Dissolved Silver (Ag)	2010/11/23		105	%	75 - 125		
		Dissolved Sodium (Na)	2010/11/23		97	%	75 - 125		
		Dissolved Strontium (Sr)	2010/11/23		99	%	75 - 125		
		Dissolved Thallium (Tl)	2010/11/23		107	%	75 - 125		
		Dissolved Vanadium (V)	2010/11/23		106	%	75 - 125		
		Dissolved Zinc (Zn)	2010/11/23		100	%	75 - 125		
		Spiked Blank		Dissolved Aluminum (Al)	2010/11/23		105	%	75 - 125
				Dissolved Antimony (Sb)	2010/11/23		106	%	75 - 125
				Dissolved Arsenic (As)	2010/11/23		91	%	75 - 125
				Dissolved Barium (Ba)	2010/11/23		107	%	75 - 125
				Dissolved Beryllium (Be)	2010/11/23		100	%	75 - 125
				Dissolved Bismuth (Bi)	2010/11/23		104	%	75 - 125
				Dissolved Boron (B)	2010/11/23		105	%	75 - 125
				Dissolved Cadmium (Cd)	2010/11/23		112	%	75 - 125
				Dissolved Calcium (Ca)	2010/11/23		99	%	75 - 125
				Dissolved Chromium (Cr)	2010/11/23		110	%	75 - 125
				Dissolved Cobalt (Co)	2010/11/23		109	%	75 - 125
				Dissolved Copper (Cu)	2010/11/23		106	%	75 - 125
				Dissolved Iron (Fe)	2010/11/23		91	%	75 - 125
Dissolved Lead (Pb)	2010/11/23				108	%	75 - 125		
Dissolved Lithium (Li)	2010/11/23				100	%	75 - 125		
Dissolved Magnesium (Mg)	2010/11/23				99	%	75 - 125		
Dissolved Manganese (Mn)	2010/11/23				105	%	75 - 125		
Dissolved Molybdenum (Mo)	2010/11/23				110	%	75 - 125		
Dissolved Nickel (Ni)	2010/11/23				108	%	75 - 125		
Dissolved Phosphorus (P)	2010/11/23				104	%	75 - 125		
Dissolved Potassium (K)	2010/11/23				102	%	75 - 125		
Dissolved Selenium (Se)	2010/11/23				106	%	75 - 125		
Dissolved Silver (Ag)	2010/11/23				91	%	75 - 125		
Dissolved Sodium (Na)	2010/11/23				102	%	75 - 125		
Dissolved Strontium (Sr)	2010/11/23				106	%	75 - 125		
Dissolved Thallium (Tl)	2010/11/23				110	%	75 - 125		
Dissolved Tin (Sn)	2010/11/23				106	%	75 - 125		
Dissolved Titanium (Ti)	2010/11/23		94	%	75 - 125				
Dissolved Uranium (U)	2010/11/23		111	%	75 - 125				
Dissolved Vanadium (V)	2010/11/23		109	%	75 - 125				
Dissolved Zinc (Zn)	2010/11/23		105	%	75 - 125				
Method Blank		Dissolved Aluminum (Al)	2010/11/23	ND, RDL=5.0		ug/L			
		Dissolved Antimony (Sb)	2010/11/23	ND, RDL=0.40		ug/L			
		Dissolved Arsenic (As)	2010/11/23	ND, RDL=0.60		ug/L			
		Dissolved Barium (Ba)	2010/11/23	ND, RDL=0.40		ug/L			
		Dissolved Beryllium (Be)	2010/11/23	ND, RDL=0.50		ug/L			
		Dissolved Bismuth (Bi)	2010/11/23	ND, RDL=2.0		ug/L			
		Dissolved Boron (B)	2010/11/23	ND, RDL=100		ug/L			
		Dissolved Cadmium (Cd)	2010/11/23	ND, RDL=0.017		ug/L			
		Dissolved Calcium (Ca)	2010/11/23	ND, RDL=100		ug/L			
Dissolved Chromium (Cr)	2010/11/23	ND, RDL=1.0		ug/L					

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2338282	MBU	Method Blank					
		Dissolved Cobalt (Co)	2010/11/23	ND, RDL=1.0		ug/L	
		Dissolved Copper (Cu)	2010/11/23	ND, RDL=2.0		ug/L	
		Dissolved Iron (Fe)	2010/11/23	ND, RDL=100		ug/L	
		Dissolved Lead (Pb)	2010/11/23	ND, RDL=1.0		ug/L	
		Dissolved Lithium (Li)	2010/11/23	ND, RDL=1.0		ug/L	
		Dissolved Magnesium (Mg)	2010/11/23	ND, RDL=60		ug/L	
		Dissolved Manganese (Mn)	2010/11/23	ND, RDL=4.0		ug/L	
		Dissolved Molybdenum (Mo)	2010/11/23	ND, RDL=4.0		ug/L	
		Dissolved Nickel (Ni)	2010/11/23	ND, RDL=3.0		ug/L	
		Dissolved Phosphorus (P)	2010/11/23	ND, RDL=100		ug/L	
		Dissolved Potassium (K)	2010/11/23	ND, RDL=600		ug/L	
		Dissolved Selenium (Se)	2010/11/23	ND, RDL=1.0		ug/L	
		Dissolved Silver (Ag)	2010/11/23	ND, RDL=0.10		ug/L	
		Dissolved Sodium (Na)	2010/11/23	ND, RDL=300		ug/L	
		Dissolved Strontium (Sr)	2010/11/23	ND, RDL=2.0		ug/L	
		Dissolved Thallium (Tl)	2010/11/23	ND, RDL=0.80		ug/L	
		Dissolved Tin (Sn)	2010/11/23	ND, RDL=20		ug/L	
		Dissolved Titanium (Ti)	2010/11/23	ND, RDL=3.0		ug/L	
		Dissolved Uranium (U)	2010/11/23	ND, RDL=0.15		ug/L	
		Dissolved Vanadium (V)	2010/11/23	ND, RDL=2.0		ug/L	
		Dissolved Zinc (Zn)	2010/11/23	ND, RDL=5.0		ug/L	
	RPD	Dissolved Aluminum (Al)	2010/11/23	0.8		%	25
		Dissolved Antimony (Sb)	2010/11/23	NC		%	25
		Dissolved Arsenic (As)	2010/11/23	0.1		%	25
		Dissolved Barium (Ba)	2010/11/23	0.9		%	25
		Dissolved Beryllium (Be)	2010/11/23	NC		%	25
		Dissolved Bismuth (Bi)	2010/11/23	NC		%	25
		Dissolved Boron (B)	2010/11/23	NC		%	25
		Dissolved Cadmium (Cd)	2010/11/23	NC		%	25
		Dissolved Calcium (Ca)	2010/11/23	1.6		%	25
		Dissolved Chromium (Cr)	2010/11/23	NC		%	25
		Dissolved Cobalt (Co)	2010/11/23	NC		%	25
		Dissolved Copper (Cu)	2010/11/23	NC		%	25
		Dissolved Iron (Fe)	2010/11/23	NC		%	25
		Dissolved Lead (Pb)	2010/11/23	NC		%	25
		Dissolved Lithium (Li)	2010/11/23	NC		%	25
		Dissolved Magnesium (Mg)	2010/11/23	NC		%	25
		Dissolved Manganese (Mn)	2010/11/23	NC		%	25
		Dissolved Molybdenum (Mo)	2010/11/23	1.5		%	25
		Dissolved Nickel (Ni)	2010/11/23	0.5		%	25
		Dissolved Phosphorus (P)	2010/11/23	NC		%	25
		Dissolved Potassium (K)	2010/11/23	3.0		%	25
		Dissolved Selenium (Se)	2010/11/23	8.7		%	25
		Dissolved Silver (Ag)	2010/11/23	NC		%	25
		Dissolved Sodium (Na)	2010/11/23	0.3		%	25
		Dissolved Strontium (Sr)	2010/11/23	0.7		%	25
		Dissolved Thallium (Tl)	2010/11/23	NC		%	25
		Dissolved Tin (Sn)	2010/11/23	NC		%	25
		Dissolved Titanium (Ti)	2010/11/23	NC		%	25
		Dissolved Uranium (U)	2010/11/23	NC		%	25
		Dissolved Vanadium (V)	2010/11/23	NC		%	25
		Dissolved Zinc (Zn)	2010/11/23	NC		%	25
2339620	BMI	Matrix Spike	2010/11/23		99	%	80 - 120
		QC Standard	2010/11/23		99	%	80 - 120
		Spiked Blank	2010/11/23		94	%	80 - 120

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2339620 BMI	Method Blank	Total Mercury (Hg)	2010/11/23	ND, RDL=0.013		ug/L	
	RPD	Total Mercury (Hg)	2010/11/23	NC		%	25
2339717 MSK	Matrix Spike	1,2-Dichlorobenzene	2010/11/25		105	%	70 - 130
		1,3-Dichlorobenzene	2010/11/25		105	%	70 - 130
		1,4-Dichlorobenzene	2010/11/25		105	%	70 - 130
		Chlorobenzene	2010/11/25		111	%	70 - 130
		1,1,1-Trichloroethane	2010/11/25		116	%	70 - 130
		1,1,2,2-Tetrachloroethane	2010/11/25		100	%	70 - 130
		1,1,2-Trichloroethane	2010/11/25		105	%	70 - 130
		1,1-Dichloroethane	2010/11/25		111	%	70 - 130
		1,1-Dichloroethylene	2010/11/25		126	%	70 - 130
		1,2-Dichloroethane	2010/11/25		105	%	70 - 130
		1,2-Dichloropropane	2010/11/25		105	%	70 - 130
		4-Bromofluorobenzene	2010/11/25		103	%	70 - 130
		Benzene	2010/11/25		111	%	70 - 130
		Bromodichloromethane	2010/11/25		100	%	70 - 130
		Bromoform	2010/11/25		79	%	70 - 130
		Bromomethane	2010/11/25		100	%	70 - 130
		Carbon Tetrachloride	2010/11/25		116	%	70 - 130
		Chloroethane	2010/11/25		121	%	70 - 130
		Chloroform	2010/11/25		111	%	70 - 130
		Chloromethane	2010/11/25		121	%	70 - 130
		cis-1,2-Dichloroethylene	2010/11/25		115	%	70 - 130
		cis-1,3-Dichloropropene	2010/11/25		95	%	70 - 130
		D4-1,2-Dichloroethane	2010/11/25		101	%	70 - 130
		D8-Toluene	2010/11/25		101	%	70 - 130
		Dibromochloromethane	2010/11/25		89	%	70 - 130
		Ethylbenzene	2010/11/25		111	%	70 - 130
		Ethylene Dibromide	2010/11/25		105	%	70 - 130
		Methylene Chloride(Dichloromethane)	2010/11/25		111	%	70 - 130
		o-Xylene	2010/11/25		110	%	70 - 130
		p+m-Xylene	2010/11/25		115	%	70 - 130
		Styrene	2010/11/25		110	%	70 - 130
		Tetrachloroethylene	2010/11/25		111	%	70 - 130
		Toluene	2010/11/25		111	%	70 - 130
		trans-1,2-Dichloroethylene	2010/11/25		116	%	70 - 130
		trans-1,3-Dichloropropene	2010/11/25		74	%	70 - 130
		Trichloroethylene	2010/11/25		121	%	70 - 130
		Trichlorofluoromethane (FREON 11)	2010/11/25		116	%	70 - 130
		Vinyl Chloride	2010/11/25		121	%	70 - 130
	Spiked Blank	1,2-Dichlorobenzene	2010/11/25		93	%	70 - 130
		1,3-Dichlorobenzene	2010/11/25		96	%	70 - 130
		1,4-Dichlorobenzene	2010/11/25		93	%	70 - 130
		Chlorobenzene	2010/11/25		98	%	70 - 130
		1,1,1-Trichloroethane	2010/11/25		103	%	70 - 130
		1,1,2,2-Tetrachloroethane	2010/11/25		87	%	70 - 130
		1,1,2-Trichloroethane	2010/11/25		96	%	70 - 130
		1,1-Dichloroethane	2010/11/25		101	%	70 - 130
		1,1-Dichloroethylene	2010/11/25		110	%	70 - 130
		1,2-Dichloroethane	2010/11/25		96	%	70 - 130
		1,2-Dichloropropane	2010/11/25		100	%	70 - 130
		4-Bromofluorobenzene	2010/11/25		103	%	70 - 130
		Benzene	2010/11/25		101	%	70 - 130
		Bromodichloromethane	2010/11/25		88	%	70 - 130
		Bromoform	2010/11/25		67 (2)	%	70 - 130

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2339717 MSK	Spiked Blank	Bromomethane	2010/11/25		83	%	70 - 130
		Carbon Tetrachloride	2010/11/25		97	%	70 - 130
		Chloroethane	2010/11/25		106	%	70 - 130
		Chloroform	2010/11/25		100	%	70 - 130
		Chloromethane	2010/11/25		110	%	70 - 130
		cis-1,2-Dichloroethylene	2010/11/25		104	%	70 - 130
		cis-1,3-Dichloropropene	2010/11/25		88	%	70 - 130
		D4-1,2-Dichloroethane	2010/11/25		102	%	70 - 130
		D8-Toluene	2010/11/25		101	%	70 - 130
		Dibromochloromethane	2010/11/25		81	%	70 - 130
		Ethylbenzene	2010/11/25		100	%	70 - 130
		Ethylene Dibromide	2010/11/25		95	%	70 - 130
		Methylene Chloride(Dichloromethane)	2010/11/25		103	%	70 - 130
		o-Xylene	2010/11/25		101	%	70 - 130
		p+m-Xylene	2010/11/25		103	%	70 - 130
		Styrene	2010/11/25		97	%	70 - 130
		Tetrachloroethylene	2010/11/25		100	%	70 - 130
		Toluene	2010/11/25		99	%	70 - 130
		trans-1,2-Dichloroethylene	2010/11/25		105	%	70 - 130
		trans-1,3-Dichloropropene	2010/11/25		73	%	70 - 130
		Trichloroethylene	2010/11/25		106	%	70 - 130
		Trichlorofluoromethane (FREON 11)	2010/11/25		102	%	70 - 130
		Vinyl Chloride	2010/11/25		108	%	70 - 130
	Method Blank	1,2-Dichlorobenzene	2010/11/25	ND, RDL=0.5		ug/L	
		1,3-Dichlorobenzene	2010/11/25	ND, RDL=1		ug/L	
		1,4-Dichlorobenzene	2010/11/25	ND, RDL=1		ug/L	
		Chlorobenzene	2010/11/25	ND, RDL=1		ug/L	
		1,1,1-Trichloroethane	2010/11/25	ND, RDL=1		ug/L	
		1,1,2,2-Tetrachloroethane	2010/11/25	ND, RDL=1		ug/L	
		1,1,2-Trichloroethane	2010/11/25	ND, RDL=1		ug/L	
		1,1-Dichloroethane	2010/11/25	ND, RDL=2		ug/L	
		1,1-Dichloroethylene	2010/11/25	ND, RDL=0.5		ug/L	
		1,2-Dichloroethane	2010/11/25	ND, RDL=1		ug/L	
		1,2-Dichloropropane	2010/11/25	ND, RDL=1		ug/L	
		4-Bromofluorobenzene	2010/11/25		100	%	70 - 130
		Benzene	2010/11/25	ND, RDL=1		ug/L	
		Bromodichloromethane	2010/11/25	ND, RDL=1		ug/L	
		Bromoform	2010/11/25	ND, RDL=1		ug/L	
		Bromomethane	2010/11/25	ND, RDL=3		ug/L	
		Carbon Tetrachloride	2010/11/25	ND, RDL=1		ug/L	
		Chloroethane	2010/11/25	ND, RDL=8		ug/L	
		Chloroform	2010/11/25	ND, RDL=1		ug/L	
		Chloromethane	2010/11/25	ND, RDL=8		ug/L	
		cis-1,2-Dichloroethylene	2010/11/25	ND, RDL=2		ug/L	
		cis-1,3-Dichloropropene	2010/11/25	ND, RDL=2		ug/L	
		D4-1,2-Dichloroethane	2010/11/25		100	%	70 - 130
		D8-Toluene	2010/11/25		99	%	70 - 130
		Dibromochloromethane	2010/11/25	ND, RDL=1		ug/L	
		Ethylbenzene	2010/11/25	ND, RDL=1		ug/L	
		Ethylene Dibromide	2010/11/25	ND, RDL=1		ug/L	
		Methylene Chloride(Dichloromethane)	2010/11/25	ND, RDL=3		ug/L	
		o-Xylene	2010/11/25	ND, RDL=1		ug/L	
		p+m-Xylene	2010/11/25	ND, RDL=2		ug/L	
		Styrene	2010/11/25	ND, RDL=1		ug/L	
		Tetrachloroethylene	2010/11/25	ND, RDL=1		ug/L	

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2339717 MSK	Method Blank	Toluene	2010/11/25	ND, RDL=1		ug/L	
		trans-1,2-Dichloroethylene	2010/11/25	ND, RDL=2		ug/L	
		trans-1,3-Dichloropropene	2010/11/25	ND, RDL=1		ug/L	
		Trichloroethylene	2010/11/25	ND, RDL=1		ug/L	
		Trichlorofluoromethane (FREON 11)	2010/11/25	ND, RDL=8		ug/L	
		Vinyl Chloride	2010/11/25	ND, RDL=0.5		ug/L	
	RPD	1,2-Dichlorobenzene	2010/11/25	NC		%	40
		1,3-Dichlorobenzene	2010/11/25	NC		%	40
		1,4-Dichlorobenzene	2010/11/25	NC		%	40
		Chlorobenzene	2010/11/25	NC		%	40
		1,1,1-Trichloroethane	2010/11/25	NC		%	40
		1,1,2,2-Tetrachloroethane	2010/11/25	NC		%	40
		1,1,2-Trichloroethane	2010/11/25	NC		%	40
		1,1-Dichloroethane	2010/11/25	NC		%	40
		1,1-Dichloroethylene	2010/11/25	NC		%	40
		1,2-Dichloroethane	2010/11/25	NC		%	40
		1,2-Dichloropropane	2010/11/25	NC		%	40
		Benzene	2010/11/25	NC		%	40
		Bromodichloromethane	2010/11/25	NC		%	40
		Bromoform	2010/11/25	NC		%	40
		Bromomethane	2010/11/25	NC		%	40
		Carbon Tetrachloride	2010/11/25	NC		%	40
		Chloroethane	2010/11/25	NC		%	40
		Chloroform	2010/11/25	NC		%	40
		Chloromethane	2010/11/25	NC		%	40
		cis-1,2-Dichloroethylene	2010/11/25	NC		%	40
		cis-1,3-Dichloropropene	2010/11/25	NC		%	40
		Dibromochloromethane	2010/11/25	NC		%	40
		Ethylbenzene	2010/11/25	NC		%	40
		Ethylene Dibromide	2010/11/25	NC		%	40
		Methylene Chloride(Dichloromethane)	2010/11/25	NC		%	40
		o-Xylene	2010/11/25	NC		%	40
		p+m-Xylene	2010/11/25	NC		%	40
		Styrene	2010/11/25	NC		%	40
		Tetrachloroethylene	2010/11/25	NC		%	40
		Toluene	2010/11/25	NC		%	40
		trans-1,2-Dichloroethylene	2010/11/25	NC		%	40
		trans-1,3-Dichloropropene	2010/11/25	NC		%	40
		Trichloroethylene	2010/11/25	NC		%	40
		Trichlorofluoromethane (FREON 11)	2010/11/25	NC		%	40
		Vinyl Chloride	2010/11/25	NC		%	40

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.

Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.

NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

(1) Matrix Spike: <10 % of compounds in multi-component analysis are in violation.

(2) Data within statistical control.

Validation Signature Page

Maxxam Job #: B0G5718

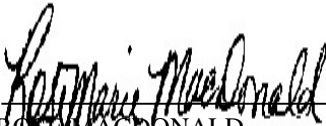
The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



ALAN STEWART, Scientific Specialist (Organics)



MICHELLE MOMBOURQUETTE, Laboratory Manager



ROSE MACDONALD,

=====

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Your P.O. #: SYD147
 Your Project #: 210.5780.00000
 Site: 2010 GWMP/HCP
 Your C.O.C. #: B125844

Attention: Kelly Henderson
 SLR Consulting (Canada) Ltd
 45 Wabina Crt., Suite 107B
 PO Box 791, Station A
 Sydney, NS
 B1P 6K5

Report Date: 2010/11/30

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B0G5873
Received: 2010/11/18, 11:48

Sample Matrix: Water
 # Samples Received: 11

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
TEH in Water (PIRI)	4	2010/11/23	2010/11/24	ATL SOP-00151 R5	Based on ATL PIRI
TEH in Water (PIRI)	7	2010/11/23	2010/11/25	ATL SOP-00151 R5	Based on ATL PIRI
Mercury - Total (CVAA,LL)	11	2010/11/24	2010/11/23	ATL SOP-00160 R5	Based on EPA245.1
Elements by ICPMS - low dissolved	1	N/A	2010/11/23	ATL SOP 00161 R6	Based on EPA6020A
Elements by ICPMS - low dissolved	9	N/A	2010/11/24	ATL SOP 00161 R6	Based on EPA6020A
Elements by ICPMS - low dissolved	1	N/A	2010/11/25	ATL SOP 00161 R6	Based on EPA6020A
PAH in Water by GC/MS (SIM)	3	2010/11/23	2010/11/24	ATL SOP 00147 R5	Based on EPA 8270C
PAH in Water by GC/MS (SIM)	2	2010/11/23	2010/11/25	ATL SOP 00147 R5	Based on EPA 8270C
PAH in Water by GC/MS (SIM)	6	2010/11/23	2010/11/30	ATL SOP 00147 R5	Based on EPA 8270C
VPH in Water (PIRI) (1)	11	2010/11/22	2010/11/23	ATL SOP 00118 R4	Based on Atl. PIRI
ModTPH (T1) Calc. for Water	11	N/A	2010/11/26	ATL SOP-00151 R4	Based on Atl PIRI

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bedford

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

TRACY MACLEOD-FLOYD,
 Email: TMacLeod@maxxam.ca
 Phone# (902) 567 1255

=====

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 1

Maxxam Job #: B0G5873
 Report Date: 2010/11/30

 SLR Consulting (Canada) Ltd
 Client Project #: 210.5780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

SYD/ BED TIER1 (WATER)

Maxxam ID		HW9360	HW9362	HW9363	HW9367		
Sampling Date		2010/11/17 11:45	2010/11/17 01:20	2010/11/17 12:55	2010/11/17		
COC Number		B125844	B125844	B125844	B125844		
	Units	SCU20-014-MW	SCU20-016-MW	SCU20-015-MW	SCU20-017-MW	RDL	QC Batch

Petroleum Hydrocarbons							
Benzene	mg/L	0.003	0.001	0.003	0.002	0.001	2337295
Toluene	mg/L	0.002	ND	0.001	0.002	0.001	2337295
Ethylbenzene	mg/L	ND	ND	ND	ND	0.001	2337295
Xylene (Total)	mg/L	0.005	ND	ND	0.005	0.002	2337295
C6 - C10 (less BTEX)	mg/L	ND	ND	ND	ND	0.01	2337295
>C10-C16 Hydrocarbons	mg/L	0.3	0.3	ND	0.4	0.2	2337701
>C16-C21 Hydrocarbons	mg/L	ND	0.3	ND	ND	0.2	2337701
>C21-<C32 Hydrocarbons	mg/L	ND	ND	ND	ND	0.5	2337701
Modified TPH (Tier1)	mg/L	ND	0.5	ND	ND	0.5	2334087
Reached Baseline at C32	mg/L	Yes	Yes	Yes	Yes	N/A	2337701
Hydrocarbon Resemblance	mg/L	SEE NOTE (1)	SEE NOTE (1)	NA	SEE NOTE (1)	N/A	2337701
Surrogate Recovery (%)							
Isobutylbenzene - Extractable	%	84	91	96	104		2337701
n-Dotriacontane - Extractable	%	87	98	102	105		2337701
Isobutylbenzene - Volatile	%	106	104	104	99		2337295

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 (1) Fuel Oil Range

Maxxam Job #: B0G5873
 Report Date: 2010/11/30

 SLR Consulting (Canada) Ltd
 Client Project #: 210.5780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

SYD/ BED TIER1 (WATER)

Maxxam ID		HW9368	HW9369	HW9370	HW9371		
Sampling Date		2010/11/17	2010/11/17 04:15	2010/11/17 04:15	2010/11/17 08:55		
COC Number		B125844	B125844	B125844	B125844		
	Units	SCU25-002-MW	FD5	SCU18-011-MW	SCU25-001-MW	RDL	QC Batch

Petroleum Hydrocarbons							
Benzene	mg/L	ND	ND	ND	ND	0.001	2337295
Toluene	mg/L	ND	ND	ND	ND	0.001	2337295
Ethylbenzene	mg/L	ND	ND	ND	ND	0.001	2337295
Xylene (Total)	mg/L	ND	ND	ND	ND	0.002	2337295
C6 - C10 (less BTEX)	mg/L	ND	ND	ND	ND	0.01	2337295
>C10-C16 Hydrocarbons	mg/L	ND	ND	ND	ND	0.2	2337701
>C16-C21 Hydrocarbons	mg/L	ND	ND	ND	ND	0.2	2337701
>C21-<C32 Hydrocarbons	mg/L	ND	ND	ND	ND	0.5	2337701
Modified TPH (Tier1)	mg/L	ND	ND	ND	ND	0.5	2334087
Reached Baseline at C32	mg/L	Yes	Yes	Yes	Yes	N/A	2337701
Hydrocarbon Resemblance	mg/L	NA	NA	NA	NA	N/A	2337701
Surrogate Recovery (%)							
Isobutylbenzene - Extractable	%	92	97	104	108		2337701
n-Dotriacontane - Extractable	%	96	100	103	99		2337701
Isobutylbenzene - Volatile	%	107	104	106	106		2337295

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G5873
 Report Date: 2010/11/30

 SLR Consulting (Canada) Ltd
 Client Project #: 210.5780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

SYD/ BED TIER1 (WATER)

Maxxam ID		HW9376	HW9379	HW9380		
Sampling Date		2010/11/17 03:45	2010/11/17 11:20	2010/11/17 02:50		
COC Number		B125844	B125844	B125844		
	Units	SCU18-010-MW	SCU20-013-MW	SCU20-018-MW	RDL	QC Batch

Petroleum Hydrocarbons						
Benzene	mg/L	0.002	0.016	ND	0.001	2337295
Toluene	mg/L	0.002	0.028	ND	0.001	2337295
Ethylbenzene	mg/L	ND	0.012	ND	0.001	2337295
Xylene (Total)	mg/L	0.007	0.081	ND	0.002	2337295
C6 - C10 (less BTEX)	mg/L	ND	0.13	ND	0.01	2337295
>C10-C16 Hydrocarbons	mg/L	ND	2.9	ND	0.2	2337701
>C16-C21 Hydrocarbons	mg/L	ND	1.6	ND	0.2	2337701
>C21-<C32 Hydrocarbons	mg/L	ND	1.5	ND	0.5	2337701
Modified TPH (Tier1)	mg/L	ND	6.2	ND	0.5	2334087
Reached Baseline at C32	mg/L	Yes	Yes	Yes	N/A	2337701
Hydrocarbon Resemblance	mg/L	NA	SEE NOTE (1)	NA	N/A	2337701
Surrogate Recovery (%)						
Isobutylbenzene - Extractable	%	93	129	122		2337701
n-Dotriacontane - Extractable	%	94	129	130		2337701
Isobutylbenzene - Volatile	%	105	96	106		2337295

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 (1) Fuel Oil Fraction

Maxxam Job #: B0G5873
Report Date: 2010/11/30

SLR Consulting (Canada) Ltd
Client Project #: 210.5780.00000
Project name: 2010 GWMP/HCP
Your P.O. #: SYD147

MERCURY BY COLD VAPOUR AA (WATER)

Maxxam ID		HW9360	HW9362		HW9363	HW9367		
Sampling Date		2010/11/17 11:45	2010/11/17 01:20		2010/11/17 12:55	2010/11/17		
COC Number		B125844	B125844		B125844	B125844		
	Units	SCU20-014-MW	SCU20-016-MW	QC Batch	SCU20-015-MW	SCU20-017-MW	RDL	QC Batch

Metals								
Total Mercury (Hg)	ug/L	0.071	ND	2339620	ND	ND	0.013	2339634
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch								

Maxxam ID		HW9368	HW9369	HW9370	HW9371	HW9376		
Sampling Date		2010/11/17	2010/11/17 04:15	2010/11/17 04:15	2010/11/17 08:55	2010/11/17 03:45		
COC Number		B125844	B125844	B125844	B125844	B125844		
	Units	SCU25-002-MW	FD5	SCU18-011-MW	SCU25-001-MW	SCU18-010-MW	RDL	QC Batch

Metals								
Total Mercury (Hg)	ug/L	ND	ND	ND	ND	0.025	0.013	2339634
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch								

Maxxam ID		HW9379	HW9380		
Sampling Date		2010/11/17 11:20	2010/11/17 02:50		
COC Number		B125844	B125844		
	Units	SCU20-013-MW	SCU20-018-MW	RDL	QC Batch

Metals					
Total Mercury (Hg)	ug/L	0.026	ND	0.013	2339634
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch					

Maxxam Job #: B0G5873
 Report Date: 2010/11/30

 SLR Consulting (Canada) Ltd
 Client Project #: 210.5780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		HW9360		HW9362	HW9363	HW9367		
Sampling Date		2010/11/17 11:45		2010/11/17 01:20	2010/11/17 12:55	2010/11/17		
COC Number		B125844		B125844	B125844	B125844		
	Units	SCU20-014-MW	QC Batch	SCU20-016-MW	SCU20-015-MW	SCU20-017-MW	RDL	QC Batch

Metals								
Dissolved Aluminum (Al)	ug/L	85	2338282	26	24	230	5.0	2339504
Dissolved Antimony (Sb)	ug/L	ND	2338282	ND	ND	ND	0.40	2339504
Dissolved Arsenic (As)	ug/L	9.2	2338282	6.4	13	6.4	0.60	2339504
Dissolved Barium (Ba)	ug/L	34	2338282	30	20	59	0.40	2339504
Dissolved Beryllium (Be)	ug/L	ND	2338282	ND	ND	ND	0.50	2339504
Dissolved Bismuth (Bi)	ug/L	ND	2338282	ND	ND	ND	2.0	2339504
Dissolved Boron (B)	ug/L	110	2338282	130	ND	ND	100	2339504
Dissolved Cadmium (Cd)	ug/L	ND	2338282	0.024	ND	ND	0.017	2339504
Dissolved Calcium (Ca)	ug/L	160000	2338282	130000	280000	160000	100	2339504
Dissolved Chromium (Cr)	ug/L	ND	2338282	ND	ND	3.1	1.0	2339504
Dissolved Cobalt (Co)	ug/L	ND	2338282	ND	ND	ND	1.0	2339504
Dissolved Copper (Cu)	ug/L	ND	2338282	ND	ND	ND	2.0	2339504
Dissolved Iron (Fe)	ug/L	ND	2338282	ND	ND	ND	100	2339504
Dissolved Lead (Pb)	ug/L	ND	2338282	ND	ND	ND	1.0	2339504
Dissolved Lithium (Li)	ug/L	3.3	2338282	25	3.6	15	1.0	2339504
Dissolved Magnesium (Mg)	ug/L	ND	2338282	2800	440	ND	60	2339504
Dissolved Manganese (Mn)	ug/L	ND	2338282	4.3	15	ND	4.0	2339504
Dissolved Molybdenum (Mo)	ug/L	63	2338282	53	49	30	4.0	2339504
Dissolved Nickel (Ni)	ug/L	23	2338282	38	3.3	8.6	3.0	2339504
Dissolved Phosphorus (P)	ug/L	240	2338282	ND	ND	ND	100	2339504
Dissolved Potassium (K)	ug/L	20000	2338282	24000	14000	13000	600	2339504
Dissolved Selenium (Se)	ug/L	11	2338282	3.4	1.1	14	1.0	2339504
Dissolved Silver (Ag)	ug/L	ND	2338282	ND	ND	ND	0.10	2339504
Dissolved Sodium (Na)	ug/L	58000	2338282	39000	50000	32000	300	2339504
Dissolved Strontium (Sr)	ug/L	530	2338282	730	690	820	2.0	2339504
Dissolved Thallium (Tl)	ug/L	ND	2338282	ND	ND	ND	0.80	2339504
Dissolved Tin (Sn)	ug/L	ND	2338282	ND	ND	ND	20	2339504
Dissolved Titanium (Ti)	ug/L	ND	2338282	ND	ND	ND	3.0	2339504
Dissolved Uranium (U)	ug/L	ND	2338282	ND	ND	ND	0.15	2339504
Dissolved Vanadium (V)	ug/L	7.3	2338282	11	5.8	3.1	2.0	2339504

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G5873
 Report Date: 2010/11/30

SLR Consulting (Canada) Ltd
 Client Project #: 210.5780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		HW9360		HW9362	HW9363	HW9367		
Sampling Date		2010/11/17 11:45		2010/11/17 01:20	2010/11/17 12:55	2010/11/17		
COC Number		B125844		B125844	B125844	B125844		
	Units	SCU20-014-MW	QC Batch	SCU20-016-MW	SCU20-015-MW	SCU20-017-MW	RDL	QC Batch

Dissolved Zinc (Zn)	ug/L	ND	2338282	6.0	ND	ND	5.0	2339504
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ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G5873
 Report Date: 2010/11/30

 SLR Consulting (Canada) Ltd
 Client Project #: 210.5780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		HW9368	HW9369	HW9370	HW9371		
Sampling Date		2010/11/17	2010/11/17 04:15	2010/11/17 04:15	2010/11/17 08:55		
COC Number		B125844	B125844	B125844	B125844		
	Units	SCU25-002-MW	FD5	SCU18-011-MW	SCU25-001-MW	RDL	QC Batch

Metals							
Dissolved Aluminum (Al)	ug/L	47	17	16	35	5.0	2339504
Dissolved Antimony (Sb)	ug/L	ND	ND	ND	ND	0.40	2339504
Dissolved Arsenic (As)	ug/L	1.1	3.5	3.4	ND	0.60	2339504
Dissolved Barium (Ba)	ug/L	180	22	22	150	0.40	2339504
Dissolved Beryllium (Be)	ug/L	ND	ND	ND	ND	0.50	2339504
Dissolved Bismuth (Bi)	ug/L	ND	ND	ND	ND	2.0	2339504
Dissolved Boron (B)	ug/L	ND	170	180	ND	100	2339504
Dissolved Cadmium (Cd)	ug/L	ND	ND	ND	ND	0.017	2339504
Dissolved Calcium (Ca)	ug/L	200000	150000	150000	220000	100	2339504
Dissolved Chromium (Cr)	ug/L	ND	ND	ND	1.3	1.0	2339504
Dissolved Cobalt (Co)	ug/L	ND	ND	ND	ND	1.0	2339504
Dissolved Copper (Cu)	ug/L	ND	ND	ND	ND	2.0	2339504
Dissolved Iron (Fe)	ug/L	ND	1300	1300	ND	100	2339504
Dissolved Lead (Pb)	ug/L	ND	ND	ND	ND	1.0	2339504
Dissolved Lithium (Li)	ug/L	44	74	71	54	1.0	2339504
Dissolved Magnesium (Mg)	ug/L	ND	36000	39000	ND	60	2339504
Dissolved Manganese (Mn)	ug/L	ND	330	330	ND	4.0	2339504
Dissolved Molybdenum (Mo)	ug/L	11	9.1	8.9	7.4	4.0	2339504
Dissolved Nickel (Ni)	ug/L	ND	ND	ND	ND	3.0	2339504
Dissolved Phosphorus (P)	ug/L	ND	ND	ND	ND	100	2339504
Dissolved Potassium (K)	ug/L	12000	9400	9800	13000	600	2339504
Dissolved Selenium (Se)	ug/L	15	2.2	1.4	17	1.0	2339504
Dissolved Silver (Ag)	ug/L	ND	ND	ND	ND	0.10	2339504
Dissolved Sodium (Na)	ug/L	35000	17000	17000	37000	300	2339504
Dissolved Strontium (Sr)	ug/L	920	540	560	1100	2.0	2339504
Dissolved Thallium (Tl)	ug/L	ND	ND	ND	ND	0.80	2339504
Dissolved Tin (Sn)	ug/L	ND	ND	ND	ND	20	2339504
Dissolved Titanium (Ti)	ug/L	ND	ND	ND	ND	3.0	2339504
Dissolved Uranium (U)	ug/L	ND	ND	ND	ND	0.15	2339504
Dissolved Vanadium (V)	ug/L	4.9	ND	ND	2.4	2.0	2339504

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G5873
 Report Date: 2010/11/30

SLR Consulting (Canada) Ltd
 Client Project #: 210.5780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		HW9368	HW9369	HW9370	HW9371		
Sampling Date		2010/11/17	2010/11/17 04:15	2010/11/17 04:15	2010/11/17 08:55		
COC Number		B125844	B125844	B125844	B125844		
	Units	SCU25-002-MW	FD5	SCU18-011-MW	SCU25-001-MW	RDL	QC Batch

Dissolved Zinc (Zn)	ug/L	ND	ND	ND	ND	5.0	2339504
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ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G5873
 Report Date: 2010/11/30

 SLR Consulting (Canada) Ltd
 Client Project #: 210.5780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		HW9376		HW9379		HW9380		
Sampling Date		2010/11/17 03:45		2010/11/17 11:20		2010/11/17 02:50		
COC Number		B125844		B125844		B125844		
	Units	SCU18-010-MW	RDL	SCU20-013-MW	RDL	SCU20-018-MW	RDL	QC Batch

Metals								
Dissolved Aluminum (Al)	ug/L	33	5.0	170	5.0	14	5.0	2339504
Dissolved Antimony (Sb)	ug/L	ND	0.40	ND	0.40	ND	0.40	2339504
Dissolved Arsenic (As)	ug/L	6.5	0.60	11	0.60	2.4	0.60	2339504
Dissolved Barium (Ba)	ug/L	33	0.40	87	0.40	37	0.40	2339504
Dissolved Beryllium (Be)	ug/L	ND	0.50	ND	0.50	ND	0.50	2339504
Dissolved Bismuth (Bi)	ug/L	ND	2.0	ND	2.0	ND	2.0	2339504
Dissolved Boron (B)	ug/L	ND	100	ND	100	ND	100	2339504
Dissolved Cadmium (Cd)	ug/L	ND	0.017	0.19	0.017	ND	0.017	2339504
Dissolved Calcium (Ca)	ug/L	250000	100	140000	100	290000	100	2339504
Dissolved Chromium (Cr)	ug/L	1.7	1.0	ND	1.0	ND	1.0	2339504
Dissolved Cobalt (Co)	ug/L	ND	1.0	ND	1.0	ND	1.0	2339504
Dissolved Copper (Cu)	ug/L	ND	2.0	ND	2.0	ND	2.0	2339504
Dissolved Iron (Fe)	ug/L	120	100	ND	100	ND	100	2339504
Dissolved Lead (Pb)	ug/L	ND	1.0	ND	1.0	ND	1.0	2339504
Dissolved Lithium (Li)	ug/L	9.8	1.0	3.2	1.0	24	1.0	2339504
Dissolved Magnesium (Mg)	ug/L	880	60	ND	60	21000	60	2339504
Dissolved Manganese (Mn)	ug/L	ND	4.0	ND	4.0	46	4.0	2339504
Dissolved Molybdenum (Mo)	ug/L	28	4.0	30	4.0	6.9	4.0	2339504
Dissolved Nickel (Ni)	ug/L	ND	3.0	40	3.0	ND	3.0	2339504
Dissolved Phosphorus (P)	ug/L	ND	100	ND	100	ND	100	2339504
Dissolved Potassium (K)	ug/L	11000	600	40000	600	6000	600	2339504
Dissolved Selenium (Se)	ug/L	9.8	1.0	9.1	1.0	4.3	1.0	2339504
Dissolved Silver (Ag)	ug/L	ND	0.10	ND	0.10	ND	0.10	2339504
Dissolved Sodium (Na)	ug/L	23000	300	190000	3000	10000	300	2339504
Dissolved Strontium (Sr)	ug/L	1000	2.0	1800	2.0	1700	2.0	2339504
Dissolved Thallium (Tl)	ug/L	ND	0.80	ND	0.80	ND	0.80	2339504
Dissolved Tin (Sn)	ug/L	ND	20	ND	20	ND	20	2339504
Dissolved Titanium (Ti)	ug/L	ND	3.0	ND	3.0	ND	3.0	2339504
Dissolved Uranium (U)	ug/L	ND	0.15	ND	0.15	1.7	0.15	2339504
Dissolved Vanadium (V)	ug/L	130	2.0	46	2.0	10	2.0	2339504

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G5873
 Report Date: 2010/11/30

SLR Consulting (Canada) Ltd
 Client Project #: 210.5780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		HW9376		HW9379		HW9380		
Sampling Date		2010/11/17 03:45		2010/11/17 11:20		2010/11/17 02:50		
COC Number		B125844		B125844		B125844		
	Units	SCU18-010-MW	RDL	SCU20-013-MW	RDL	SCU20-018-MW	RDL	QC Batch

Dissolved Zinc (Zn)	ug/L	ND	5.0	ND	5.0	ND	5.0	2339504
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ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G5873
 Report Date: 2010/11/30

 SLR Consulting (Canada) Ltd
 Client Project #: 210.5780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Maxxam ID		HW9360	HW9362		HW9363		HW9367		
Sampling Date		2010/11/17 11:45	2010/11/17 01:20		2010/11/17 12:55		2010/11/17		
COC Number		B125844	B125844		B125844		B125844		
	Units	SCU20-014-MW	SCU20-016-MW	RDL	SCU20-015-MW	RDL	SCU20-017-MW	RDL	QC Batch

Polyaromatic Hydrocarbons									
1-Methylnaphthalene	ug/L	4.4	3.5	0.05	2.9	0.05	9.2	0.05	2338189
2-Methylnaphthalene	ug/L	6.3	3.8	0.05	3.8	0.05	9.8	0.05	2338189
Acenaphthene	ug/L	0.93	1.9	0.01	0.91	0.01	2.6	0.01	2338189
Acenaphthylene	ug/L	3.4	1.2	0.01	1.3	0.01	6.4	0.01	2338189
Anthracene	ug/L	0.85	0.27	0.01	1.1	0.01	0.88	0.01	2338189
Benzo(a)anthracene	ug/L	0.13	0.01	0.01	0.18	0.01	0.19	0.01	2338189
Benzo(a)pyrene	ug/L	0.10	ND	0.01	0.14	0.01	0.15	0.01	2338189
Benzo(b)fluoranthene	ug/L	0.06	ND	0.01	0.08	0.01	0.10	0.01	2338189
Benzo(g,h,i)perylene	ug/L	0.05	ND	0.01	0.05	0.01	0.07	0.01	2338189
Benzo(k)fluoranthene	ug/L	0.05	ND	0.01	0.06	0.01	0.07	0.01	2338189
Chrysene	ug/L	0.14	0.02	0.01	0.20	0.01	0.19	0.01	2338189
Dibenz(a,h)anthracene	ug/L	0.01	ND	0.01	0.02	0.01	0.02	0.01	2338189
Fluoranthene	ug/L	0.80	0.27	0.01	1.0	0.01	1.4	0.01	2338189
Fluorene	ug/L	2.6	1.8	0.01	2.5	0.01	4.9	0.01	2338189
Indeno(1,2,3-cd)pyrene	ug/L	0.04	ND	0.01	0.05	0.01	0.07	0.01	2338189
Naphthalene	ug/L	25 (1)	39 (1)	2	13	0.2	52 (1)	2	2338189
Perylene	ug/L	0.02	ND	0.01	0.03	0.01	0.04	0.01	2338189
Phenanthrene	ug/L	2.9	1.2	0.01	4.4	0.01	5.2	0.01	2338189
Pyrene	ug/L	0.56	0.22	0.01	0.69	0.01	0.87	0.01	2338189
Surrogate Recovery (%)									
D10-Anthracene	%	70	73		109		100		2338189
D14-Terphenyl	%	70	92		105		109		2338189
D8-Acenaphthylene	%	71	71		100		103		2338189

ND = Not detected

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

(1) PAH RDL(s) elevated due to sample dilution.

Maxxam Job #: B0G5873
 Report Date: 2010/11/30

 SLR Consulting (Canada) Ltd
 Client Project #: 210.5780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Maxxam ID		HW9368	HW9369	HW9370	HW9371		
Sampling Date		2010/11/17	2010/11/17 04:15	2010/11/17 04:15	2010/11/17 08:55		
COC Number		B125844	B125844	B125844	B125844		
	Units	SCU25-002-MW	FD5	SCU18-011-MW	SCU25-001-MW	RDL	QC Batch

Polyaromatic Hydrocarbons							
1-Methylnaphthalene	ug/L	0.89	0.06	0.05	0.31	0.05	2338189
2-Methylnaphthalene	ug/L	1.5	0.07	0.06	0.28	0.05	2338189
Acenaphthene	ug/L	0.66	0.03	0.02	0.10	0.01	2338189
Acenaphthylene	ug/L	0.32	0.04	0.03	0.22	0.01	2338189
Anthracene	ug/L	0.46	0.01	0.01	0.15	0.01	2338189
Benzo(a)anthracene	ug/L	0.05	ND	ND	0.02	0.01	2338189
Benzo(a)pyrene	ug/L	0.01	ND	ND	ND	0.01	2338189
Benzo(b)fluoranthene	ug/L	0.01	ND	ND	ND	0.01	2338189
Benzo(g,h,i)perylene	ug/L	ND	ND	ND	ND	0.01	2338189
Benzo(k)fluoranthene	ug/L	ND	ND	ND	ND	0.01	2338189
Chrysene	ug/L	0.07	ND	ND	0.02	0.01	2338189
Dibenz(a,h)anthracene	ug/L	ND	ND	ND	ND	0.01	2338189
Fluoranthene	ug/L	0.82	0.03	0.02	0.56	0.01	2338189
Fluorene	ug/L	0.95	0.04	0.04	0.35	0.01	2338189
Indeno(1,2,3-cd)pyrene	ug/L	ND	ND	ND	ND	0.01	2338189
Naphthalene	ug/L	9.1	0.3	0.3	1.7	0.2	2338189
Perylene	ug/L	ND	ND	ND	ND	0.01	2338189
Phenanthrene	ug/L	1.7	0.05	0.05	0.80	0.01	2338189
Pyrene	ug/L	0.50	0.02	0.02	0.30	0.01	2338189
Surrogate Recovery (%)							
D10-Anthracene	%	103	84	88	79		2338189
D14-Terphenyl	%	104	90	89	87		2338189
D8-Acenaphthylene	%	97	85	92	91		2338189

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G5873
 Report Date: 2010/11/30

 SLR Consulting (Canada) Ltd
 Client Project #: 210.5780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Maxxam ID		HW9376		HW9379		HW9380		
Sampling Date		2010/11/17 03:45		2010/11/17 11:20		2010/11/17 02:50		
COC Number		B125844		B125844		B125844		
	Units	SCU18-010-MW	RDL	SCU20-013-MW	RDL	SCU20-018-MW	RDL	QC Batch

Polyaromatic Hydrocarbons								
1-Methylnaphthalene	ug/L	1.3	0.05	39 (1)	3	ND	0.05	2338189
2-Methylnaphthalene	ug/L	0.23	0.05	59 (1)	3	ND	0.05	2338189
Acenaphthene	ug/L	0.60	0.01	6.9	0.01	0.03	0.01	2338189
Acenaphthylene	ug/L	0.48	0.01	26 (1)	0.5	0.02	0.01	2338189
Anthracene	ug/L	0.35	0.01	2.7	0.01	0.02	0.01	2338189
Benzo(a)anthracene	ug/L	0.06	0.01	0.18	0.01	ND	0.01	2338189
Benzo(a)pyrene	ug/L	0.03	0.01	0.11	0.01	ND	0.01	2338189
Benzo(b)fluoranthene	ug/L	0.02	0.01	0.07	0.01	ND	0.01	2338189
Benzo(g,h,i)perylene	ug/L	0.01	0.01	0.03	0.01	ND	0.01	2338189
Benzo(k)fluoranthene	ug/L	0.02	0.01	0.05	0.01	ND	0.01	2338189
Chrysene	ug/L	0.08	0.01	0.19	0.01	ND	0.01	2338189
Dibenz(a,h)anthracene	ug/L	ND	0.01	0.02	0.01	ND	0.01	2338189
Fluoranthene	ug/L	0.64	0.01	1.6	0.01	0.02	0.01	2338189
Fluorene	ug/L	1.2	0.01	14	0.01	0.03	0.01	2338189
Indeno(1,2,3-cd)pyrene	ug/L	0.01	0.01	0.03	0.01	ND	0.01	2338189
Naphthalene	ug/L	ND	0.2	670 (1)	10	ND	0.2	2338189
Perylene	ug/L	ND	0.01	0.02	0.01	ND	0.01	2338189
Phenanthrene	ug/L	0.93	0.01	12	0.01	0.04	0.01	2338189
Pyrene	ug/L	0.55	0.01	0.98	0.01	0.02	0.01	2338189
Surrogate Recovery (%)								
D10-Anthracene	%	100		98		88		2338189
D14-Terphenyl	%	100		109		80		2338189
D8-Acenaphthylene	%	92		104		85		2338189

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 (1) PAH RDL(s) elevated due to sample dilution.

Maxxam Job #: B0G5873
Report Date: 2010/11/30

SLR Consulting (Canada) Ltd
Client Project #: 210.5780.00000
Project name: 2010 GWMP/HCP
Your P.O. #: SYD147

GENERAL COMMENTS

Results relate only to the items tested.

SLR Consulting (Canada) Ltd
 Attention: Kelly Henderson
 Client Project #: 210.5780.00000
 P.O. #: SYD147
 Project name: 2010 GWMP/HCP

Quality Assurance Report
 Maxxam Job Number: KB0G5873

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2337295 MSK	Matrix Spike	Isobutylbenzene - Volatile	2010/11/23		108	%	70 - 130
		Benzene	2010/11/23		117	%	70 - 130
		Toluene	2010/11/23		122	%	70 - 130
		Ethylbenzene	2010/11/23		117	%	70 - 130
	Spiked Blank	Xylene (Total)	2010/11/23		123	%	70 - 130
		Isobutylbenzene - Volatile	2010/11/23		102	%	70 - 130
		Benzene	2010/11/23		104	%	70 - 130
		Toluene	2010/11/23		112	%	70 - 130
	Method Blank	Ethylbenzene	2010/11/23		114	%	70 - 130
		Xylene (Total)	2010/11/23		116	%	70 - 130
		Isobutylbenzene - Volatile	2010/11/23		104	%	70 - 130
		Benzene	2010/11/23	ND, RDL=0.001		mg/L	
	RPD	Toluene	2010/11/23	ND, RDL=0.001		mg/L	
		Ethylbenzene	2010/11/23	ND, RDL=0.001		mg/L	
		Xylene (Total)	2010/11/23	ND, RDL=0.002		mg/L	
		C6 - C10 (less BTEX)	2010/11/23	ND, RDL=0.01		mg/L	
		Benzene	2010/11/23	NC		%	40
		Toluene	2010/11/23	NC		%	40
		Ethylbenzene	2010/11/23	NC		%	40
		Xylene (Total)	2010/11/23	NC		%	40
2337701 JHO	Matrix Spike	C6 - C10 (less BTEX)	2010/11/23	NC		%	40
		Isobutylbenzene - Extractable	2010/11/24		94	%	30 - 130
		n-Dotriacontane - Extractable	2010/11/24		101	%	30 - 130
		>C10-C16 Hydrocarbons	2010/11/24		107	%	70 - 130
		>C16-C21 Hydrocarbons	2010/11/24		100	%	70 - 130
	Spiked Blank	>C21-<C32 Hydrocarbons	2010/11/24		78	%	50 - 120
		Isobutylbenzene - Extractable	2010/11/24		95	%	30 - 130
		n-Dotriacontane - Extractable	2010/11/24		107	%	30 - 130
		>C10-C16 Hydrocarbons	2010/11/24		107	%	70 - 130
		>C16-C21 Hydrocarbons	2010/11/24		100	%	70 - 130
	Method Blank	>C21-<C32 Hydrocarbons	2010/11/24		80	%	50 - 120
		Isobutylbenzene - Extractable	2010/11/24		98	%	30 - 130
		n-Dotriacontane - Extractable	2010/11/24		96	%	30 - 130
		>C10-C16 Hydrocarbons	2010/11/24	ND, RDL=0.2		mg/L	
		>C16-C21 Hydrocarbons	2010/11/24	ND, RDL=0.2		mg/L	
	RPD	>C21-<C32 Hydrocarbons	2010/11/24	ND, RDL=0.5		mg/L	
		>C10-C16 Hydrocarbons	2010/11/24	NC		%	40
		>C16-C21 Hydrocarbons	2010/11/24	NC		%	40
		>C21-<C32 Hydrocarbons	2010/11/24	NC		%	40
		2338189 TML	Matrix Spike	D10-Anthracene	2010/11/30		83
D14-Terphenyl	2010/11/30				96	%	30 - 130
D8-Acenaphthylene	2010/11/30				92	%	30 - 130
1-Methylnaphthalene	2010/11/30				88	%	50 - 130
2-Methylnaphthalene	2010/11/30				80	%	50 - 130
Acenaphthene	2010/11/30				90	%	50 - 130
Acenaphthylene	2010/11/30				86	%	50 - 130
Anthracene	2010/11/30				80	%	50 - 130
Benzo(a)anthracene	2010/11/30				88	%	50 - 130
Benzo(a)pyrene	2010/11/30				101	%	50 - 130
Benzo(b)fluoranthene	2010/11/30				104	%	50 - 130
Benzo(g,h,i)perylene	2010/11/30				104	%	50 - 130
Benzo(k)fluoranthene	2010/11/30				112	%	50 - 130
Chrysene	2010/11/30				89	%	50 - 130
Dibenz(a,h)anthracene	2010/11/30				107	%	50 - 130
Fluoranthene	2010/11/30		96	%	50 - 130		

SLR Consulting (Canada) Ltd
 Attention: Kelly Henderson
 Client Project #: 210.5780.00000
 P.O. #: SYD147
 Project name: 2010 GWMP/HCP

Quality Assurance Report (Continued)

Maxxam Job Number: KB0G5873

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits		
2338189 TML	Matrix Spike	Fluorene	2010/11/30		94	%	50 - 130		
		Indeno(1,2,3-cd)pyrene	2010/11/30		105	%	50 - 130		
		Naphthalene	2010/11/30		83	%	50 - 130		
		Perylene	2010/11/30		90	%	50 - 130		
		Phenanthrene	2010/11/30		85	%	50 - 130		
	Spiked Blank		Pyrene	2010/11/30		88	%	50 - 130	
			D10-Anthracene	2010/11/24		106	%	30 - 130	
			D14-Terphenyl	2010/11/24		97	%	30 - 130	
			D8-Acenaphthylene	2010/11/24		94	%	30 - 130	
			1-Methylnaphthalene	2010/11/24		85	%	50 - 130	
			2-Methylnaphthalene	2010/11/24		76	%	50 - 130	
			Acenaphthene	2010/11/24		98	%	50 - 130	
			Acenaphthylene	2010/11/24		90	%	50 - 130	
			Anthracene	2010/11/24		98	%	50 - 130	
			Benzo(a)anthracene	2010/11/24		92	%	50 - 130	
			Benzo(a)pyrene	2010/11/24		115	%	50 - 130	
			Benzo(b)fluoranthene	2010/11/24		104	%	50 - 130	
			Benzo(g,h,i)perylene	2010/11/24		118	%	50 - 130	
			Benzo(k)fluoranthene	2010/11/24		129	%	50 - 130	
			Chrysene	2010/11/24		101	%	50 - 130	
Dibenz(a,h)anthracene			2010/11/24		110	%	50 - 130		
Fluoranthene			2010/11/24		96	%	50 - 130		
Fluorene			2010/11/24		95	%	50 - 130		
Method Blank				Indeno(1,2,3-cd)pyrene	2010/11/24		117	%	50 - 130
				Naphthalene	2010/11/24		85	%	50 - 130
	Perylene	2010/11/24			108	%	50 - 130		
	Phenanthrene	2010/11/24			88	%	50 - 130		
	Pyrene	2010/11/24			94	%	50 - 130		
	D10-Anthracene	2010/11/30			83	%	30 - 130		
	D14-Terphenyl	2010/11/30			96	%	30 - 130		
	D8-Acenaphthylene	2010/11/30			105	%	30 - 130		
	1-Methylnaphthalene	2010/11/30		ND, RDL=0.05		ug/L			
	2-Methylnaphthalene	2010/11/30		ND, RDL=0.05		ug/L			
	Acenaphthene	2010/11/30		ND, RDL=0.01		ug/L			
	Acenaphthylene	2010/11/30		ND, RDL=0.01		ug/L			
	Anthracene	2010/11/30		ND, RDL=0.01		ug/L			
	Benzo(a)anthracene	2010/11/30		ND, RDL=0.01		ug/L			
	Benzo(a)pyrene	2010/11/30		ND, RDL=0.01		ug/L			
	Benzo(b)fluoranthene	2010/11/30		ND, RDL=0.01		ug/L			
	Benzo(g,h,i)perylene	2010/11/30		ND, RDL=0.01		ug/L			
	Benzo(k)fluoranthene	2010/11/30		ND, RDL=0.01		ug/L			
	Chrysene	2010/11/30		ND, RDL=0.01		ug/L			
	Dibenz(a,h)anthracene	2010/11/30		ND, RDL=0.01		ug/L			
Fluoranthene	2010/11/30	ND, RDL=0.01		ug/L					
Fluorene	2010/11/30	ND, RDL=0.01		ug/L					
RPD		Indeno(1,2,3-cd)pyrene	2010/11/30		ND, RDL=0.01	ug/L			
		Naphthalene	2010/11/30		ND, RDL=0.2	ug/L			
		Perylene	2010/11/30		ND, RDL=0.01	ug/L			
		Phenanthrene	2010/11/30		ND, RDL=0.01	ug/L			
		Pyrene	2010/11/30		ND, RDL=0.01	ug/L			
		1-Methylnaphthalene	2010/11/30	NC		%	40		
		2-Methylnaphthalene	2010/11/30	NC		%	40		
		Acenaphthene	2010/11/30	NC		%	40		
		Acenaphthylene	2010/11/30	NC		%	40		
		Anthracene	2010/11/30	NC		%	40		

SLR Consulting (Canada) Ltd
 Attention: Kelly Henderson
 Client Project #: 210.5780.00000
 P.O. #: SYD147
 Project name: 2010 GWMP/HCP

Quality Assurance Report (Continued)

Maxxam Job Number: KB0G5873

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2338189 TML	RPD	Benzo(a)anthracene	2010/11/30	NC		%	40	
		Benzo(a)pyrene	2010/11/30	NC		%	40	
		Benzo(b)fluoranthene	2010/11/30	NC		%	40	
		Benzo(g,h,i)perylene	2010/11/30	NC		%	40	
		Benzo(k)fluoranthene	2010/11/30	NC		%	40	
		Chrysene	2010/11/30	NC		%	40	
		Dibenz(a,h)anthracene	2010/11/30	NC		%	40	
		Fluoranthene	2010/11/30	NC		%	40	
		Fluorene	2010/11/30	NC		%	40	
		Indeno(1,2,3-cd)pyrene	2010/11/30	NC		%	40	
		Naphthalene	2010/11/30	NC		%	40	
		Perylene	2010/11/30	NC		%	40	
		Phenanthrene	2010/11/30	NC		%	40	
		Pyrene	2010/11/30	NC		%	40	
2338282 MBU	Matrix Spike [HW9360-01]	Dissolved Aluminum (Al)	2010/11/23		106	%	75 - 125	
		Dissolved Antimony (Sb)	2010/11/23		106	%	75 - 125	
		Dissolved Arsenic (As)	2010/11/23		92	%	75 - 125	
		Dissolved Barium (Ba)	2010/11/23		107	%	75 - 125	
		Dissolved Beryllium (Be)	2010/11/23		111	%	75 - 125	
		Dissolved Bismuth (Bi)	2010/11/23		90	%	75 - 125	
		Dissolved Boron (B)	2010/11/23		97	%	75 - 125	
		Dissolved Cadmium (Cd)	2010/11/23		111	%	75 - 125	
		Dissolved Calcium (Ca)	2010/11/23		NC	%	75 - 125	
		Dissolved Chromium (Cr)	2010/11/23		108	%	75 - 125	
		Dissolved Cobalt (Co)	2010/11/23		107	%	75 - 125	
		Dissolved Copper (Cu)	2010/11/23		101	%	75 - 125	
		Dissolved Iron (Fe)	2010/11/23		95	%	75 - 125	
		Dissolved Lead (Pb)	2010/11/23		108	%	75 - 125	
		Dissolved Lithium (Li)	2010/11/23		93	%	75 - 125	
		Dissolved Magnesium (Mg)	2010/11/23		102	%	75 - 125	
		Dissolved Manganese (Mn)	2010/11/23		103	%	75 - 125	
		Dissolved Molybdenum (Mo)	2010/11/23		111	%	75 - 125	
		Dissolved Nickel (Ni)	2010/11/23		105	%	75 - 125	
		Dissolved Phosphorus (P)	2010/11/23		109	%	75 - 125	
		Dissolved Potassium (K)	2010/11/23		96	%	75 - 125	
		Dissolved Selenium (Se)	2010/11/23		64 (1)	%	75 - 125	
		Dissolved Silver (Ag)	2010/11/23		82	%	75 - 125	
		Dissolved Sodium (Na)	2010/11/23		118	%	75 - 125	
		Dissolved Strontium (Sr)	2010/11/23		112	%	75 - 125	
		Dissolved Thallium (Tl)	2010/11/23		109	%	75 - 125	
		Dissolved Tin (Sn)	2010/11/23		108	%	75 - 125	
		Dissolved Titanium (Ti)	2010/11/23		94	%	75 - 125	
		Dissolved Uranium (U)	2010/11/23		115	%	75 - 125	
		Dissolved Vanadium (V)	2010/11/23		106	%	75 - 125	
		Dissolved Zinc (Zn)	2010/11/23		97	%	75 - 125	
		QC Standard	Dissolved Aluminum (Al)	2010/11/23		116	%	75 - 125
			Dissolved Antimony (Sb)	2010/11/23		119	%	75 - 125
			Dissolved Arsenic (As)	2010/11/23		90	%	75 - 125
Dissolved Barium (Ba)	2010/11/23			101	%	75 - 125		
Dissolved Beryllium (Be)	2010/11/23			94	%	75 - 125		
Dissolved Bismuth (Bi)	2010/11/23			117	%	75 - 125		
Dissolved Boron (B)	2010/11/23			101	%	75 - 125		
Dissolved Cadmium (Cd)	2010/11/23			104	%	75 - 125		
Dissolved Calcium (Ca)	2010/11/23			93	%	75 - 125		

SLR Consulting (Canada) Ltd
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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits		
2338282 MBU	QC Standard	Dissolved Chromium (Cr)	2010/11/23		103	%	75 - 125		
		Dissolved Cobalt (Co)	2010/11/23		107	%	75 - 125		
		Dissolved Copper (Cu)	2010/11/23		102	%	75 - 125		
		Dissolved Lead (Pb)	2010/11/23		105	%	75 - 125		
		Dissolved Lithium (Li)	2010/11/23		101	%	75 - 125		
		Dissolved Magnesium (Mg)	2010/11/23		98	%	75 - 125		
		Dissolved Manganese (Mn)	2010/11/23		108	%	75 - 125		
		Dissolved Molybdenum (Mo)	2010/11/23		109	%	75 - 125		
		Dissolved Nickel (Ni)	2010/11/23		105	%	75 - 125		
		Dissolved Potassium (K)	2010/11/23		94	%	75 - 125		
		Dissolved Selenium (Se)	2010/11/23		94	%	75 - 125		
		Dissolved Silver (Ag)	2010/11/23		105	%	75 - 125		
		Dissolved Sodium (Na)	2010/11/23		97	%	75 - 125		
		Dissolved Strontium (Sr)	2010/11/23		99	%	75 - 125		
		Dissolved Thallium (Tl)	2010/11/23		107	%	75 - 125		
		Dissolved Vanadium (V)	2010/11/23		106	%	75 - 125		
		Dissolved Zinc (Zn)	2010/11/23		100	%	75 - 125		
		Spiked Blank		Dissolved Aluminum (Al)	2010/11/23		105	%	75 - 125
				Dissolved Antimony (Sb)	2010/11/23		106	%	75 - 125
				Dissolved Arsenic (As)	2010/11/23		91	%	75 - 125
				Dissolved Barium (Ba)	2010/11/23		107	%	75 - 125
				Dissolved Beryllium (Be)	2010/11/23		100	%	75 - 125
				Dissolved Bismuth (Bi)	2010/11/23		104	%	75 - 125
				Dissolved Boron (B)	2010/11/23		105	%	75 - 125
				Dissolved Cadmium (Cd)	2010/11/23		112	%	75 - 125
				Dissolved Calcium (Ca)	2010/11/23		99	%	75 - 125
				Dissolved Chromium (Cr)	2010/11/23		110	%	75 - 125
				Dissolved Cobalt (Co)	2010/11/23		109	%	75 - 125
				Dissolved Copper (Cu)	2010/11/23		106	%	75 - 125
				Dissolved Iron (Fe)	2010/11/23		91	%	75 - 125
				Dissolved Lead (Pb)	2010/11/23		108	%	75 - 125
				Dissolved Lithium (Li)	2010/11/23		100	%	75 - 125
				Dissolved Magnesium (Mg)	2010/11/23		99	%	75 - 125
				Dissolved Manganese (Mn)	2010/11/23		105	%	75 - 125
				Dissolved Molybdenum (Mo)	2010/11/23		110	%	75 - 125
				Dissolved Nickel (Ni)	2010/11/23		108	%	75 - 125
				Dissolved Phosphorus (P)	2010/11/23		104	%	75 - 125
		Dissolved Potassium (K)	2010/11/23		102	%	75 - 125		
		Dissolved Selenium (Se)	2010/11/23		106	%	75 - 125		
		Dissolved Silver (Ag)	2010/11/23		91	%	75 - 125		
Dissolved Sodium (Na)	2010/11/23		102	%	75 - 125				
Dissolved Strontium (Sr)	2010/11/23		106	%	75 - 125				
Dissolved Thallium (Tl)	2010/11/23		110	%	75 - 125				
Dissolved Tin (Sn)	2010/11/23		106	%	75 - 125				
Dissolved Titanium (Ti)	2010/11/23		94	%	75 - 125				
Dissolved Uranium (U)	2010/11/23		111	%	75 - 125				
Dissolved Vanadium (V)	2010/11/23		109	%	75 - 125				
Dissolved Zinc (Zn)	2010/11/23		105	%	75 - 125				
Method Blank		Dissolved Aluminum (Al)	2010/11/23	ND, RDL=5.0		ug/L			
		Dissolved Antimony (Sb)	2010/11/23	ND, RDL=0.40		ug/L			
		Dissolved Arsenic (As)	2010/11/23	ND, RDL=0.60		ug/L			
		Dissolved Barium (Ba)	2010/11/23	ND, RDL=0.40		ug/L			
		Dissolved Beryllium (Be)	2010/11/23	ND, RDL=0.50		ug/L			
		Dissolved Bismuth (Bi)	2010/11/23	ND, RDL=2.0		ug/L			
		Dissolved Boron (B)	2010/11/23	ND, RDL=100		ug/L			

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2338282	MBU	Method Blank					
		Dissolved Cadmium (Cd)	2010/11/23	ND, RDL=0.017		ug/L	
		Dissolved Calcium (Ca)	2010/11/23	ND, RDL=100		ug/L	
		Dissolved Chromium (Cr)	2010/11/23	ND, RDL=1.0		ug/L	
		Dissolved Cobalt (Co)	2010/11/23	ND, RDL=1.0		ug/L	
		Dissolved Copper (Cu)	2010/11/23	ND, RDL=2.0		ug/L	
		Dissolved Iron (Fe)	2010/11/23	ND, RDL=100		ug/L	
		Dissolved Lead (Pb)	2010/11/23	ND, RDL=1.0		ug/L	
		Dissolved Lithium (Li)	2010/11/23	ND, RDL=1.0		ug/L	
		Dissolved Magnesium (Mg)	2010/11/23	ND, RDL=60		ug/L	
		Dissolved Manganese (Mn)	2010/11/23	ND, RDL=4.0		ug/L	
		Dissolved Molybdenum (Mo)	2010/11/23	ND, RDL=4.0		ug/L	
		Dissolved Nickel (Ni)	2010/11/23	ND, RDL=3.0		ug/L	
		Dissolved Phosphorus (P)	2010/11/23	ND, RDL=100		ug/L	
		Dissolved Potassium (K)	2010/11/23	ND, RDL=600		ug/L	
		Dissolved Selenium (Se)	2010/11/23	ND, RDL=1.0		ug/L	
		Dissolved Silver (Ag)	2010/11/23	ND, RDL=0.10		ug/L	
		Dissolved Sodium (Na)	2010/11/23	ND, RDL=300		ug/L	
		Dissolved Strontium (Sr)	2010/11/23	ND, RDL=2.0		ug/L	
		Dissolved Thallium (Tl)	2010/11/23	ND, RDL=0.80		ug/L	
		Dissolved Tin (Sn)	2010/11/23	ND, RDL=20		ug/L	
		Dissolved Titanium (Ti)	2010/11/23	ND, RDL=3.0		ug/L	
		Dissolved Uranium (U)	2010/11/23	ND, RDL=0.15		ug/L	
		Dissolved Vanadium (V)	2010/11/23	ND, RDL=2.0		ug/L	
		Dissolved Zinc (Zn)	2010/11/23	ND, RDL=5.0		ug/L	
	RPD [HW9360-01]	Dissolved Aluminum (Al)	2010/11/23	0.8		%	25
		Dissolved Antimony (Sb)	2010/11/23	NC		%	25
		Dissolved Arsenic (As)	2010/11/23	0.1		%	25
		Dissolved Barium (Ba)	2010/11/23	0.9		%	25
		Dissolved Beryllium (Be)	2010/11/23	NC		%	25
		Dissolved Bismuth (Bi)	2010/11/23	NC		%	25
		Dissolved Boron (B)	2010/11/23	NC		%	25
		Dissolved Cadmium (Cd)	2010/11/23	NC		%	25
		Dissolved Calcium (Ca)	2010/11/23	1.6		%	25
		Dissolved Chromium (Cr)	2010/11/23	NC		%	25
		Dissolved Cobalt (Co)	2010/11/23	NC		%	25
		Dissolved Copper (Cu)	2010/11/23	NC		%	25
		Dissolved Iron (Fe)	2010/11/23	NC		%	25
		Dissolved Lead (Pb)	2010/11/23	NC		%	25
		Dissolved Lithium (Li)	2010/11/23	NC		%	25
		Dissolved Magnesium (Mg)	2010/11/23	NC		%	25
		Dissolved Manganese (Mn)	2010/11/23	NC		%	25
		Dissolved Molybdenum (Mo)	2010/11/23	1.5		%	25
		Dissolved Nickel (Ni)	2010/11/23	0.5		%	25
		Dissolved Phosphorus (P)	2010/11/23	NC		%	25
		Dissolved Potassium (K)	2010/11/23	3.0		%	25
		Dissolved Selenium (Se)	2010/11/23	8.7		%	25
		Dissolved Silver (Ag)	2010/11/23	NC		%	25
		Dissolved Sodium (Na)	2010/11/23	0.3		%	25
		Dissolved Strontium (Sr)	2010/11/23	0.7		%	25
		Dissolved Thallium (Tl)	2010/11/23	NC		%	25
		Dissolved Tin (Sn)	2010/11/23	NC		%	25
		Dissolved Titanium (Ti)	2010/11/23	NC		%	25
		Dissolved Uranium (U)	2010/11/23	NC		%	25
		Dissolved Vanadium (V)	2010/11/23	NC		%	25
		Dissolved Zinc (Zn)	2010/11/23	NC		%	25

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2339504 MBU	Matrix Spike [HW9380-01]	Dissolved Aluminum (Al)	2010/11/24		98	%	75 - 125
		Dissolved Antimony (Sb)	2010/11/24		115	%	75 - 125
		Dissolved Arsenic (As)	2010/11/24		94	%	75 - 125
		Dissolved Barium (Ba)	2010/11/24		102	%	75 - 125
		Dissolved Beryllium (Be)	2010/11/24		80	%	75 - 125
		Dissolved Bismuth (Bi)	2010/11/24		102	%	75 - 125
		Dissolved Boron (B)	2010/11/24		82	%	75 - 125
		Dissolved Cadmium (Cd)	2010/11/24		115	%	75 - 125
		Dissolved Calcium (Ca)	2010/11/24		NC	%	75 - 125
		Dissolved Chromium (Cr)	2010/11/24		110	%	75 - 125
		Dissolved Cobalt (Co)	2010/11/24		111	%	75 - 125
		Dissolved Copper (Cu)	2010/11/24		102	%	75 - 125
		Dissolved Iron (Fe)	2010/11/24		100	%	75 - 125
		Dissolved Lead (Pb)	2010/11/24		103	%	75 - 125
		Dissolved Lithium (Li)	2010/11/24		88	%	75 - 125
		Dissolved Magnesium (Mg)	2010/11/24		120	%	75 - 125
		Dissolved Manganese (Mn)	2010/11/24		105	%	75 - 125
		Dissolved Molybdenum (Mo)	2010/11/24		118	%	75 - 125
		Dissolved Nickel (Ni)	2010/11/24		105	%	75 - 125
		Dissolved Phosphorus (P)	2010/11/24		112	%	75 - 125
		Dissolved Potassium (K)	2010/11/24		110	%	75 - 125
		Dissolved Selenium (Se)	2010/11/24		103	%	75 - 125
		Dissolved Silver (Ag)	2010/11/24		88	%	75 - 125
		Dissolved Sodium (Na)	2010/11/24		102	%	75 - 125
		Dissolved Strontium (Sr)	2010/11/24		NC	%	75 - 125
		Dissolved Thallium (Tl)	2010/11/24		104	%	75 - 125
		Dissolved Tin (Sn)	2010/11/24		114	%	75 - 125
		Dissolved Titanium (Ti)	2010/11/24		101	%	75 - 125
		Dissolved Uranium (U)	2010/11/24		104	%	75 - 125
		Dissolved Vanadium (V)	2010/11/24		113	%	75 - 125
		Dissolved Zinc (Zn)	2010/11/24		97	%	75 - 125
	QC Standard	Dissolved Aluminum (Al)	2010/11/24		111	%	75 - 125
		Dissolved Antimony (Sb)	2010/11/24		119	%	75 - 125
		Dissolved Arsenic (As)	2010/11/24		92	%	75 - 125
		Dissolved Barium (Ba)	2010/11/24		101	%	75 - 125
		Dissolved Beryllium (Be)	2010/11/24		91	%	75 - 125
		Dissolved Bismuth (Bi)	2010/11/24		121	%	75 - 125
		Dissolved Boron (B)	2010/11/24		92	%	75 - 125
		Dissolved Cadmium (Cd)	2010/11/24		104	%	75 - 125
		Dissolved Calcium (Ca)	2010/11/24		93	%	75 - 125
		Dissolved Chromium (Cr)	2010/11/24		112	%	75 - 125
		Dissolved Cobalt (Co)	2010/11/24		108	%	75 - 125
		Dissolved Copper (Cu)	2010/11/24		101	%	75 - 125
		Dissolved Iron (Fe)	2010/11/24		108	%	75 - 125
		Dissolved Lead (Pb)	2010/11/24		108	%	75 - 125
		Dissolved Lithium (Li)	2010/11/24		96	%	75 - 125
		Dissolved Magnesium (Mg)	2010/11/24		96	%	75 - 125
		Dissolved Manganese (Mn)	2010/11/24		111	%	75 - 125
		Dissolved Molybdenum (Mo)	2010/11/24		108	%	75 - 125
		Dissolved Nickel (Ni)	2010/11/24		103	%	75 - 125
		Dissolved Potassium (K)	2010/11/24		98	%	75 - 125
		Dissolved Selenium (Se)	2010/11/24		95	%	75 - 125
		Dissolved Silver (Ag)	2010/11/24		107	%	75 - 125
		Dissolved Sodium (Na)	2010/11/24		93	%	75 - 125

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2339504 MBU	QC Standard	Dissolved Strontium (Sr)	2010/11/24		102	%	75 - 125	
		Dissolved Thallium (Tl)	2010/11/24		111	%	75 - 125	
		Dissolved Vanadium (V)	2010/11/24		107	%	75 - 125	
		Dissolved Zinc (Zn)	2010/11/24		99	%	75 - 125	
		Dissolved Aluminum (Al)	2010/11/24		95	%	75 - 125	
	Spiked Blank		Dissolved Antimony (Sb)	2010/11/24		107	%	75 - 125
			Dissolved Arsenic (As)	2010/11/24		92	%	75 - 125
			Dissolved Barium (Ba)	2010/11/24		105	%	75 - 125
			Dissolved Beryllium (Be)	2010/11/24		97	%	75 - 125
			Dissolved Bismuth (Bi)	2010/11/24		105	%	75 - 125
			Dissolved Boron (B)	2010/11/24		97	%	75 - 125
			Dissolved Cadmium (Cd)	2010/11/24		111	%	75 - 125
			Dissolved Calcium (Ca)	2010/11/24		92	%	75 - 125
			Dissolved Chromium (Cr)	2010/11/24		107	%	75 - 125
			Dissolved Cobalt (Co)	2010/11/24		108	%	75 - 125
			Dissolved Copper (Cu)	2010/11/24		101	%	75 - 125
			Dissolved Iron (Fe)	2010/11/24		97	%	75 - 125
			Dissolved Lead (Pb)	2010/11/24		107	%	75 - 125
			Dissolved Lithium (Li)	2010/11/24		97	%	75 - 125
			Dissolved Magnesium (Mg)	2010/11/24		93	%	75 - 125
			Dissolved Manganese (Mn)	2010/11/24		103	%	75 - 125
			Dissolved Molybdenum (Mo)	2010/11/24		110	%	75 - 125
			Dissolved Nickel (Ni)	2010/11/24		104	%	75 - 125
			Dissolved Phosphorus (P)	2010/11/24		105	%	75 - 125
			Dissolved Potassium (K)	2010/11/24		94	%	75 - 125
Dissolved Selenium (Se)			2010/11/24		106	%	75 - 125	
Dissolved Silver (Ag)			2010/11/24		95	%	75 - 125	
Dissolved Sodium (Na)			2010/11/24		90	%	75 - 125	
Dissolved Strontium (Sr)			2010/11/24		109	%	75 - 125	
Dissolved Thallium (Tl)			2010/11/24		108	%	75 - 125	
Dissolved Tin (Sn)	2010/11/24		108	%	75 - 125			
Dissolved Titanium (Ti)	2010/11/24		95	%	75 - 125			
Dissolved Uranium (U)	2010/11/24		108	%	75 - 125			
Dissolved Vanadium (V)	2010/11/24		105	%	75 - 125			
Dissolved Zinc (Zn)	2010/11/24		101	%	75 - 125			
Method Blank		Dissolved Aluminum (Al)	2010/11/24	ND, RDL=5.0		ug/L		
		Dissolved Antimony (Sb)	2010/11/24	ND, RDL=0.40		ug/L		
		Dissolved Arsenic (As)	2010/11/24	ND, RDL=0.60		ug/L		
		Dissolved Barium (Ba)	2010/11/24	ND, RDL=0.40		ug/L		
		Dissolved Beryllium (Be)	2010/11/24	ND, RDL=0.50		ug/L		
		Dissolved Bismuth (Bi)	2010/11/24	ND, RDL=2.0		ug/L		
		Dissolved Boron (B)	2010/11/24	ND, RDL=100		ug/L		
		Dissolved Cadmium (Cd)	2010/11/24	ND, RDL=0.017		ug/L		
		Dissolved Calcium (Ca)	2010/11/24	ND, RDL=100		ug/L		
		Dissolved Chromium (Cr)	2010/11/24	ND, RDL=1.0		ug/L		
		Dissolved Cobalt (Co)	2010/11/24	ND, RDL=1.0		ug/L		
		Dissolved Copper (Cu)	2010/11/24	ND, RDL=2.0		ug/L		
		Dissolved Iron (Fe)	2010/11/24	ND, RDL=100		ug/L		
		Dissolved Lead (Pb)	2010/11/24	ND, RDL=1.0		ug/L		
		Dissolved Lithium (Li)	2010/11/24	ND, RDL=1.0		ug/L		
		Dissolved Magnesium (Mg)	2010/11/24	ND, RDL=60		ug/L		
		Dissolved Manganese (Mn)	2010/11/24	ND, RDL=4.0		ug/L		
		Dissolved Molybdenum (Mo)	2010/11/24	ND, RDL=4.0		ug/L		
		Dissolved Nickel (Ni)	2010/11/24	ND, RDL=3.0		ug/L		
		Dissolved Phosphorus (P)	2010/11/24	ND, RDL=100		ug/L		

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Maxxam Job Number: KB0G5873

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2339504	MBU	Method Blank					
		Dissolved Potassium (K)	2010/11/24	ND, RDL=600		ug/L	
		Dissolved Selenium (Se)	2010/11/24	ND, RDL=1.0		ug/L	
		Dissolved Silver (Ag)	2010/11/24	ND, RDL=0.10		ug/L	
		Dissolved Sodium (Na)	2010/11/24	ND, RDL=300		ug/L	
		Dissolved Strontium (Sr)	2010/11/24	ND, RDL=2.0		ug/L	
		Dissolved Thallium (Tl)	2010/11/24	ND, RDL=0.80		ug/L	
		Dissolved Tin (Sn)	2010/11/24	ND, RDL=20		ug/L	
		Dissolved Titanium (Ti)	2010/11/24	ND, RDL=3.0		ug/L	
		Dissolved Uranium (U)	2010/11/24	ND, RDL=0.15		ug/L	
		Dissolved Vanadium (V)	2010/11/24	ND, RDL=2.0		ug/L	
		Dissolved Zinc (Zn)	2010/11/24	ND, RDL=5.0		ug/L	
	RPD [HW9380-01]	Dissolved Aluminum (Al)	2010/11/24	NC		%	25
		Dissolved Antimony (Sb)	2010/11/24	NC		%	25
		Dissolved Arsenic (As)	2010/11/24	NC		%	25
		Dissolved Barium (Ba)	2010/11/24	0.2		%	25
		Dissolved Beryllium (Be)	2010/11/24	NC		%	25
		Dissolved Bismuth (Bi)	2010/11/24	NC		%	25
		Dissolved Boron (B)	2010/11/24	NC		%	25
		Dissolved Cadmium (Cd)	2010/11/24	NC		%	25
		Dissolved Calcium (Ca)	2010/11/24	4.0		%	25
		Dissolved Chromium (Cr)	2010/11/24	NC		%	25
		Dissolved Cobalt (Co)	2010/11/24	NC		%	25
		Dissolved Copper (Cu)	2010/11/24	NC		%	25
		Dissolved Iron (Fe)	2010/11/24	NC		%	25
		Dissolved Lead (Pb)	2010/11/24	NC		%	25
		Dissolved Lithium (Li)	2010/11/24	2.5		%	25
		Dissolved Magnesium (Mg)	2010/11/24	6.2		%	25
		Dissolved Manganese (Mn)	2010/11/24	0.7		%	25
		Dissolved Molybdenum (Mo)	2010/11/24	NC		%	25
		Dissolved Nickel (Ni)	2010/11/24	NC		%	25
		Dissolved Phosphorus (P)	2010/11/24	NC		%	25
		Dissolved Potassium (K)	2010/11/24	3.9		%	25
		Dissolved Selenium (Se)	2010/11/24	NC		%	25
		Dissolved Silver (Ag)	2010/11/24	NC		%	25
		Dissolved Sodium (Na)	2010/11/24	4.7		%	25
		Dissolved Strontium (Sr)	2010/11/24	3.2		%	25
		Dissolved Thallium (Tl)	2010/11/24	NC		%	25
		Dissolved Tin (Sn)	2010/11/24	NC		%	25
		Dissolved Titanium (Ti)	2010/11/24	NC		%	25
		Dissolved Uranium (U)	2010/11/24	2.4		%	25
		Dissolved Vanadium (V)	2010/11/24	3.4		%	25
		Dissolved Zinc (Zn)	2010/11/24	NC		%	25
2339620	BMI	Matrix Spike	2010/11/23		99	%	80 - 120
		QC Standard	2010/11/23		99	%	80 - 120
		Spiked Blank	2010/11/23		94	%	80 - 120
		Method Blank	2010/11/23	ND, RDL=0.013		ug/L	
		RPD	2010/11/23	NC		%	25
2339634	BMI	Matrix Spike	2010/11/23		103	%	80 - 120
		[HW9367-01]	2010/11/23		101	%	80 - 120
		QC Standard	2010/11/23		98	%	80 - 120
		Spiked Blank	2010/11/23		98	%	80 - 120
		Method Blank	2010/11/23	ND, RDL=0.013		ug/L	
		RPD [HW9363-01]	2010/11/23	NC		%	25

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

SLR Consulting (Canada) Ltd
Attention: Kelly Henderson
Client Project #: 210.5780.00000
P.O. #: SYD147
Project name: 2010 GWMP/HCP

Quality Assurance Report (Continued)

Maxxam Job Number: KB0G5873

QC Standard: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.
NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.
(1) Matrix Spike: <10 % of compounds in multi-component analysis are in violation.

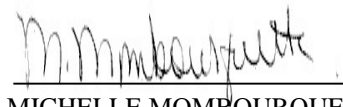
Validation Signature Page

Maxxam Job #: B0G5873

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



ROSE MACDONALD,



MICHELLE MOMBOURQUETTE, Laboratory Manager

=====

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Your P.O. #: SYD147
 Your Project #: 210.05780.00000
 Site: 2010 GWMP/HCP
 Your C.O.C. #: B124952

Attention: Kelly Henderson

SLR Consulting (Canada) Ltd
 45 Wabina Crt., Suite 107B
 PO Box 791, Station A
 Sydney, NS
 B1P 6K5

Report Date: 2010/11/30

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B0G7033

Received: 2010/11/19, 15:07

Sample Matrix: Water
 # Samples Received: 5

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
TEH in Water (PIRI)	4	2010/11/24	2010/11/25	ATL SOP-00151 R5	Based on ATL PIRI
TEH in Water (PIRI)	1	2010/11/24	2010/11/26	ATL SOP-00151 R5	Based on ATL PIRI
Mercury - Total (CVAA,LL)	5	2010/11/26	2010/11/25	ATL SOP-00160 R5	Based on EPA245.1
Elements by ICPMS - low dissolved	5	N/A	2010/11/26	ATL SOP 00161 R6	Based on EPA6020A
PAH in Water by GC/MS (SIM)	5	2010/11/23	2010/11/25	ATL SOP 00147 R5	Based on EPA 8270C
VPH in Water (PIRI) \emptyset	4	2010/11/25	2010/11/25	ATL SOP 00118 R4	Based on Atl. PIRI
VPH in Water (PIRI) \emptyset	1	2010/11/25	2010/11/27	ATL SOP 00118 R4	Based on Atl. PIRI
ModTPH (T1) Calc. for Water	3	N/A	2010/11/26	ATL SOP-00151 R4	Based on Atl PIRI
ModTPH (T1) Calc. for Water	1	N/A	2010/11/29	ATL SOP-00151 R4	Based on Atl PIRI
ModTPH (T1) Calc. for Water	1	N/A	2010/11/30	ATL SOP-00151 R4	Based on Atl PIRI

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bedford

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

TRACY MACLEOD-FLOYD,
 Email: TMacLeod@maxxam.ca
 Phone# (902) 567 1255

=====
 Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 1

Maxxam Job #: B0G7033
 Report Date: 2010/11/30

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

SYD/ BED TIER1 (WATER)

Maxxam ID		HX4319	HX4322	HX4323	HX4324		
Sampling Date		2010/11/19 8:15	2010/11/19 08:50	2010/11/19 08:50	2010/11/19 09:50		
COC Number		B124952	B124952	B124952	B124952		
	Units	SCU18-007-MW	SCU18-009-MW	FD 7	SCU17-012-MW	RDL	QC Batch

Petroleum Hydrocarbons							
Benzene	mg/L	ND	ND	ND	ND	0.001	2340277
Toluene	mg/L	ND	ND	ND	ND	0.001	2340277
Ethylbenzene	mg/L	ND	ND	ND	ND	0.001	2340277
Xylene (Total)	mg/L	ND	ND	ND	ND	0.002	2340277
C6 - C10 (less BTEX)	mg/L	ND	ND	ND	ND	0.01	2340277
>C10-C16 Hydrocarbons	mg/L	ND	ND	ND	ND	0.2	2338997
>C16-C21 Hydrocarbons	mg/L	ND	ND	ND	ND	0.2	2338997
>C21-<C32 Hydrocarbons	mg/L	ND	ND	ND	ND	0.5	2338997
Modified TPH (Tier1)	mg/L	ND	ND	ND	ND	0.5	2335131
Reached Baseline at C32	mg/L	Yes	Yes	Yes	Yes	N/A	2338997
Hydrocarbon Resemblance	mg/L	NA	NA	NA	NA	N/A	2338997
Surrogate Recovery (%)							
Isobutylbenzene - Extractable	%	102	101	110	92		2338997
n-Dotriacontane - Extractable	%	97	108	110	92		2338997
Isobutylbenzene - Volatile	%	87	92	90	93		2340277

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G7033
 Report Date: 2010/11/30

SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

SYD/ BED TIER1 (WATER)

Maxxam ID		HX4325		
Sampling Date		2010/11/19 10:13		
COC Number		B124952		
	Units	SCU6-004-MW	RDL	QC Batch

Petroleum Hydrocarbons				
Benzene	mg/L	ND	0.001	2340277
Toluene	mg/L	ND	0.001	2340277
Ethylbenzene	mg/L	ND	0.001	2340277
Xylene (Total)	mg/L	ND	0.002	2340277
C6 - C10 (less BTEX)	mg/L	ND	0.01	2340277
>C10-C16 Hydrocarbons	mg/L	ND	0.2	2339699
>C16-C21 Hydrocarbons	mg/L	ND	0.2	2339699
>C21-<C32 Hydrocarbons	mg/L	1.0	0.5	2339699
Modified TPH (Tier1)	mg/L	1.0	0.5	2335131
Reached Baseline at C32	mg/L	Yes	N/A	2339699
Hydrocarbon Resemblance	mg/L	SEE NOTE (1)	N/A	2339699
Surrogate Recovery (%)				
Isobutylbenzene - Extractable	%	94		2339699
n-Dotriacontane - Extractable	%	106		2339699
Isobutylbenzene - Volatile	%	90		2340277
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch (1) Lube Oil Range				

Maxxam Job #: B0G7033
 Report Date: 2010/11/30

SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

MERCURY BY COLD VAPOUR AA (WATER)

Maxxam ID		HX4319	HX4322	HX4323	HX4324	HX4325		
Sampling Date		2010/11/19 8:15	2010/11/19 08:50	2010/11/19 08:50	2010/11/19 09:50	2010/11/19 10:13		
COC Number		B124952	B124952	B124952	B124952	B124952		
	Units	SCU18-007-MW	SCU18-009-MW	FD 7	SCU17-012-MW	SCU6-004-MW	RDL	QC Batch

Metals								
Total Mercury (Hg)	ug/L	ND	ND	ND	ND	0.026	0.013	2341739

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G7033
 Report Date: 2010/11/30

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		HX4319	HX4322	HX4323	HX4324		
Sampling Date		2010/11/19 8:15	2010/11/19 08:50	2010/11/19 08:50	2010/11/19 09:50		
COC Number		B124952	B124952	B124952	B124952		
	Units	SCU18-007-MW	SCU18-009-MW	FD 7	SCU17-012-MW	RDL	QC Batch

Metals							
Dissolved Aluminum (Al)	ug/L	30	23	29	23	5.0	2342393
Dissolved Antimony (Sb)	ug/L	3.4	0.87	1.2	1.3	0.40	2342393
Dissolved Arsenic (As)	ug/L	1.9	4.0	4.0	1.3	0.60	2342393
Dissolved Barium (Ba)	ug/L	48	57	59	22	0.40	2342393
Dissolved Beryllium (Be)	ug/L	ND	ND	ND	ND	0.50	2342393
Dissolved Bismuth (Bi)	ug/L	ND	ND	ND	ND	2.0	2342393
Dissolved Boron (B)	ug/L	200	110	110	ND	100	2342393
Dissolved Cadmium (Cd)	ug/L	ND	ND	ND	0.058	0.017	2342393
Dissolved Calcium (Ca)	ug/L	71000	82000	82000	42000	100	2342393
Dissolved Chromium (Cr)	ug/L	8.6	ND	ND	ND	1.0	2342393
Dissolved Cobalt (Co)	ug/L	ND	ND	ND	ND	1.0	2342393
Dissolved Copper (Cu)	ug/L	ND	ND	ND	ND	2.0	2342393
Dissolved Iron (Fe)	ug/L	ND	ND	ND	ND	100	2342393
Dissolved Lead (Pb)	ug/L	ND	ND	ND	ND	1.0	2342393
Dissolved Lithium (Li)	ug/L	13	13	13	21	1.0	2342393
Dissolved Magnesium (Mg)	ug/L	16000	11000	11000	11000	60	2342393
Dissolved Manganese (Mn)	ug/L	ND	100	110	42	4.0	2342393
Dissolved Molybdenum (Mo)	ug/L	5.4	6.1	6.0	ND	4.0	2342393
Dissolved Nickel (Ni)	ug/L	ND	ND	ND	ND	3.0	2342393
Dissolved Phosphorus (P)	ug/L	ND	ND	ND	ND	100	2342393
Dissolved Potassium (K)	ug/L	5200	8400	8700	5600	600	2342393
Dissolved Selenium (Se)	ug/L	1.5	6.0	6.1	2.0	1.0	2342393
Dissolved Silver (Ag)	ug/L	ND	ND	ND	ND	0.10	2342393
Dissolved Sodium (Na)	ug/L	31000	47000	47000	6800	300	2342393
Dissolved Strontium (Sr)	ug/L	250	670	710	150	2.0	2342393
Dissolved Thallium (Tl)	ug/L	ND	ND	ND	ND	0.80	2342393
Dissolved Tin (Sn)	ug/L	ND	ND	ND	ND	20	2342393
Dissolved Titanium (Ti)	ug/L	ND	ND	ND	ND	3.0	2342393
Dissolved Uranium (U)	ug/L	3.4	1.7	1.7	0.60	0.15	2342393
Dissolved Vanadium (V)	ug/L	12	ND	ND	ND	2.0	2342393

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G7033
 Report Date: 2010/11/30

SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		HX4319	HX4322	HX4323	HX4324		
Sampling Date		2010/11/19 8:15	2010/11/19 08:50	2010/11/19 08:50	2010/11/19 09:50		
COC Number		B124952	B124952	B124952	B124952		
	Units	SCU18-007-MW	SCU18-009-MW	FD 7	SCU17-012-MW	RDL	QC Batch

Dissolved Zinc (Zn)	ug/L	ND	ND	ND	6.6	5.0	2342393
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ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G7033
Report Date: 2010/11/30

SLR Consulting (Canada) Ltd
Client Project #: 210.05780.00000
Project name: 2010 GWMP/HCP
Your P.O. #: SYD147

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		HX4325		
Sampling Date		2010/11/19 10:13		
COC Number		B124952		
	Units	SCU6-004-MW	RDL	QC Batch

Metals				
Dissolved Aluminum (Al)	ug/L	21	5.0	2342393
Dissolved Antimony (Sb)	ug/L	27	0.40	2342393
Dissolved Arsenic (As)	ug/L	2.2	0.60	2342393
Dissolved Barium (Ba)	ug/L	67	0.40	2342393
Dissolved Beryllium (Be)	ug/L	ND	0.50	2342393
Dissolved Bismuth (Bi)	ug/L	ND	2.0	2342393
Dissolved Boron (B)	ug/L	240	100	2342393
Dissolved Cadmium (Cd)	ug/L	0.044	0.017	2342393
Dissolved Calcium (Ca)	ug/L	280000	100	2342393
Dissolved Chromium (Cr)	ug/L	ND	1.0	2342393
Dissolved Cobalt (Co)	ug/L	ND	1.0	2342393
Dissolved Copper (Cu)	ug/L	6.5	2.0	2342393
Dissolved Iron (Fe)	ug/L	ND	100	2342393
Dissolved Lead (Pb)	ug/L	2.4	1.0	2342393
Dissolved Lithium (Li)	ug/L	44	1.0	2342393
Dissolved Magnesium (Mg)	ug/L	13000	60	2342393
Dissolved Manganese (Mn)	ug/L	94	4.0	2342393
Dissolved Molybdenum (Mo)	ug/L	5.4	4.0	2342393
Dissolved Nickel (Ni)	ug/L	8.0	3.0	2342393
Dissolved Phosphorus (P)	ug/L	ND	100	2342393
Dissolved Potassium (K)	ug/L	7600	600	2342393
Dissolved Selenium (Se)	ug/L	2.0	1.0	2342393
Dissolved Silver (Ag)	ug/L	ND	0.10	2342393
Dissolved Sodium (Na)	ug/L	12000	300	2342393
Dissolved Strontium (Sr)	ug/L	1200	2.0	2342393
Dissolved Thallium (Tl)	ug/L	ND	0.80	2342393
Dissolved Tin (Sn)	ug/L	ND	20	2342393
Dissolved Titanium (Ti)	ug/L	ND	3.0	2342393
Dissolved Uranium (U)	ug/L	23	0.15	2342393
Dissolved Vanadium (V)	ug/L	11	2.0	2342393
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch				

Maxxam Job #: B0G7033
 Report Date: 2010/11/30

SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		HX4325		
Sampling Date		2010/11/19 10:13		
COC Number		B124952		
	Units	SCU6-004-MW	RDL	QC Batch

Dissolved Zinc (Zn)	ug/L	47	5.0	2342393
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RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G7033
 Report Date: 2010/11/30

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Maxxam ID		HX4319	HX4322	HX4323	HX4324		
Sampling Date		2010/11/19 8:15	2010/11/19 08:50	2010/11/19 08:50	2010/11/19 09:50		
COC Number		B124952	B124952	B124952	B124952		
	Units	SCU18-007-MW	SCU18-009-MW	FD 7	SCU17-012-MW	RDL	QC Batch

Polyaromatic Hydrocarbons							
1-Methylnaphthalene	ug/L	ND	0.32	0.32	ND	0.05	2338189
2-Methylnaphthalene	ug/L	ND	0.21	0.21	ND	0.05	2338189
Acenaphthene	ug/L	ND	0.70	0.75	ND	0.01	2338189
Acenaphthylene	ug/L	ND	0.16	0.16	ND	0.01	2338189
Anthracene	ug/L	ND	0.16	0.18	ND	0.01	2338189
Benzo(a)anthracene	ug/L	ND	ND	ND	ND	0.01	2338189
Benzo(a)pyrene	ug/L	ND	ND	ND	ND	0.01	2338189
Benzo(b)fluoranthene	ug/L	ND	ND	ND	ND	0.01	2338189
Benzo(g,h,i)perylene	ug/L	ND	ND	ND	ND	0.01	2338189
Benzo(k)fluoranthene	ug/L	ND	ND	ND	ND	0.01	2338189
Chrysene	ug/L	ND	0.02	0.01	ND	0.01	2338189
Dibenz(a,h)anthracene	ug/L	ND	ND	ND	ND	0.01	2338189
Fluoranthene	ug/L	ND	0.24	0.24	ND	0.01	2338189
Fluorene	ug/L	ND	0.69	0.67	ND	0.01	2338189
Indeno(1,2,3-cd)pyrene	ug/L	ND	ND	ND	ND	0.01	2338189
Naphthalene	ug/L	ND	0.8	0.8	ND	0.2	2338189
Perylene	ug/L	ND	ND	ND	ND	0.01	2338189
Phenanthrene	ug/L	0.01	1.1	0.97	0.03	0.01	2338189
Pyrene	ug/L	ND	0.16	0.16	ND	0.01	2338189
Surrogate Recovery (%)							
D10-Anthracene	%	120	97	99	129		2338189
D14-Terphenyl	%	99	98	99	104		2338189
D8-Acenaphthylene	%	94	88	90	106		2338189

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G7033
 Report Date: 2010/11/30

SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Maxxam ID		HX4325		
Sampling Date		2010/11/19 10:13		
COC Number		B124952		
	Units	SCU6-004-MW	RDL	QC Batch

Polyaromatic Hydrocarbons				
1-Methylnaphthalene	ug/L	ND	0.05	2338189
2-Methylnaphthalene	ug/L	ND	0.05	2338189
Acenaphthene	ug/L	0.06	0.01	2338189
Acenaphthylene	ug/L	0.01	0.01	2338189
Anthracene	ug/L	0.33	0.01	2338189
Benzo(a)anthracene	ug/L	1.2	0.01	2338189
Benzo(a)pyrene	ug/L	1.2	0.01	2338189
Benzo(b)fluoranthene	ug/L	1.2	0.01	2338189
Benzo(g,h,i)perylene	ug/L	0.71	0.01	2338189
Benzo(k)fluoranthene	ug/L	0.58	0.01	2338189
Chrysene	ug/L	1.2	0.01	2338189
Dibenz(a,h)anthracene	ug/L	0.22	0.01	2338189
Fluoranthene	ug/L	2.3	0.01	2338189
Fluorene	ug/L	0.06	0.01	2338189
Indeno(1,2,3-cd)pyrene	ug/L	0.68	0.01	2338189
Naphthalene	ug/L	ND	0.2	2338189
Perylene	ug/L	0.31	0.01	2338189
Phenanthrene	ug/L	1.2	0.01	2338189
Pyrene	ug/L	1.8	0.01	2338189
Surrogate Recovery (%)				
D10-Anthracene	%	106		2338189
D14-Terphenyl	%	99		2338189
D8-Acenaphthylene	%	95		2338189

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G7033
Report Date: 2010/11/30

SLR Consulting (Canada) Ltd
Client Project #: 210.05780.00000
Project name: 2010 GWMP/HCP
Your P.O. #: SYD147

GENERAL COMMENTS

Results relate only to the items tested.

SLR Consulting (Canada) Ltd
 Attention: Kelly Henderson
 Client Project #: 210.05780.00000
 P.O. #: SYD147
 Project name: 2010 GWMP/HCP

Quality Assurance Report
 Maxxam Job Number: KB0G7033

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2338189 TML	Matrix Spike [HX4319-01]	D10-Anthracene	2010/11/30		83	%	30 - 130
		D14-Terphenyl	2010/11/30		96	%	30 - 130
		D8-Acenaphthylene	2010/11/30		92	%	30 - 130
		1-Methylnaphthalene	2010/11/30		88	%	50 - 130
		2-Methylnaphthalene	2010/11/30		80	%	50 - 130
		Acenaphthene	2010/11/30		90	%	50 - 130
		Acenaphthylene	2010/11/30		86	%	50 - 130
		Anthracene	2010/11/30		80	%	50 - 130
		Benzo(a)anthracene	2010/11/30		88	%	50 - 130
		Benzo(a)pyrene	2010/11/30		101	%	50 - 130
		Benzo(b)fluoranthene	2010/11/30		104	%	50 - 130
		Benzo(g,h,i)perylene	2010/11/30		104	%	50 - 130
		Benzo(k)fluoranthene	2010/11/30		112	%	50 - 130
		Chrysene	2010/11/30		89	%	50 - 130
		Dibenz(a,h)anthracene	2010/11/30		107	%	50 - 130
		Fluoranthene	2010/11/30		96	%	50 - 130
		Fluorene	2010/11/30		94	%	50 - 130
		Indeno(1,2,3-cd)pyrene	2010/11/30		105	%	50 - 130
		Naphthalene	2010/11/30		83	%	50 - 130
		Perylene	2010/11/30		90	%	50 - 130
		Phenanthrene	2010/11/30		85	%	50 - 130
	Pyrene	2010/11/30		88	%	50 - 130	
	Spiked Blank	D10-Anthracene	2010/11/24		106	%	30 - 130
		D14-Terphenyl	2010/11/24		97	%	30 - 130
		D8-Acenaphthylene	2010/11/24		94	%	30 - 130
		1-Methylnaphthalene	2010/11/24		85	%	50 - 130
		2-Methylnaphthalene	2010/11/24		76	%	50 - 130
		Acenaphthene	2010/11/24		98	%	50 - 130
		Acenaphthylene	2010/11/24		90	%	50 - 130
		Anthracene	2010/11/24		98	%	50 - 130
		Benzo(a)anthracene	2010/11/24		92	%	50 - 130
		Benzo(a)pyrene	2010/11/24		115	%	50 - 130
		Benzo(b)fluoranthene	2010/11/24		104	%	50 - 130
Benzo(g,h,i)perylene		2010/11/24		118	%	50 - 130	
Benzo(k)fluoranthene		2010/11/24		129	%	50 - 130	
Chrysene		2010/11/24		101	%	50 - 130	
Dibenz(a,h)anthracene		2010/11/24		110	%	50 - 130	
Fluoranthene		2010/11/24		96	%	50 - 130	
Fluorene		2010/11/24		95	%	50 - 130	
Indeno(1,2,3-cd)pyrene		2010/11/24		117	%	50 - 130	
Naphthalene	2010/11/24		85	%	50 - 130		
Perylene	2010/11/24		108	%	50 - 130		
Phenanthrene	2010/11/24		88	%	50 - 130		
Pyrene	2010/11/24		94	%	50 - 130		
Method Blank	D10-Anthracene	2010/11/30		83	%	30 - 130	
	D14-Terphenyl	2010/11/30		96	%	30 - 130	
	D8-Acenaphthylene	2010/11/30		105	%	30 - 130	
	1-Methylnaphthalene	2010/11/30	ND, RDL=0.05		ug/L		
	2-Methylnaphthalene	2010/11/30	ND, RDL=0.05		ug/L		
	Acenaphthene	2010/11/30	ND, RDL=0.01		ug/L		
	Acenaphthylene	2010/11/30	ND, RDL=0.01		ug/L		
	Anthracene	2010/11/30	ND, RDL=0.01		ug/L		
	Benzo(a)anthracene	2010/11/30	ND, RDL=0.01		ug/L		
	Benzo(a)pyrene	2010/11/30	ND, RDL=0.01		ug/L		

SLR Consulting (Canada) Ltd
 Attention: Kelly Henderson
 Client Project #: 210.05780.00000
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Quality Assurance Report (Continued)

Maxxam Job Number: KB0G7033

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits			
2338189	TML	Method Blank	Benzo(b)fluoranthene	2010/11/30	ND, RDL=0.01	ug/L				
		Benzo(g,h,i)perylene	2010/11/30	ND, RDL=0.01	ug/L					
		Benzo(k)fluoranthene	2010/11/30	ND, RDL=0.01	ug/L					
		Chrysene	2010/11/30	ND, RDL=0.01	ug/L					
		Dibenz(a,h)anthracene	2010/11/30	ND, RDL=0.01	ug/L					
		Fluoranthene	2010/11/30	ND, RDL=0.01	ug/L					
		Fluorene	2010/11/30	ND, RDL=0.01	ug/L					
		Indeno(1,2,3-cd)pyrene	2010/11/30	ND, RDL=0.01	ug/L					
		Naphthalene	2010/11/30	ND, RDL=0.2	ug/L					
		Perylene	2010/11/30	ND, RDL=0.01	ug/L					
		Phenanthrene	2010/11/30	ND, RDL=0.01	ug/L					
		Pyrene	2010/11/30	ND, RDL=0.01	ug/L					
		RPD	1-Methylnaphthalene	2010/11/30	NC	%	40			
	2-Methylnaphthalene		2010/11/30	NC	%	40				
	Acenaphthene		2010/11/30	NC	%	40				
	Acenaphthylene		2010/11/30	NC	%	40				
	Anthracene		2010/11/30	NC	%	40				
	Benzo(a)anthracene		2010/11/30	NC	%	40				
	Benzo(a)pyrene		2010/11/30	NC	%	40				
	Benzo(b)fluoranthene		2010/11/30	NC	%	40				
	Benzo(g,h,i)perylene		2010/11/30	NC	%	40				
	Benzo(k)fluoranthene		2010/11/30	NC	%	40				
	Chrysene		2010/11/30	NC	%	40				
	Dibenz(a,h)anthracene		2010/11/30	NC	%	40				
	Fluoranthene		2010/11/30	NC	%	40				
	Fluorene		2010/11/30	NC	%	40				
	Indeno(1,2,3-cd)pyrene		2010/11/30	NC	%	40				
	Naphthalene		2010/11/30	NC	%	40				
	Perylene		2010/11/30	NC	%	40				
	Phenanthrene		2010/11/30	NC	%	40				
	Pyrene		2010/11/30	NC	%	40				
	2338997		JHO	Matrix Spike	Isobutylbenzene - Extractable	2010/11/25		84	%	30 - 130
		n-Dotriacontane - Extractable		2010/11/25		90	%	30 - 130		
>C10-C16 Hydrocarbons		2010/11/25			104	%	70 - 130			
>C16-C21 Hydrocarbons		2010/11/25			98	%	70 - 130			
>C21-<C32 Hydrocarbons		2010/11/25			76	%	50 - 120			
Spiked Blank		Isobutylbenzene - Extractable	2010/11/25		96	%	30 - 130			
		n-Dotriacontane - Extractable	2010/11/25		105	%	30 - 130			
		>C10-C16 Hydrocarbons	2010/11/25		115	%	70 - 130			
		>C16-C21 Hydrocarbons	2010/11/25		107	%	70 - 130			
		>C21-<C32 Hydrocarbons	2010/11/25		85	%	50 - 120			
Method Blank		Isobutylbenzene - Extractable	2010/11/25		103	%	30 - 130			
		n-Dotriacontane - Extractable	2010/11/25		106	%	30 - 130			
		>C10-C16 Hydrocarbons	2010/11/25	ND, RDL=0.2		mg/L				
		>C16-C21 Hydrocarbons	2010/11/25	ND, RDL=0.2		mg/L				
		>C21-<C32 Hydrocarbons	2010/11/25	ND, RDL=0.5		mg/L				
RPD		>C10-C16 Hydrocarbons	2010/11/25	NC		%	40			
		>C16-C21 Hydrocarbons	2010/11/25	NC		%	40			
		>C21-<C32 Hydrocarbons	2010/11/25	NC		%	40			
		2339699	JHO	Matrix Spike	Isobutylbenzene - Extractable	2010/11/26		102	%	30 - 130
				n-Dotriacontane - Extractable	2010/11/26		101	%	30 - 130	
>C10-C16 Hydrocarbons	2010/11/26				114	%	70 - 130			
>C16-C21 Hydrocarbons	2010/11/26				122	%	70 - 130			
>C21-<C32 Hydrocarbons	2010/11/26				86	%	50 - 120			
Spiked Blank	Isobutylbenzene - Extractable	2010/11/26		90	%	30 - 130				

SLR Consulting (Canada) Ltd
 Attention: Kelly Henderson
 Client Project #: 210.05780.00000
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Quality Assurance Report (Continued)

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits		
2339699 JHO	Spiked Blank	n-Dotriacontane - Extractable	2010/11/26		106	%	30 - 130		
		>C10-C16 Hydrocarbons	2010/11/26		97	%	70 - 130		
		>C16-C21 Hydrocarbons	2010/11/26		95	%	70 - 130		
		>C21-<C32 Hydrocarbons	2010/11/26		68	%	50 - 120		
	Method Blank	Isobutylbenzene - Extractable	2010/11/26			100	%	30 - 130	
		n-Dotriacontane - Extractable	2010/11/26			100	%	30 - 130	
		>C10-C16 Hydrocarbons	2010/11/26	ND, RDL=0.2			mg/L		
		>C16-C21 Hydrocarbons	2010/11/26	ND, RDL=0.2			mg/L		
	RPD	>C21-<C32 Hydrocarbons	2010/11/26	ND, RDL=0.5			mg/L		
		>C10-C16 Hydrocarbons	2010/11/26	NC			%	40	
		>C16-C21 Hydrocarbons	2010/11/26	NC			%	40	
		>C21-<C32 Hydrocarbons	2010/11/26	NC			%	40	
2340277 SHL	Matrix Spike [HX4322-01]	Isobutylbenzene - Volatile	2010/11/25		86	%	70 - 130		
		Benzene	2010/11/25		100	%	70 - 130		
		Toluene	2010/11/25		96	%	70 - 130		
		Ethylbenzene	2010/11/25		91	%	70 - 130		
		Xylene (Total)	2010/11/25		94	%	70 - 130		
	Spiked Blank	Isobutylbenzene - Volatile	2010/11/25			85	%	70 - 130	
		Benzene	2010/11/25			87	%	70 - 130	
		Toluene	2010/11/25			91	%	70 - 130	
		Ethylbenzene	2010/11/25			89	%	70 - 130	
	Method Blank	Xylene (Total)	2010/11/25			90	%	70 - 130	
		Isobutylbenzene - Volatile	2010/11/26			97	%	70 - 130	
		Benzene	2010/11/26	ND, RDL=0.001			mg/L		
		Toluene	2010/11/26	ND, RDL=0.001			mg/L		
		Ethylbenzene	2010/11/26	ND, RDL=0.001			mg/L		
		Xylene (Total)	2010/11/26	ND, RDL=0.002			mg/L		
		C6 - C10 (less BTEX)	2010/11/26	ND, RDL=0.01			mg/L		
		RPD [HX4319-01]	Benzene	2010/11/25	NC		%	40	
	2341739 BMI	Matrix Spike	Total Mercury (Hg)	2010/11/25		93	%	80 - 120	
			QC Standard	Total Mercury (Hg)	2010/11/25		100	%	80 - 120
		Spiked Blank	Total Mercury (Hg)	2010/11/25		97	%	80 - 120	
		Method Blank	Total Mercury (Hg)	2010/11/25	ND, RDL=0.013		ug/L		
		RPD	Total Mercury (Hg)	2010/11/25	NC		%	25	
		2342393 MBU	Matrix Spike	Dissolved Aluminum (Al)	2010/11/26		102	%	75 - 125
				Dissolved Antimony (Sb)	2010/11/26		107	%	75 - 125
Dissolved Arsenic (As)				2010/11/26		94	%	75 - 125	
Dissolved Barium (Ba)	2010/11/26				104	%	75 - 125		
Dissolved Beryllium (Be)	2010/11/26				99	%	75 - 125		
Dissolved Bismuth (Bi)	2010/11/26				106	%	75 - 125		
Dissolved Boron (B)	2010/11/26				101	%	75 - 125		
Dissolved Cadmium (Cd)	2010/11/26				108	%	75 - 125		
Dissolved Calcium (Ca)	2010/11/26				107	%	75 - 125		
Dissolved Chromium (Cr)	2010/11/26				109	%	75 - 125		
Dissolved Cobalt (Co)	2010/11/26				110	%	75 - 125		
Dissolved Copper (Cu)	2010/11/26				102	%	75 - 125		
Dissolved Iron (Fe)	2010/11/26				103	%	75 - 125		
Dissolved Lead (Pb)	2010/11/26				108	%	75 - 125		
Dissolved Lithium (Li)	2010/11/26		97	%	75 - 125				
Dissolved Magnesium (Mg)	2010/11/26		100	%	75 - 125				

SLR Consulting (Canada) Ltd
 Attention: Kelly Henderson
 Client Project #: 210.05780.00000
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Quality Assurance Report (Continued)

Maxxam Job Number: KB0G7033

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2342393 MBU	Matrix Spike	Dissolved Manganese (Mn)	2010/11/26		106	%	75 - 125
		Dissolved Molybdenum (Mo)	2010/11/26		109	%	75 - 125
		Dissolved Nickel (Ni)	2010/11/26		106	%	75 - 125
		Dissolved Phosphorus (P)	2010/11/26		110	%	75 - 125
		Dissolved Potassium (K)	2010/11/26		103	%	75 - 125
		Dissolved Selenium (Se)	2010/11/26		108	%	75 - 125
		Dissolved Silver (Ag)	2010/11/26		91	%	75 - 125
		Dissolved Sodium (Na)	2010/11/26		106	%	75 - 125
		Dissolved Strontium (Sr)	2010/11/26		100	%	75 - 125
		Dissolved Thallium (Tl)	2010/11/26		107	%	75 - 125
		Dissolved Tin (Sn)	2010/11/26		107	%	75 - 125
		Dissolved Titanium (Ti)	2010/11/26		99	%	75 - 125
		Dissolved Uranium (U)	2010/11/26		108	%	75 - 125
		Dissolved Vanadium (V)	2010/11/26		109	%	75 - 125
		Dissolved Zinc (Zn)	2010/11/26		100	%	75 - 125
	QC Standard	Dissolved Aluminum (Al)	2010/11/26		111	%	75 - 125
		Dissolved Antimony (Sb)	2010/11/26		121	%	75 - 125
		Dissolved Arsenic (As)	2010/11/26		91	%	75 - 125
		Dissolved Barium (Ba)	2010/11/26		100	%	75 - 125
		Dissolved Beryllium (Be)	2010/11/26		97	%	75 - 125
		Dissolved Bismuth (Bi)	2010/11/26		120	%	75 - 125
		Dissolved Boron (B)	2010/11/26		107	%	75 - 125
		Dissolved Cadmium (Cd)	2010/11/26		104	%	75 - 125
		Dissolved Calcium (Ca)	2010/11/26		92	%	75 - 125
		Dissolved Chromium (Cr)	2010/11/26		103	%	75 - 125
		Dissolved Cobalt (Co)	2010/11/26		107	%	75 - 125
		Dissolved Copper (Cu)	2010/11/26		99	%	75 - 125
		Dissolved Lead (Pb)	2010/11/26		106	%	75 - 125
		Dissolved Lithium (Li)	2010/11/26		97	%	75 - 125
		Dissolved Magnesium (Mg)	2010/11/26		100	%	75 - 125
		Dissolved Manganese (Mn)	2010/11/26		107	%	75 - 125
		Dissolved Molybdenum (Mo)	2010/11/26		108	%	75 - 125
		Dissolved Nickel (Ni)	2010/11/26		101	%	75 - 125
		Dissolved Potassium (K)	2010/11/26		94	%	75 - 125
		Dissolved Selenium (Se)	2010/11/26		92	%	75 - 125
		Dissolved Silver (Ag)	2010/11/26		102	%	75 - 125
		Dissolved Sodium (Na)	2010/11/26		100	%	75 - 125
		Dissolved Strontium (Sr)	2010/11/26		98	%	75 - 125
		Dissolved Thallium (Tl)	2010/11/26		107	%	75 - 125
		Dissolved Vanadium (V)	2010/11/26		104	%	75 - 125
		Dissolved Zinc (Zn)	2010/11/26		96	%	75 - 125
	Spiked Blank	Dissolved Aluminum (Al)	2010/11/26		105	%	75 - 125
		Dissolved Antimony (Sb)	2010/11/26		111	%	75 - 125
		Dissolved Arsenic (As)	2010/11/26		96	%	75 - 125
		Dissolved Barium (Ba)	2010/11/26		108	%	75 - 125
		Dissolved Beryllium (Be)	2010/11/26		107	%	75 - 125
		Dissolved Bismuth (Bi)	2010/11/26		107	%	75 - 125
		Dissolved Boron (B)	2010/11/26		112	%	75 - 125
		Dissolved Cadmium (Cd)	2010/11/26		113	%	75 - 125
		Dissolved Calcium (Ca)	2010/11/26		97	%	75 - 125
		Dissolved Chromium (Cr)	2010/11/26		110	%	75 - 125
		Dissolved Cobalt (Co)	2010/11/26		111	%	75 - 125
		Dissolved Copper (Cu)	2010/11/26		106	%	75 - 125
		Dissolved Iron (Fe)	2010/11/26		97	%	75 - 125
		Dissolved Lead (Pb)	2010/11/26		111	%	75 - 125

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Quality Assurance Report (Continued)

Maxxam Job Number: KB0G7033

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2342393 MBU	Spiked Blank	Dissolved Lithium (Li)	2010/11/26		102	%	75 - 125
		Dissolved Magnesium (Mg)	2010/11/26		103	%	75 - 125
		Dissolved Manganese (Mn)	2010/11/26		107	%	75 - 125
		Dissolved Molybdenum (Mo)	2010/11/26		112	%	75 - 125
		Dissolved Nickel (Ni)	2010/11/26		110	%	75 - 125
		Dissolved Phosphorus (P)	2010/11/26		113	%	75 - 125
		Dissolved Potassium (K)	2010/11/26		99	%	75 - 125
		Dissolved Selenium (Se)	2010/11/26		111	%	75 - 125
		Dissolved Silver (Ag)	2010/11/26		92	%	75 - 125
		Dissolved Sodium (Na)	2010/11/26		103	%	75 - 125
		Dissolved Strontium (Sr)	2010/11/26		112	%	75 - 125
		Dissolved Thallium (Tl)	2010/11/26		110	%	75 - 125
		Dissolved Tin (Sn)	2010/11/26		110	%	75 - 125
		Dissolved Titanium (Ti)	2010/11/26		98	%	75 - 125
		Dissolved Uranium (U)	2010/11/26		111	%	75 - 125
		Dissolved Vanadium (V)	2010/11/26		110	%	75 - 125
		Dissolved Zinc (Zn)	2010/11/26		106	%	75 - 125
	Method Blank	Dissolved Aluminum (Al)	2010/11/26	ND, RDL=5.0		ug/L	
		Dissolved Antimony (Sb)	2010/11/26	ND, RDL=0.40		ug/L	
		Dissolved Arsenic (As)	2010/11/26	ND, RDL=0.60		ug/L	
		Dissolved Barium (Ba)	2010/11/26	ND, RDL=0.40		ug/L	
		Dissolved Beryllium (Be)	2010/11/26	ND, RDL=0.50		ug/L	
		Dissolved Bismuth (Bi)	2010/11/26	ND, RDL=2.0		ug/L	
		Dissolved Boron (B)	2010/11/26	ND, RDL=100		ug/L	
		Dissolved Cadmium (Cd)	2010/11/26	ND, RDL=0.017		ug/L	
		Dissolved Calcium (Ca)	2010/11/26	ND, RDL=100		ug/L	
		Dissolved Chromium (Cr)	2010/11/26	ND, RDL=1.0		ug/L	
		Dissolved Cobalt (Co)	2010/11/26	ND, RDL=1.0		ug/L	
		Dissolved Copper (Cu)	2010/11/26	ND, RDL=2.0		ug/L	
		Dissolved Iron (Fe)	2010/11/26	ND, RDL=100		ug/L	
		Dissolved Lead (Pb)	2010/11/26	ND, RDL=1.0		ug/L	
		Dissolved Lithium (Li)	2010/11/26	ND, RDL=1.0		ug/L	
		Dissolved Magnesium (Mg)	2010/11/26	ND, RDL=60		ug/L	
		Dissolved Manganese (Mn)	2010/11/26	ND, RDL=4.0		ug/L	
		Dissolved Molybdenum (Mo)	2010/11/26	ND, RDL=4.0		ug/L	
		Dissolved Nickel (Ni)	2010/11/26	ND, RDL=3.0		ug/L	
		Dissolved Phosphorus (P)	2010/11/26	ND, RDL=100		ug/L	
		Dissolved Potassium (K)	2010/11/26	ND, RDL=600		ug/L	
		Dissolved Selenium (Se)	2010/11/26	ND, RDL=1.0		ug/L	
		Dissolved Silver (Ag)	2010/11/26	ND, RDL=0.10		ug/L	
		Dissolved Sodium (Na)	2010/11/26	ND, RDL=300		ug/L	
		Dissolved Strontium (Sr)	2010/11/26	ND, RDL=2.0		ug/L	
		Dissolved Thallium (Tl)	2010/11/26	ND, RDL=0.80		ug/L	
		Dissolved Tin (Sn)	2010/11/26	ND, RDL=20		ug/L	
		Dissolved Titanium (Ti)	2010/11/26	ND, RDL=3.0		ug/L	
		Dissolved Uranium (U)	2010/11/26	ND, RDL=0.15		ug/L	
		Dissolved Vanadium (V)	2010/11/26	ND, RDL=2.0		ug/L	
		Dissolved Zinc (Zn)	2010/11/26	ND, RDL=5.0		ug/L	
	RPD	Dissolved Aluminum (Al)	2010/11/26	1.9		%	25
		Dissolved Antimony (Sb)	2010/11/26	NC		%	25
		Dissolved Arsenic (As)	2010/11/26	NC		%	25
		Dissolved Barium (Ba)	2010/11/26	1.1		%	25
		Dissolved Beryllium (Be)	2010/11/26	NC		%	25
		Dissolved Bismuth (Bi)	2010/11/26	NC		%	25
		Dissolved Boron (B)	2010/11/26	NC		%	25

SLR Consulting (Canada) Ltd
 Attention: Kelly Henderson
 Client Project #: 210.05780.00000
 P.O. #: SYD147
 Project name: 2010 GWMP/HCP

Quality Assurance Report (Continued)

Maxxam Job Number: KB0G7033

QA/QC Batch			Date Analyzed					
Num Init	QC Type	Parameter	yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2342393	MBU RPD	Dissolved Cadmium (Cd)	2010/11/26	NC		%	25	
		Dissolved Calcium (Ca)	2010/11/26	2.8		%	25	
		Dissolved Chromium (Cr)	2010/11/26	NC		%	25	
		Dissolved Cobalt (Co)	2010/11/26	NC		%	25	
		Dissolved Copper (Cu)	2010/11/26	NC		%	25	
		Dissolved Iron (Fe)	2010/11/26	2.8		%	25	
		Dissolved Lead (Pb)	2010/11/26	NC		%	25	
		Dissolved Lithium (Li)	2010/11/26	NC		%	25	
		Dissolved Magnesium (Mg)	2010/11/26	0.04		%	25	
		Dissolved Manganese (Mn)	2010/11/26	2.1		%	25	
		Dissolved Molybdenum (Mo)	2010/11/26	NC		%	25	
		Dissolved Nickel (Ni)	2010/11/26	NC		%	25	
		Dissolved Phosphorus (P)	2010/11/26	NC		%	25	
		Dissolved Potassium (K)	2010/11/26	NC		%	25	
		Dissolved Selenium (Se)	2010/11/26	NC		%	25	
		Dissolved Silver (Ag)	2010/11/26	NC		%	25	
		Dissolved Sodium (Na)	2010/11/26	2.1		%	25	
		Dissolved Strontium (Sr)	2010/11/26	1.6		%	25	
		Dissolved Thallium (Tl)	2010/11/26	NC		%	25	
		Dissolved Tin (Sn)	2010/11/26	NC		%	25	
		Dissolved Titanium (Ti)	2010/11/26	NC		%	25	
		Dissolved Uranium (U)	2010/11/26	NC		%	25	
		Dissolved Vanadium (V)	2010/11/26	NC		%	25	
		Dissolved Zinc (Zn)	2010/11/26	NC		%	25	

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
 Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
 QC Standard: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

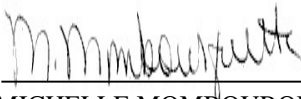
Validation Signature Page

Maxxam Job #: B0G7033

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



ALAN STEWART, Scientific Specialist (Organics)



MICHELLE MOMBOURQUETTE, Laboratory Manager

=====

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Your P.O. #: SYD147
 Your Project #: 210.05780.00000
 Site: 2010 DWMP/HCP
 Your C.O.C. #: B124950

Attention: Kelly Henderson
 SLR Consulting (Canada) Ltd
 45 Wabina Crt., Suite 107B
 PO Box 791, Station A
 Sydney, NS
 B1P 6K5

Report Date: 2010/11/30

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B0G7066
Received: 2010/11/19, 15:41

Sample Matrix: Water
 # Samples Received: 10

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
TEH in Water (PIRI)	10	2010/11/24	2010/11/26	ATL SOP-00151 R5	Based on ATL PIRI
Mercury - Total (CVAA,LL)	2	2010/11/26	2010/11/25	ATL SOP-00160 R5	Based on EPA245.1
Mercury - Total (CVAA,LL)	8	2010/11/26	2010/11/26	ATL SOP-00160 R5	Based on EPA245.1
Elements by ICPMS - low dissolved	3	N/A	2010/11/26	ATL SOP 00161 R6	Based on EPA6020A
Elements by ICPMS - low dissolved	6	N/A	2010/11/27	ATL SOP 00161 R6	Based on EPA6020A
Elements by ICPMS - low dissolved	1	N/A	2010/11/29	ATL SOP 00161 R6	Based on EPA6020A
PAH in Water by GC/MS (SIM)	10	2010/11/24	2010/11/30	ATL SOP 00147 R5	Based on EPA 8270C
VPH in Water (PIRI) ☺	6	2010/11/25	2010/11/25	ATL SOP 00118 R4	Based on Atl. PIRI
VPH in Water (PIRI) ☺	3	2010/11/25	2010/11/26	ATL SOP 00118 R4	Based on Atl. PIRI
VPH in Water (PIRI) ☺	1	2010/11/25	2010/11/29	ATL SOP 00118 R4	Based on Atl. PIRI
ModTPH (T1) Calc. for Water	10	N/A	2010/11/30	ATL SOP-00151 R4	Based on Atl PIRI
Volatile Organic Compounds in Water ☺	1	2010/11/24	2010/11/25	ATL SOP 00122 R4	Based on EPA624

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bedford

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

TRACY MACLEOD-FLOYD,
 Email: TMacLeod@maxxam.ca
 Phone# (902) 567 1255

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 1

Maxxam Job #: B0G7066
Report Date: 2010/11/30

SLR Consulting (Canada) Ltd
Client Project #: 210.05780.00000
Project name: 2010 DWMP/HCP
Your P.O. #: SYD147

ATLANTIC VOC IN WATER (WATER)

Maxxam ID		HX4452		
Sampling Date		2010/11/18 23:15		
COC Number		B124950		
	Units	SCU24-013-MW	RDL	QC Batch

Chlorobenzenes				
1,2-Dichlorobenzene	ug/L	ND	0.5	2339717
1,3-Dichlorobenzene	ug/L	ND	1	2339717
1,4-Dichlorobenzene	ug/L	ND	1	2339717
Chlorobenzene	ug/L	ND	1	2339717
Volatile Organics				
1,1,1-Trichloroethane	ug/L	ND	1	2339717
1,1,2,2-Tetrachloroethane	ug/L	ND	1	2339717
1,1,2-Trichloroethane	ug/L	ND	1	2339717
1,1-Dichloroethane	ug/L	ND	2	2339717
1,1-Dichloroethylene	ug/L	ND	0.5	2339717
1,2-Dichloroethane	ug/L	ND	1	2339717
1,2-Dichloropropane	ug/L	ND	1	2339717
Benzene	ug/L	ND	1	2339717
Bromodichloromethane	ug/L	ND	1	2339717
Bromoform	ug/L	ND	1	2339717
Bromomethane	ug/L	ND	3	2339717
Carbon Tetrachloride	ug/L	ND	1	2339717
Chloroethane	ug/L	ND	8	2339717
Chloroform	ug/L	ND	1	2339717
Chloromethane	ug/L	ND	8	2339717
cis-1,2-Dichloroethylene	ug/L	ND	2	2339717
cis-1,3-Dichloropropene	ug/L	ND	2	2339717
Dibromochloromethane	ug/L	ND	1	2339717
Ethylbenzene	ug/L	ND	1	2339717
Ethylene Dibromide	ug/L	ND	1	2339717
Methylene Chloride(Dichloromethane)	ug/L	ND	3	2339717
o-Xylene	ug/L	ND	1	2339717
p+m-Xylene	ug/L	ND	2	2339717
Styrene	ug/L	ND	1	2339717
Tetrachloroethylene	ug/L	ND	1	2339717
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch				

Maxxam Job #: B0G7066
 Report Date: 2010/11/30

SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 DWMP/HCP
 Your P.O. #: SYD147

ATLANTIC VOC IN WATER (WATER)

Maxxam ID		HX4452		
Sampling Date		2010/11/18 23:15		
COC Number		B124950		
	Units	SCU24-013-MW	RDL	QC Batch

Toluene	ug/L	ND	1	2339717
trans-1,2-Dichloroethylene	ug/L	ND	2	2339717
trans-1,3-Dichloropropene	ug/L	ND	1	2339717
Trichloroethylene	ug/L	ND	1	2339717
Trichlorofluoromethane (FREON 11)	ug/L	ND	8	2339717
Vinyl Chloride	ug/L	ND	0.5	2339717
Surrogate Recovery (%)				
4-Bromofluorobenzene	%	100		2339717
D4-1,2-Dichloroethane	%	100		2339717
D8-Toluene	%	100		2339717

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G7066
 Report Date: 2010/11/30

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 DWMP/HCP
 Your P.O. #: SYD147

SYD/ BED TIER1 (WATER)

Maxxam ID		HX4447	HX4448	HX4449	HX4450		
Sampling Date		2010/11/18 23:15	2010/11/18 23:15	2010/11/18 23:15	2010/11/18 23:15		
COC Number		B124950	B124950	B124950	B124950		
	Units	SCU24-007-MWB	SCU31-013-MWA	SCU31-013-MWB	FD6	RDL	QC Batch

Petroleum Hydrocarbons							
Benzene	mg/L	ND	ND	ND	ND	0.001	2340277
Toluene	mg/L	ND	ND	ND	ND	0.001	2340277
Ethylbenzene	mg/L	ND	ND	ND	ND	0.001	2340277
Xylene (Total)	mg/L	ND	ND	ND	ND	0.002	2340277
C6 - C10 (less BTEX)	mg/L	ND	ND	ND	ND	0.01	2340277
>C10-C16 Hydrocarbons	mg/L	ND	ND	ND	ND	0.2	2339699
>C16-C21 Hydrocarbons	mg/L	ND	ND	ND	ND	0.2	2339699
>C21-<C32 Hydrocarbons	mg/L	ND	ND	ND	ND	0.5	2339699
Modified TPH (Tier1)	mg/L	ND	ND	ND	ND	0.5	2335131
Reached Baseline at C32	mg/L	Yes	Yes	Yes	Yes	N/A	2339699
Hydrocarbon Resemblance	mg/L	NA	NA	NA	NA	N/A	2339699
Surrogate Recovery (%)							
Isobutylbenzene - Extractable	%	100	94	106	106		2339699
n-Dotriacontane - Extractable	%	117	112	117	118		2339699
Isobutylbenzene - Volatile	%	89	94	94	97		2340277

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G7066
 Report Date: 2010/11/30

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 DWMP/HCP
 Your P.O. #: SYD147

SYD/ BED TIER1 (WATER)

Maxxam ID		HX4451	HX4452		HX4453	HX4454		
Sampling Date		2010/11/18 23:15	2010/11/18 23:15		2010/11/18 23:15	2010/11/18 23:15		
COC Number		B124950	B124950		B124950	B124950		
	Units	SCU31-013-MWC	SCU24-013-MW	QC Batch	SCU19-016-MW	SCU19-002-MWB	RDL	QC Batch

Petroleum Hydrocarbons								
Benzene	mg/L	ND	ND	2340277	ND	ND	0.001	2340328
Toluene	mg/L	ND	ND	2340277	ND	ND	0.001	2340328
Ethylbenzene	mg/L	ND	ND	2340277	ND	ND	0.001	2340328
Xylene (Total)	mg/L	ND	ND	2340277	ND	ND	0.002	2340328
C6 - C10 (less BTEX)	mg/L	ND	ND	2340277	ND	ND	0.01	2340328
>C10-C16 Hydrocarbons	mg/L	ND	ND	2339699	ND	ND	0.2	2339699
>C16-C21 Hydrocarbons	mg/L	ND	ND	2339699	ND	ND	0.2	2339699
>C21-<C32 Hydrocarbons	mg/L	ND	ND	2339699	ND	ND	0.5	2339699
Modified TPH (Tier1)	mg/L	ND	ND	2335131	ND	ND	0.5	2335131
Reached Baseline at C32	mg/L	Yes	Yes	2339699	Yes	Yes	N/A	2339699
Hydrocarbon Resemblance	mg/L	NA	NA	2339699	NA	NA	N/A	2339699
Surrogate Recovery (%)								
Isobutylbenzene - Extractable	%	108	97	2339699	101	94		2339699
n-Dotriacontane - Extractable	%	129	115	2339699	120	110		2339699
Isobutylbenzene - Volatile	%	90	96	2340277	83	75		2340328

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G7066
 Report Date: 2010/11/30

SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 DWMP/HCP
 Your P.O. #: SYD147

SYD/ BED TIER1 (WATER)

Maxxam ID		HX4455		HX4457		
Sampling Date		2010/11/18 23:15		2010/11/18 23:15		
COC Number		B124950		B124950		
	Units	SCU19-015-MW	RDL	SCU19-002-MWA	RDL	QC Batch

Petroleum Hydrocarbons						
Benzene	mg/L	ND	0.001	ND	0.001	2340328
Toluene	mg/L	ND	0.001	ND	0.001	2340328
Ethylbenzene	mg/L	ND	0.001	ND	0.001	2340328
Xylene (Total)	mg/L	ND	0.003	ND	0.002	2340328
C6 - C10 (less BTEX)	mg/L	ND	0.01	ND	0.01	2340328
>C10-C16 Hydrocarbons	mg/L	ND	0.2	ND	0.2	2339699
>C16-C21 Hydrocarbons	mg/L	ND	0.2	ND	0.2	2339699
>C21-<C32 Hydrocarbons	mg/L	ND	0.5	ND	0.5	2339699
Modified TPH (Tier1)	mg/L	ND	0.5	ND	0.5	2335131
Reached Baseline at C32	mg/L	Yes	N/A	Yes	N/A	2339699
Hydrocarbon Resemblance	mg/L	NA	N/A	NA	N/A	2339699
Surrogate Recovery (%)						
Isobutylbenzene - Extractable	%	102		93		2339699
n-Dotriacontane - Extractable	%	112		111		2339699
Isobutylbenzene - Volatile	%	114 (1)		73		2340328

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 (1) VPH analysis performed on previously opened vial.

Maxxam Job #: B0G7066
Report Date: 2010/11/30

SLR Consulting (Canada) Ltd
Client Project #: 210.05780.00000
Project name: 2010 DWMP/HCP
Your P.O. #: SYD147

MERCURY BY COLD VAPOUR AA (WATER)

Maxxam ID		HX4447	HX4448		HX4449	HX4450		
Sampling Date		2010/11/18 23:15	2010/11/18 23:15		2010/11/18 23:15	2010/11/18 23:15		
COC Number		B124950	B124950		B124950	B124950		
	Units	SCU24-007-MWB	SCU31-013-MWA	QC Batch	SCU31-013-MWB	FD6	RDL	QC Batch

Metals								
Total Mercury (Hg)	ug/L	ND	0.061	2341744	ND	ND	0.013	2342172
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch								

Maxxam ID		HX4451	HX4452	HX4453	HX4454	HX4455		
Sampling Date		2010/11/18 23:15	2010/11/18 23:15	2010/11/18 23:15	2010/11/18 23:15	2010/11/18 23:15		
COC Number		B124950	B124950	B124950	B124950	B124950		
	Units	SCU31-013-MWC	SCU24-013-MW	SCU19-016-MW	SCU19-002-MWB	SCU19-015-MW	RDL	QC Batch

Metals								
Total Mercury (Hg)	ug/L	ND	ND	ND	ND	ND	0.013	2342172
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch								

Maxxam ID		HX4457		
Sampling Date		2010/11/18 23:15		
COC Number		B124950		
	Units	SCU19-002-MWA	RDL	QC Batch

Metals				
Total Mercury (Hg)	ug/L	ND	0.013	2342172
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch				

Maxxam Job #: B0G7066
 Report Date: 2010/11/30

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 DWMP/HCP
 Your P.O. #: SYD147

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		HX4447			HX4448		HX4449		
Sampling Date		2010/11/18 23:15			2010/11/18 23:15		2010/11/18 23:15		
COC Number		B124950			B124950		B124950		
	Units	SCU24-007-MWB	RDL	QC Batch	SCU31-013-MWA	RDL	SCU31-013-MWB	RDL	QC Batch

Metals									
Dissolved Aluminum (Al)	ug/L	13	5.0	2342393	130	5.0	14	5.0	2342396
Dissolved Antimony (Sb)	ug/L	ND	0.40	2342393	ND	0.40	ND	0.40	2342396
Dissolved Arsenic (As)	ug/L	14	0.60	2342393	1.2	0.60	6.1	0.60	2342396
Dissolved Barium (Ba)	ug/L	9.8	0.40	2342393	78	0.40	69	0.40	2342396
Dissolved Beryllium (Be)	ug/L	ND	0.50	2342393	ND	0.50	ND	0.50	2342396
Dissolved Bismuth (Bi)	ug/L	ND	2.0	2342393	ND	2.0	ND	2.0	2342396
Dissolved Boron (B)	ug/L	150	100	2342393	ND	100	410	100	2342396
Dissolved Cadmium (Cd)	ug/L	ND	0.017	2342393	0.13	0.017	ND	0.017	2342396
Dissolved Calcium (Ca)	ug/L	820000	100	2342393	160000	100	240000	100	2342396
Dissolved Chromium (Cr)	ug/L	ND	1.0	2342393	1.6	1.0	ND	1.0	2342396
Dissolved Cobalt (Co)	ug/L	1.6	1.0	2342393	ND	1.0	ND	1.0	2342396
Dissolved Copper (Cu)	ug/L	ND	2.0	2342393	ND	2.0	ND	2.0	2342396
Dissolved Iron (Fe)	ug/L	1400	100	2342393	ND	100	ND	100	2342396
Dissolved Lead (Pb)	ug/L	ND	1.0	2342393	ND	1.0	ND	1.0	2342396
Dissolved Lithium (Li)	ug/L	56	1.0	2342393	47	1.0	20	1.0	2342396
Dissolved Magnesium (Mg)	ug/L	48000	60	2342393	ND	60	43000	60	2342396
Dissolved Manganese (Mn)	ug/L	490	4.0	2342393	ND	4.0	170	4.0	2342396
Dissolved Molybdenum (Mo)	ug/L	ND	4.0	2342393	23	4.0	12	4.0	2342396
Dissolved Nickel (Ni)	ug/L	ND	3.0	2342393	ND	3.0	ND	3.0	2342396
Dissolved Phosphorus (P)	ug/L	ND	100	2342393	ND	100	ND	100	2342396
Dissolved Potassium (K)	ug/L	8300	600	2342393	18000	600	32000	600	2342396
Dissolved Selenium (Se)	ug/L	ND	1.0	2342393	3.3	1.0	9.3	1.0	2342396
Dissolved Silver (Ag)	ug/L	0.21	0.10	2342393	ND	0.10	ND	0.10	2342396
Dissolved Sodium (Na)	ug/L	570000	3000	2342393	96000	300	480000	3000	2342396
Dissolved Strontium (Sr)	ug/L	24000	2.0	2342393	810	2.0	5400	2.0	2342396
Dissolved Thallium (Tl)	ug/L	ND	0.80	2342393	ND	0.80	ND	0.80	2342396
Dissolved Tin (Sn)	ug/L	ND	20	2342393	ND	20	ND	20	2342396
Dissolved Titanium (Ti)	ug/L	ND	3.0	2342393	ND	3.0	ND	3.0	2342396
Dissolved Uranium (U)	ug/L	1.3	0.15	2342393	ND	0.15	ND	0.15	2342396
Dissolved Vanadium (V)	ug/L	ND	2.0	2342393	27	2.0	ND	2.0	2342396

 ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G7066
 Report Date: 2010/11/30

SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 DWMP/HCP
 Your P.O. #: SYD147

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		HX4447			HX4448		HX4449		
Sampling Date		2010/11/18 23:15			2010/11/18 23:15		2010/11/18 23:15		
COC Number		B124950			B124950		B124950		
	Units	SCU24-007-MWB	RDL	QC Batch	SCU31-013-MWA	RDL	SCU31-013-MWB	RDL	QC Batch

Dissolved Zinc (Zn)	ug/L	ND	5.0	2342393	ND	5.0	ND	5.0	2342396
---------------------	------	----	-----	---------	----	-----	----	-----	---------

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G7066
 Report Date: 2010/11/30

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 DWMP/HCP
 Your P.O. #: SYD147

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		HX4450	HX4451		HX4452		HX4453		
Sampling Date		2010/11/18 23:15	2010/11/18 23:15		2010/11/18 23:15		2010/11/18 23:15		
COC Number		B124950	B124950		B124950		B124950		
	Units	FD6	SCU31-013-MWC	RDL	SCU24-013-MW	RDL	SCU19-016-MW	RDL	QC Batch

Metals									
Dissolved Aluminum (Al)	ug/L	16	28	5.0	8.8	5.0	7.9	5.0	2342396
Dissolved Antimony (Sb)	ug/L	ND	ND	0.40	ND	0.40	ND	0.40	2342396
Dissolved Arsenic (As)	ug/L	14	11	0.60	11	0.60	ND	0.60	2342396
Dissolved Barium (Ba)	ug/L	9.7	12	0.40	11	0.40	45	0.40	2342396
Dissolved Beryllium (Be)	ug/L	ND	ND	0.50	ND	0.50	ND	0.50	2342396
Dissolved Bismuth (Bi)	ug/L	ND	ND	2.0	ND	2.0	ND	2.0	2342396
Dissolved Boron (B)	ug/L	170	460	100	130	100	540	100	2342396
Dissolved Cadmium (Cd)	ug/L	ND	ND	0.017	ND	0.017	0.020	0.017	2342396
Dissolved Calcium (Ca)	ug/L	840000	710000	100	610000	100	170000	100	2342396
Dissolved Chromium (Cr)	ug/L	3.0	1.0	1.0	ND	1.0	1.7	1.0	2342396
Dissolved Cobalt (Co)	ug/L	1.7	1.5	1.0	1.4	1.0	ND	1.0	2342396
Dissolved Copper (Cu)	ug/L	ND	ND	2.0	ND	2.0	ND	2.0	2342396
Dissolved Iron (Fe)	ug/L	1700	920	100	18000	100	ND	100	2342396
Dissolved Lead (Pb)	ug/L	ND	ND	1.0	ND	1.0	ND	1.0	2342396
Dissolved Lithium (Li)	ug/L	56	90	1.0	86	1.0	43	1.0	2342396
Dissolved Magnesium (Mg)	ug/L	50000	110000	60	94000	60	5600	60	2342396
Dissolved Manganese (Mn)	ug/L	490	430	4.0	1900	4.0	ND	4.0	2342396
Dissolved Molybdenum (Mo)	ug/L	ND	5.7	4.0	ND	4.0	11	4.0	2342396
Dissolved Nickel (Ni)	ug/L	ND	ND	3.0	ND	3.0	ND	3.0	2342396
Dissolved Phosphorus (P)	ug/L	ND	ND	100	180	100	ND	100	2342396
Dissolved Potassium (K)	ug/L	8600	19000	600	7100	600	16000	600	2342396
Dissolved Selenium (Se)	ug/L	2.1	ND	1.0	1.7	1.0	3.1	1.0	2342396
Dissolved Silver (Ag)	ug/L	ND	ND	0.10	ND	0.10	ND	0.10	2342396
Dissolved Sodium (Na)	ug/L	570000	880000	3000	60000	300	150000	3000	2342396
Dissolved Strontium (Sr)	ug/L	24000	25000	2.0	790	2.0	2600	2.0	2342396
Dissolved Thallium (Tl)	ug/L	ND	ND	0.80	ND	0.80	ND	0.80	2342396
Dissolved Tin (Sn)	ug/L	ND	ND	20	ND	20	ND	20	2342396
Dissolved Titanium (Ti)	ug/L	ND	3.2	3.0	ND	3.0	ND	3.0	2342396
Dissolved Uranium (U)	ug/L	1.3	0.95	0.15	0.22	0.15	ND	0.15	2342396
Dissolved Vanadium (V)	ug/L	ND	ND	2.0	ND	2.0	ND	2.0	2342396

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G7066
 Report Date: 2010/11/30

SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 DWMP/HCP
 Your P.O. #: SYD147

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		HX4450	HX4451		HX4452		HX4453		
Sampling Date		2010/11/18 23:15	2010/11/18 23:15		2010/11/18 23:15		2010/11/18 23:15		
COC Number		B124950	B124950		B124950		B124950		
	Units	FD6	SCU31-013-MWC	RDL	SCU24-013-MW	RDL	SCU19-016-MW	RDL	QC Batch

Dissolved Zinc (Zn)	ug/L	ND	ND	5.0	ND	5.0	ND	5.0	2342396
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ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G7066
 Report Date: 2010/11/30

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 DWMP/HCP
 Your P.O. #: SYD147

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		HX4454		HX4455		HX4457		
Sampling Date		2010/11/18 23:15		2010/11/18 23:15		2010/11/18 23:15		
COC Number		B124950		B124950		B124950		
	Units	SCU19-002-MWB	RDL	SCU19-015-MW	RDL	SCU19-002-MWA	RDL	QC Batch

Metals								
Dissolved Aluminum (Al)	ug/L	ND	50	14	5.0	ND	50	2342396
Dissolved Antimony (Sb)	ug/L	ND	4.0	ND	0.40	ND	4.0	2342396
Dissolved Arsenic (As)	ug/L	ND	6.0	1.4	0.60	ND	6.0	2342396
Dissolved Barium (Ba)	ug/L	63	4.0	58	0.40	130	4.0	2342396
Dissolved Beryllium (Be)	ug/L	ND	5.0	ND	0.50	ND	5.0	2342396
Dissolved Bismuth (Bi)	ug/L	ND	20	ND	2.0	ND	20	2342396
Dissolved Boron (B)	ug/L	ND	1000	460	100	ND	1000	2342396
Dissolved Cadmium (Cd)	ug/L	ND	0.17	0.025	0.017	ND	0.17	2342396
Dissolved Calcium (Ca)	ug/L	1400000	1000	320000	100	450000	1000	2342396
Dissolved Chromium (Cr)	ug/L	ND	10	ND	1.0	ND	10	2342396
Dissolved Cobalt (Co)	ug/L	ND	10	ND	1.0	ND	10	2342396
Dissolved Copper (Cu)	ug/L	ND	20	ND	2.0	ND	20	2342396
Dissolved Iron (Fe)	ug/L	1200	1000	ND	100	ND	1000	2342396
Dissolved Lead (Pb)	ug/L	ND	10	ND	1.0	ND	10	2342396
Dissolved Lithium (Li)	ug/L	110	10	120	1.0	94	10	2342396
Dissolved Magnesium (Mg)	ug/L	180000	600	10000	60	190000	600	2342396
Dissolved Manganese (Mn)	ug/L	630	40	71	4.0	85	40	2342396
Dissolved Molybdenum (Mo)	ug/L	ND	40	ND	4.0	ND	40	2342396
Dissolved Nickel (Ni)	ug/L	ND	30	ND	3.0	ND	30	2342396
Dissolved Phosphorus (P)	ug/L	ND	1000	ND	100	ND	1000	2342396
Dissolved Potassium (K)	ug/L	20000	6000	36000	600	62000	6000	2342396
Dissolved Selenium (Se)	ug/L	ND	10	4.2	1.0	ND	10	2342396
Dissolved Silver (Ag)	ug/L	ND	1.0	ND	0.10	ND	1.0	2342396
Dissolved Sodium (Na)	ug/L	310000	3000	53000	300	1600000	30000	2342396
Dissolved Strontium (Sr)	ug/L	150000	20	1600	2.0	18000	20	2342396
Dissolved Thallium (Tl)	ug/L	ND	8.0	ND	0.80	ND	8.0	2342396
Dissolved Tin (Sn)	ug/L	ND	200	ND	20	ND	200	2342396
Dissolved Titanium (Ti)	ug/L	ND	30	ND	3.0	ND	30	2342396
Dissolved Uranium (U)	ug/L	ND	1.5	6.6	0.15	ND	1.5	2342396
Dissolved Vanadium (V)	ug/L	ND	20	5.3	2.0	ND	20	2342396

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G7066
 Report Date: 2010/11/30

SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 DWMP/HCP
 Your P.O. #: SYD147

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		HX4454		HX4455		HX4457		
Sampling Date		2010/11/18 23:15		2010/11/18 23:15		2010/11/18 23:15		
COC Number		B124950		B124950		B124950		
	Units	SCU19-002-MWB	RDL	SCU19-015-MW	RDL	SCU19-002-MWA	RDL	QC Batch

Dissolved Zinc (Zn)	ug/L	ND	50	ND	5.0	ND	50	2342396
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ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G7066
 Report Date: 2010/11/30

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 DWMP/HCP
 Your P.O. #: SYD147

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Maxxam ID		HX4447	HX4448	HX4449	HX4450		
Sampling Date		2010/11/18 23:15	2010/11/18 23:15	2010/11/18 23:15	2010/11/18 23:15		
COC Number		B124950	B124950	B124950	B124950		
	Units	SCU24-007-MWB	SCU31-013-MWA	SCU31-013-MWB	FD6	RDL	QC Batch

Polyaromatic Hydrocarbons							
1-Methylnaphthalene	ug/L	ND	0.21	0.38	ND	0.05	2339464
2-Methylnaphthalene	ug/L	ND	0.23	0.40	ND	0.05	2339464
Acenaphthene	ug/L	ND	0.10	0.18	0.01	0.01	2339464
Acenaphthylene	ug/L	ND	0.06	0.07	ND	0.01	2339464
Anthracene	ug/L	ND	0.11	0.10	ND	0.01	2339464
Benzo(a)anthracene	ug/L	ND	0.10	0.02	ND	0.01	2339464
Benzo(a)pyrene	ug/L	ND	0.13	0.02	ND	0.01	2339464
Benzo(b)fluoranthene	ug/L	ND	0.09	ND	ND	0.01	2339464
Benzo(g,h,i)perylene	ug/L	ND	0.07	0.01	ND	0.01	2339464
Benzo(k)fluoranthene	ug/L	ND	0.06	ND	ND	0.01	2339464
Chrysene	ug/L	ND	0.13	0.01	ND	0.01	2339464
Dibenz(a,h)anthracene	ug/L	ND	0.01	ND	ND	0.01	2339464
Fluoranthene	ug/L	0.01	0.29	0.20	0.01	0.01	2339464
Fluorene	ug/L	0.01	0.18	0.33	0.01	0.01	2339464
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.06	ND	ND	0.01	2339464
Naphthalene	ug/L	ND	1.6	1.9	ND	0.2	2339464
Perylene	ug/L	ND	0.03	ND	ND	0.01	2339464
Phenanthrene	ug/L	0.02	0.43	0.38	0.03	0.01	2339464
Pyrene	ug/L	ND	0.22	0.11	ND	0.01	2339464
Surrogate Recovery (%)							
D10-Anthracene	%	107	92	110	123		2339464
D14-Terphenyl	%	121	90	124	127		2339464
D8-Acenaphthylene	%	101	71	101	122		2339464

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G7066
 Report Date: 2010/11/30

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 DWMP/HCP
 Your P.O. #: SYD147

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Maxxam ID		HX4451	HX4452	HX4453	HX4454		
Sampling Date		2010/11/18 23:15	2010/11/18 23:15	2010/11/18 23:15	2010/11/18 23:15		
COC Number		B124950	B124950	B124950	B124950		
	Units	SCU31-013-MWC	SCU24-013-MW	SCU19-016-MW	SCU19-002-MWB	RDL	QC Batch

Polyaromatic Hydrocarbons							
1-Methylnaphthalene	ug/L	ND	ND	0.08	ND	0.05	2339464
2-Methylnaphthalene	ug/L	ND	ND	0.08	ND	0.05	2339464
Acenaphthene	ug/L	ND	0.09	0.08	ND	0.01	2339464
Acenaphthylene	ug/L	0.01	ND	0.02	ND	0.01	2339464
Anthracene	ug/L	ND	0.08	0.02	ND	0.01	2339464
Benzo(a)anthracene	ug/L	ND	0.03	ND	ND	0.01	2339464
Benzo(a)pyrene	ug/L	ND	0.01	ND	ND	0.01	2339464
Benzo(b)fluoranthene	ug/L	ND	ND	ND	ND	0.01	2339464
Benzo(g,h,i)perylene	ug/L	ND	ND	ND	ND	0.01	2339464
Benzo(k)fluoranthene	ug/L	ND	ND	ND	ND	0.01	2339464
Chrysene	ug/L	ND	0.03	0.01	ND	0.01	2339464
Dibenz(a,h)anthracene	ug/L	ND	ND	ND	ND	0.01	2339464
Fluoranthene	ug/L	ND	0.23	0.17	ND	0.01	2339464
Fluorene	ug/L	0.02	0.13	0.08	ND	0.01	2339464
Indeno(1,2,3-cd)pyrene	ug/L	ND	ND	ND	ND	0.01	2339464
Naphthalene	ug/L	ND	ND	0.3	ND	0.2	2339464
Perylene	ug/L	ND	ND	ND	ND	0.01	2339464
Phenanthrene	ug/L	0.03	0.26	0.22	0.02	0.01	2339464
Pyrene	ug/L	ND	0.15	0.09	ND	0.01	2339464
Surrogate Recovery (%)							
D10-Anthracene	%	119	100	101	92		2339464
D14-Terphenyl	%	110	106	106	82		2339464
D8-Acenaphthylene	%	106	87	85	86		2339464

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G7066
 Report Date: 2010/11/30

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 DWMP/HCP
 Your P.O. #: SYD147

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Maxxam ID		HX4455	HX4457		
Sampling Date		2010/11/18 23:15	2010/11/18 23:15		
COC Number		B124950	B124950		
	Units	SCU19-015-MW	SCU19-002-MWA	RDL	QC Batch

Polyaromatic Hydrocarbons					
1-Methylnaphthalene	ug/L	ND	2.5	0.05	2339464
2-Methylnaphthalene	ug/L	0.05	2.5	0.05	2339464
Acenaphthene	ug/L	0.01	0.85	0.01	2339464
Acenaphthylene	ug/L	0.03	0.65	0.01	2339464
Anthracene	ug/L	0.01	0.27	0.01	2339464
Benzo(a)anthracene	ug/L	ND	ND	0.01	2339464
Benzo(a)pyrene	ug/L	ND	ND	0.01	2339464
Benzo(b)fluoranthene	ug/L	ND	ND	0.01	2339464
Benzo(g,h,i)perylene	ug/L	ND	ND	0.01	2339464
Benzo(k)fluoranthene	ug/L	ND	ND	0.01	2339464
Chrysene	ug/L	ND	ND	0.01	2339464
Dibenz(a,h)anthracene	ug/L	ND	ND	0.01	2339464
Fluoranthene	ug/L	0.01	0.15	0.01	2339464
Fluorene	ug/L	0.03	1.5	0.01	2339464
Indeno(1,2,3-cd)pyrene	ug/L	ND	ND	0.01	2339464
Naphthalene	ug/L	0.3	14	0.2	2339464
Perylene	ug/L	ND	ND	0.01	2339464
Phenanthrene	ug/L	0.04	1.4	0.01	2339464
Pyrene	ug/L	0.01	0.09	0.01	2339464
Surrogate Recovery (%)					
D10-Anthracene	%	78	80		2339464
D14-Terphenyl	%	80	94		2339464
D8-Acenaphthylene	%	72	80		2339464

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G7066
Report Date: 2010/11/30

SLR Consulting (Canada) Ltd
Client Project #: 210.05780.00000
Project name: 2010 DWMP/HCP
Your P.O. #: SYD147

GENERAL COMMENTS

Sample HX4454-01: Reporting limits for ICP-MS metals elevated due to dilution for interfering compounds.

Sample HX4457-01: Reporting limits for ICP-MS metals elevated due to dilution for interfering compounds.

Results relate only to the items tested.

SLR Consulting (Canada) Ltd
 Attention: Kelly Henderson
 Client Project #: 210.05780.00000
 P.O. #: SYD147
 Project name: 2010 DWMP/HCP

Quality Assurance Report
 Maxxam Job Number: KB0G7066

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2339464 TML	Matrix Spike [HX4448-01]	D10-Anthracene	2010/11/30		106	%	30 - 130
		D14-Terphenyl	2010/11/30		110	%	30 - 130
		D8-Acenaphthylene	2010/11/30		74	%	30 - 130
		1-Methylnaphthalene	2010/11/30		79	%	50 - 130
		2-Methylnaphthalene	2010/11/30		75	%	50 - 130
		Acenaphthene	2010/11/30		85	%	50 - 130
		Acenaphthylene	2010/11/30		72	%	50 - 130
		Anthracene	2010/11/30		77	%	50 - 130
		Benzo(a)anthracene	2010/11/30		94	%	50 - 130
		Benzo(a)pyrene	2010/11/30		120	%	50 - 130
		Benzo(b)fluoranthene	2010/11/30		125	%	50 - 130
		Benzo(g,h,i)perylene	2010/11/30		105	%	50 - 130
		Benzo(k)fluoranthene	2010/11/30		95	%	50 - 130
		Chrysene	2010/11/30		97	%	50 - 130
		Dibenz(a,h)anthracene	2010/11/30		101	%	50 - 130
		Fluoranthene	2010/11/30		99	%	50 - 130
		Fluorene	2010/11/30		87	%	50 - 130
		Indeno(1,2,3-cd)pyrene	2010/11/30		106	%	50 - 130
		Naphthalene	2010/11/30		104	%	50 - 130
		Perylene	2010/11/30		91	%	50 - 130
	Phenanthrene	2010/11/30		83	%	50 - 130	
	Pyrene	2010/11/30		94	%	50 - 130	
	Spiked Blank	D10-Anthracene	2010/11/30		107	%	30 - 130
		D14-Terphenyl	2010/11/30		109	%	30 - 130
		D8-Acenaphthylene	2010/11/30		99	%	30 - 130
		1-Methylnaphthalene	2010/11/30		90	%	50 - 130
		2-Methylnaphthalene	2010/11/30		82	%	50 - 130
		Acenaphthene	2010/11/30		99	%	50 - 130
		Acenaphthylene	2010/11/30		87	%	50 - 130
		Anthracene	2010/11/30		88	%	50 - 130
		Benzo(a)anthracene	2010/11/30		91	%	50 - 130
		Benzo(a)pyrene	2010/11/30		117	%	50 - 130
		Benzo(b)fluoranthene	2010/11/30		92	%	50 - 130
		Benzo(g,h,i)perylene	2010/11/30		105	%	50 - 130
		Benzo(k)fluoranthene	2010/11/30		108	%	50 - 130
		Chrysene	2010/11/30		93	%	50 - 130
Dibenz(a,h)anthracene		2010/11/30		107	%	50 - 130	
Fluoranthene		2010/11/30		90	%	50 - 130	
Fluorene	2010/11/30		95	%	50 - 130		
Indeno(1,2,3-cd)pyrene	2010/11/30		115	%	50 - 130		
Naphthalene	2010/11/30		89	%	50 - 130		
Perylene	2010/11/30		97	%	50 - 130		
Phenanthrene	2010/11/30		83	%	50 - 130		
Pyrene	2010/11/30		86	%	50 - 130		
Method Blank	D10-Anthracene	2010/11/30		99	%	30 - 130	
	D14-Terphenyl	2010/11/30		123	%	30 - 130	
	D8-Acenaphthylene	2010/11/30		95	%	30 - 130	
	1-Methylnaphthalene	2010/11/30	ND, RDL=0.05		ug/L		
	2-Methylnaphthalene	2010/11/30	ND, RDL=0.05		ug/L		
	Acenaphthene	2010/11/30	ND, RDL=0.01		ug/L		
	Acenaphthylene	2010/11/30	ND, RDL=0.01		ug/L		
	Anthracene	2010/11/30	ND, RDL=0.01		ug/L		
	Benzo(a)anthracene	2010/11/30	ND, RDL=0.01		ug/L		
	Benzo(a)pyrene	2010/11/30	ND, RDL=0.01		ug/L		

SLR Consulting (Canada) Ltd
 Attention: Kelly Henderson
 Client Project #: 210.05780.00000
 P.O. #: SYD147
 Project name: 2010 DWMP/HCP

Quality Assurance Report (Continued)

Maxxam Job Number: KB0G7066

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2339464 TML	Method Blank	Benzo(b)fluoranthene	2010/11/30	ND, RDL=0.01		ug/L		
		Benzo(g,h,i)perylene	2010/11/30	ND, RDL=0.01		ug/L		
		Benzo(k)fluoranthene	2010/11/30	ND, RDL=0.01		ug/L		
		Chrysene	2010/11/30	ND, RDL=0.01		ug/L		
		Dibenz(a,h)anthracene	2010/11/30	ND, RDL=0.01		ug/L		
		Fluoranthene	2010/11/30	ND, RDL=0.01		ug/L		
		Fluorene	2010/11/30	ND, RDL=0.01		ug/L		
		Indeno(1,2,3-cd)pyrene	2010/11/30	ND, RDL=0.01		ug/L		
		Naphthalene	2010/11/30	ND, RDL=0.2		ug/L		
		Perylene	2010/11/30	ND, RDL=0.01		ug/L		
		Phenanthrene	2010/11/30	ND, RDL=0.01		ug/L		
		Pyrene	2010/11/30	ND, RDL=0.01		ug/L		
		RPD [HX4447-01]	1-Methylnaphthalene	2010/11/30	NC		%	40
			2-Methylnaphthalene	2010/11/30	NC		%	40
			Acenaphthene	2010/11/30	NC		%	40
	Acenaphthylene		2010/11/30	NC		%	40	
	Anthracene		2010/11/30	NC		%	40	
	Benzo(a)anthracene		2010/11/30	NC		%	40	
	Benzo(a)pyrene		2010/11/30	NC		%	40	
	Benzo(b)fluoranthene		2010/11/30	NC		%	40	
	Benzo(g,h,i)perylene		2010/11/30	NC		%	40	
	Benzo(k)fluoranthene		2010/11/30	NC		%	40	
	Chrysene		2010/11/30	NC		%	40	
	Dibenz(a,h)anthracene		2010/11/30	NC		%	40	
	Fluoranthene		2010/11/30	NC		%	40	
	Fluorene		2010/11/30	NC		%	40	
	Indeno(1,2,3-cd)pyrene		2010/11/30	NC		%	40	
	Naphthalene	2010/11/30	NC		%	40		
	Perylene	2010/11/30	NC		%	40		
	Phenanthrene	2010/11/30	NC		%	40		
Pyrene	2010/11/30	NC		%	40			
2339699 JHO	Matrix Spike [HX4451-01]	Isobutylbenzene - Extractable	2010/11/26		102	%	30 - 130	
		n-Dotriacontane - Extractable	2010/11/26		101	%	30 - 130	
		>C10-C16 Hydrocarbons	2010/11/26		114	%	70 - 130	
		>C16-C21 Hydrocarbons	2010/11/26		122	%	70 - 130	
		>C21-<C32 Hydrocarbons	2010/11/26		86	%	50 - 120	
	Spiked Blank	Isobutylbenzene - Extractable	2010/11/26		90	%	30 - 130	
		n-Dotriacontane - Extractable	2010/11/26		106	%	30 - 130	
		>C10-C16 Hydrocarbons	2010/11/26		97	%	70 - 130	
		>C16-C21 Hydrocarbons	2010/11/26		95	%	70 - 130	
		>C21-<C32 Hydrocarbons	2010/11/26		68	%	50 - 120	
	Method Blank	Isobutylbenzene - Extractable	2010/11/26		100	%	30 - 130	
		n-Dotriacontane - Extractable	2010/11/26		100	%	30 - 130	
		>C10-C16 Hydrocarbons	2010/11/26	ND, RDL=0.2		mg/L		
		>C16-C21 Hydrocarbons	2010/11/26	ND, RDL=0.2		mg/L		
		>C21-<C32 Hydrocarbons	2010/11/26	ND, RDL=0.5		mg/L		
	RPD [HX4450-01]	>C10-C16 Hydrocarbons	2010/11/26	NC		%	40	
		>C16-C21 Hydrocarbons	2010/11/26	NC		%	40	
		>C21-<C32 Hydrocarbons	2010/11/26	NC		%	40	
	2339717 MSK	Matrix Spike	1,2-Dichlorobenzene	2010/11/25		105	%	70 - 130
			1,3-Dichlorobenzene	2010/11/25		105	%	70 - 130
1,4-Dichlorobenzene			2010/11/25		105	%	70 - 130	
Chlorobenzene			2010/11/25		111	%	70 - 130	
1,1,1-Trichloroethane			2010/11/25		116	%	70 - 130	

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits		
2339717 MSK	Matrix Spike	1,1,2,2-Tetrachloroethane	2010/11/25		100	%	70 - 130		
		1,1,2-Trichloroethane	2010/11/25		105	%	70 - 130		
		1,1-Dichloroethane	2010/11/25		111	%	70 - 130		
		1,1-Dichloroethylene	2010/11/25		126	%	70 - 130		
		1,2-Dichloroethane	2010/11/25		105	%	70 - 130		
		1,2-Dichloropropane	2010/11/25		105	%	70 - 130		
		4-Bromofluorobenzene	2010/11/25		103	%	70 - 130		
		Benzene	2010/11/25		111	%	70 - 130		
		Bromodichloromethane	2010/11/25		100	%	70 - 130		
		Bromoform	2010/11/25		79	%	70 - 130		
		Bromomethane	2010/11/25		100	%	70 - 130		
		Carbon Tetrachloride	2010/11/25		116	%	70 - 130		
		Chloroethane	2010/11/25		121	%	70 - 130		
		Chloroform	2010/11/25		111	%	70 - 130		
		Chloromethane	2010/11/25		121	%	70 - 130		
		cis-1,2-Dichloroethylene	2010/11/25		115	%	70 - 130		
		cis-1,3-Dichloropropene	2010/11/25		95	%	70 - 130		
		D4-1,2-Dichloroethane	2010/11/25		101	%	70 - 130		
		D8-Toluene	2010/11/25		101	%	70 - 130		
		Dibromochloromethane	2010/11/25		89	%	70 - 130		
		Ethylbenzene	2010/11/25		111	%	70 - 130		
		Ethylene Dibromide	2010/11/25		105	%	70 - 130		
		Methylene Chloride(Dichloromethane)	2010/11/25		111	%	70 - 130		
		o-Xylene	2010/11/25		110	%	70 - 130		
		p+m-Xylene	2010/11/25		115	%	70 - 130		
		Styrene	2010/11/25		110	%	70 - 130		
		Tetrachloroethylene	2010/11/25		111	%	70 - 130		
		Toluene	2010/11/25		111	%	70 - 130		
		trans-1,2-Dichloroethylene	2010/11/25		116	%	70 - 130		
		trans-1,3-Dichloropropene	2010/11/25		74	%	70 - 130		
		Trichloroethylene	2010/11/25		121	%	70 - 130		
		Trichlorofluoromethane (FREON 11)	2010/11/25		116	%	70 - 130		
		Vinyl Chloride	2010/11/25		121	%	70 - 130		
		Spiked Blank		1,2-Dichlorobenzene	2010/11/25		93	%	70 - 130
				1,3-Dichlorobenzene	2010/11/25		96	%	70 - 130
				1,4-Dichlorobenzene	2010/11/25		93	%	70 - 130
				Chlorobenzene	2010/11/25		98	%	70 - 130
				1,1,1-Trichloroethane	2010/11/25		103	%	70 - 130
				1,1,2,2-Tetrachloroethane	2010/11/25		87	%	70 - 130
				1,1,2-Trichloroethane	2010/11/25		96	%	70 - 130
1,1-Dichloroethane	2010/11/25				101	%	70 - 130		
1,1-Dichloroethylene	2010/11/25				110	%	70 - 130		
1,2-Dichloroethane	2010/11/25				96	%	70 - 130		
1,2-Dichloropropane	2010/11/25				100	%	70 - 130		
4-Bromofluorobenzene	2010/11/25				103	%	70 - 130		
Benzene	2010/11/25				101	%	70 - 130		
Bromodichloromethane	2010/11/25				88	%	70 - 130		
Bromoform	2010/11/25				67 (1)	%	70 - 130		
Bromomethane	2010/11/25				83	%	70 - 130		
Carbon Tetrachloride	2010/11/25				97	%	70 - 130		
Chloroethane	2010/11/25				106	%	70 - 130		
Chloroform	2010/11/25				100	%	70 - 130		
Chloromethane	2010/11/25				110	%	70 - 130		
cis-1,2-Dichloroethylene	2010/11/25		104	%	70 - 130				
cis-1,3-Dichloropropene	2010/11/25		88	%	70 - 130				

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits		
2339717 MSK	Spiked Blank	D4-1,2-Dichloroethane	2010/11/25		102	%	70 - 130		
		D8-Toluene	2010/11/25		101	%	70 - 130		
		Dibromochloromethane	2010/11/25		81	%	70 - 130		
		Ethylbenzene	2010/11/25		100	%	70 - 130		
		Ethylene Dibromide	2010/11/25		95	%	70 - 130		
		Methylene Chloride(Dichloromethane)	2010/11/25		103	%	70 - 130		
		o-Xylene	2010/11/25		101	%	70 - 130		
		p+m-Xylene	2010/11/25		103	%	70 - 130		
		Styrene	2010/11/25		97	%	70 - 130		
		Tetrachloroethylene	2010/11/25		100	%	70 - 130		
		Toluene	2010/11/25		99	%	70 - 130		
		trans-1,2-Dichloroethylene	2010/11/25		105	%	70 - 130		
		trans-1,3-Dichloropropene	2010/11/25		73	%	70 - 130		
		Trichloroethylene	2010/11/25		106	%	70 - 130		
		Trichlorofluoromethane (FREON 11)	2010/11/25		102	%	70 - 130		
		Vinyl Chloride	2010/11/25		108	%	70 - 130		
		Method Blank		1,2-Dichlorobenzene	2010/11/25	ND, RDL=0.5		ug/L	
				1,3-Dichlorobenzene	2010/11/25	ND, RDL=1		ug/L	
				1,4-Dichlorobenzene	2010/11/25	ND, RDL=1		ug/L	
				Chlorobenzene	2010/11/25	ND, RDL=1		ug/L	
1,1,1-Trichloroethane	2010/11/25			ND, RDL=1		ug/L			
1,1,2,2-Tetrachloroethane	2010/11/25			ND, RDL=1		ug/L			
1,1,2-Trichloroethane	2010/11/25			ND, RDL=1		ug/L			
1,1-Dichloroethane	2010/11/25			ND, RDL=2		ug/L			
1,1-Dichloroethylene	2010/11/25			ND, RDL=0.5		ug/L			
1,2-Dichloroethane	2010/11/25			ND, RDL=1		ug/L			
1,2-Dichloropropane	2010/11/25			ND, RDL=1		ug/L			
4-Bromofluorobenzene	2010/11/25				100	%	70 - 130		
Benzene	2010/11/25			ND, RDL=1		ug/L			
Bromodichloromethane	2010/11/25			ND, RDL=1		ug/L			
Bromoform	2010/11/25			ND, RDL=1		ug/L			
Bromomethane	2010/11/25			ND, RDL=3		ug/L			
Carbon Tetrachloride	2010/11/25			ND, RDL=1		ug/L			
Chloroethane	2010/11/25			ND, RDL=8		ug/L			
Chloroform	2010/11/25			ND, RDL=1		ug/L			
Chloromethane	2010/11/25			ND, RDL=8		ug/L			
cis-1,2-Dichloroethylene	2010/11/25			ND, RDL=2		ug/L			
cis-1,3-Dichloropropene	2010/11/25			ND, RDL=2		ug/L			
D4-1,2-Dichloroethane	2010/11/25				100	%	70 - 130		
D8-Toluene	2010/11/25				99	%	70 - 130		
Dibromochloromethane	2010/11/25			ND, RDL=1		ug/L			
Ethylbenzene	2010/11/25			ND, RDL=1		ug/L			
Ethylene Dibromide	2010/11/25			ND, RDL=1		ug/L			
Methylene Chloride(Dichloromethane)	2010/11/25			ND, RDL=3		ug/L			
o-Xylene	2010/11/25			ND, RDL=1		ug/L			
p+m-Xylene	2010/11/25			ND, RDL=2		ug/L			
Styrene	2010/11/25			ND, RDL=1		ug/L			
Tetrachloroethylene	2010/11/25			ND, RDL=1		ug/L			
Toluene	2010/11/25			ND, RDL=1		ug/L			
trans-1,2-Dichloroethylene	2010/11/25			ND, RDL=2		ug/L			
trans-1,3-Dichloropropene	2010/11/25			ND, RDL=1		ug/L			
Trichloroethylene	2010/11/25			ND, RDL=1		ug/L			
Trichlorofluoromethane (FREON 11)	2010/11/25	ND, RDL=8		ug/L					
Vinyl Chloride	2010/11/25	ND, RDL=0.5		ug/L					
RPD		1,2-Dichlorobenzene	2010/11/25	NC		%	40		

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QA/QC Batch			Date Analyzed					
Num Init	QC Type	Parameter	yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2339717 MSK	RPD	1,3-Dichlorobenzene	2010/11/25	NC		%	40	
		1,4-Dichlorobenzene	2010/11/25	NC		%	40	
		Chlorobenzene	2010/11/25	NC		%	40	
		1,1,1-Trichloroethane	2010/11/25	NC		%	40	
		1,1,2,2-Tetrachloroethane	2010/11/25	NC		%	40	
		1,1,2-Trichloroethane	2010/11/25	NC		%	40	
		1,1-Dichloroethane	2010/11/25	NC		%	40	
		1,1-Dichloroethylene	2010/11/25	NC		%	40	
		1,2-Dichloroethane	2010/11/25	NC		%	40	
		1,2-Dichloropropane	2010/11/25	NC		%	40	
		Benzene	2010/11/25	NC		%	40	
		Bromodichloromethane	2010/11/25	NC		%	40	
		Bromoform	2010/11/25	NC		%	40	
		Bromomethane	2010/11/25	NC		%	40	
		Carbon Tetrachloride	2010/11/25	NC		%	40	
		Chloroethane	2010/11/25	NC		%	40	
		Chloroform	2010/11/25	NC		%	40	
		Chloromethane	2010/11/25	NC		%	40	
		cis-1,2-Dichloroethylene	2010/11/25	NC		%	40	
		cis-1,3-Dichloropropene	2010/11/25	NC		%	40	
		Dibromochloromethane	2010/11/25	NC		%	40	
		Ethylbenzene	2010/11/25	NC		%	40	
		Ethylene Dibromide	2010/11/25	NC		%	40	
		Methylene Chloride(Dichloromethane)	2010/11/25	NC		%	40	
		o-Xylene	2010/11/25	NC		%	40	
		p+m-Xylene	2010/11/25	NC		%	40	
		Styrene	2010/11/25	NC		%	40	
		Tetrachloroethylene	2010/11/25	NC		%	40	
		Toluene	2010/11/25	NC		%	40	
		trans-1,2-Dichloroethylene	2010/11/25	NC		%	40	
		trans-1,3-Dichloropropene	2010/11/25	NC		%	40	
		Trichloroethylene	2010/11/25	NC		%	40	
		Trichlorofluoromethane (FREON 11)	2010/11/25	NC		%	40	
Vinyl Chloride	2010/11/25	NC		%	40			
2340277 SHL	Matrix Spike	Isobutylbenzene - Volatile	2010/11/25		86	%	70 - 130	
		Benzene	2010/11/25		100	%	70 - 130	
		Toluene	2010/11/25		96	%	70 - 130	
		Ethylbenzene	2010/11/25		91	%	70 - 130	
		Xylene (Total)	2010/11/25		94	%	70 - 130	
	Spiked Blank	Isobutylbenzene - Volatile	2010/11/25		85	%	70 - 130	
		Benzene	2010/11/25		87	%	70 - 130	
		Toluene	2010/11/25		91	%	70 - 130	
	Method Blank	Ethylbenzene	2010/11/25		89	%	70 - 130	
		Xylene (Total)	2010/11/25		90	%	70 - 130	
		Isobutylbenzene - Volatile	2010/11/26		97	%	70 - 130	
		Benzene	2010/11/26	ND, RDL=0.001		mg/L		
	RPD	Toluene	2010/11/26	ND, RDL=0.001		mg/L		
		Ethylbenzene	2010/11/26	ND, RDL=0.001		mg/L		
		Xylene (Total)	2010/11/26	ND, RDL=0.002		mg/L		
		C6 - C10 (less BTEX)	2010/11/26	ND, RDL=0.01		mg/L		
		Benzene	2010/11/25	NC		%	40	
		Toluene	2010/11/25	NC		%	40	
		Ethylbenzene	2010/11/25	NC		%	40	
	Xylene (Total)	2010/11/25	NC		%	40		
	C6 - C10 (less BTEX)	2010/11/25	NC		%	40		

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2340328 THL	Matrix Spike [HX4454-01]	Isobutylbenzene - Volatile	2010/11/30		87	%	70 - 130	
		Benzene	2010/11/30		109	%	70 - 130	
		Toluene	2010/11/30		100	%	70 - 130	
		Ethylbenzene	2010/11/30		91	%	70 - 130	
		Xylene (Total)	2010/11/30		96	%	70 - 130	
	Spiked Blank	Isobutylbenzene - Volatile	2010/11/26		78	%	70 - 130	
		Benzene	2010/11/26		84	%	70 - 130	
		Toluene	2010/11/26		88	%	70 - 130	
		Ethylbenzene	2010/11/26		91	%	70 - 130	
		Xylene (Total)	2010/11/26		93	%	70 - 130	
	Method Blank	Isobutylbenzene - Volatile	2010/11/26			86	%	70 - 130
		Benzene	2010/11/26		ND, RDL=0.001		mg/L	
		Toluene	2010/11/26		ND, RDL=0.001		mg/L	
		Ethylbenzene	2010/11/26		ND, RDL=0.001		mg/L	
		Xylene (Total)	2010/11/26		ND, RDL=0.002		mg/L	
		C6 - C10 (less BTEX)	2010/11/26		ND, RDL=0.01		mg/L	
		Benzene	2010/11/26		NC		%	40
		Toluene	2010/11/26		NC		%	40
		Ethylbenzene	2010/11/26		NC		%	40
		Xylene (Total)	2010/11/26		NC		%	40
2341744 BMI	Matrix Spike QC Standard Spiked Blank Method Blank RPD	Total Mercury (Hg)	2010/11/25		100	%	80 - 120	
		Total Mercury (Hg)	2010/11/25		102	%	80 - 120	
		Total Mercury (Hg)	2010/11/25		98	%	80 - 120	
		Total Mercury (Hg)	2010/11/25		ND, RDL=0.013		ug/L	
		Total Mercury (Hg)	2010/11/25		NC		%	25
2342172 BMI	Matrix Spike [HX4450-01] QC Standard Spiked Blank Method Blank RPD	Total Mercury (Hg)	2010/11/26		94	%	80 - 120	
		Total Mercury (Hg)	2010/11/26		103	%	80 - 120	
		Total Mercury (Hg)	2010/11/26		103	%	80 - 120	
		Total Mercury (Hg)	2010/11/26		ND, RDL=0.013		ug/L	
		Total Mercury (Hg)	2010/11/26		NC		%	25
2342393 MBU	Matrix Spike	Dissolved Aluminum (Al)	2010/11/26		102	%	75 - 125	
		Dissolved Antimony (Sb)	2010/11/26		107	%	75 - 125	
		Dissolved Arsenic (As)	2010/11/26		94	%	75 - 125	
		Dissolved Barium (Ba)	2010/11/26		104	%	75 - 125	
		Dissolved Beryllium (Be)	2010/11/26		99	%	75 - 125	
		Dissolved Bismuth (Bi)	2010/11/26		106	%	75 - 125	
		Dissolved Boron (B)	2010/11/26		101	%	75 - 125	
		Dissolved Cadmium (Cd)	2010/11/26		108	%	75 - 125	
		Dissolved Calcium (Ca)	2010/11/26		107	%	75 - 125	
		Dissolved Chromium (Cr)	2010/11/26		109	%	75 - 125	
		Dissolved Cobalt (Co)	2010/11/26		110	%	75 - 125	
		Dissolved Copper (Cu)	2010/11/26		102	%	75 - 125	
		Dissolved Iron (Fe)	2010/11/26		103	%	75 - 125	
		Dissolved Lead (Pb)	2010/11/26		108	%	75 - 125	
		Dissolved Lithium (Li)	2010/11/26		97	%	75 - 125	
		Dissolved Magnesium (Mg)	2010/11/26		100	%	75 - 125	
		Dissolved Manganese (Mn)	2010/11/26		106	%	75 - 125	
		Dissolved Molybdenum (Mo)	2010/11/26		109	%	75 - 125	
		Dissolved Nickel (Ni)	2010/11/26		106	%	75 - 125	
		Dissolved Phosphorus (P)	2010/11/26		110	%	75 - 125	
Dissolved Potassium (K)	2010/11/26		103	%	75 - 125			
Dissolved Selenium (Se)	2010/11/26		108	%	75 - 125			

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2342393 MBU	Matrix Spike	Dissolved Silver (Ag)	2010/11/26		91	%	75 - 125	
		Dissolved Sodium (Na)	2010/11/26		106	%	75 - 125	
		Dissolved Strontium (Sr)	2010/11/26		100	%	75 - 125	
		Dissolved Thallium (Tl)	2010/11/26		107	%	75 - 125	
		Dissolved Tin (Sn)	2010/11/26		107	%	75 - 125	
		Dissolved Titanium (Ti)	2010/11/26		99	%	75 - 125	
		Dissolved Uranium (U)	2010/11/26		108	%	75 - 125	
	QC Standard	QC Standard	Dissolved Vanadium (V)	2010/11/26		109	%	75 - 125
			Dissolved Zinc (Zn)	2010/11/26		100	%	75 - 125
			Dissolved Aluminum (Al)	2010/11/26		111	%	75 - 125
			Dissolved Antimony (Sb)	2010/11/26		121	%	75 - 125
			Dissolved Arsenic (As)	2010/11/26		91	%	75 - 125
			Dissolved Barium (Ba)	2010/11/26		100	%	75 - 125
			Dissolved Beryllium (Be)	2010/11/26		97	%	75 - 125
			Dissolved Bismuth (Bi)	2010/11/26		120	%	75 - 125
			Dissolved Boron (B)	2010/11/26		107	%	75 - 125
			Dissolved Cadmium (Cd)	2010/11/26		104	%	75 - 125
			Dissolved Calcium (Ca)	2010/11/26		92	%	75 - 125
			Dissolved Chromium (Cr)	2010/11/26		103	%	75 - 125
			Dissolved Cobalt (Co)	2010/11/26		107	%	75 - 125
			Dissolved Copper (Cu)	2010/11/26		99	%	75 - 125
			Dissolved Lead (Pb)	2010/11/26		106	%	75 - 125
			Dissolved Lithium (Li)	2010/11/26		97	%	75 - 125
Dissolved Magnesium (Mg)			2010/11/26		100	%	75 - 125	
Dissolved Manganese (Mn)			2010/11/26		107	%	75 - 125	
Dissolved Molybdenum (Mo)			2010/11/26		108	%	75 - 125	
Dissolved Nickel (Ni)			2010/11/26		101	%	75 - 125	
Dissolved Potassium (K)			2010/11/26		94	%	75 - 125	
Dissolved Selenium (Se)			2010/11/26		92	%	75 - 125	
Spiked Blank			Spiked Blank	Dissolved Silver (Ag)	2010/11/26		102	%
	Dissolved Sodium (Na)	2010/11/26			100	%	75 - 125	
	Dissolved Strontium (Sr)	2010/11/26			98	%	75 - 125	
	Dissolved Thallium (Tl)	2010/11/26			107	%	75 - 125	
	Dissolved Vanadium (V)	2010/11/26			104	%	75 - 125	
	Dissolved Zinc (Zn)	2010/11/26			96	%	75 - 125	
	Dissolved Aluminum (Al)	2010/11/26			105	%	75 - 125	
	Dissolved Antimony (Sb)	2010/11/26			111	%	75 - 125	
	Dissolved Arsenic (As)	2010/11/26			96	%	75 - 125	
	Dissolved Barium (Ba)	2010/11/26			108	%	75 - 125	
	Dissolved Beryllium (Be)	2010/11/26			107	%	75 - 125	
	Dissolved Bismuth (Bi)	2010/11/26			107	%	75 - 125	
	Dissolved Boron (B)	2010/11/26			112	%	75 - 125	
	Dissolved Cadmium (Cd)	2010/11/26			113	%	75 - 125	
	Dissolved Calcium (Ca)	2010/11/26			97	%	75 - 125	
	Dissolved Chromium (Cr)	2010/11/26			110	%	75 - 125	
	Dissolved Cobalt (Co)	2010/11/26			111	%	75 - 125	
	Dissolved Copper (Cu)	2010/11/26			106	%	75 - 125	
	Dissolved Iron (Fe)	2010/11/26			97	%	75 - 125	
	Dissolved Lead (Pb)	2010/11/26			111	%	75 - 125	
	Dissolved Lithium (Li)	2010/11/26			102	%	75 - 125	
	Dissolved Magnesium (Mg)	2010/11/26			103	%	75 - 125	
	Dissolved Manganese (Mn)	2010/11/26			107	%	75 - 125	
Dissolved Molybdenum (Mo)	2010/11/26		112	%	75 - 125			
Dissolved Nickel (Ni)	2010/11/26		110	%	75 - 125			
Dissolved Phosphorus (P)	2010/11/26		113	%	75 - 125			

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2342393 MBU	Spiked Blank	Dissolved Potassium (K)	2010/11/26		99	%	75 - 125	
		Dissolved Selenium (Se)	2010/11/26		111	%	75 - 125	
		Dissolved Silver (Ag)	2010/11/26		92	%	75 - 125	
		Dissolved Sodium (Na)	2010/11/26		103	%	75 - 125	
		Dissolved Strontium (Sr)	2010/11/26		112	%	75 - 125	
		Dissolved Thallium (Tl)	2010/11/26		110	%	75 - 125	
		Dissolved Tin (Sn)	2010/11/26		110	%	75 - 125	
		Dissolved Titanium (Ti)	2010/11/26		98	%	75 - 125	
		Dissolved Uranium (U)	2010/11/26		111	%	75 - 125	
		Dissolved Vanadium (V)	2010/11/26		110	%	75 - 125	
	Dissolved Zinc (Zn)	2010/11/26		106	%	75 - 125		
	Method Blank	Dissolved Aluminum (Al)	2010/11/26		ND, RDL=5.0		ug/L	
		Dissolved Antimony (Sb)	2010/11/26		ND, RDL=0.40		ug/L	
		Dissolved Arsenic (As)	2010/11/26		ND, RDL=0.60		ug/L	
		Dissolved Barium (Ba)	2010/11/26		ND, RDL=0.40		ug/L	
		Dissolved Beryllium (Be)	2010/11/26		ND, RDL=0.50		ug/L	
		Dissolved Bismuth (Bi)	2010/11/26		ND, RDL=2.0		ug/L	
		Dissolved Boron (B)	2010/11/26		ND, RDL=100		ug/L	
		Dissolved Cadmium (Cd)	2010/11/26		ND, RDL=0.017		ug/L	
		Dissolved Calcium (Ca)	2010/11/26		ND, RDL=100		ug/L	
		Dissolved Chromium (Cr)	2010/11/26		ND, RDL=1.0		ug/L	
		Dissolved Cobalt (Co)	2010/11/26		ND, RDL=1.0		ug/L	
		Dissolved Copper (Cu)	2010/11/26		ND, RDL=2.0		ug/L	
		Dissolved Iron (Fe)	2010/11/26		ND, RDL=100		ug/L	
		Dissolved Lead (Pb)	2010/11/26		ND, RDL=1.0		ug/L	
		Dissolved Lithium (Li)	2010/11/26		ND, RDL=1.0		ug/L	
		Dissolved Magnesium (Mg)	2010/11/26		ND, RDL=60		ug/L	
		Dissolved Manganese (Mn)	2010/11/26		ND, RDL=4.0		ug/L	
		Dissolved Molybdenum (Mo)	2010/11/26		ND, RDL=4.0		ug/L	
		Dissolved Nickel (Ni)	2010/11/26		ND, RDL=3.0		ug/L	
		Dissolved Phosphorus (P)	2010/11/26		ND, RDL=100		ug/L	
		Dissolved Potassium (K)	2010/11/26		ND, RDL=600		ug/L	
		Dissolved Selenium (Se)	2010/11/26		ND, RDL=1.0		ug/L	
		Dissolved Silver (Ag)	2010/11/26		ND, RDL=0.10		ug/L	
		Dissolved Sodium (Na)	2010/11/26		ND, RDL=300		ug/L	
Dissolved Strontium (Sr)		2010/11/26		ND, RDL=2.0		ug/L		
Dissolved Thallium (Tl)		2010/11/26		ND, RDL=0.80		ug/L		
Dissolved Tin (Sn)		2010/11/26		ND, RDL=20		ug/L		
Dissolved Titanium (Ti)		2010/11/26		ND, RDL=3.0		ug/L		
Dissolved Uranium (U)		2010/11/26		ND, RDL=0.15		ug/L		
Dissolved Vanadium (V)		2010/11/26		ND, RDL=2.0		ug/L		
Dissolved Zinc (Zn)		2010/11/26		ND, RDL=5.0		ug/L		
RPD		Dissolved Aluminum (Al)	2010/11/26		1.9		%	25
		Dissolved Antimony (Sb)	2010/11/26		NC		%	25
		Dissolved Arsenic (As)	2010/11/26		NC		%	25
		Dissolved Barium (Ba)	2010/11/26		1.1		%	25
	Dissolved Beryllium (Be)	2010/11/26		NC		%	25	
	Dissolved Bismuth (Bi)	2010/11/26		NC		%	25	
	Dissolved Boron (B)	2010/11/26		NC		%	25	
	Dissolved Cadmium (Cd)	2010/11/26		NC		%	25	
	Dissolved Calcium (Ca)	2010/11/26		2.8		%	25	
	Dissolved Chromium (Cr)	2010/11/26		NC		%	25	
	Dissolved Cobalt (Co)	2010/11/26		NC		%	25	
	Dissolved Copper (Cu)	2010/11/26		NC		%	25	
	Dissolved Iron (Fe)	2010/11/26		2.8		%	25	

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2342393 MBU	RPD	Dissolved Lead (Pb)	2010/11/26	NC		%	25	
		Dissolved Lithium (Li)	2010/11/26	NC		%	25	
		Dissolved Magnesium (Mg)	2010/11/26	0.04		%	25	
		Dissolved Manganese (Mn)	2010/11/26	2.1		%	25	
		Dissolved Molybdenum (Mo)	2010/11/26	NC		%	25	
		Dissolved Nickel (Ni)	2010/11/26	NC		%	25	
		Dissolved Phosphorus (P)	2010/11/26	NC		%	25	
		Dissolved Potassium (K)	2010/11/26	NC		%	25	
		Dissolved Selenium (Se)	2010/11/26	NC		%	25	
		Dissolved Silver (Ag)	2010/11/26	NC		%	25	
		Dissolved Sodium (Na)	2010/11/26	2.1		%	25	
		Dissolved Strontium (Sr)	2010/11/26	1.6		%	25	
		Dissolved Thallium (Tl)	2010/11/26	NC		%	25	
		Dissolved Tin (Sn)	2010/11/26	NC		%	25	
		Dissolved Titanium (Ti)	2010/11/26	NC		%	25	
		Dissolved Uranium (U)	2010/11/26	NC		%	25	
		Dissolved Vanadium (V)	2010/11/26	NC		%	25	
Dissolved Zinc (Zn)	2010/11/26	NC		%	25			
2342396 MBU	Matrix Spike	Dissolved Aluminum (Al)	2010/11/27		98	%	75 - 125	
		Dissolved Antimony (Sb)	2010/11/27		109	%	75 - 125	
		Dissolved Arsenic (As)	2010/11/27		93	%	75 - 125	
		Dissolved Barium (Ba)	2010/11/27		109	%	75 - 125	
		Dissolved Beryllium (Be)	2010/11/27		100	%	75 - 125	
		Dissolved Bismuth (Bi)	2010/11/27		104	%	75 - 125	
		Dissolved Boron (B)	2010/11/27		95	%	75 - 125	
		Dissolved Cadmium (Cd)	2010/11/27		110	%	75 - 125	
		Dissolved Calcium (Ca)	2010/11/27		95	%	75 - 125	
		Dissolved Chromium (Cr)	2010/11/27		108	%	75 - 125	
		Dissolved Cobalt (Co)	2010/11/27		109	%	75 - 125	
		Dissolved Copper (Cu)	2010/11/27		104	%	75 - 125	
		Dissolved Iron (Fe)	2010/11/27		97	%	75 - 125	
		Dissolved Lead (Pb)	2010/11/27		110	%	75 - 125	
		Dissolved Lithium (Li)	2010/11/27		103	%	75 - 125	
		Dissolved Magnesium (Mg)	2010/11/27		98	%	75 - 125	
		Dissolved Manganese (Mn)	2010/11/27		106	%	75 - 125	
		Dissolved Molybdenum (Mo)	2010/11/27		110	%	75 - 125	
		Dissolved Nickel (Ni)	2010/11/27		100	%	75 - 125	
		Dissolved Phosphorus (P)	2010/11/27		104	%	75 - 125	
		Dissolved Potassium (K)	2010/11/27		98	%	75 - 125	
		Dissolved Selenium (Se)	2010/11/27		107	%	75 - 125	
		Dissolved Silver (Ag)	2010/11/27		81	%	75 - 125	
		Dissolved Sodium (Na)	2010/11/27		108	%	75 - 125	
		Dissolved Strontium (Sr)	2010/11/27		107	%	75 - 125	
		Dissolved Thallium (Tl)	2010/11/27		111	%	75 - 125	
		Dissolved Tin (Sn)	2010/11/27		106	%	75 - 125	
		Dissolved Titanium (Ti)	2010/11/27		96	%	75 - 125	
		Dissolved Uranium (U)	2010/11/27		110	%	75 - 125	
		Dissolved Vanadium (V)	2010/11/27		105	%	75 - 125	
		Dissolved Zinc (Zn)	2010/11/27		104	%	75 - 125	
		QC Standard	Dissolved Aluminum (Al)	2010/11/26		118	%	75 - 125
			Dissolved Antimony (Sb)	2010/11/26		117	%	75 - 125
Dissolved Arsenic (As)	2010/11/26			94	%	75 - 125		
Dissolved Barium (Ba)	2010/11/26			101	%	75 - 125		
Dissolved Beryllium (Be)	2010/11/26			93	%	75 - 125		
		Dissolved Bismuth (Bi)	2010/11/26		116	%	75 - 125	

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2342396 MBU	QC Standard	Dissolved Boron (B)	2010/11/26		100	%	75 - 125
		Dissolved Cadmium (Cd)	2010/11/26		104	%	75 - 125
		Dissolved Calcium (Ca)	2010/11/26		97	%	75 - 125
		Dissolved Chromium (Cr)	2010/11/26		115	%	75 - 125
		Dissolved Cobalt (Co)	2010/11/26		110	%	75 - 125
		Dissolved Copper (Cu)	2010/11/26		102	%	75 - 125
		Dissolved Iron (Fe)	2010/11/26		114	%	75 - 125
		Dissolved Lead (Pb)	2010/11/26		110	%	75 - 125
		Dissolved Lithium (Li)	2010/11/26		104	%	75 - 125
		Dissolved Magnesium (Mg)	2010/11/26		101	%	75 - 125
		Dissolved Manganese (Mn)	2010/11/26		114	%	75 - 125
		Dissolved Molybdenum (Mo)	2010/11/26		105	%	75 - 125
		Dissolved Nickel (Ni)	2010/11/26		100	%	75 - 125
		Dissolved Potassium (K)	2010/11/26		102	%	75 - 125
		Dissolved Selenium (Se)	2010/11/26		101	%	75 - 125
		Dissolved Silver (Ag)	2010/11/26		101	%	75 - 125
		Dissolved Sodium (Na)	2010/11/26		108	%	75 - 125
		Dissolved Strontium (Sr)	2010/11/26		103	%	75 - 125
		Dissolved Thallium (Tl)	2010/11/26		111	%	75 - 125
		Dissolved Vanadium (V)	2010/11/26		108	%	75 - 125
		Dissolved Zinc (Zn)	2010/11/26		99	%	75 - 125
	Spiked Blank	Dissolved Aluminum (Al)	2010/11/26		108	%	75 - 125
		Dissolved Antimony (Sb)	2010/11/26		107	%	75 - 125
		Dissolved Arsenic (As)	2010/11/26		96	%	75 - 125
		Dissolved Barium (Ba)	2010/11/26		107	%	75 - 125
		Dissolved Beryllium (Be)	2010/11/26		102	%	75 - 125
		Dissolved Bismuth (Bi)	2010/11/26		104	%	75 - 125
		Dissolved Boron (B)	2010/11/26		107	%	75 - 125
		Dissolved Cadmium (Cd)	2010/11/26		112	%	75 - 125
		Dissolved Calcium (Ca)	2010/11/26		103	%	75 - 125
		Dissolved Chromium (Cr)	2010/11/26		115	%	75 - 125
		Dissolved Cobalt (Co)	2010/11/26		114	%	75 - 125
		Dissolved Copper (Cu)	2010/11/26		109	%	75 - 125
		Dissolved Iron (Fe)	2010/11/26		102	%	75 - 125
		Dissolved Lead (Pb)	2010/11/26		111	%	75 - 125
		Dissolved Lithium (Li)	2010/11/26		102	%	75 - 125
		Dissolved Magnesium (Mg)	2010/11/26		103	%	75 - 125
		Dissolved Manganese (Mn)	2010/11/26		110	%	75 - 125
		Dissolved Molybdenum (Mo)	2010/11/26		110	%	75 - 125
		Dissolved Nickel (Ni)	2010/11/26		105	%	75 - 125
		Dissolved Phosphorus (P)	2010/11/26		113	%	75 - 125
		Dissolved Potassium (K)	2010/11/26		106	%	75 - 125
		Dissolved Selenium (Se)	2010/11/26		113	%	75 - 125
		Dissolved Silver (Ag)	2010/11/26		91	%	75 - 125
		Dissolved Sodium (Na)	2010/11/26		106	%	75 - 125
		Dissolved Strontium (Sr)	2010/11/26		113	%	75 - 125
		Dissolved Thallium (Tl)	2010/11/26		110	%	75 - 125
		Dissolved Tin (Sn)	2010/11/26		109	%	75 - 125
		Dissolved Titanium (Ti)	2010/11/26		101	%	75 - 125
		Dissolved Uranium (U)	2010/11/26		109	%	75 - 125
		Dissolved Vanadium (V)	2010/11/26		110	%	75 - 125
		Dissolved Zinc (Zn)	2010/11/26		107	%	75 - 125
	Method Blank	Dissolved Aluminum (Al)	2010/11/26		ND, RDL=5.0	ug/L	
		Dissolved Antimony (Sb)	2010/11/26		ND, RDL=0.40	ug/L	
		Dissolved Arsenic (As)	2010/11/26		ND, RDL=0.60	ug/L	

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2342396	MBU	Method Blank					
		Dissolved Barium (Ba)	2010/11/26	ND, RDL=0.40		ug/L	
		Dissolved Beryllium (Be)	2010/11/26	ND, RDL=0.50		ug/L	
		Dissolved Bismuth (Bi)	2010/11/26	ND, RDL=2.0		ug/L	
		Dissolved Boron (B)	2010/11/26	ND, RDL=100		ug/L	
		Dissolved Cadmium (Cd)	2010/11/26	ND, RDL=0.017		ug/L	
		Dissolved Calcium (Ca)	2010/11/26	ND, RDL=100		ug/L	
		Dissolved Chromium (Cr)	2010/11/26	ND, RDL=1.0		ug/L	
		Dissolved Cobalt (Co)	2010/11/26	ND, RDL=1.0		ug/L	
		Dissolved Copper (Cu)	2010/11/26	ND, RDL=2.0		ug/L	
		Dissolved Iron (Fe)	2010/11/26	ND, RDL=100		ug/L	
		Dissolved Lead (Pb)	2010/11/26	ND, RDL=1.0		ug/L	
		Dissolved Lithium (Li)	2010/11/26	ND, RDL=1.0		ug/L	
		Dissolved Magnesium (Mg)	2010/11/26	ND, RDL=60		ug/L	
		Dissolved Manganese (Mn)	2010/11/26	ND, RDL=4.0		ug/L	
		Dissolved Molybdenum (Mo)	2010/11/26	ND, RDL=4.0		ug/L	
		Dissolved Nickel (Ni)	2010/11/26	ND, RDL=3.0		ug/L	
		Dissolved Phosphorus (P)	2010/11/26	ND, RDL=100		ug/L	
		Dissolved Potassium (K)	2010/11/26	ND, RDL=600		ug/L	
		Dissolved Selenium (Se)	2010/11/26	ND, RDL=1.0		ug/L	
		Dissolved Silver (Ag)	2010/11/26	ND, RDL=0.10		ug/L	
		Dissolved Sodium (Na)	2010/11/26	ND, RDL=300		ug/L	
		Dissolved Strontium (Sr)	2010/11/26	ND, RDL=2.0		ug/L	
		Dissolved Thallium (Tl)	2010/11/26	ND, RDL=0.80		ug/L	
		Dissolved Tin (Sn)	2010/11/26	ND, RDL=20		ug/L	
		Dissolved Titanium (Ti)	2010/11/26	ND, RDL=3.0		ug/L	
		Dissolved Uranium (U)	2010/11/26	ND, RDL=0.15		ug/L	
		Dissolved Vanadium (V)	2010/11/26	ND, RDL=2.0		ug/L	
		Dissolved Zinc (Zn)	2010/11/26	ND, RDL=5.0		ug/L	
	RPD	Dissolved Aluminum (Al)	2010/11/27	2.5		%	25
		Dissolved Antimony (Sb)	2010/11/27	NC		%	25
		Dissolved Arsenic (As)	2010/11/27	NC		%	25
		Dissolved Barium (Ba)	2010/11/27	3.2		%	25
		Dissolved Beryllium (Be)	2010/11/27	NC		%	25
		Dissolved Bismuth (Bi)	2010/11/27	NC		%	25
		Dissolved Boron (B)	2010/11/27	NC		%	25
		Dissolved Cadmium (Cd)	2010/11/27	NC		%	25
		Dissolved Calcium (Ca)	2010/11/27	1.5		%	25
		Dissolved Chromium (Cr)	2010/11/27	NC		%	25
		Dissolved Cobalt (Co)	2010/11/27	NC		%	25
		Dissolved Copper (Cu)	2010/11/27	NC		%	25
		Dissolved Iron (Fe)	2010/11/27	NC		%	25
		Dissolved Lead (Pb)	2010/11/27	NC		%	25
		Dissolved Lithium (Li)	2010/11/27	NC		%	25
		Dissolved Magnesium (Mg)	2010/11/27	1.9		%	25
		Dissolved Manganese (Mn)	2010/11/27	3.9		%	25
		Dissolved Molybdenum (Mo)	2010/11/27	NC		%	25
		Dissolved Nickel (Ni)	2010/11/27	NC		%	25
		Dissolved Phosphorus (P)	2010/11/27	NC		%	25
		Dissolved Potassium (K)	2010/11/27	NC		%	25
		Dissolved Selenium (Se)	2010/11/27	NC		%	25
		Dissolved Silver (Ag)	2010/11/27	NC		%	25
		Dissolved Sodium (Na)	2010/11/27	3.0		%	25
		Dissolved Strontium (Sr)	2010/11/27	2.4		%	25
		Dissolved Thallium (Tl)	2010/11/27	NC		%	25
		Dissolved Tin (Sn)	2010/11/27	NC		%	25

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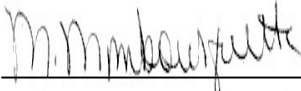
QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2342396 MBU	RPD	Dissolved Titanium (Ti)	2010/11/27	NC		%	25
		Dissolved Uranium (U)	2010/11/27	NC		%	25
		Dissolved Vanadium (V)	2010/11/27	NC		%	25
		Dissolved Zinc (Zn)	2010/11/27	NC		%	25

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
 Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
 QC Standard: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.
 (1) Data within statistical control.

Validation Signature Page

Maxxam Job #: B0G7066

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



MICHELLE MOMBOURQUETTE, Laboratory Manager



ALAN STEWART, Scientific Specialist (Organics)

=====

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Your P.O. #: SYD147
Your Project #: 210.05780.00000
Site: 2010 GWP/HCP
Your C.O.C. #: B125830

Attention: Kelly Henderson
SLR Consulting (Canada) Ltd
45 Wabina Crt., Suite 107B
PO Box 791, Station A
Sydney, NS
B1P 6K5

Report Date: 2010/12/07

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B0G4085
Received: 2010/11/16, 09:43

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date		Laboratory Method	Method Reference
		Extracted	Analyzed		
Dioxins/Furans in Water (8290) (12)	1	2010/11/30	2010/12/02	BRL SOP-00406	EPA 8290 mod.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

- (1) This test was performed by Maxxam Analytics Mississauga
(2) Confirmatory runs for 2,3,7,8-TCDF are performed only if the primary result is greater than the RDL.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

TRACY MACLEOD-FLOYD,
Email: TMacLeod@maxxam.ca
Phone# (902) 567 1255

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 1

Page 1 of 7

This document is in electronic format, hard copy is available on request.

Maxxam Job #: B0G4085
 Report Date: 2010/12/07

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWP/HCP
 Your P.O. #: SYD147

DIOXINS AND FURANS BY HRMS (WATER)

Maxxam ID		HW1564						
Sampling Date		2010/11/15 14:45						
COC Number		B125830			TOXIC EQUIVALENCY	# of		
	Units	SCU17-004-MW	EDL	RDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch

Dioxins & Furans								
2,3,7,8-Tetra CDD *	pg/L	ND	0.51	20	1.00	0.510		2346994
1,2,3,7,8-Penta CDD	pg/L	ND	0.59	50	1.00	0.590		2346994
1,2,3,4,7,8-Hexa CDD	pg/L	ND	0.61	50	0.100	0.0610		2346994
1,2,3,6,7,8-Hexa CDD	pg/L	ND	0.55	50	0.100	0.0550		2346994
1,2,3,7,8,9-Hexa CDD	pg/L	ND	0.54	50	0.100	0.0540		2346994
1,2,3,4,6,7,8-Hepta CDD	pg/L	ND (1)	0.83	50	0.0100	0.00830		2346994
Octa CDD	pg/L	5	1.1	100	0.000300	0.00150		2346994
Total Tetra CDD	pg/L	ND (1)	0.58	20				2346994
Total Penta CDD	pg/L	ND	0.59	50				2346994
Total Hexa CDD	pg/L	ND (1)	0.67	150				2346994
Total Hepta CDD	pg/L	ND (1)	0.83	50				2346994
2,3,7,8-Tetra CDF **	pg/L	ND	0.53	20	0.100	0.0530		2346994
1,2,3,7,8-Penta CDF	pg/L	ND	0.67	50	0.0300	0.0201		2346994
2,3,4,7,8-Penta CDF	pg/L	2	0.69	50	0.300	0.600		2346994
1,2,3,4,7,8-Hexa CDF	pg/L	ND	0.48	50	0.100	0.0480		2346994
1,2,3,6,7,8-Hexa CDF	pg/L	ND	0.49	50	0.100	0.0490		2346994
2,3,4,6,7,8-Hexa CDF	pg/L	ND	0.55	50	0.100	0.0550		2346994
1,2,3,7,8,9-Hexa CDF	pg/L	ND	0.63	50	0.100	0.0630		2346994
1,2,3,4,6,7,8-Hepta CDF	pg/L	ND (1)	1.8	50	0.0100	0.0180		2346994
1,2,3,4,7,8,9-Hepta CDF	pg/L	ND	0.68	50	0.0100	0.00680		2346994
Octa CDF	pg/L	ND (1)	1.2	100	0.000300	0.000360		2346994
Total Tetra CDF	pg/L	2	0.53	20				2346994
Total Penta CDF	pg/L	2	0.68	100				2346994
Total Hexa CDF	pg/L	ND	0.53	200				2346994

ND = Not detected
 RDL = Reportable Detection Limit
 EDL = Estimated Detection Limit
 QC Batch = Quality Control Batch
 * CDD = Chloro Dibenzo-p-Dioxin, ** CDF = Chloro Dibenzo-p-Furan
 TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,
 The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.
 WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds
 (1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

Maxxam Job #: B0G4085
 Report Date: 2010/12/07

SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWP/HCP
 Your P.O. #: SYD147

DIOXINS AND FURANS BY HRMS (WATER)

Maxxam ID		HW1564						
Sampling Date		2010/11/15 14:45						
COC Number		B125830				TOXIC EQUIVALENCY	# of	
	Units	SCU17-004-MW	EDL	RDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch

Total Hepta CDF **	pg/L	ND (1)	2.1	100				2346994
TOTAL TOXIC EQUIVALENCY	pg/L					2.19		
Surrogate Recovery (%)								
C13-1234678 HeptaCDD *	%	113						2346994
C13-1234678 HeptaCDF	%	120						2346994
C13-123478 HexaCDF	%	111						2346994
C13-123678 HexaCDD	%	95						2346994
C13-12378 PentaCDD	%	80						2346994
C13-12378 PentaCDF	%	75						2346994
C13-2378 TetraCDD	%	69						2346994
C13-2378 TetraCDF	%	75						2346994
C13-OCDD	%	119						2346994

RDL = Reportable Detection Limit
 EDL = Estimated Detection Limit
 QC Batch = Quality Control Batch
 * CDD = Chloro Dibenzo-p-Dioxin, ** CDF = Chloro Dibenzo-p-Furan
 TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,
 The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.
 WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds
 (1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

Maxxam Job #: B0G4085
Report Date: 2010/12/07

SLR Consulting (Canada) Ltd
Client Project #: 210.05780.00000
Project name: 2010 GWP/HCP
Your P.O. #: SYD147

GENERAL COMMENTS

Results relate only to the items tested.

SLR Consulting (Canada) Ltd
 Attention: Kelly Henderson
 Client Project #: 210.05780.00000
 P.O. #: SYD147
 Project name: 2010 GWP/HCP

Quality Assurance Report
 Maxxam Job Number: KB0G4085

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits		
2346994 OBC	Spiked Blank	C13-1234678 HeptaCDD	2010/12/01		115	%	40 - 135		
		C13-1234678 HeptaCDF	2010/12/01		125	%	40 - 135		
		C13-123478 HexaCDF	2010/12/01		113	%	40 - 135		
		C13-123678 HexaCDD	2010/12/01		95	%	40 - 135		
		C13-12378 PentaCDD	2010/12/01		80	%	40 - 135		
		C13-12378 PentaCDF	2010/12/01		77	%	40 - 135		
		C13-2378 TetraCDD	2010/12/01		67	%	40 - 135		
		C13-2378 TetraCDF	2010/12/01		74	%	40 - 135		
		C13-OCDD	2010/12/01		118	%	40 - 135		
		2,3,7,8-Tetra CDD	2010/12/01		113	%	80 - 140		
		1,2,3,7,8-Penta CDD	2010/12/01		106	%	80 - 140		
		1,2,3,4,7,8-Hexa CDD	2010/12/01		112	%	80 - 140		
		1,2,3,6,7,8-Hexa CDD	2010/12/01		99	%	80 - 140		
		1,2,3,7,8,9-Hexa CDD	2010/12/01		108	%	80 - 140		
		1,2,3,4,6,7,8-Hepta CDD	2010/12/01		97	%	80 - 140		
		Octa CDD	2010/12/01		98	%	80 - 140		
		2,3,7,8-Tetra CDF	2010/12/01		88	%	80 - 140		
		1,2,3,7,8-Penta CDF	2010/12/01		97	%	80 - 140		
		2,3,4,7,8-Penta CDF	2010/12/01		105	%	80 - 140		
		1,2,3,4,7,8-Hexa CDF	2010/12/01		80	%	80 - 140		
		1,2,3,6,7,8-Hexa CDF	2010/12/01		80	%	80 - 140		
		2,3,4,6,7,8-Hexa CDF	2010/12/01		84	%	80 - 140		
		1,2,3,7,8,9-Hexa CDF	2010/12/01		93	%	80 - 140		
		1,2,3,4,6,7,8-Hepta CDF	2010/12/01		79 (1)	%	80 - 140		
		1,2,3,4,7,8,9-Hepta CDF	2010/12/01		103	%	80 - 140		
		Octa CDF	2010/12/01		112	%	80 - 140		
		Method Blank		C13-1234678 HeptaCDD	2010/12/02		122	%	40 - 135
				C13-1234678 HeptaCDF	2010/12/02		128	%	40 - 135
				C13-123478 HexaCDF	2010/12/02		119	%	40 - 135
				C13-123678 HexaCDD	2010/12/02		101	%	40 - 135
				C13-12378 PentaCDD	2010/12/02		82	%	40 - 135
				C13-12378 PentaCDF	2010/12/02		72	%	40 - 135
				C13-2378 TetraCDD	2010/12/02		58	%	40 - 135
				C13-2378 TetraCDF	2010/12/02		65	%	40 - 135
				C13-OCDD	2010/12/02		134	%	40 - 135
				2,3,7,8-Tetra CDD	2010/12/02		ND, EDL=0.57		pg/L
				1,2,3,7,8-Penta CDD	2010/12/02		ND, EDL=0.57		pg/L
				1,2,3,4,7,8-Hexa CDD	2010/12/02		ND, EDL=0.64		pg/L
				1,2,3,6,7,8-Hexa CDD	2010/12/02		ND, EDL=0.58		pg/L
				1,2,3,7,8,9-Hexa CDD	2010/12/02		ND, EDL=0.57		pg/L
1,2,3,4,6,7,8-Hepta CDD	2010/12/02				1, EDL=0.63		pg/L		
Octa CDD	2010/12/02				ND, EDL=1.8		pg/L		
Total Tetra CDD	2010/12/02				ND, EDL=0.57		pg/L		
Total Penta CDD	2010/12/02				ND, EDL=0.57		pg/L		
Total Hexa CDD	2010/12/02				ND, EDL=0.59		pg/L		
Total Hepta CDD	2010/12/02				ND, EDL=0.63		pg/L		
2,3,7,8-Tetra CDF	2010/12/02				ND, EDL=0.55		pg/L		
1,2,3,7,8-Penta CDF	2010/12/02				ND, EDL=0.59		pg/L		
2,3,4,7,8-Penta CDF	2010/12/02				1, EDL=0.61		pg/L		
1,2,3,4,7,8-Hexa CDF	2010/12/02				ND, EDL=0.46		pg/L		
1,2,3,6,7,8-Hexa CDF	2010/12/02				ND, EDL=0.47		pg/L		
2,3,4,6,7,8-Hexa CDF	2010/12/02				ND, EDL=0.53		pg/L		
1,2,3,7,8,9-Hexa CDF	2010/12/02				ND, EDL=0.60		pg/L		
1,2,3,4,6,7,8-Hepta CDF	2010/12/02				ND, EDL=0.49		pg/L		
1,2,3,4,7,8,9-Hepta CDF	2010/12/02				1, EDL=0.61		pg/L		

SLR Consulting (Canada) Ltd
 Attention: Kelly Henderson
 Client Project #: 210.05780.00000
 P.O. #: SYD147
 Project name: 2010 GWP/HCP

Quality Assurance Report (Continued)

Maxxam Job Number: KB0G4085

QA/QC Batch				Date Analyzed				
Num Init	QC Type	Parameter		yyyy/mm/dd	Value	Recovery	Units	QC Limits
2346994	OBC	Method Blank	Octa CDF	2010/12/02	ND, EDL=1.0		pg/L	
			Total Tetra CDF	2010/12/02	ND, EDL=2.0		pg/L	
			Total Penta CDF	2010/12/02	1, EDL=0.60		pg/L	
			Total Hexa CDF	2010/12/02	ND, EDL=0.51		pg/L	
			Total Hepta CDF	2010/12/02	ND, EDL=0.57		pg/L	

Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

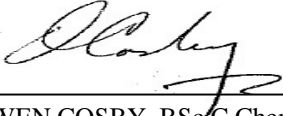
Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

(1) Below method acceptance 80-140%

Validation Signature Page

Maxxam Job #: B0G4085

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

A handwritten signature in black ink, appearing to read "Owen Cosby". The signature is written in a cursive style with a large, stylized 'O' and 'C'.

OWEN COSBY, BSc.C.Chem, Supervisor, HRMS Services

=====

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Your P.O. #: SYD147
 Your Project #: 210.05780.00000
 Site: 2010 GWMP/HCP
 Your C.O.C. #: B124954

Attention: Kelly Henderson
 SLR Consulting (Canada) Ltd
 45 Wabina Crt., Suite 107B
 PO Box 791, Station A
 Sydney, NS
 B1P 6K5

Report Date: 2010/12/07

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B0H1159
Received: 2010/11/26, 16:55

Sample Matrix: Water
 # Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
TEH in Water (PIRI)	2	2010/11/30	2010/12/01	ATL SOP-00151 R5	Based on ATL PIRI
Mercury - Total (CVAA,LL)	2	2010/12/01	2010/11/30	ATL SOP-00160 R5	Based on EPA245.1
Elements by ICPMS - low dissolved	2	N/A	2010/11/29	ATL SOP 00161 R6	Based on EPA6020A
PAH in Water by GC/MS (SIM)	2	2010/11/30	2010/12/01	ATL SOP 00147 R5	Based on EPA 8270C
VPH in Water (PIRI) (1)	2	2010/12/01	2010/12/01	ATL SOP 00118 R4	Based on Atl. PIRI
ModTPH (T1) Calc. for Water	2	N/A	2010/12/03	ATL SOP-00151 R4	Based on Atl PIRI

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bedford

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

TRACY MACLEOD-FLOYD,
 Email: TMacLeod@maxxam.ca
 Phone# (902) 567 1255

=====

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 1

Maxxam Job #: B0H1159
 Report Date: 2010/12/07

SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

SYD/ BED TIER1 (WATER)

Maxxam ID		HZ4455	HZ4458		
Sampling Date		2010/11/26 15:00	2010/11/26 15:00		
COC Number		B124954	B124954		
	Units	SCU7-006-MWB	SCU7-006-MWA	RDL	QC Batch

Petroleum Hydrocarbons					
Benzene	mg/L	ND	0.003	0.001	2346071
Toluene	mg/L	ND	0.007	0.001	2346071
Ethylbenzene	mg/L	ND	0.008	0.001	2346071
Xylene (Total)	mg/L	ND	0.029	0.002	2346071
C6 - C10 (less BTEX)	mg/L	ND	0.02	0.01	2346071
>C10-C16 Hydrocarbons	mg/L	ND	0.5	0.2	2344676
>C16-C21 Hydrocarbons	mg/L	ND	ND	0.2	2344676
>C21-<C32 Hydrocarbons	mg/L	ND	ND	0.5	2344676
Modified TPH (Tier1)	mg/L	ND	0.6	0.5	2342237
Reached Baseline at C32	mg/L	Yes	Yes	N/A	2344676
Hydrocarbon Resemblance	mg/L	NA	SEE NOTE (1)	N/A	2344676
Surrogate Recovery (%)					
Isobutylbenzene - Extractable	%	103	101		2344676
n-Dotriacontane - Extractable	%	103	102		2344676
Isobutylbenzene - Volatile	%	109	110		2346071
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch (1) Fuel Oil Range					

Maxxam Job #: B0H1159
 Report Date: 2010/12/07

SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

MERCURY BY COLD VAPOUR AA (WATER)

Maxxam ID		HZ4455	HZ4458		
Sampling Date		2010/11/26 15:00	2010/11/26 15:00		
COC Number		B124954	B124954		
	Units	SCU7-006-MWB	SCU7-006-MWA	RDL	QC Batch

Metals					
Total Mercury (Hg)	ug/L	ND	0.014	0.013	2346091

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0H1159
 Report Date: 2010/12/07

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		HZ4455	HZ4458		
Sampling Date		2010/11/26 15:00	2010/11/26 15:00		
COC Number		B124954	B124954		
	Units	SCU7-006-MWB	SCU7-006-MWA	RDL	QC Batch

Metals					
Dissolved Aluminum (Al)	ug/L	11	13	5.0	2343959
Dissolved Antimony (Sb)	ug/L	0.69	2.6	0.40	2343959
Dissolved Arsenic (As)	ug/L	7.9	3.7	0.60	2343959
Dissolved Barium (Ba)	ug/L	41	86	0.40	2343959
Dissolved Beryllium (Be)	ug/L	ND	ND	0.50	2343959
Dissolved Bismuth (Bi)	ug/L	ND	ND	2.0	2343959
Dissolved Boron (B)	ug/L	ND	110	100	2343959
Dissolved Cadmium (Cd)	ug/L	ND	0.045	0.017	2343959
Dissolved Calcium (Ca)	ug/L	110000	150000	100	2343959
Dissolved Chromium (Cr)	ug/L	ND	180	1.0	2343959
Dissolved Cobalt (Co)	ug/L	1.5	ND	1.0	2343959
Dissolved Copper (Cu)	ug/L	ND	ND	2.0	2343959
Dissolved Iron (Fe)	ug/L	1100	390	100	2343959
Dissolved Lead (Pb)	ug/L	ND	ND	1.0	2343959
Dissolved Lithium (Li)	ug/L	6.2	14	1.0	2343959
Dissolved Magnesium (Mg)	ug/L	13000	18000	60	2343959
Dissolved Manganese (Mn)	ug/L	2800	460	4.0	2343959
Dissolved Molybdenum (Mo)	ug/L	ND	ND	4.0	2343959
Dissolved Nickel (Ni)	ug/L	ND	ND	3.0	2343959
Dissolved Phosphorus (P)	ug/L	ND	ND	100	2343959
Dissolved Potassium (K)	ug/L	2100	3500	600	2343959
Dissolved Selenium (Se)	ug/L	ND	4.8	1.0	2343959
Dissolved Silver (Ag)	ug/L	ND	ND	0.10	2343959
Dissolved Sodium (Na)	ug/L	14000	7900	300	2343959
Dissolved Strontium (Sr)	ug/L	2100	440	2.0	2343959
Dissolved Thallium (Tl)	ug/L	ND	ND	0.80	2343959
Dissolved Tin (Sn)	ug/L	ND	ND	20	2343959
Dissolved Titanium (Ti)	ug/L	ND	ND	3.0	2343959
Dissolved Uranium (U)	ug/L	0.72	3.3	0.15	2343959
Dissolved Vanadium (V)	ug/L	ND	2.3	2.0	2343959

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0H1159
 Report Date: 2010/12/07

SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		HZ4455	HZ4458		
Sampling Date		2010/11/26 15:00	2010/11/26 15:00		
COC Number		B124954	B124954		
	Units	SCU7-006-MWB	SCU7-006-MWA	RDL	QC Batch

Dissolved Zinc (Zn)	ug/L	ND	ND	5.0	2343959
---------------------	------	----	----	-----	---------

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0H1159
Report Date: 2010/12/07

SLR Consulting (Canada) Ltd
Client Project #: 210.05780.00000
Project name: 2010 GWMP/HCP
Your P.O. #: SYD147

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Maxxam ID		HZ4455		HZ4458		
Sampling Date		2010/11/26 15:00		2010/11/26 15:00		
COC Number		B124954		B124954		
	Units	SCU7-006-MWB	RDL	SCU7-006-MWA	RDL	QC Batch

Polyaromatic Hydrocarbons						
1-Methylnaphthalene	ug/L	ND	0.05	15	0.05	2345109
2-Methylnaphthalene	ug/L	ND	0.05	3.0	0.05	2345109
Acenaphthene	ug/L	0.06	0.01	2.4	0.01	2345109
Acenaphthylene	ug/L	0.03	0.01	18	0.01	2345109
Anthracene	ug/L	ND	0.01	0.77	0.01	2345109
Benzo(a)anthracene	ug/L	ND	0.01	0.02	0.01	2345109
Benzo(a)pyrene	ug/L	ND	0.01	ND	0.01	2345109
Benzo(b)fluoranthene	ug/L	ND	0.01	ND	0.01	2345109
Benzo(g,h,i)perylene	ug/L	ND	0.01	ND	0.01	2345109
Benzo(k)fluoranthene	ug/L	ND	0.01	ND	0.01	2345109
Chrysene	ug/L	ND	0.01	ND	0.01	2345109
Dibenz(a,h)anthracene	ug/L	ND	0.01	ND	0.01	2345109
Fluoranthene	ug/L	ND	0.01	0.42	0.01	2345109
Fluorene	ug/L	0.01	0.01	8.0	0.01	2345109
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.01	ND	0.01	2345109
Naphthalene	ug/L	ND	0.2	70 (1)	2	2345109
Perylene	ug/L	ND	0.01	ND	0.01	2345109
Phenanthrene	ug/L	ND	0.01	3.6	0.01	2345109
Pyrene	ug/L	ND	0.01	0.22	0.01	2345109
Surrogate Recovery (%)						
D10-Anthracene	%	95		88		2345109
D14-Terphenyl	%	101		104		2345109
D8-Acenaphthylene	%	96		91		2345109

ND = Not detected
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
(1) PAH RDL(s) elevated due to sample dilution.

Maxxam Job #: B0H1159
Report Date: 2010/12/07

SLR Consulting (Canada) Ltd
Client Project #: 210.05780.00000
Project name: 2010 GWMP/HCP
Your P.O. #: SYD147

GENERAL COMMENTS

Results relate only to the items tested.

SLR Consulting (Canada) Ltd
 Attention: Kelly Henderson
 Client Project #: 210.05780.00000
 P.O. #: SYD147
 Project name: 2010 GWMP/HCP

Quality Assurance Report
 Maxxam Job Number: KB0H1159

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits		
2343959 MBU	Matrix Spike	Dissolved Aluminum (Al)	2010/11/29		102	%	75 - 125		
		Dissolved Antimony (Sb)	2010/11/29		113	%	75 - 125		
		Dissolved Arsenic (As)	2010/11/29		94	%	75 - 125		
		Dissolved Barium (Ba)	2010/11/29		102	%	75 - 125		
		Dissolved Beryllium (Be)	2010/11/29		96	%	75 - 125		
		Dissolved Bismuth (Bi)	2010/11/29		101	%	75 - 125		
		Dissolved Boron (B)	2010/11/29		102	%	75 - 125		
		Dissolved Cadmium (Cd)	2010/11/29		114	%	75 - 125		
		Dissolved Calcium (Ca)	2010/11/29		NC	%	75 - 125		
		Dissolved Chromium (Cr)	2010/11/29		106	%	75 - 125		
		Dissolved Cobalt (Co)	2010/11/29		109	%	75 - 125		
		Dissolved Copper (Cu)	2010/11/29		103	%	75 - 125		
		Dissolved Iron (Fe)	2010/11/29		97	%	75 - 125		
		Dissolved Lead (Pb)	2010/11/29		105	%	75 - 125		
		Dissolved Lithium (Li)	2010/11/29		96	%	75 - 125		
		Dissolved Magnesium (Mg)	2010/11/29		96	%	75 - 125		
		Dissolved Manganese (Mn)	2010/11/29		101	%	75 - 125		
		Dissolved Molybdenum (Mo)	2010/11/29		117	%	75 - 125		
		Dissolved Nickel (Ni)	2010/11/29		102	%	75 - 125		
		Dissolved Phosphorus (P)	2010/11/29		111	%	75 - 125		
		Dissolved Potassium (K)	2010/11/29		104	%	75 - 125		
		Dissolved Selenium (Se)	2010/11/29		111	%	75 - 125		
		Dissolved Silver (Ag)	2010/11/29		74 (1)	%	75 - 125		
		Dissolved Sodium (Na)	2010/11/29		118	%	75 - 125		
		Dissolved Strontium (Sr)	2010/11/29		NC	%	75 - 125		
		Dissolved Thallium (Tl)	2010/11/29		105	%	75 - 125		
		Dissolved Tin (Sn)	2010/11/29		109	%	75 - 125		
		Dissolved Titanium (Ti)	2010/11/29		97	%	75 - 125		
		Dissolved Uranium (U)	2010/11/29		108	%	75 - 125		
		Dissolved Vanadium (V)	2010/11/29		109	%	75 - 125		
		Dissolved Zinc (Zn)	2010/11/29		100	%	75 - 125		
		QC Standard		Dissolved Aluminum (Al)	2010/11/29		111	%	75 - 125
				Dissolved Antimony (Sb)	2010/11/29		122	%	75 - 125
Dissolved Arsenic (As)	2010/11/29				89	%	75 - 125		
Dissolved Barium (Ba)	2010/11/29				97	%	75 - 125		
Dissolved Beryllium (Be)	2010/11/29				100	%	75 - 125		
Dissolved Bismuth (Bi)	2010/11/29				122	%	75 - 125		
Dissolved Boron (B)	2010/11/29				109	%	75 - 125		
Dissolved Cadmium (Cd)	2010/11/29				107	%	75 - 125		
Dissolved Calcium (Ca)	2010/11/29				91	%	75 - 125		
Dissolved Chromium (Cr)	2010/11/29				103	%	75 - 125		
Dissolved Cobalt (Co)	2010/11/29				106	%	75 - 125		
Dissolved Copper (Cu)	2010/11/29				101	%	75 - 125		
Dissolved Lead (Pb)	2010/11/29				107	%	75 - 125		
Dissolved Lithium (Li)	2010/11/29				101	%	75 - 125		
Dissolved Magnesium (Mg)	2010/11/29				98	%	75 - 125		
Dissolved Manganese (Mn)	2010/11/29				106	%	75 - 125		
Dissolved Molybdenum (Mo)	2010/11/29				109	%	75 - 125		
Dissolved Nickel (Ni)	2010/11/29				99	%	75 - 125		
Dissolved Potassium (K)	2010/11/29				96	%	75 - 125		
Dissolved Selenium (Se)	2010/11/29				93	%	75 - 125		
Dissolved Silver (Ag)	2010/11/29				105	%	75 - 125		
Dissolved Sodium (Na)	2010/11/29		101	%	75 - 125				
Dissolved Strontium (Sr)	2010/11/29		97	%	75 - 125				
Dissolved Thallium (Tl)	2010/11/29		110	%	75 - 125				

SLR Consulting (Canada) Ltd
 Attention: Kelly Henderson
 Client Project #: 210.05780.00000
 P.O. #: SYD147
 Project name: 2010 GWMP/HCP

Quality Assurance Report (Continued)

Maxxam Job Number: KB0H1159

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2343959 MBU	QC Standard	Dissolved Vanadium (V)	2010/11/29		105	%	75 - 125
		Dissolved Zinc (Zn)	2010/11/29		97	%	75 - 125
	Spiked Blank	Dissolved Aluminum (Al)	2010/11/29		101	%	75 - 125
		Dissolved Antimony (Sb)	2010/11/29		107	%	75 - 125
		Dissolved Arsenic (As)	2010/11/29		90	%	75 - 125
		Dissolved Barium (Ba)	2010/11/29		103	%	75 - 125
		Dissolved Beryllium (Be)	2010/11/29		106	%	75 - 125
		Dissolved Bismuth (Bi)	2010/11/29		105	%	75 - 125
		Dissolved Boron (B)	2010/11/29		110	%	75 - 125
		Dissolved Cadmium (Cd)	2010/11/29		110	%	75 - 125
		Dissolved Calcium (Ca)	2010/11/29		96	%	75 - 125
		Dissolved Chromium (Cr)	2010/11/29		107	%	75 - 125
		Dissolved Cobalt (Co)	2010/11/29		108	%	75 - 125
		Dissolved Copper (Cu)	2010/11/29		103	%	75 - 125
		Dissolved Iron (Fe)	2010/11/29		94	%	75 - 125
		Dissolved Lead (Pb)	2010/11/29		107	%	75 - 125
		Dissolved Lithium (Li)	2010/11/29		99	%	75 - 125
		Dissolved Magnesium (Mg)	2010/11/29		99	%	75 - 125
		Dissolved Manganese (Mn)	2010/11/29		101	%	75 - 125
		Dissolved Molybdenum (Mo)	2010/11/29		110	%	75 - 125
		Dissolved Nickel (Ni)	2010/11/29		103	%	75 - 125
		Dissolved Phosphorus (P)	2010/11/29		106	%	75 - 125
		Dissolved Potassium (K)	2010/11/29		100	%	75 - 125
		Dissolved Selenium (Se)	2010/11/29		104	%	75 - 125
		Dissolved Silver (Ag)	2010/11/29		85	%	75 - 125
		Dissolved Sodium (Na)	2010/11/29		105	%	75 - 125
		Dissolved Strontium (Sr)	2010/11/29		110	%	75 - 125
		Dissolved Thallium (Tl)	2010/11/29		110	%	75 - 125
		Dissolved Tin (Sn)	2010/11/29		107	%	75 - 125
	Dissolved Titanium (Ti)	2010/11/29		94	%	75 - 125	
	Dissolved Uranium (U)	2010/11/29		109	%	75 - 125	
	Dissolved Vanadium (V)	2010/11/29		106	%	75 - 125	
	Dissolved Zinc (Zn)	2010/11/29		101	%	75 - 125	
Method Blank	Dissolved Aluminum (Al)	2010/11/29		ND, RDL=5.0		ug/L	
	Dissolved Antimony (Sb)	2010/11/29		ND, RDL=0.40		ug/L	
	Dissolved Arsenic (As)	2010/11/29		ND, RDL=0.60		ug/L	
	Dissolved Barium (Ba)	2010/11/29		ND, RDL=0.40		ug/L	
	Dissolved Beryllium (Be)	2010/11/29		ND, RDL=0.50		ug/L	
	Dissolved Bismuth (Bi)	2010/11/29		ND, RDL=2.0		ug/L	
	Dissolved Boron (B)	2010/11/29		ND, RDL=100		ug/L	
	Dissolved Cadmium (Cd)	2010/11/29		ND, RDL=0.017		ug/L	
	Dissolved Calcium (Ca)	2010/11/29		ND, RDL=100		ug/L	
	Dissolved Chromium (Cr)	2010/11/29		ND, RDL=1.0		ug/L	
	Dissolved Cobalt (Co)	2010/11/29		ND, RDL=1.0		ug/L	
	Dissolved Copper (Cu)	2010/11/29		ND, RDL=2.0		ug/L	
	Dissolved Iron (Fe)	2010/11/29		ND, RDL=100		ug/L	
	Dissolved Lead (Pb)	2010/11/29		ND, RDL=1.0		ug/L	
	Dissolved Lithium (Li)	2010/11/29		ND, RDL=1.0		ug/L	
Dissolved Magnesium (Mg)	2010/11/29		ND, RDL=60		ug/L		
Dissolved Manganese (Mn)	2010/11/29		ND, RDL=4.0		ug/L		
Dissolved Molybdenum (Mo)	2010/11/29		ND, RDL=4.0		ug/L		
Dissolved Nickel (Ni)	2010/11/29		ND, RDL=3.0		ug/L		
Dissolved Phosphorus (P)	2010/11/29		ND, RDL=100		ug/L		
Dissolved Potassium (K)	2010/11/29		ND, RDL=600		ug/L		
Dissolved Selenium (Se)	2010/11/29		ND, RDL=1.0		ug/L		

SLR Consulting (Canada) Ltd
 Attention: Kelly Henderson
 Client Project #: 210.05780.00000
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Quality Assurance Report (Continued)

Maxxam Job Number: KB0H1159

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2343959 MBU	Method Blank	Dissolved Silver (Ag)	2010/11/29	ND, RDL=0.10		ug/L		
		Dissolved Sodium (Na)	2010/11/29	ND, RDL=300		ug/L		
		Dissolved Strontium (Sr)	2010/11/29	ND, RDL=2.0		ug/L		
		Dissolved Thallium (Tl)	2010/11/29	ND, RDL=0.80		ug/L		
		Dissolved Tin (Sn)	2010/11/29	ND, RDL=20		ug/L		
		Dissolved Titanium (Ti)	2010/11/29	ND, RDL=3.0		ug/L		
		Dissolved Uranium (U)	2010/11/29	ND, RDL=0.15		ug/L		
		Dissolved Vanadium (V)	2010/11/29	ND, RDL=2.0		ug/L		
		Dissolved Zinc (Zn)	2010/11/29	ND, RDL=5.0		ug/L		
		RPD	Dissolved Aluminum (Al)	2010/11/29	NC		%	25
			Dissolved Antimony (Sb)	2010/11/29	NC		%	25
			Dissolved Arsenic (As)	2010/11/29	NC		%	25
			Dissolved Barium (Ba)	2010/11/29	0.7		%	25
			Dissolved Beryllium (Be)	2010/11/29	NC		%	25
			Dissolved Bismuth (Bi)	2010/11/29	NC		%	25
			Dissolved Boron (B)	2010/11/29	NC		%	25
			Dissolved Cadmium (Cd)	2010/11/29	0.02		%	25
			Dissolved Chromium (Cr)	2010/11/29	NC		%	25
			Dissolved Cobalt (Co)	2010/11/29	NC		%	25
			Dissolved Copper (Cu)	2010/11/29	NC		%	25
			Dissolved Iron (Fe)	2010/11/29	NC		%	25
			Dissolved Lead (Pb)	2010/11/29	NC		%	25
			Dissolved Lithium (Li)	2010/11/29	0.5		%	25
			Dissolved Manganese (Mn)	2010/11/29	0.2		%	25
			Dissolved Molybdenum (Mo)	2010/11/29	1.0		%	25
			Dissolved Nickel (Ni)	2010/11/29	NC		%	25
			Dissolved Phosphorus (P)	2010/11/29	NC		%	25
			Dissolved Selenium (Se)	2010/11/29	NC		%	25
			Dissolved Silver (Ag)	2010/11/29	NC		%	25
			Dissolved Strontium (Sr)	2010/11/29	1.4		%	25
			Dissolved Thallium (Tl)	2010/11/29	NC		%	25
			Dissolved Tin (Sn)	2010/11/29	NC		%	25
			Dissolved Titanium (Ti)	2010/11/29	NC		%	25
Dissolved Uranium (U)	2010/11/29		1.1		%	25		
Dissolved Vanadium (V)	2010/11/29		NC		%	25		
Dissolved Zinc (Zn)	2010/11/29		NC		%	25		
2344676 JHO	Matrix Spike [HZ4455-01]	Isobutylbenzene - Extractable	2010/12/01		83	%	30 - 130	
		n-Dotriacontane - Extractable	2010/12/01		106	%	30 - 130	
		>C10-C16 Hydrocarbons	2010/12/01		83	%	70 - 130	
		>C16-C21 Hydrocarbons	2010/12/01		82	%	70 - 130	
		>C21-<C32 Hydrocarbons	2010/12/01		51	%	50 - 120	
	Spiked Blank	Isobutylbenzene - Extractable	2010/12/01		102	%	30 - 130	
		n-Dotriacontane - Extractable	2010/12/01		105	%	30 - 130	
		>C10-C16 Hydrocarbons	2010/12/01		125	%	70 - 130	
		>C16-C21 Hydrocarbons	2010/12/01		107	%	70 - 130	
		>C21-<C32 Hydrocarbons	2010/12/01		70	%	50 - 120	
	Method Blank	Isobutylbenzene - Extractable	2010/12/01		129	%	30 - 130	
		n-Dotriacontane - Extractable	2010/12/01		88	%	30 - 130	
		>C10-C16 Hydrocarbons	2010/12/01	ND, RDL=0.2		mg/L		
		>C16-C21 Hydrocarbons	2010/12/01	ND, RDL=0.2		mg/L		
		>C21-<C32 Hydrocarbons	2010/12/01	ND, RDL=0.5		mg/L		
	RPD [HZ4458-01]	>C10-C16 Hydrocarbons	2010/12/01	NC		%	40	
		>C16-C21 Hydrocarbons	2010/12/01	NC		%	40	
		>C21-<C32 Hydrocarbons	2010/12/01	NC		%	40	

SLR Consulting (Canada) Ltd
 Attention: Kelly Henderson
 Client Project #: 210.05780.00000
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 Project name: 2010 GWMP/HCP

Quality Assurance Report (Continued)

Maxxam Job Number: KB0H1159

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2345109 TML	Matrix Spike [HZ4458-01]	D10-Anthracene	2010/12/02		93	%	30 - 130
		D14-Terphenyl	2010/12/02		124	%	30 - 130
		D8-Acenaphthylene	2010/12/02		98	%	30 - 130
		1-Methylnaphthalene	2010/12/02		94	%	50 - 130
		2-Methylnaphthalene	2010/12/02		62	%	50 - 130
		Acenaphthene	2010/12/02		79	%	50 - 130
		Acenaphthylene	2010/12/02		64	%	50 - 130
		Anthracene	2010/12/02		92	%	50 - 130
		Benzo(a)anthracene	2010/12/02		113	%	50 - 130
		Benzo(a)pyrene	2010/12/02		107	%	50 - 130
		Benzo(b)fluoranthene	2010/12/02		116	%	50 - 130
		Benzo(g,h,i)perylene	2010/12/02		105	%	50 - 130
		Benzo(k)fluoranthene	2010/12/02		105	%	50 - 130
		Chrysene	2010/12/02		90	%	50 - 130
		Dibenz(a,h)anthracene	2010/12/02		100	%	50 - 130
		Fluoranthene	2010/12/02		93	%	50 - 130
		Fluorene	2010/12/02		86	%	50 - 130
		Indeno(1,2,3-cd)pyrene	2010/12/02		110	%	50 - 130
		Naphthalene	2010/12/02		-3100 (2)	%	50 - 130
		Perylene	2010/12/02		94	%	50 - 130
		Phenanthrene	2010/12/02		117	%	50 - 130
	Pyrene	2010/12/02		96	%	50 - 130	
	Spiked Blank	D10-Anthracene	2010/12/01		88	%	30 - 130
		D14-Terphenyl	2010/12/01		106	%	30 - 130
		D8-Acenaphthylene	2010/12/01		92	%	30 - 130
		1-Methylnaphthalene	2010/12/01		89	%	50 - 130
		2-Methylnaphthalene	2010/12/01		88	%	50 - 130
		Acenaphthene	2010/12/01		88	%	50 - 130
		Acenaphthylene	2010/12/01		93	%	50 - 130
		Anthracene	2010/12/01		91	%	50 - 130
		Benzo(a)anthracene	2010/12/01		101	%	50 - 130
		Benzo(a)pyrene	2010/12/01		96	%	50 - 130
		Benzo(b)fluoranthene	2010/12/01		104	%	50 - 130
Benzo(g,h,i)perylene		2010/12/01		96	%	50 - 130	
Benzo(k)fluoranthene		2010/12/01		97	%	50 - 130	
Chrysene		2010/12/01		81	%	50 - 130	
Dibenz(a,h)anthracene		2010/12/01		94	%	50 - 130	
Fluoranthene		2010/12/01		95	%	50 - 130	
Fluorene		2010/12/01		91	%	50 - 130	
Indeno(1,2,3-cd)pyrene		2010/12/01		101	%	50 - 130	
Naphthalene	2010/12/01		82	%	50 - 130		
Perylene	2010/12/01		86	%	50 - 130		
Phenanthrene	2010/12/01		83	%	50 - 130		
Pyrene	2010/12/01		91	%	50 - 130		
Method Blank	D10-Anthracene	2010/12/01		96	%	30 - 130	
	D14-Terphenyl	2010/12/01		103	%	30 - 130	
	D8-Acenaphthylene	2010/12/01		97	%	30 - 130	
	1-Methylnaphthalene	2010/12/01		ND, RDL=0.05		ug/L	
	2-Methylnaphthalene	2010/12/01		ND, RDL=0.05		ug/L	
	Acenaphthene	2010/12/01		ND, RDL=0.01		ug/L	
	Acenaphthylene	2010/12/01		ND, RDL=0.01		ug/L	
	Anthracene	2010/12/01		ND, RDL=0.01		ug/L	
	Benzo(a)anthracene	2010/12/01		ND, RDL=0.01		ug/L	
	Benzo(a)pyrene	2010/12/01		ND, RDL=0.01		ug/L	

SLR Consulting (Canada) Ltd
 Attention: Kelly Henderson
 Client Project #: 210.05780.00000
 P.O. #: SYD147
 Project name: 2010 GWMP/HCP

Quality Assurance Report (Continued)

Maxxam Job Number: KB0H1159

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2345109 TML	Method Blank	Benzo(b)fluoranthene	2010/12/01	ND, RDL=0.01		ug/L		
		Benzo(g,h,i)perylene	2010/12/01	ND, RDL=0.01		ug/L		
		Benzo(k)fluoranthene	2010/12/01	ND, RDL=0.01		ug/L		
		Chrysene	2010/12/01	ND, RDL=0.01		ug/L		
		Dibenz(a,h)anthracene	2010/12/01	ND, RDL=0.01		ug/L		
		Fluoranthene	2010/12/01	ND, RDL=0.01		ug/L		
		Fluorene	2010/12/01	ND, RDL=0.01		ug/L		
		Indeno(1,2,3-cd)pyrene	2010/12/01	ND, RDL=0.01		ug/L		
		Naphthalene	2010/12/01	ND, RDL=0.2		ug/L		
		Perylene	2010/12/01	ND, RDL=0.01		ug/L		
		Phenanthrene	2010/12/01	ND, RDL=0.01		ug/L		
		Pyrene	2010/12/01	ND, RDL=0.01		ug/L		
		RPD [HZ4455-01]	1-Methylnaphthalene	2010/12/01	NC		%	40
			2-Methylnaphthalene	2010/12/01	NC		%	40
			Acenaphthene	2010/12/01	2.9		%	40
			Acenaphthylene	2010/12/01	NC		%	40
			Anthracene	2010/12/01	NC		%	40
			Benzo(a)anthracene	2010/12/01	NC		%	40
			Benzo(a)pyrene	2010/12/01	NC		%	40
			Benzo(b)fluoranthene	2010/12/01	NC		%	40
	Benzo(g,h,i)perylene		2010/12/01	NC		%	40	
	Benzo(k)fluoranthene		2010/12/01	NC		%	40	
	Chrysene		2010/12/01	NC		%	40	
	Dibenz(a,h)anthracene		2010/12/01	NC		%	40	
	Fluoranthene	2010/12/01	NC		%	40		
	Fluorene	2010/12/01	NC		%	40		
	Indeno(1,2,3-cd)pyrene	2010/12/01	NC		%	40		
	Naphthalene	2010/12/01	NC		%	40		
	Perylene	2010/12/01	NC		%	40		
	Phenanthrene	2010/12/01	NC		%	40		
	Pyrene	2010/12/01	NC		%	40		
	2346071 THL	Matrix Spike	Isobutylbenzene - Volatile	2010/12/01		107	%	70 - 130
Benzene			2010/12/01		113	%	70 - 130	
Toluene			2010/12/01		109	%	70 - 130	
Ethylbenzene			2010/12/01		109	%	70 - 130	
Xylene (Total)			2010/12/01		112	%	70 - 130	
Spiked Blank		Isobutylbenzene - Volatile	2010/12/01		97	%	70 - 130	
		Benzene	2010/12/01		112	%	70 - 130	
		Toluene	2010/12/01		105	%	70 - 130	
		Ethylbenzene	2010/12/01		104	%	70 - 130	
		Xylene (Total)	2010/12/01		107	%	70 - 130	
Method Blank		Isobutylbenzene - Volatile	2010/12/01		103	%	70 - 130	
		Benzene	2010/12/01	ND, RDL=0.001		mg/L		
		Toluene	2010/12/01	ND, RDL=0.001		mg/L		
		Ethylbenzene	2010/12/01	ND, RDL=0.001		mg/L		
		Xylene (Total)	2010/12/01	ND, RDL=0.002		mg/L		
RPD		C6 - C10 (less BTEX)	2010/12/01	ND, RDL=0.01		mg/L		
		Benzene	2010/12/01	NC		%	40	
		Toluene	2010/12/01	NC		%	40	
		Ethylbenzene	2010/12/01	NC		%	40	
		Xylene (Total)	2010/12/01	NC		%	40	
2346091 BMI	Matrix Spike [HZ4455-01]	Total Mercury (Hg)	2010/11/30		113	%	80 - 120	
		Total Mercury (Hg)	2010/11/30		102	%	80 - 120	
	QC Standard							

SLR Consulting (Canada) Ltd
 Attention: Kelly Henderson
 Client Project #: 210.05780.00000
 P.O. #: SYD147
 Project name: 2010 GWMP/HCP

Quality Assurance Report (Continued)

Maxxam Job Number: KB0H1159

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2346091 BMI	Spiked Blank	Total Mercury (Hg)	2010/11/30		99	%	80 - 120
	Method Blank	Total Mercury (Hg)	2010/11/30	ND, RDL=0.013		ug/L	
	RPD	Total Mercury (Hg)	2010/11/30	NC		%	25

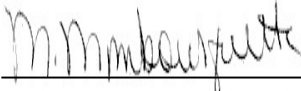
Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
 Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
 QC Standard: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
 NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

(1) Matrix Spike: <10 % of compounds in multi-component analysis are in violation.
 (2) Matrix Spike: sample concentration is >2X spiking level. PAH RDL(s) elevated due to sample dilution.

Validation Signature Page

Maxxam Job #: B0H1159

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



MICHELLE MOMBOURQUETTE, Laboratory Manager



ROSE MACDONALD,

=====

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Your P.O. #: SYD147
 Your Project #: 210.05780.00000
 Site: 2010 GWMP/HCP
 Your C.O.C. #: B125823

Attention: Kelly Henderson

SLR Consulting (Canada) Ltd
 45 Wabina Crt., Suite 107B
 PO Box 791, Station A
 Sydney, NS
 B1P 6K5

Report Date: 2011/02/17

This report supersedes all previous reports with the same Maxxam job number

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B0G2873

Received: 2010/11/12, 14:57

Sample Matrix: Water
 # Samples Received: 12

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Carbonate, Bicarbonate and Hydroxide	1	N/A	2010/11/16	CAM SOP-00102	APHA 4500-CO2 D
Alkalinity by Auto. Titration in Water	1	N/A	2010/11/15	ATL SOP 00167 R2	Based on SM2320B
Chloride ☉	1	N/A	2010/11/18	ATL SOP 00014 R6	Based on SM4500-CI-
Colour	1	N/A	2010/11/18	ATL SOP-00159 R4	Based on SM2120
Conductance - water	1	N/A	2010/11/15	ATL SOP-00169 R2	Based on SM2510
TEH in Water (PIRI)	12	2010/11/17	2010/11/18	ATL SOP-00151 R5	Based on ATL PIRI
Hardness (calculated as CaCO3)	1	N/A	2010/11/18		
Mercury - Total (CVAA,LL)	5	2010/11/17	2010/11/16	ATL SOP-00160 R5	Based on EPA245.1
Mercury - Total (CVAA,LL)	7	2010/11/18	2010/11/17	ATL SOP-00160 R5	Based on EPA245.1
Elements by ICPMS - low dissolved	10	N/A	2010/11/17	ATL SOP 00161 R6	Based on EPA6020A
Elements by ICPMS - low dissolved	2	N/A	2010/11/18	ATL SOP 00161 R6	Based on EPA6020A
Ion Balance (% Difference)	1	N/A	2010/11/22		
Anion and Cation Sum	1	N/A	2010/11/18		
Nitrogen Ammonia - water ☉	1	N/A	2010/11/17	ATL SOP 00015 R5	Based on USEPA 350.1
Nitrogen - Nitrate + Nitrite ☉	1	N/A	2010/11/18	ATL SOP 00016 R4	Based on USGS - Enz.
Nitrogen - Nitrite ☉	1	N/A	2010/11/18	ATL SOP 00017 R4	Based on SM4500-NO2B
Nitrogen - Nitrate (as N) ☉	1	N/A	2010/11/22	ATL SOP 00018 R3	Based on ASTM D3867
PAH in Water by GC/MS (SIM)	12	2010/11/16	2010/11/18	ATL SOP 00147 R5	Based on EPA 8270C
pH	1	N/A	2010/11/15	ATL SOP 00168 R4	Based on SM4500H+
Phosphorus - ortho ☉	1	N/A	2010/11/19	ATL SOP 00021 R3	Based on USEPA 365.4
VPH in Water (PIRI) ☉	7	2010/11/18	2010/11/19	ATL SOP 00118 R4	Based on Atl. PIRI
VPH in Water (PIRI) ☉	3	2010/11/18	2010/11/20	ATL SOP 00118 R4	Based on Atl. PIRI
VPH in Water (PIRI) ☉	1	2010/11/18	2010/11/21	ATL SOP 00118 R4	Based on Atl. PIRI
VPH in Water (PIRI) ☉	1	2010/11/18	2010/11/22	ATL SOP 00118 R4	Based on Atl. PIRI
Sat. pH and Langelier Index (@ 20C)	1	N/A	2010/11/22		
Sat. pH and Langelier Index (@ 4C)	1	N/A	2010/11/22		
Silica by ICP-MS/Calculation	1	N/A	2010/11/18	ATL SOP 00161 R5	Based on EPA6020
Sulphate ☉	1	N/A	2010/11/19	ATL SOP 00023 R3	Based on EPA 375.4
Total Dissolved Solids (TDS calc)	1	N/A	2010/11/22		
Organic carbon - Total (TOC)	1	N/A	2010/11/17	ATL SOP-00180 R4	Based on SM5310C
ModTPH (T1) Calc. for Water	12	N/A	2010/11/22	ATL SOP-00151 R4	Based on Atl PIRI
Turbidity	1	N/A	2010/11/19	ATL SOP-00166 R6	based on SM2130

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bedford

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

TRACY MACLEOD-FLOYD,
Email: TMacLeod@maxxam.ca
Phone# (902) 567 1255

=====
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Total cover pages: 1

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This document is in electronic format, hard copy is available on request.

Maxxam Job #: B0G2873
Report Date: 2011/02/17

SLR Consulting (Canada) Ltd
Client Project #: 210.05780.00000
Project name: 2010 GWMP/HCP
Your P.O. #: SYD147

RCP BEDFORD ANIONS SYD DIS MET FW (WATER)

Maxxam ID		HV5523		
Sampling Date		2010/11/11		
COC Number		B125823		
	Units	SCU16-004-MW	RDL	QC Batch

Calculated Parameters				
Anion Sum	me/L	7.75	N/A	2327813
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	74	1	2327739
Calculated TDS	mg/L	524	1	2327816
Carb. Alkalinity (calc. as CaCO3)	mg/L	ND	1	2327739
Cation Sum	me/L	7.32	N/A	2327813
Hardness (CaCO3)	mg/L	340	1	2327811
Ion Balance (% Difference)	%	2.85	N/A	2327812
Langelier Index (@ 20C)	N/A	0.587		2327814
Langelier Index (@ 4C)	N/A	0.339		2327815
Nitrate (N)	mg/L	0.45	0.05	2327693
Saturation pH (@ 20C)	N/A	7.51		2327814
Saturation pH (@ 4C)	N/A	7.76		2327815
Inorganics				
Alkalinity (Total as CaCO3)	mg/L	75	5	2329505
Dissolved Chloride (Cl)	mg/L	9	1	2333583
Colour	TCU	ND	5	2333511
Nitrate + Nitrite	mg/L	0.45	0.05	2333590
Nitrite (N)	mg/L	ND	0.01	2333593
Nitrogen (Ammonia Nitrogen)	mg/L	ND	0.05	2332480
Total Organic Carbon (C)	mg/L	1.4	0.5	2333672
Orthophosphate (P)	mg/L	0.01	0.01	2333588
pH	pH	8.10	N/A	2329498
Silica (SiO2)	mg/L	36	0.1	2332588
Dissolved Sulphate (SO4)	mg/L	290	10	2333587
Turbidity	NTU	4.1	0.1	2334804
Conductivity	uS/cm	720	1	2329504
Metals				
Dissolved Aluminum (Al)	ug/L	6.3	5.0	2332583
Dissolved Antimony (Sb)	ug/L	1.5	0.40	2332583
Dissolved Arsenic (As)	ug/L	3.2	0.60	2332583
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch				

Maxxam Job #: B0G2873
Report Date: 2011/02/17

SLR Consulting (Canada) Ltd
Client Project #: 210.05780.00000
Project name: 2010 GWMP/HCP
Your P.O. #: SYD147

RCP BEDFORD ANIONS SYD DIS MET FW (WATER)

Maxxam ID		HV5523		
Sampling Date		2010/11/11		
COC Number		B125823		
	Units	SCU16-004-MW	RDL	QC Batch
Dissolved Barium (Ba)	ug/L	41	0.40	2332583
Dissolved Beryllium (Be)	ug/L	ND	0.50	2332583
Dissolved Bismuth (Bi)	ug/L	ND	2.0	2332583
Dissolved Boron (B)	ug/L	100	100	2332583
Dissolved Cadmium (Cd)	ug/L	ND	0.017	2332583
Dissolved Calcium (Ca)	ug/L	120000	100	2332583
Dissolved Chromium (Cr)	ug/L	2.5	1.0	2332583
Dissolved Cobalt (Co)	ug/L	ND	1.0	2332583
Dissolved Copper (Cu)	ug/L	ND	2.0	2332583
Dissolved Iron (Fe)	ug/L	ND	100	2332583
Dissolved Lead (Pb)	ug/L	ND	1.0	2332583
Dissolved Lithium (Li)	ug/L	25	1.0	2332583
Dissolved Magnesium (Mg)	ug/L	7300	60	2332583
Dissolved Manganese (Mn)	ug/L	ND	4.0	2332583
Dissolved Molybdenum (Mo)	ug/L	7.7	4.0	2332583
Dissolved Nickel (Ni)	ug/L	ND	3.0	2332583
Dissolved Phosphorus (P)	ug/L	ND	100	2332583
Dissolved Potassium (K)	ug/L	4100	600	2332583
Dissolved Selenium (Se)	ug/L	3.7	1.0	2332583
Dissolved Silver (Ag)	ug/L	ND	0.10	2332583
Dissolved Sodium (Na)	ug/L	11000	300	2332583
Dissolved Strontium (Sr)	ug/L	1100	2.0	2332583
Dissolved Thallium (Tl)	ug/L	ND	0.80	2332583
Dissolved Tin (Sn)	ug/L	ND	20	2332583
Dissolved Titanium (Ti)	ug/L	ND	3.0	2332583
Dissolved Uranium (U)	ug/L	2.8	0.15	2332583
Dissolved Vanadium (V)	ug/L	14	2.0	2332583
Dissolved Zinc (Zn)	ug/L	ND	5.0	2332583
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch				

Maxxam Job #: B0G2873
 Report Date: 2011/02/17

SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

SYD/ BED TIER1 (WATER)

Maxxam ID		HV5513	HV5519	HV5520	HV5521		
Sampling Date		2010/11/11	2010/11/11	2010/11/12	2010/11/12		
COC Number		B125823	B125823	B125823	B125823		
	Units	SCU15-002-MWB	SCU15-002-MWA	FD2	SCU16-011-MWA	RDL	QC Batch

Petroleum Hydrocarbons							
Benzene	mg/L	ND	ND	ND	ND	0.001	2333465
Toluene	mg/L	ND	ND	ND	ND	0.001	2333465
Ethylbenzene	mg/L	ND	ND	ND	ND	0.001	2333465
Xylene (Total)	mg/L	ND	ND	ND	ND	0.002	2333465
C6 - C10 (less BTEX)	mg/L	ND	ND	ND	ND	0.01	2333465
>C10-C16 Hydrocarbons	mg/L	ND	ND	ND	ND	0.2	2332271
>C16-C21 Hydrocarbons	mg/L	ND	ND	ND	ND	0.2	2332271
>C21-<C32 Hydrocarbons	mg/L	ND	ND	ND	ND	0.5	2332271
Modified TPH (Tier1)	mg/L	ND	ND	ND	ND	0.5	2327817
Reached Baseline at C32	mg/L	Yes	Yes	Yes	Yes	N/A	2332271
Hydrocarbon Resemblance	mg/L	NA	NA	NA	NA	N/A	2332271
Surrogate Recovery (%)							
Isobutylbenzene - Extractable	%	94	92	108	98		2332271
n-Dotriacontane - Extractable	%	93	89	96	97		2332271
Isobutylbenzene - Volatile	%	109	109	113	100		2333465

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G2873
 Report Date: 2011/02/17

SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

SYD/ BED TIER1 (WATER)

Maxxam ID		HV5522	HV5523	HV5524	HV5525	HV5526		
Sampling Date		2010/11/12	2010/11/11	2010/11/11	2010/11/11	2010/11/12		
COC Number		B125823	B125823	B125823	B125823	B125823		
	Units	SCU16-011-MWB	SCU16-004-MW	SCU15-013-MW	SCU16-006-MW	SCU18-001-MW	RDL	QC Batch

Petroleum Hydrocarbons								
Benzene	mg/L	ND	ND	ND	ND	ND	0.001	2333465
Toluene	mg/L	ND	ND	ND	ND	ND	0.001	2333465
Ethylbenzene	mg/L	ND	ND	ND	ND	ND	0.001	2333465
Xylene (Total)	mg/L	ND	ND	ND	ND	ND	0.002	2333465
C6 - C10 (less BTEX)	mg/L	ND	ND	ND	ND	ND	0.01	2333465
>C10-C16 Hydrocarbons	mg/L	ND	ND	ND	ND	ND	0.2	2332271
>C16-C21 Hydrocarbons	mg/L	ND	ND	ND	ND	ND	0.2	2332271
>C21-<C32 Hydrocarbons	mg/L	ND	ND	ND	ND	ND	0.5	2332271
Modified TPH (Tier1)	mg/L	ND	ND	ND	ND	ND	0.5	2327817
Reached Baseline at C32	mg/L	Yes	Yes	Yes	Yes	Yes	N/A	2332271
Hydrocarbon Resemblance	mg/L	NA	NA	NA	NA	NA	N/A	2332271
Surrogate Recovery (%)								
Isobutylbenzene - Extractable	%	96	85	98	94	97		2332271
n-Dotriacontane - Extractable	%	93	84	94	92	95		2332271
Isobutylbenzene - Volatile	%	113	119	114	119	105		2333465

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G2873
 Report Date: 2011/02/17

SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

SYD/ BED TIER1 (WATER)

Maxxam ID		HV5527	HV5528	HV5529		
Sampling Date		2010/11/12	2010/11/12	2010/11/12		
COC Number		B125823	B125823	B125823		
	Units	SCU18-002-MW	SCU16-013-MW	SCU16-011-MWC	RDL	QC Batch

Petroleum Hydrocarbons						
Benzene	mg/L	ND	ND	ND	0.001	2333465
Toluene	mg/L	ND	ND	ND	0.001	2333465
Ethylbenzene	mg/L	ND	ND	ND	0.001	2333465
Xylene (Total)	mg/L	ND	ND	ND	0.002	2333465
C6 - C10 (less BTEX)	mg/L	ND	ND	ND	0.01	2333465
>C10-C16 Hydrocarbons	mg/L	ND	ND	ND	0.2	2332271
>C16-C21 Hydrocarbons	mg/L	ND	ND	ND	0.2	2332271
>C21-<C32 Hydrocarbons	mg/L	ND	ND	ND	0.5	2332271
Modified TPH (Tier1)	mg/L	ND	ND	ND	0.5	2327817
Reached Baseline at C32	mg/L	Yes	Yes	Yes	N/A	2332271
Hydrocarbon Resemblance	mg/L	NA	NA	NA	N/A	2332271
Surrogate Recovery (%)						
Isobutylbenzene - Extractable	%	104	101	98		2332271
n-Dotriacontane - Extractable	%	100	104	94		2332271
Isobutylbenzene - Volatile	%	120	118	108		2333465

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G2873
 Report Date: 2011/02/17

SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

MERCURY BY COLD VAPOUR AA (WATER)

Maxxam ID		HV5513	HV5519	HV5520	HV5521	HV5522		
Sampling Date		2010/11/11	2010/11/11	2010/11/12	2010/11/12	2010/11/12		
COC Number		B125823	B125823	B125823	B125823	B125823		
	Units	SCU15-002-MWB	SCU15-002-MWA	FD2	SCU16-011-MWA	SCU16-011-MWB	RDL	QC Batch

Metals								
Total Mercury (Hg)	ug/L	ND	ND	ND	ND	ND	0.013	2331989
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch								

Maxxam ID		HV5523	HV5524	HV5525	HV5526	HV5527		
Sampling Date		2010/11/11	2010/11/11	2010/11/11	2010/11/12	2010/11/12		
COC Number		B125823	B125823	B125823	B125823	B125823		
	Units	SCU16-004-MW	SCU15-013-MW	SCU16-006-MW	SCU18-001-MW	SCU18-002-MW	RDL	QC Batch

Metals								
Total Mercury (Hg)	ug/L	ND	ND	ND	ND	ND	0.013	2333698
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch								

Maxxam ID		HV5528	HV5529		
Sampling Date		2010/11/12	2010/11/12		
COC Number		B125823	B125823		
	Units	SCU16-013-MW	SCU16-011-MWC	RDL	QC Batch

Metals					
Total Mercury (Hg)	ug/L	ND	ND	0.013	2333698
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch					

Maxxam Job #: B0G2873
 Report Date: 2011/02/17

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		HV5513		HV5519	HV5520	HV5521		
Sampling Date		2010/11/11		2010/11/11	2010/11/12	2010/11/12		
COC Number		B125823		B125823	B125823	B125823		
	Units	SCU15-002-MWB	RDL	SCU15-002-MWA	FD2	SCU16-011-MWA	RDL	QC Batch

Metals								
Dissolved Aluminum (Al)	ug/L	7.5	5.0	14	24	160	5.0	2332578
Dissolved Antimony (Sb)	ug/L	1.6	0.40	2.9	ND	0.58	0.40	2332578
Dissolved Arsenic (As)	ug/L	25	0.60	2.8	14	3.1	0.60	2332578
Dissolved Barium (Ba)	ug/L	14	0.40	47	43	24	0.40	2332578
Dissolved Beryllium (Be)	ug/L	ND	0.50	ND	ND	ND	0.50	2332578
Dissolved Bismuth (Bi)	ug/L	ND	2.0	ND	ND	ND	2.0	2332578
Dissolved Boron (B)	ug/L	310	100	150	ND	ND	100	2332578
Dissolved Cadmium (Cd)	ug/L	0.023	0.017	0.048	ND	ND	0.017	2332578
Dissolved Calcium (Ca)	ug/L	47000	100	150000	60000	73000	100	2332578
Dissolved Chromium (Cr)	ug/L	ND	1.0	1.1	ND	25	1.0	2332578
Dissolved Cobalt (Co)	ug/L	ND	1.0	ND	ND	ND	1.0	2332578
Dissolved Copper (Cu)	ug/L	ND	2.0	2.6	ND	ND	2.0	2332578
Dissolved Iron (Fe)	ug/L	ND	100	ND	ND	ND	100	2332578
Dissolved Lead (Pb)	ug/L	ND	1.0	ND	ND	ND	1.0	2332578
Dissolved Lithium (Li)	ug/L	37	1.0	39	19	13	1.0	2332578
Dissolved Magnesium (Mg)	ug/L	7600	60	6800	1200	650	60	2332578
Dissolved Manganese (Mn)	ug/L	58	4.0	140	ND	ND	4.0	2332578
Dissolved Molybdenum (Mo)	ug/L	31	4.0	19	45	51	4.0	2332578
Dissolved Nickel (Ni)	ug/L	ND	3.0	ND	ND	ND	3.0	2332578
Dissolved Phosphorus (P)	ug/L	ND	100	ND	ND	ND	100	2332578
Dissolved Potassium (K)	ug/L	3200	600	15000	4800	19000	600	2332578
Dissolved Selenium (Se)	ug/L	4.5	1.0	4.4	5.6	7.2	1.0	2332578
Dissolved Silver (Ag)	ug/L	ND	0.10	ND	ND	ND	0.10	2332578
Dissolved Sodium (Na)	ug/L	300000	3000	41000	55000	17000	300	2332578
Dissolved Strontium (Sr)	ug/L	3200	2.0	990	830	400	2.0	2332578
Dissolved Thallium (Tl)	ug/L	ND	0.80	ND	ND	ND	0.80	2332578
Dissolved Tin (Sn)	ug/L	ND	20	ND	ND	ND	20	2332578
Dissolved Titanium (Ti)	ug/L	ND	3.0	ND	ND	ND	3.0	2332578
Dissolved Uranium (U)	ug/L	0.23	0.15	0.83	ND	ND	0.15	2332578
Dissolved Vanadium (V)	ug/L	ND	2.0	6.8	ND	50	2.0	2332578

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G2873
 Report Date: 2011/02/17

SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		HV5513		HV5519	HV5520	HV5521		
Sampling Date		2010/11/11		2010/11/11	2010/11/12	2010/11/12		
COC Number		B125823		B125823	B125823	B125823		
	Units	SCU15-002-MWB	RDL	SCU15-002-MWA	FD2	SCU16-011-MWA	RDL	QC Batch

Dissolved Zinc (Zn)	ug/L	6.3	5.0	8.6	ND	ND	5.0	2332578
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ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G2873
 Report Date: 2011/02/17

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		HV5522	HV5524		HV5525		HV5526		
Sampling Date		2010/11/12	2010/11/11		2010/11/11		2010/11/12		
COC Number		B125823	B125823		B125823		B125823		
	Units	SCU16-011-MWB	SCU15-013-MW	RDL	SCU16-006-MW	RDL	SCU18-001-MW	RDL	QC Batch

Metals									
Dissolved Aluminum (Al)	ug/L	120	13	5.0	5.1	5.0	9.2	5.0	2332583
Dissolved Antimony (Sb)	ug/L	ND	ND	0.40	ND	0.40	ND	0.40	2332583
Dissolved Arsenic (As)	ug/L	14	ND	0.60	8.5	0.60	4.3	0.60	2332583
Dissolved Barium (Ba)	ug/L	77	84	0.40	12	0.40	18	0.40	2332583
Dissolved Beryllium (Be)	ug/L	ND	ND	0.50	ND	0.50	ND	0.50	2332583
Dissolved Bismuth (Bi)	ug/L	ND	ND	2.0	ND	2.0	ND	2.0	2332583
Dissolved Boron (B)	ug/L	ND	260	100	ND	100	100	100	2332583
Dissolved Cadmium (Cd)	ug/L	ND	0.093	0.017	ND	0.017	0.031	0.017	2332583
Dissolved Calcium (Ca)	ug/L	80000	170000	100	230000	100	430000	100	2332583
Dissolved Chromium (Cr)	ug/L	ND	ND	1.0	ND	1.0	ND	1.0	2332583
Dissolved Cobalt (Co)	ug/L	ND	ND	1.0	ND	1.0	2.3	1.0	2332583
Dissolved Copper (Cu)	ug/L	ND	ND	2.0	ND	2.0	ND	2.0	2332583
Dissolved Iron (Fe)	ug/L	ND	ND	100	1300	100	1500	100	2332583
Dissolved Lead (Pb)	ug/L	ND	ND	1.0	ND	1.0	ND	1.0	2332583
Dissolved Lithium (Li)	ug/L	27	1.5	1.0	12	1.0	38	1.0	2332583
Dissolved Magnesium (Mg)	ug/L	ND	27000	60	27000	60	61000	60	2332583
Dissolved Manganese (Mn)	ug/L	ND	50	4.0	1400	4.0	11000	4.0	2332583
Dissolved Molybdenum (Mo)	ug/L	34	5.7	4.0	ND	4.0	ND	4.0	2332583
Dissolved Nickel (Ni)	ug/L	ND	ND	3.0	ND	3.0	ND	3.0	2332583
Dissolved Phosphorus (P)	ug/L	ND	ND	100	ND	100	ND	100	2332583
Dissolved Potassium (K)	ug/L	7900	10000	600	4300	600	6700	600	2332583
Dissolved Selenium (Se)	ug/L	9.4	2.7	1.0	ND	1.0	ND	1.0	2332583
Dissolved Silver (Ag)	ug/L	ND	ND	0.10	ND	0.10	ND	0.10	2332583
Dissolved Sodium (Na)	ug/L	56000	28000	300	190000	3000	56000	300	2332583
Dissolved Strontium (Sr)	ug/L	900	610	2.0	1900	2.0	11000	2.0	2332583
Dissolved Thallium (Tl)	ug/L	ND	ND	0.80	ND	0.80	ND	0.80	2332583
Dissolved Tin (Sn)	ug/L	ND	ND	20	ND	20	ND	20	2332583
Dissolved Titanium (Ti)	ug/L	ND	ND	3.0	ND	3.0	ND	3.0	2332583
Dissolved Uranium (U)	ug/L	ND	0.72	0.15	2.8	0.15	1.4	0.15	2332583
Dissolved Vanadium (V)	ug/L	ND	ND	2.0	ND	2.0	ND	2.0	2332583

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G2873
 Report Date: 2011/02/17

SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		HV5522	HV5524		HV5525		HV5526		
Sampling Date		2010/11/12	2010/11/11		2010/11/11		2010/11/12		
COC Number		B125823	B125823		B125823		B125823		
	Units	SCU16-011-MWB	SCU15-013-MW	RDL	SCU16-006-MW	RDL	SCU18-001-MW	RDL	QC Batch

Dissolved Zinc (Zn)	ug/L	ND	ND	5.0	ND	5.0	ND	5.0	2332583
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ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G2873
 Report Date: 2011/02/17

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		HV5527	HV5528	HV5529		
Sampling Date		2010/11/12	2010/11/12	2010/11/12		
COC Number		B125823	B125823	B125823		
	Units	SCU18-002-MW	SCU16-013-MW	SCU16-011-MWC	RDL	QC Batch

Metals						
Dissolved Aluminum (Al)	ug/L	6.8	62	24	5.0	2332583
Dissolved Antimony (Sb)	ug/L	ND	ND	ND	0.40	2332583
Dissolved Arsenic (As)	ug/L	0.87	2.1	14	0.60	2332583
Dissolved Barium (Ba)	ug/L	17	81	45	0.40	2332583
Dissolved Beryllium (Be)	ug/L	ND	ND	ND	0.50	2332583
Dissolved Bismuth (Bi)	ug/L	ND	ND	ND	2.0	2332583
Dissolved Boron (B)	ug/L	ND	ND	ND	100	2332583
Dissolved Cadmium (Cd)	ug/L	ND	ND	ND	0.017	2332583
Dissolved Calcium (Ca)	ug/L	200000	210000	60000	100	2332583
Dissolved Chromium (Cr)	ug/L	ND	34	ND	1.0	2332583
Dissolved Cobalt (Co)	ug/L	ND	ND	ND	1.0	2332583
Dissolved Copper (Cu)	ug/L	ND	3.3	ND	2.0	2332583
Dissolved Iron (Fe)	ug/L	ND	ND	ND	100	2332583
Dissolved Lead (Pb)	ug/L	ND	ND	ND	1.0	2332583
Dissolved Lithium (Li)	ug/L	13	42	19	1.0	2332583
Dissolved Magnesium (Mg)	ug/L	26000	ND	1200	60	2332583
Dissolved Manganese (Mn)	ug/L	1200	ND	ND	4.0	2332583
Dissolved Molybdenum (Mo)	ug/L	ND	11	44	4.0	2332583
Dissolved Nickel (Ni)	ug/L	ND	ND	ND	3.0	2332583
Dissolved Phosphorus (P)	ug/L	ND	ND	ND	100	2332583
Dissolved Potassium (K)	ug/L	2800	20000	4900	600	2332583
Dissolved Selenium (Se)	ug/L	ND	4.1	5.0	1.0	2332583
Dissolved Silver (Ag)	ug/L	ND	ND	ND	0.10	2332583
Dissolved Sodium (Na)	ug/L	42000	60000	56000	300	2332583
Dissolved Strontium (Sr)	ug/L	3800	1100	840	2.0	2332583
Dissolved Thallium (Tl)	ug/L	ND	ND	ND	0.80	2332583
Dissolved Tin (Sn)	ug/L	ND	ND	ND	20	2332583
Dissolved Titanium (Ti)	ug/L	ND	ND	ND	3.0	2332583
Dissolved Uranium (U)	ug/L	1.1	ND	ND	0.15	2332583
Dissolved Vanadium (V)	ug/L	ND	5.6	ND	2.0	2332583

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G2873
 Report Date: 2011/02/17

SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

ELEMENTS BY ICP/MS (WATER)

Maxxam ID		HV5527	HV5528	HV5529		
Sampling Date		2010/11/12	2010/11/12	2010/11/12		
COC Number		B125823	B125823	B125823		
	Units	SCU18-002-MW	SCU16-013-MW	SCU16-011-MWC	RDL	QC Batch

Dissolved Zinc (Zn)	ug/L	ND	ND	ND	5.0	2332583
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ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G2873
 Report Date: 2011/02/17

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Maxxam ID		HV5513	HV5519	HV5520	HV5521	HV5522		
Sampling Date		2010/11/11	2010/11/11	2010/11/12	2010/11/12	2010/11/12		
COC Number		B125823	B125823	B125823	B125823	B125823		
	Units	SCU15-002-MWB	SCU15-002-MWA	FD2	SCU16-011-MWA	SCU16-011-MWB	RDL	QC Batch

Polyaromatic Hydrocarbons								
1-Methylnaphthalene	ug/L	0.05	0.05	0.19	ND	0.52	0.05	2331222
2-Methylnaphthalene	ug/L	0.06	0.06	0.14	ND	0.47	0.05	2331222
Acenaphthene	ug/L	0.04	0.05	0.06	0.02	0.14	0.01	2331222
Acenaphthylene	ug/L	ND	ND	0.01	ND	0.04	0.01	2331222
Anthracene	ug/L	0.02	0.01	0.02	ND	0.06	0.01	2331222
Benzo(a)anthracene	ug/L	ND	ND	ND	ND	ND	0.01	2331222
Benzo(a)pyrene	ug/L	ND	ND	ND	ND	ND	0.01	2331222
Benzo(b)fluoranthene	ug/L	ND	ND	ND	ND	ND	0.01	2331222
Benzo(g,h,i)perylene	ug/L	ND	ND	ND	ND	ND	0.01	2331222
Benzo(k)fluoranthene	ug/L	ND	ND	ND	ND	ND	0.01	2331222
Chrysene	ug/L	ND	ND	ND	ND	ND	0.01	2331222
Dibenz(a,h)anthracene	ug/L	ND	ND	ND	ND	ND	0.01	2331222
Fluoranthene	ug/L	ND	0.01	0.09	0.02	0.23	0.01	2331222
Fluorene	ug/L	0.03	0.04	0.05	0.01	0.14	0.01	2331222
Indeno(1,2,3-cd)pyrene	ug/L	ND	ND	ND	ND	ND	0.01	2331222
Naphthalene	ug/L	0.3	0.3	ND	ND	0.6	0.2	2331222
Perylene	ug/L	ND	ND	ND	ND	ND	0.01	2331222
Phenanthrene	ug/L	0.05	0.04	0.14	0.02	0.30	0.01	2331222
Pyrene	ug/L	ND	ND	0.06	0.02	0.16	0.01	2331222
Surrogate Recovery (%)								
D10-Anthracene	%	123	91	111	101	88		2331222
D14-Terphenyl	%	102	100	99	100	107		2331222
D8-Acenaphthylene	%	107	102	97	102	104		2331222

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G2873
 Report Date: 2011/02/17

 SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Maxxam ID		HV5523	HV5524	HV5525	HV5526	HV5527		
Sampling Date		2010/11/11	2010/11/11	2010/11/11	2010/11/12	2010/11/12		
COC Number		B125823	B125823	B125823	B125823	B125823		
	Units	SCU16-004-MW	SCU15-013-MW	SCU16-006-MW	SCU18-001-MW	SCU18-002-MW	RDL	QC Batch

Polyaromatic Hydrocarbons								
1-Methylnaphthalene	ug/L	0.08	ND	ND	ND	ND	0.05	2331222
2-Methylnaphthalene	ug/L	0.10	ND	ND	ND	ND	0.05	2331222
Acenaphthene	ug/L	0.07	0.01	ND	ND	ND	0.01	2331222
Acenaphthylene	ug/L	ND	ND	ND	ND	ND	0.01	2331222
Anthracene	ug/L	0.03	0.03	ND	ND	ND	0.01	2331222
Benzo(a)anthracene	ug/L	ND	0.03	ND	ND	ND	0.01	2331222
Benzo(a)pyrene	ug/L	ND	0.05	ND	ND	ND	0.01	2331222
Benzo(b)fluoranthene	ug/L	ND	0.02	ND	ND	ND	0.01	2331222
Benzo(g,h,i)perylene	ug/L	ND	0.03	ND	ND	ND	0.01	2331222
Benzo(k)fluoranthene	ug/L	ND	0.02	ND	ND	ND	0.01	2331222
Chrysene	ug/L	ND	0.03	ND	ND	ND	0.01	2331222
Dibenz(a,h)anthracene	ug/L	ND	ND	ND	ND	ND	0.01	2331222
Fluoranthene	ug/L	0.02	0.09	ND	ND	ND	0.01	2331222
Fluorene	ug/L	0.05	0.01	ND	ND	ND	0.01	2331222
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.02	ND	ND	ND	0.01	2331222
Naphthalene	ug/L	0.5	ND	ND	ND	ND	0.2	2331222
Perylene	ug/L	ND	0.01	ND	ND	ND	0.01	2331222
Phenanthrene	ug/L	0.08	0.07	ND	0.01	ND	0.01	2331222
Pyrene	ug/L	0.02	0.07	ND	ND	ND	0.01	2331222
Surrogate Recovery (%)								
D10-Anthracene	%	120	104	126	116	121		2331222
D14-Terphenyl	%	107	96	106	103	103		2331222
D8-Acenaphthylene	%	109	101	107	108	105		2331222

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G2873
 Report Date: 2011/02/17

SLR Consulting (Canada) Ltd
 Client Project #: 210.05780.00000
 Project name: 2010 GWMP/HCP
 Your P.O. #: SYD147

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Maxxam ID		HV5528	HV5529		
Sampling Date		2010/11/12	2010/11/12		
COC Number		B125823	B125823		
	Units	SCU16-013-MW	SCU16-011-MWC	RDL	QC Batch

Polyaromatic Hydrocarbons					
1-Methylnaphthalene	ug/L	ND	0.19	0.05	2331222
2-Methylnaphthalene	ug/L	ND	0.15	0.05	2331222
Acenaphthene	ug/L	0.03	0.06	0.01	2331222
Acenaphthylene	ug/L	ND	0.02	0.01	2331222
Anthracene	ug/L	ND	0.03	0.01	2331222
Benzo(a)anthracene	ug/L	ND	ND	0.01	2331222
Benzo(a)pyrene	ug/L	ND	ND	0.01	2331222
Benzo(b)fluoranthene	ug/L	ND	ND	0.01	2331222
Benzo(g,h,i)perylene	ug/L	ND	ND	0.01	2331222
Benzo(k)fluoranthene	ug/L	ND	ND	0.01	2331222
Chrysene	ug/L	ND	ND	0.01	2331222
Dibenz(a,h)anthracene	ug/L	ND	ND	0.01	2331222
Fluoranthene	ug/L	0.04	0.09	0.01	2331222
Fluorene	ug/L	0.02	0.05	0.01	2331222
Indeno(1,2,3-cd)pyrene	ug/L	ND	ND	0.01	2331222
Naphthalene	ug/L	ND	ND	0.2	2331222
Perylene	ug/L	ND	ND	0.01	2331222
Phenanthrene	ug/L	0.05	0.12	0.01	2331222
Pyrene	ug/L	0.03	0.06	0.01	2331222
Surrogate Recovery (%)					
D10-Anthracene	%	110	98		2331222
D14-Terphenyl	%	105	104		2331222
D8-Acenaphthylene	%	103	93		2331222

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0G2873
Report Date: 2011/02/17

SLR Consulting (Canada) Ltd
Client Project #: 210.05780.00000
Project name: 2010 GWMP/HCP
Your P.O. #: SYD147

GENERAL COMMENTS

Sample HV5523-01: REISSUED report for this sample. Original report was issued without a full metal scan as requested by the client.

Results relate only to the items tested.

SLR Consulting (Canada) Ltd
 Attention: Kelly Henderson
 Client Project #: 210.05780.00000
 P.O. #: SYD147
 Project name: 2010 GWMP/HCP

Quality Assurance Report
 Maxxam Job Number: KB0G2873

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2329498	SMK	QC Standard	pH	2010/11/15		100	%	80 - 120
		Method Blank	pH	2010/11/15	6.10		pH	
		RPD	pH	2010/11/15	1.8		%	25
2329504	SMK	QC Standard	Conductivity	2010/11/15		104	%	80 - 120
		Method Blank	Conductivity	2010/11/15	ND, RDL=1		uS/cm	
		RPD	Conductivity	2010/11/15	0.4		%	25
2329505	SMK	Matrix Spike	Alkalinity (Total as CaCO3)	2010/11/15		96	%	80 - 120
		QC Standard	Alkalinity (Total as CaCO3)	2010/11/15		94	%	80 - 120
		Spiked Blank	Alkalinity (Total as CaCO3)	2010/11/15		95	%	80 - 120
		Method Blank	Alkalinity (Total as CaCO3)	2010/11/15	ND, RDL=5		mg/L	
		RPD	Alkalinity (Total as CaCO3)	2010/11/15	NC		%	25
2331222	TML	Matrix Spike	D10-Anthracene	2010/11/17		84	%	30 - 130
			D14-Terphenyl	2010/11/17		104	%	30 - 130
			D8-Acenaphthylene	2010/11/17		104	%	30 - 130
			1-Methylnaphthalene	2010/11/17		96	%	50 - 130
			2-Methylnaphthalene	2010/11/17		88	%	50 - 130
			Acenaphthene	2010/11/17		108	%	50 - 130
			Acenaphthylene	2010/11/17		100	%	50 - 130
			Anthracene	2010/11/17		96	%	50 - 130
			Benzo(a)anthracene	2010/11/17		109	%	50 - 130
			Benzo(a)pyrene	2010/11/17		125	%	50 - 130
			Benzo(b)fluoranthene	2010/11/17		100	%	50 - 130
			Benzo(g,h,i)perylene	2010/11/17		122	%	50 - 130
			Benzo(k)fluoranthene	2010/11/17		125	%	50 - 130
			Chrysene	2010/11/17		106	%	50 - 130
			Dibenz(a,h)anthracene	2010/11/17		111	%	50 - 130
			Fluoranthene	2010/11/17		104	%	50 - 130
			Fluorene	2010/11/17		107	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2010/11/17		117	%	50 - 130
			Naphthalene	2010/11/17		96	%	50 - 130
			Perylene	2010/11/17		107	%	50 - 130
			Phenanthrene	2010/11/17		94	%	50 - 130
			Pyrene	2010/11/17		101	%	50 - 130
		Spiked Blank	D10-Anthracene	2010/11/17		102	%	30 - 130
			D14-Terphenyl	2010/11/17		111	%	30 - 130
			D8-Acenaphthylene	2010/11/17		109	%	30 - 130
			1-Methylnaphthalene	2010/11/17		95	%	50 - 130
			2-Methylnaphthalene	2010/11/17		88	%	50 - 130
			Acenaphthene	2010/11/17		108	%	50 - 130
			Acenaphthylene	2010/11/17		100	%	50 - 130
			Anthracene	2010/11/17		112	%	50 - 130
			Benzo(a)anthracene	2010/11/17		104	%	50 - 130
			Benzo(a)pyrene	2010/11/17		98	%	50 - 130
			Benzo(b)fluoranthene	2010/11/17		108	%	50 - 130
			Benzo(g,h,i)perylene	2010/11/17		97	%	50 - 130
			Benzo(k)fluoranthene	2010/11/17		98	%	50 - 130
			Chrysene	2010/11/17		108	%	50 - 130
			Dibenz(a,h)anthracene	2010/11/17		100	%	50 - 130
			Fluoranthene	2010/11/17		109	%	50 - 130
			Fluorene	2010/11/17		107	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2010/11/17		116	%	50 - 130
			Naphthalene	2010/11/17		98	%	50 - 130
			Perylene	2010/11/17		93	%	50 - 130
			Phenanthrene	2010/11/17		104	%	50 - 130
			Pyrene	2010/11/17		107	%	50 - 130

SLR Consulting (Canada) Ltd
 Attention: Kelly Henderson
 Client Project #: 210.05780.00000
 P.O. #: SYD147
 Project name: 2010 GWMP/HCP

Quality Assurance Report (Continued)

Maxxam Job Number: KB0G2873

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2331222	TML	Method Blank						
		D10-Anthracene	2010/11/17		102	%	30 - 130	
		D14-Terphenyl	2010/11/17		100	%	30 - 130	
		D8-Acenaphthylene	2010/11/17		98	%	30 - 130	
		1-Methylnaphthalene	2010/11/17	ND, RDL=0.05		ug/L		
		2-Methylnaphthalene	2010/11/17	ND, RDL=0.05		ug/L		
		Acenaphthene	2010/11/17	ND, RDL=0.01		ug/L		
		Acenaphthylene	2010/11/17	ND, RDL=0.01		ug/L		
		Anthracene	2010/11/17	ND, RDL=0.01		ug/L		
		Benzo(a)anthracene	2010/11/17	ND, RDL=0.01		ug/L		
		Benzo(a)pyrene	2010/11/17	ND, RDL=0.01		ug/L		
		Benzo(b)fluoranthene	2010/11/17	ND, RDL=0.01		ug/L		
		Benzo(g,h,i)perylene	2010/11/17	ND, RDL=0.01		ug/L		
		Benzo(k)fluoranthene	2010/11/17	ND, RDL=0.01		ug/L		
		Chrysene	2010/11/17	ND, RDL=0.01		ug/L		
		Dibenz(a,h)anthracene	2010/11/17	ND, RDL=0.01		ug/L		
		Fluoranthene	2010/11/17	ND, RDL=0.01		ug/L		
		Fluorene	2010/11/17	ND, RDL=0.01		ug/L		
		Indeno(1,2,3-cd)pyrene	2010/11/17	ND, RDL=0.01		ug/L		
		Naphthalene	2010/11/17	ND, RDL=0.2		ug/L		
		Perylene	2010/11/17	ND, RDL=0.01		ug/L		
		Phenanthrene	2010/11/17	ND, RDL=0.01		ug/L		
		Pyrene	2010/11/17	ND, RDL=0.01		ug/L		
	RPD	1-Methylnaphthalene	2010/11/17	NC		%	40	
		2-Methylnaphthalene	2010/11/17	NC		%	40	
		Acenaphthene	2010/11/17	NC		%	40	
		Acenaphthylene	2010/11/17	NC		%	40	
		Anthracene	2010/11/17	NC		%	40	
		Benzo(a)anthracene	2010/11/17	NC		%	40	
		Benzo(a)pyrene	2010/11/17	NC		%	40	
		Benzo(b)fluoranthene	2010/11/17	NC		%	40	
		Benzo(g,h,i)perylene	2010/11/17	NC		%	40	
		Benzo(k)fluoranthene	2010/11/17	NC		%	40	
		Chrysene	2010/11/17	NC		%	40	
		Dibenz(a,h)anthracene	2010/11/17	NC		%	40	
		Fluoranthene	2010/11/17	NC		%	40	
		Fluorene	2010/11/17	NC		%	40	
		Indeno(1,2,3-cd)pyrene	2010/11/17	NC		%	40	
		Naphthalene	2010/11/17	NC		%	40	
		Perylene	2010/11/17	NC		%	40	
		Phenanthrene	2010/11/17	NC		%	40	
		Pyrene	2010/11/17	NC		%	40	
2331989	BMI	Matrix Spike						
		QC Standard	Total Mercury (Hg)	2010/11/16		104	%	80 - 120
		Spiked Blank	Total Mercury (Hg)	2010/11/16		102	%	80 - 120
		Method Blank	Total Mercury (Hg)	2010/11/16		99	%	80 - 120
		RPD	Total Mercury (Hg)	2010/11/16	ND, RDL=0.013		ug/L	
			Total Mercury (Hg)	2010/11/16	NC		%	25
2332271	JHO	Matrix Spike						
		Isobutylbenzene - Extractable		2010/11/18		94	%	30 - 130
		n-Dotriacontane - Extractable		2010/11/18		95	%	30 - 130
		>C10-C16 Hydrocarbons		2010/11/18		88	%	70 - 130
		>C16-C21 Hydrocarbons		2010/11/18		85	%	70 - 130
		>C21-<C32 Hydrocarbons		2010/11/18		61	%	50 - 120
		Spiked Blank	Isobutylbenzene - Extractable	2010/11/18		88	%	30 - 130
			n-Dotriacontane - Extractable	2010/11/18		89	%	30 - 130
			>C10-C16 Hydrocarbons	2010/11/18		85	%	70 - 130
			>C16-C21 Hydrocarbons	2010/11/18		80	%	70 - 130

SLR Consulting (Canada) Ltd
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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2332271 JHO	Spiked Blank	>C21-<C32 Hydrocarbons	2010/11/18		56	%	50 - 120	
	Method Blank	Isobutylbenzene - Extractable	2010/11/18		104	%	30 - 130	
		n-Dotriacontane - Extractable	2010/11/18		105	%	30 - 130	
	RPD	>C10-C16 Hydrocarbons	2010/11/18		ND, RDL=0.2		mg/L	
		>C16-C21 Hydrocarbons	2010/11/18		ND, RDL=0.2		mg/L	
		>C21-<C32 Hydrocarbons	2010/11/18		ND, RDL=0.5		mg/L	
		>C10-C16 Hydrocarbons	2010/11/18		NC		%	40
		>C16-C21 Hydrocarbons	2010/11/18		NC		%	40
		>C21-<C32 Hydrocarbons	2010/11/18		NC		%	40
2332480 DLB	Matrix Spike	Nitrogen (Ammonia Nitrogen)	2010/11/18		95	%	80 - 120	
	QC Standard	Nitrogen (Ammonia Nitrogen)	2010/11/17		95	%	80 - 120	
	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2010/11/17		103	%	80 - 120	
	Method Blank	Nitrogen (Ammonia Nitrogen)	2010/11/17		ND, RDL=0.05		mg/L	
	RPD	Nitrogen (Ammonia Nitrogen)	2010/11/18		NC		%	25
2332578 MBU	Matrix Spike	Dissolved Aluminum (Al)	2010/11/17		103	%	75 - 125	
		Dissolved Antimony (Sb)	2010/11/17		113	%	75 - 125	
		Dissolved Arsenic (As)	2010/11/17		95	%	75 - 125	
		Dissolved Barium (Ba)	2010/11/17		100	%	75 - 125	
		Dissolved Beryllium (Be)	2010/11/17		91	%	75 - 125	
		Dissolved Bismuth (Bi)	2010/11/17		75	%	75 - 125	
		Dissolved Boron (B)	2010/11/17		102	%	75 - 125	
		Dissolved Cadmium (Cd)	2010/11/17		110	%	75 - 125	
		Dissolved Calcium (Ca)	2010/11/17		NC		%	75 - 125
		Dissolved Chromium (Cr)	2010/11/17		106	%	75 - 125	
		Dissolved Cobalt (Co)	2010/11/17		108	%	75 - 125	
		Dissolved Copper (Cu)	2010/11/17		100	%	75 - 125	
		Dissolved Iron (Fe)	2010/11/17		95	%	75 - 125	
		Dissolved Lead (Pb)	2010/11/17		104	%	75 - 125	
		Dissolved Lithium (Li)	2010/11/17		99	%	75 - 125	
		Dissolved Magnesium (Mg)	2010/11/17		101	%	75 - 125	
		Dissolved Manganese (Mn)	2010/11/17		108	%	75 - 125	
		Dissolved Molybdenum (Mo)	2010/11/17		116	%	75 - 125	
		Dissolved Nickel (Ni)	2010/11/17		99	%	75 - 125	
		Dissolved Phosphorus (P)	2010/11/17		113	%	75 - 125	
		Dissolved Potassium (K)	2010/11/17		99	%	75 - 125	
		Dissolved Selenium (Se)	2010/11/17		86	%	75 - 125	
		Dissolved Silver (Ag)	2010/11/17		38 (1)	%	75 - 125	
		Dissolved Sodium (Na)	2010/11/17		102	%	75 - 125	
		Dissolved Strontium (Sr)	2010/11/17		NC		%	75 - 125
		Dissolved Thallium (Tl)	2010/11/17		104	%	75 - 125	
		Dissolved Tin (Sn)	2010/11/17		111	%	75 - 125	
		Dissolved Titanium (Ti)	2010/11/17		94	%	75 - 125	
		Dissolved Uranium (U)	2010/11/17		106	%	75 - 125	
		Dissolved Vanadium (V)	2010/11/17		110	%	75 - 125	
		Dissolved Zinc (Zn)	2010/11/17		99	%	75 - 125	
		QC Standard	Dissolved Aluminum (Al)	2010/11/17		105	%	75 - 125
			Dissolved Antimony (Sb)	2010/11/17		114	%	75 - 125
			Dissolved Arsenic (As)	2010/11/17		85	%	75 - 125
			Dissolved Barium (Ba)	2010/11/17		92	%	75 - 125
Dissolved Beryllium (Be)	2010/11/17			95	%	75 - 125		
Dissolved Bismuth (Bi)	2010/11/17			115	%	75 - 125		
Dissolved Boron (B)	2010/11/17			103	%	75 - 125		
Dissolved Cadmium (Cd)	2010/11/17			96	%	75 - 125		
Dissolved Calcium (Ca)	2010/11/17			86	%	75 - 125		
Dissolved Chromium (Cr)	2010/11/17			101	%	75 - 125		

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits		
2332578 MBU	QC Standard	Dissolved Cobalt (Co)	2010/11/17		100	%	75 - 125		
		Dissolved Copper (Cu)	2010/11/17		96	%	75 - 125		
		Dissolved Iron (Fe)	2010/11/17		91	%	75 - 125		
		Dissolved Lead (Pb)	2010/11/17		100	%	75 - 125		
		Dissolved Lithium (Li)	2010/11/17		89	%	75 - 125		
		Dissolved Magnesium (Mg)	2010/11/17		92	%	75 - 125		
		Dissolved Manganese (Mn)	2010/11/17		100	%	75 - 125		
		Dissolved Molybdenum (Mo)	2010/11/17		103	%	75 - 125		
		Dissolved Nickel (Ni)	2010/11/17		94	%	75 - 125		
		Dissolved Potassium (K)	2010/11/17		89	%	75 - 125		
		Dissolved Selenium (Se)	2010/11/17		87	%	75 - 125		
		Dissolved Silver (Ag)	2010/11/17		98	%	75 - 125		
		Dissolved Sodium (Na)	2010/11/17		91	%	75 - 125		
		Dissolved Strontium (Sr)	2010/11/17		91	%	75 - 125		
		Dissolved Thallium (Tl)	2010/11/17		101	%	75 - 125		
		Dissolved Vanadium (V)	2010/11/17		99	%	75 - 125		
		Dissolved Zinc (Zn)	2010/11/17		91	%	75 - 125		
		Spiked Blank		Dissolved Aluminum (Al)	2010/11/17		95	%	75 - 125
				Dissolved Antimony (Sb)	2010/11/17		97	%	75 - 125
				Dissolved Arsenic (As)	2010/11/17		87	%	75 - 125
Dissolved Barium (Ba)	2010/11/17				98	%	75 - 125		
Dissolved Beryllium (Be)	2010/11/17				101	%	75 - 125		
Dissolved Bismuth (Bi)	2010/11/17				95	%	75 - 125		
Dissolved Boron (B)	2010/11/17				109	%	75 - 125		
Dissolved Cadmium (Cd)	2010/11/17				102	%	75 - 125		
Dissolved Calcium (Ca)	2010/11/17				88	%	75 - 125		
Dissolved Chromium (Cr)	2010/11/17				101	%	75 - 125		
Dissolved Cobalt (Co)	2010/11/17				102	%	75 - 125		
Dissolved Copper (Cu)	2010/11/17				99	%	75 - 125		
Dissolved Iron (Fe)	2010/11/17				90	%	75 - 125		
Dissolved Lead (Pb)	2010/11/17				100	%	75 - 125		
Dissolved Lithium (Li)	2010/11/17				95	%	75 - 125		
Dissolved Magnesium (Mg)	2010/11/17				90	%	75 - 125		
Dissolved Manganese (Mn)	2010/11/17				96	%	75 - 125		
Dissolved Molybdenum (Mo)	2010/11/17				103	%	75 - 125		
Dissolved Nickel (Ni)	2010/11/17				97	%	75 - 125		
Dissolved Phosphorus (P)	2010/11/17				104	%	75 - 125		
Dissolved Potassium (K)	2010/11/17		91	%	75 - 125				
Dissolved Selenium (Se)	2010/11/17		102	%	75 - 125				
Dissolved Silver (Ag)	2010/11/17		83	%	75 - 125				
Dissolved Sodium (Na)	2010/11/17		88	%	75 - 125				
Dissolved Strontium (Sr)	2010/11/17		101	%	75 - 125				
Dissolved Thallium (Tl)	2010/11/17		102	%	75 - 125				
Dissolved Tin (Sn)	2010/11/17		98	%	75 - 125				
Dissolved Titanium (Ti)	2010/11/17		88	%	75 - 125				
Dissolved Uranium (U)	2010/11/17		100	%	75 - 125				
Dissolved Vanadium (V)	2010/11/17		101	%	75 - 125				
Dissolved Zinc (Zn)	2010/11/17		97	%	75 - 125				
Method Blank		Dissolved Aluminum (Al)	2010/11/17	ND, RDL=5.0		ug/L			
		Dissolved Antimony (Sb)	2010/11/17	ND, RDL=0.40		ug/L			
		Dissolved Arsenic (As)	2010/11/17	ND, RDL=0.60		ug/L			
		Dissolved Barium (Ba)	2010/11/17	ND, RDL=0.40		ug/L			
		Dissolved Beryllium (Be)	2010/11/17	ND, RDL=0.50		ug/L			
		Dissolved Bismuth (Bi)	2010/11/17	ND, RDL=2.0		ug/L			
		Dissolved Boron (B)	2010/11/17	ND, RDL=100		ug/L			

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2332578	MBU	Method Blank					
		Dissolved Cadmium (Cd)	2010/11/17	ND, RDL=0.017		ug/L	
		Dissolved Calcium (Ca)	2010/11/17	ND, RDL=100		ug/L	
		Dissolved Chromium (Cr)	2010/11/17	ND, RDL=1.0		ug/L	
		Dissolved Cobalt (Co)	2010/11/17	ND, RDL=1.0		ug/L	
		Dissolved Copper (Cu)	2010/11/17	ND, RDL=2.0		ug/L	
		Dissolved Iron (Fe)	2010/11/17	ND, RDL=100		ug/L	
		Dissolved Lead (Pb)	2010/11/17	ND, RDL=1.0		ug/L	
		Dissolved Lithium (Li)	2010/11/17	ND, RDL=1.0		ug/L	
		Dissolved Magnesium (Mg)	2010/11/17	ND, RDL=60		ug/L	
		Dissolved Manganese (Mn)	2010/11/17	ND, RDL=4.0		ug/L	
		Dissolved Molybdenum (Mo)	2010/11/17	ND, RDL=4.0		ug/L	
		Dissolved Nickel (Ni)	2010/11/17	ND, RDL=3.0		ug/L	
		Dissolved Phosphorus (P)	2010/11/17	ND, RDL=100		ug/L	
		Dissolved Potassium (K)	2010/11/17	ND, RDL=600		ug/L	
		Dissolved Selenium (Se)	2010/11/17	ND, RDL=1.0		ug/L	
		Dissolved Silver (Ag)	2010/11/17	ND, RDL=0.10		ug/L	
		Dissolved Sodium (Na)	2010/11/17	ND, RDL=300		ug/L	
		Dissolved Strontium (Sr)	2010/11/17	ND, RDL=2.0		ug/L	
		Dissolved Thallium (Tl)	2010/11/17	ND, RDL=0.80		ug/L	
		Dissolved Tin (Sn)	2010/11/17	ND, RDL=20		ug/L	
		Dissolved Titanium (Ti)	2010/11/17	ND, RDL=3.0		ug/L	
		Dissolved Uranium (U)	2010/11/17	ND, RDL=0.15		ug/L	
		Dissolved Vanadium (V)	2010/11/17	ND, RDL=2.0		ug/L	
		Dissolved Zinc (Zn)	2010/11/17	ND, RDL=5.0		ug/L	
	RPD	Dissolved Aluminum (Al)	2010/11/17	4.1		%	25
		Dissolved Antimony (Sb)	2010/11/17	NC		%	25
		Dissolved Arsenic (As)	2010/11/17	NC		%	25
		Dissolved Barium (Ba)	2010/11/17	1.7		%	25
		Dissolved Beryllium (Be)	2010/11/17	NC		%	25
		Dissolved Bismuth (Bi)	2010/11/17	NC		%	25
		Dissolved Boron (B)	2010/11/17	NC		%	25
		Dissolved Cadmium (Cd)	2010/11/17	NC		%	25
		Dissolved Calcium (Ca)	2010/11/17	0.9		%	25
		Dissolved Chromium (Cr)	2010/11/17	NC		%	25
		Dissolved Cobalt (Co)	2010/11/17	NC		%	25
		Dissolved Copper (Cu)	2010/11/17	NC		%	25
		Dissolved Iron (Fe)	2010/11/17	NC		%	25
		Dissolved Lead (Pb)	2010/11/17	NC		%	25
		Dissolved Lithium (Li)	2010/11/17	9.1		%	25
		Dissolved Magnesium (Mg)	2010/11/17	0.8		%	25
		Dissolved Manganese (Mn)	2010/11/17	3.6		%	25
		Dissolved Molybdenum (Mo)	2010/11/17	NC		%	25
		Dissolved Nickel (Ni)	2010/11/17	NC		%	25
		Dissolved Phosphorus (P)	2010/11/17	NC		%	25
		Dissolved Potassium (K)	2010/11/17	1.6		%	25
		Dissolved Selenium (Se)	2010/11/17	NC		%	25
		Dissolved Silver (Ag)	2010/11/17	NC		%	25
		Dissolved Sodium (Na)	2010/11/17	0.5		%	25
		Dissolved Strontium (Sr)	2010/11/17	3.7		%	25
		Dissolved Thallium (Tl)	2010/11/17	NC		%	25
		Dissolved Tin (Sn)	2010/11/17	NC		%	25
		Dissolved Titanium (Ti)	2010/11/17	NC		%	25
		Dissolved Uranium (U)	2010/11/17	NC		%	25
		Dissolved Vanadium (V)	2010/11/17	NC		%	25
		Dissolved Zinc (Zn)	2010/11/17	NC		%	25

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2332583 MBU	Matrix Spike	Dissolved Aluminum (Al)	2010/11/17		111	%	75 - 125
		Dissolved Antimony (Sb)	2010/11/17		107	%	75 - 125
		Dissolved Arsenic (As)	2010/11/17		98	%	75 - 125
		Dissolved Barium (Ba)	2010/11/17		103	%	75 - 125
		Dissolved Beryllium (Be)	2010/11/17		97	%	75 - 125
		Dissolved Bismuth (Bi)	2010/11/17		106	%	75 - 125
		Dissolved Boron (B)	2010/11/17		112	%	75 - 125
		Dissolved Cadmium (Cd)	2010/11/17		109	%	75 - 125
		Dissolved Calcium (Ca)	2010/11/17		86	%	75 - 125
		Dissolved Chromium (Cr)	2010/11/17		111	%	75 - 125
		Dissolved Cobalt (Co)	2010/11/17		113	%	75 - 125
		Dissolved Copper (Cu)	2010/11/17		106	%	75 - 125
		Dissolved Iron (Fe)	2010/11/17		95	%	75 - 125
		Dissolved Lead (Pb)	2010/11/17		108	%	75 - 125
		Dissolved Lithium (Li)	2010/11/17		93	%	75 - 125
		Dissolved Magnesium (Mg)	2010/11/17		105	%	75 - 125
		Dissolved Manganese (Mn)	2010/11/17		107	%	75 - 125
		Dissolved Molybdenum (Mo)	2010/11/17		113	%	75 - 125
		Dissolved Nickel (Ni)	2010/11/17		107	%	75 - 125
		Dissolved Phosphorus (P)	2010/11/17		123	%	75 - 125
		Dissolved Potassium (K)	2010/11/17		107	%	75 - 125
		Dissolved Selenium (Se)	2010/11/17		115	%	75 - 125
		Dissolved Silver (Ag)	2010/11/17		93	%	75 - 125
		Dissolved Sodium (Na)	2010/11/17		108	%	75 - 125
		Dissolved Strontium (Sr)	2010/11/17		104	%	75 - 125
		Dissolved Thallium (Tl)	2010/11/17		111	%	75 - 125
		Dissolved Tin (Sn)	2010/11/17		110	%	75 - 125
		Dissolved Titanium (Ti)	2010/11/17		99	%	75 - 125
		Dissolved Uranium (U)	2010/11/17		109	%	75 - 125
		Dissolved Vanadium (V)	2010/11/17		113	%	75 - 125
Dissolved Zinc (Zn)	2010/11/17		105	%	75 - 125		
QC Standard		Dissolved Aluminum (Al)	2010/11/17		114	%	75 - 125
		Dissolved Antimony (Sb)	2010/11/17		119	%	75 - 125
		Dissolved Arsenic (As)	2010/11/17		91	%	75 - 125
		Dissolved Barium (Ba)	2010/11/17		96	%	75 - 125
		Dissolved Beryllium (Be)	2010/11/17		89	%	75 - 125
		Dissolved Bismuth (Bi)	2010/11/17		118	%	75 - 125
		Dissolved Boron (B)	2010/11/17		103	%	75 - 125
		Dissolved Cadmium (Cd)	2010/11/17		102	%	75 - 125
		Dissolved Calcium (Ca)	2010/11/17		98	%	75 - 125
		Dissolved Chromium (Cr)	2010/11/17		109	%	75 - 125
		Dissolved Cobalt (Co)	2010/11/17		109	%	75 - 125
		Dissolved Copper (Cu)	2010/11/17		103	%	75 - 125
		Dissolved Iron (Fe)	2010/11/17		101	%	75 - 125
		Dissolved Lead (Pb)	2010/11/17		106	%	75 - 125
		Dissolved Lithium (Li)	2010/11/17		95	%	75 - 125
		Dissolved Magnesium (Mg)	2010/11/17		101	%	75 - 125
		Dissolved Manganese (Mn)	2010/11/17		107	%	75 - 125
		Dissolved Molybdenum (Mo)	2010/11/17		110	%	75 - 125
		Dissolved Nickel (Ni)	2010/11/17		102	%	75 - 125
		Dissolved Potassium (K)	2010/11/17		106	%	75 - 125
Dissolved Selenium (Se)	2010/11/17		97	%	75 - 125		
Dissolved Silver (Ag)	2010/11/17		104	%	75 - 125		
Dissolved Sodium (Na)	2010/11/17		103	%	75 - 125		
Dissolved Strontium (Sr)	2010/11/17		99	%	75 - 125		

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits		
2332583 MBU	QC Standard	Dissolved Thallium (Tl)	2010/11/17		108	%	75 - 125		
		Dissolved Vanadium (V)	2010/11/17		107	%	75 - 125		
		Dissolved Zinc (Zn)	2010/11/17		97	%	75 - 125		
	Spiked Blank		Dissolved Aluminum (Al)	2010/11/17		106	%	75 - 125	
			Dissolved Antimony (Sb)	2010/11/17		105	%	75 - 125	
			Dissolved Arsenic (As)	2010/11/17		94	%	75 - 125	
			Dissolved Barium (Ba)	2010/11/17		103	%	75 - 125	
			Dissolved Beryllium (Be)	2010/11/17		99	%	75 - 125	
			Dissolved Bismuth (Bi)	2010/11/17		105	%	75 - 125	
			Dissolved Boron (B)	2010/11/17		109	%	75 - 125	
			Dissolved Cadmium (Cd)	2010/11/17		110	%	75 - 125	
			Dissolved Calcium (Ca)	2010/11/17		102	%	75 - 125	
			Dissolved Chromium (Cr)	2010/11/17		108	%	75 - 125	
			Dissolved Cobalt (Co)	2010/11/17		109	%	75 - 125	
			Dissolved Copper (Cu)	2010/11/17		107	%	75 - 125	
			Dissolved Iron (Fe)	2010/11/17		100	%	75 - 125	
			Dissolved Lead (Pb)	2010/11/17		110	%	75 - 125	
			Dissolved Lithium (Li)	2010/11/17		95	%	75 - 125	
			Dissolved Magnesium (Mg)	2010/11/17		104	%	75 - 125	
			Dissolved Manganese (Mn)	2010/11/17		105	%	75 - 125	
			Dissolved Molybdenum (Mo)	2010/11/17		109	%	75 - 125	
			Dissolved Nickel (Ni)	2010/11/17		104	%	75 - 125	
			Dissolved Phosphorus (P)	2010/11/17		113	%	75 - 125	
			Dissolved Potassium (K)	2010/11/17		110	%	75 - 125	
			Dissolved Selenium (Se)	2010/11/17		112	%	75 - 125	
			Dissolved Silver (Ag)	2010/11/17		87	%	75 - 125	
			Dissolved Sodium (Na)	2010/11/17		108	%	75 - 125	
			Dissolved Strontium (Sr)	2010/11/17		110	%	75 - 125	
			Dissolved Thallium (Tl)	2010/11/17		111	%	75 - 125	
			Dissolved Tin (Sn)	2010/11/17		107	%	75 - 125	
			Dissolved Titanium (Ti)	2010/11/17		97	%	75 - 125	
			Dissolved Uranium (U)	2010/11/17		108	%	75 - 125	
			Dissolved Vanadium (V)	2010/11/17		111	%	75 - 125	
Dissolved Zinc (Zn)			2010/11/17		106	%	75 - 125		
Method Blank				Dissolved Aluminum (Al)	2010/11/17	ND, RDL=5.0		ug/L	
				Dissolved Antimony (Sb)	2010/11/17	ND, RDL=0.40		ug/L	
	Dissolved Arsenic (As)	2010/11/17		ND, RDL=0.60		ug/L			
	Dissolved Barium (Ba)	2010/11/17		ND, RDL=0.40		ug/L			
	Dissolved Beryllium (Be)	2010/11/17		ND, RDL=0.50		ug/L			
	Dissolved Bismuth (Bi)	2010/11/17		ND, RDL=2.0		ug/L			
	Dissolved Boron (B)	2010/11/17		ND, RDL=100		ug/L			
	Dissolved Cadmium (Cd)	2010/11/17		ND, RDL=0.017		ug/L			
	Dissolved Calcium (Ca)	2010/11/17		ND, RDL=100		ug/L			
	Dissolved Chromium (Cr)	2010/11/17		ND, RDL=1.0		ug/L			
	Dissolved Cobalt (Co)	2010/11/17		ND, RDL=1.0		ug/L			
	Dissolved Copper (Cu)	2010/11/17		ND, RDL=2.0		ug/L			
	Dissolved Iron (Fe)	2010/11/17		ND, RDL=100		ug/L			
	Dissolved Lead (Pb)	2010/11/17		ND, RDL=1.0		ug/L			
	Dissolved Lithium (Li)	2010/11/17		ND, RDL=1.0		ug/L			
	Dissolved Magnesium (Mg)	2010/11/17		ND, RDL=60		ug/L			
	Dissolved Manganese (Mn)	2010/11/17		ND, RDL=4.0		ug/L			
	Dissolved Molybdenum (Mo)	2010/11/17		ND, RDL=4.0		ug/L			
	Dissolved Nickel (Ni)	2010/11/17		ND, RDL=3.0		ug/L			
	Dissolved Phosphorus (P)	2010/11/17		ND, RDL=100		ug/L			
	Dissolved Potassium (K)	2010/11/17		ND, RDL=600		ug/L			

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2332583 MBU	Method Blank	Dissolved Selenium (Se)	2010/11/17	ND, RDL=1.0		ug/L	
		Dissolved Silver (Ag)	2010/11/17	ND, RDL=0.10		ug/L	
		Dissolved Sodium (Na)	2010/11/17	ND, RDL=300		ug/L	
		Dissolved Strontium (Sr)	2010/11/17	ND, RDL=2.0		ug/L	
		Dissolved Thallium (Tl)	2010/11/17	ND, RDL=0.80		ug/L	
		Dissolved Tin (Sn)	2010/11/17	ND, RDL=20		ug/L	
		Dissolved Titanium (Ti)	2010/11/17	ND, RDL=3.0		ug/L	
		Dissolved Uranium (U)	2010/11/17	ND, RDL=0.15		ug/L	
		Dissolved Vanadium (V)	2010/11/17	ND, RDL=2.0		ug/L	
		Dissolved Zinc (Zn)	2010/11/17	ND, RDL=5.0		ug/L	
	RPD	Dissolved Aluminum (Al)	2010/11/17	NC		%	25
		Dissolved Antimony (Sb)	2010/11/17	NC		%	25
		Dissolved Arsenic (As)	2010/11/17	NC		%	25
		Dissolved Barium (Ba)	2010/11/17	5.9		%	25
		Dissolved Beryllium (Be)	2010/11/17	NC		%	25
		Dissolved Bismuth (Bi)	2010/11/17	NC		%	25
		Dissolved Boron (B)	2010/11/17	NC		%	25
		Dissolved Cadmium (Cd)	2010/11/17	NC		%	25
		Dissolved Calcium (Ca)	2010/11/17	4.9		%	25
		Dissolved Chromium (Cr)	2010/11/17	NC		%	25
		Dissolved Cobalt (Co)	2010/11/17	NC		%	25
		Dissolved Copper (Cu)	2010/11/17	NC		%	25
		Dissolved Iron (Fe)	2010/11/17	4.7		%	25
		Dissolved Lead (Pb)	2010/11/17	NC		%	25
		Dissolved Lithium (Li)	2010/11/17	7.3		%	25
		Dissolved Magnesium (Mg)	2010/11/17	2.6		%	25
		Dissolved Manganese (Mn)	2010/11/17	5.4		%	25
		Dissolved Molybdenum (Mo)	2010/11/17	NC		%	25
		Dissolved Nickel (Ni)	2010/11/17	NC		%	25
		Dissolved Phosphorus (P)	2010/11/17	NC		%	25
		Dissolved Potassium (K)	2010/11/17	4.6		%	25
		Dissolved Selenium (Se)	2010/11/17	NC		%	25
		Dissolved Silver (Ag)	2010/11/17	NC		%	25
		Dissolved Sodium (Na)	2010/11/17	5.0		%	25
		Dissolved Strontium (Sr)	2010/11/17	6.1		%	25
		Dissolved Thallium (Tl)	2010/11/17	NC		%	25
		Dissolved Tin (Sn)	2010/11/17	NC		%	25
		Dissolved Titanium (Ti)	2010/11/17	NC		%	25
		Dissolved Uranium (U)	2010/11/17	NC		%	25
		Dissolved Vanadium (V)	2010/11/17	NC		%	25
		Dissolved Zinc (Zn)	2010/11/17	NC		%	25
2332588 MBU	Matrix Spike	Silica (SiO2)	2010/11/18		123 (1)	%	80 - 120
	Spiked Blank	Silica (SiO2)	2010/11/18		118	%	80 - 120
	Method Blank	Silica (SiO2)	2010/11/18	ND, RDL=0.1		mg/L	
	RPD	Silica (SiO2)	2010/11/18	4.0		%	25
2333465 THL	Matrix Spike	Isobutylbenzene - Volatile	2010/11/19		107	%	70 - 130
		Benzene	2010/11/19		113	%	70 - 130
		Toluene	2010/11/19		113	%	70 - 130
		Ethylbenzene	2010/11/19		113	%	70 - 130
		Xylene (Total)	2010/11/19		116	%	70 - 130
	Spiked Blank	Isobutylbenzene - Volatile	2010/11/19		110	%	70 - 130
		Benzene	2010/11/19		106	%	70 - 130
		Toluene	2010/11/19		110	%	70 - 130
		Ethylbenzene	2010/11/19		116	%	70 - 130
		Xylene (Total)	2010/11/19		112	%	70 - 130

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2333465	THL	Method Blank	Isobutylbenzene - Volatile	2010/11/19		101 %	70 - 130
			Benzene	2010/11/19	ND, RDL=0.001	mg/L	
			Toluene	2010/11/19	ND, RDL=0.001	mg/L	
			Ethylbenzene	2010/11/19	ND, RDL=0.001	mg/L	
			Xylene (Total)	2010/11/19	ND, RDL=0.002	mg/L	
			C6 - C10 (less BTEX)	2010/11/19	ND, RDL=0.01	mg/L	
		RPD	Benzene	2010/11/19	NC	%	40
			Toluene	2010/11/19	NC	%	40
			Ethylbenzene	2010/11/19	NC	%	40
			Xylene (Total)	2010/11/19	NC	%	40
			C6 - C10 (less BTEX)	2010/11/19	NC	%	40
2333511	JAU	Calibration Check	Colour	2010/11/18		99 %	N/A
		Matrix Spike	Colour	2010/11/18		122 (2) %	80 - 120
		Spiked Blank	Colour	2010/11/18		93 %	80 - 120
		Method Blank	Colour	2010/11/18	ND, RDL=5	TCU	
		RPD	Colour	2010/11/18	NC	%	25
2333583	MCN	Matrix Spike	Dissolved Chloride (Cl)	2010/11/18		NC %	80 - 120
		QC Standard	Dissolved Chloride (Cl)	2010/11/18		101 %	80 - 120
		Spiked Blank	Dissolved Chloride (Cl)	2010/11/18		104 %	80 - 120
		Method Blank	Dissolved Chloride (Cl)	2010/11/18	ND, RDL=1	mg/L	
		RPD	Dissolved Chloride (Cl)	2010/11/18	0.01	%	25
2333587	KFO	Matrix Spike	Dissolved Sulphate (SO4)	2010/11/19		NC %	80 - 120
		QC Standard	Dissolved Sulphate (SO4)	2010/11/19		104 %	80 - 120
		Spiked Blank	Dissolved Sulphate (SO4)	2010/11/19		110 %	80 - 120
		Method Blank	Dissolved Sulphate (SO4)	2010/11/19	ND, RDL=2	mg/L	
		RPD	Dissolved Sulphate (SO4)	2010/11/19	2.1	%	25
2333588	JOA	Matrix Spike	Orthophosphate (P)	2010/11/19		94 %	80 - 120
		QC Standard	Orthophosphate (P)	2010/11/19		95 %	80 - 120
		Spiked Blank	Orthophosphate (P)	2010/11/19		101 %	80 - 120
		Method Blank	Orthophosphate (P)	2010/11/19	ND, RDL=0.01	mg/L	
		RPD	Orthophosphate (P)	2010/11/19	NC	%	25
2333590	DLB	Matrix Spike	Nitrate + Nitrite	2010/11/18		93 %	80 - 120
		QC Standard	Nitrate + Nitrite	2010/11/18		103 %	80 - 120
		Spiked Blank	Nitrate + Nitrite	2010/11/18		99 %	80 - 120
		Method Blank	Nitrate + Nitrite	2010/11/18	ND, RDL=0.05	mg/L	
		RPD	Nitrate + Nitrite	2010/11/18	2.1	%	25
2333593	SMT	Matrix Spike	Nitrite (N)	2010/11/18		NC %	80 - 120
		QC Standard	Nitrite (N)	2010/11/18		101 %	80 - 120
		Spiked Blank	Nitrite (N)	2010/11/18		103 %	80 - 120
		Method Blank	Nitrite (N)	2010/11/18	ND, RDL=0.01	mg/L	
		RPD	Nitrite (N)	2010/11/18	3.0	%	25
2333672	BMI	Matrix Spike	Total Organic Carbon (C)	2010/11/17		88 %	80 - 120
		QC Standard	Total Organic Carbon (C)	2010/11/17		92 %	80 - 120
		Spiked Blank	Total Organic Carbon (C)	2010/11/17		94 %	80 - 120
		Method Blank	Total Organic Carbon (C)	2010/11/17	ND, RDL=0.5	mg/L	
		RPD	Total Organic Carbon (C)	2010/11/17	12.7	%	25
2333698	BMI	Matrix Spike	Total Mercury (Hg)	2010/11/17		102 %	80 - 120
		[HV5524-01]	Total Mercury (Hg)	2010/11/17		98 %	80 - 120
		QC Standard	Total Mercury (Hg)	2010/11/17		98 %	80 - 120
		Spiked Blank	Total Mercury (Hg)	2010/11/17		97 %	80 - 120
		Method Blank	Total Mercury (Hg)	2010/11/17	ND, RDL=0.013	ug/L	
		RPD [HV5523-01]	Total Mercury (Hg)	2010/11/17	NC	%	25
2334804	JAU	Calibration Check	Turbidity	2010/11/19		108 %	N/A
		Matrix Spike	Turbidity	2010/11/19		98 %	75 - 125
		[HV5523-01]	Turbidity	2010/11/19			

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QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2334804 JAU	Spiked Blank	Turbidity	2010/11/19		120	%	75 - 125
	Method Blank	Turbidity	2010/11/19	ND, RDL=0.1		NTU	
	RPD [HV5523-01]	Turbidity	2010/11/19	0.2		%	25

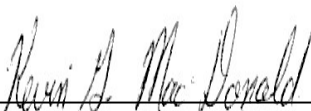
Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
 Calibration Check: A calibration standard analyzed at different times to evaluate on-going calibration accuracy.
 Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
 QC Standard: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
 NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

(1) Matrix Spike: <10 % of compounds in multi-component analysis are in violation.
 (2) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

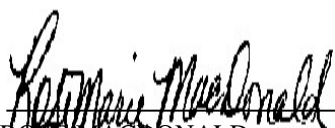
Validation Signature Page

Maxxam Job #: B0G2873

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



KEVIN MACDONALD, Inorganics Supervisor



ROSE MACDONALD,



MICHELLE MOMBOURQUETTE, Laboratory Manager

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

APPENDIX C
Statistical Analysis

2010 Groundwater Monitoring Program
Harbourside Commercial Park, Sydney, NS
SLR Ref: 210.05780.00000

**Table C-1
Mann-Kendall Statistical Summary
Harbourside Commercial Park
Grounwater Monitoring Program**

Mann-Kendall Run	Monitor Well ID	Parameter	Analyte	RDL	Period of Record	Qualifier	n	S	COV	Mann-Kendall Result	Currently Exceeding Standard?	Notes
1	SCU6-004-MW	PAH	Benzo(g,h,i)perylene	0.01	2004,5,9,10		4	4	0.78	No Trend	yes	Should be monitored carefully, upward trend can be seen, very near statistical significance
2	SCU6-004-MW	PAH	Indeno(1,2,3-cd)pyrene	0.01	2004,5,9,10		4	5	0.73	Probably Increasing	yes	
3	SCU7-006-MWA	PAH	Anthracene	0.01	2004,8,9,10	1,2	4	-2	1.98	No Trend	no	COV heavily influenced by high concentration in August 2004 data prior to low flow sampling (other samples collected in November), likely effect of sampling method change or season, not sufficient data for analysis without the 2004 point.
	SCU7-006-MWA	PAH	Benzo(a)anthracene	0.01	2004,8,9,10		4				no	Not evaluated, single detection more than 5x RDL, and only exceeding standard in August 2004 data prior to low flow sampling (other samples collected in November)
	SCU7-006-MWA	PAH	Benzo(a)pyrene	0.01	2004,8,9,10		4				no	Not evaluated, single detection above RDL and exceeding standard in August 2004 data prior to low flow sampling (other samples collected in November)
	SCU7-006-MWA	PAH	Benzo(b)fluoranthene	0.01	2004,8,9,10		4				no	Not evaluated, single detection above RDL and exceeding standard in August 2004 data prior to low flow sampling (other samples collected in November)
	SCU7-006-MWA	PAH	Benzo(g,h,i)perylene	0.01	2004,8,9,10		4				no	Not evaluated, single detection above RDL and exceeding standard in August 2004 data prior to low flow sampling (other samples collected in November)
	SCU7-006-MWA	PAH	Benzo(k)fluoranthene	0.01	2004,8,9,10		4				no	Not evaluated, single detection above RDL and exceeding standard in August 2004 data prior to low flow sampling (other samples collected in November)

Notes:

RDL = Detection Limit

n = number of sampling events

S = Mann-Kendall Statistic value

COV = Coefficient of Variation

Qualifiers

1. Pre-2005 data in the set is anomalously high

2. One or more data points is less than 5 times RDL

3. Less than 4 detections, notable because of visible likely increasing trend

**Table C-1
Mann-Kendall Statistical Summary
Harbourside Commercial Park
Grounwater Monitoring Program**

Mann-Kendall Run	Monitor Well ID	Parameter	Analyte	RDL	Period of Record	Qualifier	n	S	COV	Mann-Kendall Result	Currently Exceeding Standard?	Notes
	SCU7-006-MWA	PAH	Chrysene	0.01	2004,8,9,10		4				no	Not evaluated, single detection above RDL and exceeding standard in August 2004 data prior to low flow sampling (other samples collected in November)
	SCU7-006-MWA	PAH	Dibenz(a,h)anthracene	0.01	2004,8,9,10		4				no	Not evaluated, single detection above RDL and exceeding standard in August 2004 data prior to low flow sampling (other samples collected in November)
4	SCU7-006-MWA	PAH	Fluoranthene	0.01	2004,8,9,10	1	4	-2	1.99	No Trend	no	COV heavily influenced by high concentration in August 2004 data prior to low flow sampling (other samples collected in November) not sufficient data for analysis without the 2004 point
	SCU7-006-MWA	PAH	Indeno(1,2,3-cd)pyrene	0.01	2004,8,9,10		4				no	Not evaluated, single detection above RDL and exceeding standard in August 2004 data prior to low flow sampling (other samples collected in November)
5	SCU7-006-MWA	PAH	Phenanthrene	0.01	2004,8,9,10	1,2	4	-2	1.95	No Trend	no	COV heavily influenced by high concentration in August 2004 data prior to low flow sampling (other samples collected in November), not sufficient data for analysis without the 2004 point
6	SCU7-006-MWA	PAH	Pyrene	0.01	2004,8,9,10	1,2	4	-2	1.99	No Trend	no	COV heavily influenced by high concentration in August 2004 data prior to low flow sampling (other samples collected in November), not sufficient data for analysis without the 2004 point
7	SCU15-013-MW	PAH	Benzo(g,h,i)perylene	0.01	2007,8,9,10	2	4	-5	0.7	Probably Decreasing	no	Trend analysis at this location would benefit by lower detection limit.
8	SCU15-013-MW	PAH	Indeno(1,2,3-cd)pyrene	0.01	2007,8,9,10	2	4	-5	0.74	Probably Decreasing	no	Trend analysis at this location would benefit by lower detection limit.
9	SCU15-018-MW	PAH	Benzo(g,h,i)perylene	0.01	2007,8,9,10	2	4	-4	1.18	No Trend	no	Trend analysis at this location requires lower detection limit.
10	SCU15-018-MW	PAH	Benzo(k)fluoranthene	0.01	2007,8,9,10		4	-5	0.94	Probably Decreasing	no	Trend analysis at this location would benefit by lower detection limit.

Notes:

RDL = Detection Limit

n = number of sampling events

S = Mann-Kendall Statistic value

COV = Coefficient of Variation

Qualifiers

1. Pre-2005 data in the set is anomalously high
2. One or more data points is less than 5 times RDL
3. Less than 4 detections, notable because of visible likely increasing trend

Table C-1
Mann-Kendall Statistical Summary
Harbourside Commercial Park
Grounwater Monitoring Program

Mann-Kendall Run	Monitor Well ID	Parameter	Analyte	RDL	Period of Record	Qualifier	n	S	COV	Mann-Kendall Result	Currently Exceeding Standard?	Notes
11	SCU15-018-MW	PAH	Chrysene	0.01	2007,8,9,10		4	-4	1.31	No Trend	no	
12	SCU15-018-MW	PAH	Indeno(1,2,3-cd)pyrene	0.01	2007,8,9,10	2	4	-4	1.17	No Trend	no	Trend analysis at this location requires lower detection limit.
13	SCU25-003-MW	PAH	Anthracene	0.01	2007,8,9,10		4	-4	1.79	No Trend	no	COV heavily influenced by high July 2007 concentration (other samples collected in November)
14	SCU25-003-MW	PAH	Benzo(a)anthracene	0.01	2007,8,9,10		4	-3	1.91	No Trend	no	COV heavily influenced by high July 2007 concentration (other samples collected in November). Trend analysis would benefit by lower detection limit.
	SCU25-003-MW	PAH	Benzo(a)pyrene	0.01	2007,8,9,10		4				no	Not evaluated, single detection more than 5x RDL
15	SCU25-003-MW	PAH	Benzo(b)fluoranthene	0.01	2007,8,9,10	2	4	-3	1.97	No Trend	no	COV heavily influenced by high July 2007 concentration (other samples collected in November). Trend analysis would benefit by lower detection limit.
16	SCU25-003-MW	PAH	Benzo(k)fluoranthene	0.01	2007,8,9,10	2	4	-3	1.97	No Trend	no	COV heavily influenced by high July 2007 concentration (other samples collected in November). Trend analysis would benefit by lower detection limit.
	SCU25-003-MW	PAH	Benzo(g,h,i)perylene	0.01	2007,8,9,10		4				no	Not evaluated, single detection above RDL
17	SCU25-003-MW	PAH	Chrysene	0.01	2007,8,9,10		4	-3	1.91	No Trend	no	COV heavily influenced by high July 2007 concentration (other samples collected in November). Trend analysis would benefit by lower detection limit.
	SCU25-003-MW	PAH	Dibenz(a,h)anthracene	0.01	2007,8,9,10		4				no	Not evaluated, single detection above RDL
	SCU25-003-MW	PAH	Indeno(1,2,3-cd)pyrene	0.01	2007,8,9,10		4				no	Not evaluated, single detection above RDL

Notes:

RDL = Detection Limit

n = number of sampling events

S = Mann-Kendall Statistic value

COV = Coefficient of Variation

Qualifiers

1. Pre-2005 data in the set is anomalously high

2. One or more data points is less than 5 times RDL

3. Less than 4 detections, notable because of visible likely increasing trend

Table C-1
Mann-Kendall Statistical Summary
Harbourside Commercial Park
Grounwater Monitoring Program

Mann-Kendall Run	Monitor Well ID	Parameter	Analyte	RDL	Period of Record	Qualifier	n	S	COV	Mann-Kendall Result	Currently Exceeding Standard?	Notes
18	SCU25-003-MW	PAH	Phenanthrene	0.01	2007,8,9,10		4	-4	1.82	No Trend	no	COV heavily influenced by high July 2007 concentration (other samples collected in November). Trend analysis would benefit by lower detection limit.
	SCU4-001-MWA	Metals	Mercury total (Hg)	0.01	2004,8,9,10		4				no	Not evaluated, single detection above RDL or 5x RDL and exceeding standard in August 2004 data prior to low flow sampling (other samples collected in November)
19	SCU25-004-MW	Metals	Mercury total (Hg)	0.01	2007,8,9,10	3	4	4	0.79	Stable	yes	Trend is increasing if 5x RDL criteria is removed, requires lower detection limit for trend analysis. 2007 ND value set to ½ RDL.
	SCU25-005-MWB	Metals	Dissolved Selenium (Se)	1	2007,8,9,10		4				no	Not evaluated, single detection in July 2007 exceeding standard and RDL, remainder of samples collected in November.
	SCU25-005-MWC	Metals	Dissolved Cadmium (Cd)	0.02	2007,8,9,10		4				no	Not evaluated, single detection in July 2007 exceeding standard, remainder of samples collected in November, only 2 of 4 samples exceeding RDL.
	SCU25-005-MWC	Metals	Dissolved Selenium (Se)	1	2007,8,9,10		4				no	Not evaluated, single detection in July 2007 exceeding standard, remainder of samples collected in November, only 2 of 4 samples exceeding RDL.
20	SCU10-001-MW	VOCs	cis-1,2-Dichloroethylene	2	2003,5,8,9,10		5	-1	0.06	Stable	Yes	If comparison of differences in detection to detection level is not considered, likely decreasing trend is present. Samples collected from July, September, and November.
21	SCU10-001-MW	VOCs	Vinyl Chloride	0.5	2003,5,8,9,10		5	5	0.41	Probably Increasing	Yes	Samples collected from July, September, and November. RDL is equal to the MOE Standard, analytical method with lower RDL should be used for long-term monitoring.

Notes:

RDL = Detection Limit

n = number of sampling events

S = Mann-Kendall Statistic value

COV = Coefficient of Variation

Qualifiers

1. Pre-2005 data in the set is anomalously high

2. One or more data points is less than 5 times RDL

3. Less than 4 detections, notable because of visible likely increasing trend

Mann-Kendall Analysis of Plume

Monitor Well No. SCU6-004-MW

	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Sum Rows
Benzo(g,h,i)perylene	0.160	0.100	0.590	0.710						
Row 1: Compare to Event 1		-1	1	1						1
Row 2: Compare to Event 2			1	1						2
Row 3: Compare to Event 3				1						1
Row 4: Compare to Event 4					1					0
Row 5: Compare to Event 5						1				0
Row 6: Compare to Event 6							1			0
Row 7: Compare to Event 7								1		0
Row 8: Compare to Event 8									1	0

0.31 standard deviation

0.39 mean

No change = ± 0.05 (Subjective criteria - user input, 5x DL suggested)

Mann-Kendall Statistic (S) = TOTAL 4

Coefficient of Variation (COV) 0.78

S Value	Confidence Level Chart						
	Total No. Sampling Events						
	4	5	6	7	8	9	10
0							
± 1							
± 2							
± 3							
± 4	S						
± 5							
± 6							
± 7							
± 8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
>20							

Stability Evaluation Results

S COV >= 1 and S ≤ 0, No Trend Indicated
 S > 0, COV >= 1 or COV < 1, No Trend Indicated
 COV < 1 and S ≤ 0, Plume is stable

S Trend is Present (≥ 90% Confidence)
 S < 0 - Probably Decreasing Trend
 S > 0 - Probably Increasing Trend

S Trend is Present (> 95% Confidence)
 S < 0 - Decreasing Trend
 S > 0 - Increasing Trend

Mann-Kendall Statistic	Confidence in Trend	Concentration Trend
S > 0	> 95%	Increasing
S > 0	90 - 95%	Probably Increasing
S > 0	< 90%	No Trend
S ≤ 0	< 90% and COV ≥ 1	No Trend
S ≤ 0	< 90% and COV < 1	Stable
S < 0	90 - 95%	Probably Decreasing
S < 0	> 95%	Decreasing

Mann-Kendall Analysis of Plume

Monitor Well No. SCU6-004-MW

	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Sum Rows
Indeno(1,2,3-cd)pyrene	0.170	0.120	0.580	0.680						
Row 1: Compare to Event 1	0	1	1							2
Row 2: Compare to Event 2		1	1							2
Row 3: Compare to Event 3			1							1
Row 4: Compare to Event 4				1						0
Row 5: Compare to Event 5					1					0
Row 6: Compare to Event 6						1				0
Row 7: Compare to Event 7							1			0
Row 8: Compare to Event 8								1		0

0.28 standard deviation

0.39 mean

No change = ± 0.05 (Subjective criteria - user input, 5x DL suggested)

Mann-Kendall Statistic (S) = TOTAL **5**

Coefficient of Variation (COV) **0.73**

S Value	Confidence Level Chart						
	Total No. Sampling Events						
	4	5	6	7	8	9	10
0							
± 1							
± 2							
± 3							
± 4							
± 5	S						
± 6							
± 7							
± 8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
>20							

Stability Evaluation Results

S COV >= 1 and S ≤ 0, No Trend Indicated
 S > 0, COV >= 1 or COV < 1, No Trend Indicated
 COV < 1 and S ≤ 0, Plume is stable

S Trend is Present (≥ 90% Confidence)
 S < 0 - Probably Decreasing Trend
 S > 0 - Probably Increasing Trend

S Trend is Present (> 95% Confidence)
 S < 0 - Decreasing Trend
 S > 0 - Increasing Trend

Mann-Kendall Statistic	Confidence in Trend	Concentration Trend
S > 0	> 95%	Increasing
S > 0	90 - 95%	Probably Increasing
S > 0	< 90%	No Trend
S ≤ 0	< 90% and COV ≥ 1	No Trend
S ≤ 0	< 90% and COV < 1	Stable
S < 0	90 - 95%	Probably Decreasing
S < 0	> 95%	Decreasing

Mann-Kendall Analysis of Plume

Monitor Well No. **SCU7-006-MWA**

	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Sum Rows
Anthracene	130.000	0.330	0.020	0.770						
Row 1: Compare to Event 1		-1	-1	-1						-3
Row 2: Compare to Event 2			-1	1						0
Row 3: Compare to Event 3				1						1
Row 4: Compare to Event 4										0
Row 5: Compare to Event 5										0
Row 6: Compare to Event 6										0
Row 7: Compare to Event 7										0
Row 8: Compare to Event 8										0

64.81 standard deviation

32.78 mean

No change = ± **0.05** (Subjective criteria - user input, 5x DL suggested)

Mann-Kendall Statistic (S) = TOTAL **-2**

Coefficient of Variation (COV) **1.98**

S Value	Confidence Level Chart							
	Total No. Sampling Events							
	4	5	6	7	8	9	10	
0								
± 1								
± 2	S							
± 3								
± 4								
± 5								
± 6								
± 7								
± 8								
± 9								
± 10								
± 11								
± 12								
± 13								
± 14								
± 15								
± 16								
± 17								
± 18								
± 19								
>20								

Stability Evaluation Results

S COV >= 1 and S ≤ 0, No Trend Indicated
 S > 0, COV >= 1 or COV < 1, No Trend Indicated
 COV < 1 and S ≤ 0, Plume is stable

S Trend is Present (≥ 90% Confidence)
 S < 0 - Probably Decreasing Trend
 S > 0 - Probably Increasing Trend

S Trend is Present (> 95% Confidence)
 S < 0 - Decreasing Trend
 S > 0 - Increasing Trend

Mann-Kendall Statistic	Confidence in Trend	Concentration Trend
S > 0	> 95%	Increasing
S > 0	90 - 95%	Probably Increasing
S > 0	< 90%	No Trend
S ≤ 0	< 90% and COV ≥ 1	No Trend
S ≤ 0	< 90% and COV < 1	Stable
S < 0	90 - 95%	Probably Decreasing
S < 0	> 95%	Decreasing

Mann-Kendall Analysis of Plume

Monitor Well No. **SCU7-006-MWA**

	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Sum Rows
Fluoranthene	140.000	0.150	0.090	0.420						
Row 1: Compare to Event 1		-1	-1	-1						-3
Row 2: Compare to Event 2			-1	1						0
Row 3: Compare to Event 3				1						1
Row 4: Compare to Event 4										0
Row 5: Compare to Event 5										0
Row 6: Compare to Event 6										0
Row 7: Compare to Event 7										0
Row 8: Compare to Event 8										0

69.89 standard deviation

35.17 mean

No change = ± **0.05** (Subjective criteria - user input, 5x DL suggested)

Mann-Kendall Statistic (S) = TOTAL **-2**

Coefficient of Variation (COV) **1.99**

S Value	Confidence Level Chart						
	Total No. Sampling Events						
	4	5	6	7	8	9	10
0							
± 1							
± 2	S						
± 3							
± 4							
± 5							
± 6							
± 7							
± 8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
>20							

Stability Evaluation Results

S COV >= 1 and S ≤ 0, No Trend Indicated
 S > 0, COV >= 1 or COV < 1, No Trend Indicated
 COV < 1 and S ≤ 0, Plume is stable

S Trend is Present (≥ 90% Confidence)
 S < 0 - Probably Decreasing Trend
 S > 0 - Probably Increasing Trend

S Trend is Present (> 95% Confidence)
 S < 0 - Decreasing Trend
 S > 0 - Increasing Trend

Mann-Kendall Statistic	Confidence in Trend	Concentration Trend
S > 0	> 95%	Increasing
S > 0	90 - 95%	Probably Increasing
S > 0	< 90%	No Trend
S ≤ 0	< 90% and COV ≥ 1	No Trend
S ≤ 0	< 90% and COV < 1	Stable
S < 0	90 - 95%	Probably Decreasing
S < 0	> 95%	Decreasing

Mann-Kendall Analysis of Plume

Monitor Well No. **SCU7-006-MWA**

	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Sum Rows
Phenanthrene	320.000	2.600	0.020	3.600						
Row 1: Compare to Event 1		-1	-1	-1						-3
Row 2: Compare to Event 2			-1	1						0
Row 3: Compare to Event 3				1						1
Row 4: Compare to Event 4										0
Row 5: Compare to Event 5										0
Row 6: Compare to Event 6										0
Row 7: Compare to Event 7										0
Row 8: Compare to Event 8										0

158.97 standard deviation

81.56 mean

No change = ± **0.05** (Subjective criteria - user input, 5x DL suggested)

Mann-Kendall Statistic (S) = TOTAL **-2**

Coefficient of Variation (COV) **1.95**

S Value	Confidence Level Chart							
	Total No. Sampling Events							
	4	5	6	7	8	9	10	
0								
± 1								
± 2	S							
± 3								
± 4								
± 5								
± 6								
± 7								
± 8								
± 9								
± 10								
± 11								
± 12								
± 13								
± 14								
± 15								
± 16								
± 17								
± 18								
± 19								
>20								

Stability Evaluation Results

S COV >= 1 and S ≤ 0, No Trend Indicated
 S > 0, COV >= 1 or COV < 1, No Trend Indicated
 COV < 1 and S ≤ 0, Plume is stable

S Trend is Present (≥ 90% Confidence)
 S < 0 - Probably Decreasing Trend
 S > 0 - Probably Increasing Trend

S Trend is Present (> 95% Confidence)
 S < 0 - Decreasing Trend
 S > 0 - Increasing Trend

Mann-Kendall Statistic	Confidence in Trend	Concentration Trend
S > 0	> 95%	Increasing
S > 0	90 - 95%	Probably Increasing
S > 0	< 90%	No Trend
S ≤ 0	< 90% and COV ≥ 1	No Trend
S ≤ 0	< 90% and COV < 1	Stable
S < 0	90 - 95%	Probably Decreasing
S < 0	> 95%	Decreasing

Mann-Kendall Analysis of Plume

Monitor Well No. **SCU7-006-MWA**

	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Sum Rows
Pyrene	110.000	0.080	0.020	0.220						
Row 1: Compare to Event 1		-1	-1	-1						-3
Row 2: Compare to Event 2			-1	1						0
Row 3: Compare to Event 3				1						1
Row 4: Compare to Event 4										0
Row 5: Compare to Event 5										0
Row 6: Compare to Event 6										0
Row 7: Compare to Event 7										0
Row 8: Compare to Event 8										0

54.95 standard deviation

27.58 mean

No change = ± **0.05** (Subjective criteria - user input, 5x DL suggested)

Mann-Kendall Statistic (S) = TOTAL **-2**

Coefficient of Variation (COV) **1.99**

S Value	Confidence Level Chart							
	Total No. Sampling Events							
	4	5	6	7	8	9	10	
0								
± 1								
± 2	S							
± 3								
± 4								
± 5								
± 6								
± 7								
± 8								
± 9								
± 10								
± 11								
± 12								
± 13								
± 14								
± 15								
± 16								
± 17								
± 18								
± 19								
>20								

Stability Evaluation Results

S COV >= 1 and S ≤ 0, No Trend Indicated
 S > 0, COV >= 1 or COV < 1, No Trend Indicated
 COV < 1 and S ≤ 0, Plume is stable

S Trend is Present (≥ 90% Confidence)
 S < 0 - Probably Decreasing Trend
 S > 0 - Probably Increasing Trend

S Trend is Present (> 95% Confidence)
 S < 0 - Decreasing Trend
 S > 0 - Increasing Trend

Mann-Kendall Statistic	Confidence in Trend	Concentration Trend
S > 0	> 95%	Increasing
S > 0	90 - 95%	Probably Increasing
S > 0	< 90%	No Trend
S ≤ 0	< 90% and COV ≥ 1	No Trend
S ≤ 0	< 90% and COV < 1	Stable
S < 0	90 - 95%	Probably Decreasing
S < 0	> 95%	Decreasing

Mann-Kendall Analysis of Plume

Monitor Well No. **SCU15-013-MW**

	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Sum Rows
Benzo(g,h,i)perylene	0.260	0.120	0.130	0.030						
Row 1: Compare to Event 1		-1	-1	-1						-3
Row 2: Compare to Event 2			0	-1						-1
Row 3: Compare to Event 3				-1						-1
Row 4: Compare to Event 4					0					0
Row 5: Compare to Event 5						0				0
Row 6: Compare to Event 6							0			0
Row 7: Compare to Event 7								0		0
Row 8: Compare to Event 8									0	0

0.09 standard deviation

0.14 mean

No change = ± **0.05** (Subjective criteria - user input, 5x DL suggested)

Mann-Kendall Statistic (S) = TOTAL **-5**

Coefficient of Variation (COV) **0.70**

S Value	Total No. Sampling Events						
	4	5	6	7	8	9	10
0							
± 1							
± 2							
± 3							
± 4							
± 5	S						
± 6							
± 7							
± 8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
>20							

Stability Evaluation Results

S COV >= 1 and S ≤ 0, No Trend Indicated
 S > 0, COV >= 1 or COV < 1, No Trend Indicated
 COV < 1 and S ≤ 0, Plume is stable

S Trend is Present (≥ 90% Confidence)
 S < 0 - Probably Decreasing Trend
 S > 0 - Probably Increasing Trend

S Trend is Present (> 95% Confidence)
 S < 0 - Decreasing Trend
 S > 0 - Increasing Trend

Mann-Kendall Statistic	Confidence in Trend	Concentration Trend
S > 0	> 95%	Increasing
S > 0	90 - 95%	Probably Increasing
S > 0	< 90%	No Trend
S ≤ 0	< 90% and COV ≥ 1	No Trend
S ≤ 0	< 90% and COV < 1	Stable
S < 0	90 - 95%	Probably Decreasing
S < 0	> 95%	Decreasing

Mann-Kendall Analysis of Plume

Monitor Well No. **SCU15-013-MW**

	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Sum Rows
Indeno(1,2,3-cd)pyrene	0.300	0.150	0.150	0.020						
Row 1: Compare to Event 1		-1	-1	-1						-3
Row 2: Compare to Event 2			0	-1						-1
Row 3: Compare to Event 3				-1						-1
Row 4: Compare to Event 4					0					0
Row 5: Compare to Event 5						0				0
Row 6: Compare to Event 6							0			0
Row 7: Compare to Event 7								0		0
Row 8: Compare to Event 8									0	0

0.11 standard deviation

0.16 mean

No change = ± **0.05** (Subjective criteria - user input, 5x DL suggested)
SCU15-013-MW

Mann-Kendall Statistic (S) = TOTAL **-5**

Coefficient of Variation (COV) **0.74**

S Value	Confidence Level Chart						
	Total No. Sampling Events						
	4	5	6	7	8	9	10
0							
± 1							
± 2							
± 3							
± 4							
± 5	S						
± 6							
± 7							
± 8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
>20							

Stability Evaluation Results

S COV >= 1 and S ≤ 0, No Trend Indicated
S > 0, COV >= 1 or COV < 1, No Trend Indicated
COV < 1 and S ≤ 0, Plume is stable

S Trend is Present (≥ 90% Confidence)
S < 0 - Probably Decreasing Trend
S > 0 - Probably Increasing Trend

S Trend is Present (> 95% Confidence)
S < 0 - Decreasing Trend
S > 0 - Increasing Trend

Mann-Kendall Statistic	Confidence in Trend	Concentration Trend
S > 0	> 95%	Increasing
S > 0	90 - 95%	Probably Increasing
S > 0	< 90%	No Trend
S ≤ 0	< 90% and COV ≥ 1	No Trend
S ≤ 0	< 90% and COV < 1	Stable
S < 0	90 - 95%	Probably Decreasing
S < 0	> 95%	Decreasing

Mann-Kendall Analysis of Plume

Monitor Well No. **SCU15-018-MW**

	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Sum Rows
Benzo(g,h,i)perylene	0.300	0.080	0.010	0.050						
Row 1: Compare to Event 1		-1	-1	-1						3
Row 2: Compare to Event 2			-1	0						-1
Row 3: Compare to Event 3				0						0
Row 4: Compare to Event 4										0
Row 5: Compare to Event 5										0
Row 6: Compare to Event 6										0
Row 7: Compare to Event 7										0
Row 8: Compare to Event 8										0

0.13 standard deviation

0.11 mean

No change = ± **0.05** (Subjective criteria - user input, 5x DL suggested)
SCU15-013-MW

Mann-Kendall Statistic (S) = TOTAL **-4**

Coefficient of Variation (COV) **1.18**

S Value	Confidence Level Chart						
	Total No. Sampling Events						
	4	5	6	7	8	9	10
0							
± 1							
± 2							
± 3							
± 4	S						
± 5							
± 6							
± 7							
± 8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
>20							

Stability Evaluation Results

S COV >= 1 and S <= 0, No Trend Indicated
S > 0, COV >= 1 or COV < 1, No Trend Indicated
COV < 1 and S <= 0, Plume is stable

S Trend is Present (≥ 90% Confidence)
S < 0 - Probably Decreasing Trend
S > 0 - Probably Increasing Trend

S Trend is Present (> 95% Confidence)
S < 0 - Decreasing Trend
S > 0 - Increasing Trend

Mann-Kendall Statistic	Confidence in Trend	Concentration Trend
S > 0	> 95%	Increasing
S > 0	90 - 95%	Probably Increasing
S > 0	< 90%	No Trend
S <= 0	< 90% and COV ≥ 1	No Trend
S <= 0	< 90% and COV < 1	Stable
S < 0	90 - 95%	Probably Decreasing
S < 0	> 95%	Decreasing

Mann-Kendall Analysis of Plume

Monitor Well No. **SCU15-018-MW**

	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Sum Rows
Benzo(k)fluoranthene	0.870	0.470	0.080	0.130						
Row 1: Compare to Event 1		-1	-1	-1						3
Row 2: Compare to Event 2			-1	-1						-2
Row 3: Compare to Event 3				0						0
Row 4: Compare to Event 4										0
Row 5: Compare to Event 5										0
Row 6: Compare to Event 6										0
Row 7: Compare to Event 7										0
Row 8: Compare to Event 8										0

0.37 standard deviation

0.39 mean

No change = ± **0.05** (Subjective criteria - user input, 5x DL suggested)

SCU15-013-MW

Mann-Kendall Statistic (S) = TOTAL **-5**

Coefficient of Variation (COV) **0.94**

S Value	Confidence Level Chart						
	Total No. Sampling Events						
	4	5	6	7	8	9	10
0							
± 1							
± 2							
± 3							
± 4							
± 5	S						
± 6							
± 7							
± 8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
>20							

Stability Evaluation Results

S COV >= 1 and S ≤ 0, No Trend Indicated
 S > 0, COV >= 1 or COV < 1, No Trend Indicated
 COV < 1 and S ≤ 0, Plume is stable

S Trend is Present (≥ 90% Confidence)
 S < 0 - Probably Decreasing Trend
 S > 0 - Probably Increasing Trend

S Trend is Present (> 95% Confidence)
 S < 0 - Decreasing Trend
 S > 0 - Increasing Trend

Mann-Kendall Statistic	Confidence in Trend	Concentration Trend
S > 0	> 95%	Increasing
S > 0	90 - 95%	Probably Increasing
S > 0	< 90%	No Trend
S ≤ 0	< 90% and COV ≥ 1	No Trend
S ≤ 0	< 90% and COV < 1	Stable
S < 0	90 - 95%	Probably Decreasing
S < 0	> 95%	Decreasing

Mann-Kendall Analysis of Plume

Monitor Well No. **SCU15-018-MW**

	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Sum Rows
Chrysene	4.100	0.910	0.210	0.360						
Row 1: Compare to Event 1		-1	-1	-1						3
Row 2: Compare to Event 2			-1	-1						-2
Row 3: Compare to Event 3				1						1
Row 4: Compare to Event 4										0
Row 5: Compare to Event 5										0
Row 6: Compare to Event 6										0
Row 7: Compare to Event 7										0
Row 8: Compare to Event 8										0

1.83 standard deviation

1.40 mean

No change = ± **0.05** (Subjective criteria - user input, 5x DL suggested)

SCU15-013-MW

Mann-Kendall Statistic (S) = TOTAL **-4**

Coefficient of Variation (COV) **1.31**

S Value	Confidence Level Chart						
	Total No. Sampling Events						
	4	5	6	7	8	9	10
0							
± 1							
± 2							
± 3							
± 4	S						
± 5							
± 6							
± 7							
± 8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
>20							

Stability Evaluation Results

S COV >= 1 and S <= 0, No Trend Indicated
 S > 0, COV >= 1 or COV < 1, No Trend Indicated
 COV < 1 and S <= 0, Plume is stable

S Trend is Present (≥ 90% Confidence)
 S < 0 - Probably Decreasing Trend
 S > 0 - Probably Increasing Trend

S Trend is Present (> 95% Confidence)
 S < 0 - Decreasing Trend
 S > 0 - Increasing Trend

Mann-Kendall Statistic	Confidence in Trend	Concentration Trend
S > 0	> 95%	Increasing
S > 0	90 - 95%	Probably Increasing
S > 0	< 90%	No Trend
S <= 0	< 90% and COV ≥ 1	No Trend
S <= 0	< 90% and COV < 1	Stable
S < 0	90 - 95%	Probably Decreasing
S < 0	> 95%	Decreasing

Mann-Kendall Analysis of Plume

Monitor Well No. **SCU15-018-MW**

	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Sum Rows
Indeno(1,2,3-cd)pyrene	0.360	0.100	0.020	0.050						
Row 1: Compare to Event 1		-1	-1	-1						3
Row 2: Compare to Event 2			-1	0						-1
Row 3: Compare to Event 3				0						0
Row 4: Compare to Event 4					0					0
Row 5: Compare to Event 5						0				0
Row 6: Compare to Event 6							0			0
Row 7: Compare to Event 7								0		0
Row 8: Compare to Event 8									0	0

0.16 standard deviation

0.13 mean

No change = ± **0.05** (Subjective criteria - user input, 5x DL suggested)
SCU15-013-MW

Mann-Kendall Statistic (S) = TOTAL **-4**

Coefficient of Variation (COV) **1.17**

S Value	Confidence Level Chart						
	Total No. Sampling Events						
	4	5	6	7	8	9	10
0							
± 1							
± 2							
± 3							
± 4	S						
± 5							
± 6							
± 7							
± 8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
>20							

Stability Evaluation Results

S COV >= 1 and S <= 0, No Trend Indicated
S > 0, COV >= 1 or COV < 1, No Trend Indicated
COV < 1 and S <= 0, Plume is stable

S Trend is Present (≥ 90% Confidence)
S < 0 - Probably Decreasing Trend
S > 0 - Probably Increasing Trend

S Trend is Present (> 95% Confidence)
S < 0 - Decreasing Trend
S > 0 - Increasing Trend

Mann-Kendall Statistic	Confidence in Trend	Concentration Trend
S > 0	> 95%	Increasing
S > 0	90 - 95%	Probably Increasing
S > 0	< 90%	No Trend
S ≤ 0	< 90% and COV ≥ 1	No Trend
S ≤ 0	< 90% and COV < 1	Stable
S < 0	90 - 95%	Probably Decreasing
S < 0	> 95%	Decreasing

Mann-Kendall Analysis of Plume

Monitor Well No. **SCU25-003-MW**

	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Sum Rows
Anthracene	14.000	0.380	0.540	0.260						
Row 1: Compare to Event 1		-1	-1	-1						-3
Row 2: Compare to Event 2			1	-1						0
Row 3: Compare to Event 3				-1						-1
Row 4: Compare to Event 4					1					0
Row 5: Compare to Event 5						1				0
Row 6: Compare to Event 6							1			0
Row 7: Compare to Event 7								1		0
Row 8: Compare to Event 8									1	0

6.80 standard deviation

3.80 mean

No change = ± **0.05** (Subjective criteria - user input, 5x DL suggested)
SCU15-013-MW

Mann-Kendall Statistic (S) = TOTAL **-4**

Coefficient of Variation (COV) **1.79**

S Value	Confidence Level Chart						
	Total No. Sampling Events						
	4	5	6	7	8	9	10
0							
± 1							
± 2							
± 3							
± 4	S						
± 5							
± 6							
± 7							
± 8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
>20							

Stability Evaluation Results

S COV >= 1 and S ≤ 0, No Trend Indicated
S > 0, COV >= 1 or COV < 1, No Trend Indicated
COV < 1 and S ≤ 0, Plume is stable

S Trend is Present (≥ 90% Confidence)
S < 0 - Probably Decreasing Trend
S > 0 - Probably Increasing Trend

S Trend is Present (> 95% Confidence)
S < 0 - Decreasing Trend
S > 0 - Increasing Trend

Mann-Kendall Statistic	Confidence in Trend	Concentration Trend
S > 0	> 95%	Increasing
S > 0	90 - 95%	Probably Increasing
S > 0	< 90%	No Trend
S ≤ 0	< 90% and COV ≥ 1	No Trend
S ≤ 0	< 90% and COV < 1	Stable
S < 0	90 - 95%	Probably Decreasing
S < 0	> 95%	Decreasing

Mann-Kendall Analysis of Plume

Monitor Well No. **SCU25-003-MW**

	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Sum Rows
Benzo(a)anthracene	7.800	0.100	0.100	0.060						
Row 1: Compare to Event 1		-1	-1	-1						-3
Row 2: Compare to Event 2			0	0						0
Row 3: Compare to Event 3				0						0
Row 4: Compare to Event 4										0
Row 5: Compare to Event 5										0
Row 6: Compare to Event 6										0
Row 7: Compare to Event 7										0
Row 8: Compare to Event 8										0

3.86 standard deviation

2.02 mean

No change = ± **0.05** (Subjective criteria - user input, 5x DL suggested)

SCU15-013-MW

Mann-Kendall Statistic (S) = TOTAL **-3**

Coefficient of Variation (COV) **1.91**

S Value	Confidence Level Chart						
	Total No. Sampling Events						
	4	5	6	7	8	9	10
0							
± 1							
± 2							
± 3	S						
± 4							
± 5							
± 6							
± 7							
± 8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
>20							

Stability Evaluation Results

S COV >= 1 and S ≤ 0, No Trend Indicated
 S > 0, COV >= 1 or COV < 1, No Trend Indicated
 COV < 1 and S ≤ 0, Plume is stable

S Trend is Present (≥ 90% Confidence)
 S < 0 - Probably Decreasing Trend
 S > 0 - Probably Increasing Trend

S Trend is Present (> 95% Confidence)
 S < 0 - Decreasing Trend
 S > 0 - Increasing Trend

Mann-Kendall Statistic	Confidence in Trend	Concentration Trend
S > 0	> 95%	Increasing
S > 0	90 - 95%	Probably Increasing
S > 0	< 90%	No Trend
S ≤ 0	< 90% and COV ≥ 1	No Trend
S ≤ 0	< 90% and COV < 1	Stable
S < 0	90 - 95%	Probably Decreasing
S < 0	> 95%	Decreasing

Mann-Kendall Analysis of Plume

Monitor Well No. **SCU25-003-MW**

	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Sum Rows
Benzo(b)fluoranthene	4.400	0.020	0.020	0.010						
Row 1: Compare to Event 1		-1	-1	-1						-3
Row 2: Compare to Event 2			0	0						0
Row 3: Compare to Event 3				0						0
Row 4: Compare to Event 4										0
Row 5: Compare to Event 5										0
Row 6: Compare to Event 6										0
Row 7: Compare to Event 7										0
Row 8: Compare to Event 8										0

2.19 standard deviation
1.11 mean

No change = ± **0.05** (Subjective criteria - user input, 5x DL suggested)
SCU15-013-MW

Mann-Kendall Statistic (S) = TOTAL **-3**

Coefficient of Variation (COV) **1.97**

S Value	Confidence Level Chart						
	Total No. Sampling Events						
	4	5	6	7	8	9	10
0							
± 1							
± 2							
± 3	S						
± 4							
± 5							
± 6							
± 7							
± 8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
>20							

Stability Evaluation Results

S COV >= 1 and S ≤ 0, No Trend Indicated
S > 0, COV >= 1 or COV < 1, No Trend Indicated
COV < 1 and S ≤ 0, Plume is stable

S Trend is Present (≥ 90% Confidence)
S < 0 - Probably Decreasing Trend
S > 0 - Probably Increasing Trend

S Trend is Present (> 95% Confidence)
S < 0 - Decreasing Trend
S > 0 - Increasing Trend

Mann-Kendall Statistic	Confidence in Trend	Concentration Trend
S > 0	> 95%	Increasing
S > 0	90 - 95%	Probably Increasing
S > 0	< 90%	No Trend
S ≤ 0	< 90% and COV ≥ 1	No Trend
S ≤ 0	< 90% and COV < 1	Stable
S < 0	90 - 95%	Probably Decreasing
S < 0	> 95%	Decreasing

Mann-Kendall Analysis of Plume

Monitor Well No. **SCU25-003-MW**

	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Sum Rows
Benzo(k)fluoranthene	4.900	0.020	0.020	0.010						
Row 1: Compare to Event 1		-1	-1	-1						-3
Row 2: Compare to Event 2			0	0						0
Row 3: Compare to Event 3				0						0
Row 4: Compare to Event 4										0
Row 5: Compare to Event 5										0
Row 6: Compare to Event 6										0
Row 7: Compare to Event 7										0
Row 8: Compare to Event 8										0

2.44 standard deviation

1.24 mean

No change = ± **0.05** (Subjective criteria - user input, 5x DL suggested)

Mann-Kendall Statistic (S) = TOTAL

-3

Coefficient of Variation (COV)

1.97

S Value	Confidence Level Chart						
	Total No. Sampling Events						
	4	5	6	7	8	9	10
0							
± 1							
± 2							
± 3	S						
± 4							
± 5							
± 6							
± 7							
± 8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
>20							

Stability Evaluation Results

S COV >= 1 and S ≤ 0, No Trend Indicated
 S > 0, COV >= 1 or COV < 1, No Trend Indicated
 COV < 1 and S ≤ 0, Plume is stable

S Trend is Present (≥ 90% Confidence)
 S < 0 - Probably Decreasing Trend
 S > 0 - Probably Increasing Trend

S Trend is Present (> 95% Confidence)
 S < 0 - Decreasing Trend
 S > 0 - Increasing Trend

Mann-Kendall Statistic	Confidence in Trend	Concentration Trend
S > 0	> 95%	Increasing
S > 0	90 - 95%	Probably Increasing
S > 0	< 90%	No Trend
S ≤ 0	< 90% and COV ≥ 1	No Trend
S ≤ 0	< 90% and COV < 1	Stable
S < 0	90 - 95%	Probably Decreasing
S < 0	> 95%	Decreasing

Mann-Kendall Analysis of Plume

Monitor Well No. **SCU25-003-MW**

	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Sum Rows
Chrysene	6.700	0.080	0.100	0.050						
Row 1: Compare to Event 1		-1	-1	-1						-3
Row 2: Compare to Event 2			0	0						0
Row 3: Compare to Event 3				0						0
Row 4: Compare to Event 4										0
Row 5: Compare to Event 5										0
Row 6: Compare to Event 6										0
Row 7: Compare to Event 7										0
Row 8: Compare to Event 8										0

3.31 standard deviation

1.73 mean

No change = ± **0.05** (Subjective criteria - user input, 5x DL suggested)

Mann-Kendall Statistic (S) = TOTAL

-3

Coefficient of Variation (COV)

1.91

S Value	Confidence Level Chart						
	Total No. Sampling Events						
	4	5	6	7	8	9	10
0							
± 1							
± 2							
± 3	S						
± 4							
± 5							
± 6							
± 7							
± 8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
>20							

Stability Evaluation Results

S COV >= 1 and S ≤ 0, No Trend Indicated
 S > 0, COV >= 1 or COV < 1, No Trend Indicated
 COV < 1 and S ≤ 0, Plume is stable

S Trend is Present (≥ 90% Confidence)
 S < 0 - Probably Decreasing Trend
 S > 0 - Probably Increasing Trend

S Trend is Present (> 95% Confidence)
 S < 0 - Decreasing Trend
 S > 0 - Increasing Trend

Mann-Kendall Statistic	Confidence in Trend	Concentration Trend
S > 0	> 95%	Increasing
S > 0	90 - 95%	Probably Increasing
S > 0	< 90%	No Trend
S ≤ 0	< 90% and COV ≥ 1	No Trend
S ≤ 0	< 90% and COV < 1	Stable
S < 0	90 - 95%	Probably Decreasing
S < 0	> 95%	Decreasing

Mann-Kendall Analysis of Plume

Monitor Well No. **SCU25-003-MW**

	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Sum Rows
Phenanthrene	64.000	1.600	2.000	0.990						
Row 1: Compare to Event 1		-1	-1	-1						-3
Row 2: Compare to Event 2			1	-1						0
Row 3: Compare to Event 3				-1						-1
Row 4: Compare to Event 4					1					0
Row 5: Compare to Event 5						1				0
Row 6: Compare to Event 6							1			0
Row 7: Compare to Event 7								1		0
Row 8: Compare to Event 8									1	0

31.24 standard deviation

17.15 mean

No change = ± **0.05** (Subjective criteria - user input, 5x DL suggested)

Mann-Kendall Statistic (S) = TOTAL

-4

Coefficient of Variation (COV)

1.82

S Value	Confidence Level Chart						
	Total No. Sampling Events						
	4	5	6	7	8	9	10
0							
± 1							
± 2							
± 3							
± 4	S						
± 5							
± 6							
± 7							
± 8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
>20							

Stability Evaluation Results

S COV >= 1 and S ≤ 0, No Trend Indicated
 S > 0, COV >= 1 or COV < 1, No Trend Indicated
 COV < 1 and S ≤ 0, Plume is stable

S Trend is Present (≥ 90% Confidence)
 S < 0 - Probably Decreasing Trend
 S > 0 - Probably Increasing Trend

S Trend is Present (> 95% Confidence)
 S < 0 - Decreasing Trend
 S > 0 - Increasing Trend

Mann-Kendall Statistic	Confidence in Trend	Concentration Trend
S > 0	> 95%	Increasing
S > 0	90 - 95%	Probably Increasing
S > 0	< 90%	No Trend
S ≤ 0	< 90% and COV ≥ 1	No Trend
S ≤ 0	< 90% and COV < 1	Stable
S < 0	90 - 95%	Probably Decreasing
S < 0	> 95%	Decreasing

Mann-Kendall Analysis of Plume

Monitor Well No. **SCU25-004-MW**

	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Sum Rows
Mercury total (Hg)	0.0065	0.050	0.130	0.140						
Row 1: Compare to Event 1	0	1	1							2
Row 2: Compare to Event 2		1	1							2
Row 3: Compare to Event 3			0							0
Row 4: Compare to Event 4				1						0
Row 5: Compare to Event 5					1					0
Row 6: Compare to Event 6						1				0
Row 7: Compare to Event 7							1			0
Row 8: Compare to Event 8								1		0

0.06 standard deviation

0.08 mean

No change = ± **0.065** (Subjective criteria - user input, 5x DL suggested)

Mann-Kendall Statistic (S) = TOTAL

4

Coefficient of Variation (COV)

0.79

S Value	Confidence Level Chart						
	Total No. Sampling Events						
	4	5	6	7	8	9	10
0							
± 1							
± 2							
± 3							
± 4	S						
± 5							
± 6							
± 7							
± 8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
>20							

Stability Evaluation Results

S COV >= 1 and S ≤ 0, No Trend Indicated
 S > 0, COV >= 1 or COV < 1, No Trend Indicated
 COV < 1 and S ≤ 0, Plume is stable

S Trend is Present (≥ 90% Confidence)
 S < 0 - Probably Decreasing Trend
 S > 0 - Probably Increasing Trend

S Trend is Present (> 95% Confidence)
 S < 0 - Decreasing Trend
 S > 0 - Increasing Trend

Mann-Kendall Statistic	Confidence in Trend	Concentration Trend
S > 0	> 95%	Increasing
S > 0	90 - 95%	Probably Increasing
S > 0	< 90%	No Trend
S ≤ 0	< 90% and COV ≥ 1	No Trend
S ≤ 0	< 90% and COV < 1	Stable
S < 0	90 - 95%	Probably Decreasing
S < 0	> 95%	Decreasing

Mann-Kendall Analysis of Plume

Monitor Well No. SCU10-001-MW

cis-1,2-Dichloroethylene

	Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Sum Rows
	88.0000	90.000	83.000	79.000						
Row 1: Compare to Event 1	0	0	0							0
Row 2: Compare to Event 2		0	-1							-1
Row 3: Compare to Event 3			0							0
Row 4: Compare to Event 4				0						0
Row 5: Compare to Event 5					0					0
Row 6: Compare to Event 6						0				0
Row 7: Compare to Event 7							0			0
Row 8: Compare to Event 8								0		0

4.97 standard deviation

85.00 mean

No change = ± 10 (Subjective criteria - user input, 5x DL suggested)

Mann-Kendall Statistic (S) = TOTAL

-1

Coefficient of Variation (COV)

0.06

S Value	Confidence Level Chart						
	Total No. Sampling Events						
	4	5	6	7	8	9	10
0							
± 1	S						
± 2							
± 3							
± 4							
± 5							
± 6							
± 7							
± 8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
>20							

Stability Evaluation Results

S COV >= 1 and S ≤ 0, No Trend Indicated
 S > 0, COV >= 1 or COV < 1, No Trend Indicated
 COV < 1 and S ≤ 0, Plume is stable

S Trend is Present (≥ 90% Confidence)
 S < 0 - Probably Decreasing Trend
 S > 0 - Probably Increasing Trend

S Trend is Present (> 95% Confidence)
 S < 0 - Decreasing Trend
 S > 0 - Increasing Trend

Mann-Kendall Statistic	Confidence in Trend	Concentration Trend
S > 0	> 95%	Increasing
S > 0	90 - 95%	Probably Increasing
S > 0	< 90%	No Trend
S ≤ 0	< 90% and COV ≥ 1	No Trend
S ≤ 0	< 90% and COV < 1	Stable
S < 0	90 - 95%	Probably Decreasing
S < 0	> 95%	Decreasing

Mann-Kendall Analysis of Plume

Monitor Well No. **SCU10-001-MW**

Vinyl Chloride

Event 1	Event 2	Event 3	Event 4	Event 5	Event 6	Event 7	Event 8	Event 9	Sum Rows
2.3000	8.000	8.000	5.700	9					

2.69 standard deviation
6.60 mean

Row 1: Compare to Event 1	1	1	1	1					4
Row 2: Compare to Event 2		0	0	0					0
Row 3: Compare to Event 3			0	0					0
Row 4: Compare to Event 4				1					1
Row 5: Compare to Event 5					0				0
Row 6: Compare to Event 6						0			0
Row 7: Compare to Event 7							0		0
Row 8: Compare to Event 8								0	0

No change = ± **2.5** (Subjective criteria - user input, 5x DL suggested)

Mann-Kendall Statistic (S) = TOTAL
Coefficient of Variation (COV)

5
0.41

S Value	Confidence Level Chart						
	Total No. Sampling Events						
	4	5	6	7	8	9	10
0							
± 1							
± 2							
± 3							
± 4							
± 5		S					
± 6							
± 7							
± 8							
± 9							
± 10							
± 11							
± 12							
± 13							
± 14							
± 15							
± 16							
± 17							
± 18							
± 19							
>20							

Stability Evaluation Results

S COV >= 1 and S ≤ 0, No Trend Indicated
S > 0, COV >= 1 or COV < 1, No Trend Indicated
COV < 1 and S ≤ 0, Plume is stable

S Trend is Present (≥ 90% Confidence)
S < 0 - Probably Decreasing Trend
S > 0 - Probably Increasing Trend

S Trend is Present (> 95% Confidence)
S < 0 - Decreasing Trend
S > 0 - Increasing Trend

Mann-Kendall Statistic	Confidence in Trend	Concentration Trend
S > 0	> 95%	Increasing
S > 0	90 - 95%	Probably Increasing
S > 0	< 90%	No Trend
S ≤ 0	< 90% and COV ≥ 1	No Trend
S ≤ 0	< 90% and COV < 1	Stable
S < 0	90 - 95%	Probably Decreasing
S < 0	> 95%	Decreasing