

**Supplemental Phase II
Environmental Site Assessment
937 Genesee Street
City of Rochester, New York 14611**



October 3, 2012

SUPPLEMENTAL PHASE II ENVIRONMENTAL SITE ASSESSMENT

937 Genesee Street
City of Rochester, New York

Executive Summary

Stantec Consulting Services Inc. (Stantec) conducted a Supplemental Phase II Environmental Site Assessment (ESA) at 937 Genesee Street (the Site) between August 20, 2012 and August 29, 2012. The Site is located in the City of Rochester, Monroe County, New York northwest of the intersection of Genesee Street, Brooks Avenue, and Plymouth Avenue. A map of the site location is presented on Figure 1. As shown on a site plan presented on Figure 2, the site is a $0.248\pm$ acre vacant parcel extending from the west side of Genesee Street.

In November 2002, Stantec performed a Phase I ESA of twenty-three contiguous parcels in the Brooks Landing Urban Renewal District, including the site. The Phase I ESA indicated that 937-941 Genesee Street was occupied by an auto repair facility from 1912 to 1941 and by dry cleaners from 1946 until its 2009 demolition. Stantec completed two Phase II Investigation programs at the adjoining property to the north, 923-927 Genesee Street, which indicated low level impacts to a fill layer but did not encounter impacts to groundwater or deeper soils at the property boundary.

During City of Rochester Department of Environmental Services (DES) discussions with other City staff who were involved in the 2009 demolition of the former building at 937 Genesee Street, it was reported that they observed a partially buried 55-gallon drum that was filled with stone, had no bottom and was buried in the floor at the rear of the building. This was suspected to have been a dry well structure and this area was investigated as part of a July 2011 Phase II ESA program which principally identified the presence of petroleum impacted soil and groundwater near the rear of the former building (western portion of the site).

This report describes the Supplemental Phase II ESA investigation activities, methods and results. The Supplemental Phase II ESA was performed for the City of Rochester. The purpose of the Supplemental Phase II ESA was to investigate potential contamination from historical dry cleaners and auto repair shops identified in Stantec's November 2002 Phase I ESA and to further characterize the on-site horizontal and vertical extent of impacted soil and groundwater identified in Stantec's July 2011 Phase II ESA.

In an effort to evaluate the potential for off-site contaminant migration and given the presence of low-hanging overhead power lines along the western property boundary, which limited the proximity to which a drill rig or backhoe could access this area, two angled overburden borings were installed, one of which was converted to an angled overburden well which did not yield groundwater. Eight additional vertical overburden test borings were installed, and monitoring wells were installed in five of these borings to delineate the lateral extent of on-site impacts. One bedrock well was also installed, including examination of the overburden material and bedrock core, to evaluate the vertical extent of potential impacts.

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The results of the July 2011 Phase II ESA and October 2012 Supplemental Phase II ESA indicate the presence of Volatile Organic Compound (VOC) impacts in soil and groundwater. Nuisance odors were noted in the July 2011 Phase II ESA borings B-2, B-3, B-4 and B-6 and in the Supplemental Phase II ESA borings B-14 and B-18. VOC concentrations from the July 2011 Phase II ESA exceeded the New York State Department of Environmental Conservation (NYSDEC) SCOs for unrestricted use in boring B-3. SED-1, which is a sample of the sediment from a manhole located on the western portion of the site within the former building footprint, had acetone and methyl ethyl ketone (MEK) concentrations which exceeded NYSDEC Part 375 SCOs for unrestricted use. Selenium was reported above the groundwater standard in MW-7 during the July 2011 Phase II ESA. Concentrations of lead and mercury exceeded the NYSDEC SCOs for unrestricted use and indeno(1,2,3-cd)pyrene exceeded the NYSDEC SCO for restricted residential use in the fill material from B-19. During the Supplemental Phase II, exceedances of groundwater standards for VOCs were detected in MW-3, MW-6, and MW-14. The greatest concentrations were reported in the area near the manhole. Water level measurements indicated that the hydraulic gradient was relatively flat with a slight indication of flow toward the east-northeast with overburden groundwater depths that ranged from 8± to 10± feet below ground surface.

Given the absence of petroleum related impacts in the borings and monitoring wells installed between B-3/MW-3 and B-14/MW-14, it appears that two separate areas of the site have been impacted by petroleum related releases; in addition the lateral extent of these releases appears to have been delineated. The western most impacted area is centered on B-3/MW-3 and B-6/MW-6 near the manhole and dry well. The sources of the impacts appears to have been the past use of the site as a dry cleaner and auto repair facility including probable releases from the manhole and former drywell. The eastern most impacted area is centered on B-14/MW-14. It is suspected that the contamination in this area may have resulted from a release associated with the sewer that serviced the subject property; contamination may also be related to the former onsite presence of a 550-gallon gasoline tank and pump between 1938 and 1941 and a 250-gallon solvent tank between 1947 and 1961, which were identified in Stantec's September 2012 Phase I ESA and the former locations of which are unknown. Based on the soil sample results from the surrounding borings B-15, B-16, B-18, and groundwater sample results from MW-18, it appears that of impacts on the eastern portion of the site are limited to the area adjacent to B-14/MW-14. Given the delineation of these two areas of impact and given that no evidence of impacts was observed in the angled borings at the western property boundary, there is no information to suggest that contamination has migrated offsite.

It is understood that the July 2011 Phase II ESA has been presented to the NYSDEC and spill file No. 1206397 was created. It is recommended that this report also be forwarded to the NYSDEC and a remedial program be developed and implemented that takes into account the potential future redevelopment of the site.

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1.0 Introduction

Between August 20, 2012 and August 29, 2012, Stantec Consulting Services Inc. (Stantec) conducted a Supplemental Phase II Environmental Site Assessment (ESA) at 937 Genesee Street in the City of Rochester, Monroe County, New York (the Site). The Site location is shown on the attached Figure 1.

The Supplemental Phase II ESA was performed at the request of the City of Rochester (City) in accordance with Stantec's August 13, 2012 proposal. The purpose of the Phase II ESA was to investigate potential contamination from historical dry cleaners and auto repair shops identified in Stantec's November 2002 Phase I ESA and to further characterize the on-site horizontal and vertical extent of impacted soil and groundwater identified in Stantec's July 2011 Phase II ESA.

In order to further evaluate these prior findings, Stantec performed a Phase I ESA in conformance with this ASTM E 1527-05 concurrent with this Supplemental Phase II ESA. The September 2012 Phase I is presented under separate cover.

1.1 BACKGROUND INFORMATION

It is understood that the site is comprised of $0.248 \pm$ acres of land (SBL No. 135.340-0002-036.000/0000). It is understood that the owner is tax delinquent and that the City of Rochester has obtained a "temporary incidents of ownership" from the State of New York Supreme Court in order to conduct an "environmental restoration investigation" of the property. It is understood that the City is considering foreclosing on the subject property. The property contains a vacant lot with a slab remaining from a former dry cleaner onsite.

In November 2002, Stantec performed a Phase I ESA of twenty-three contiguous parcels in the Brooks Landing Urban Renewal District in conformance with ASTM E 1527-00 Standard Practice for Environmental Site Assessments (ESAs): Phase I Environmental Site Assessment Process. The site was among the twenty-three parcels included in the Phase I ESA. The following recognized environmental conditions (RECs) associated with the site were identified by Stantec in the Phase I ESA Report dated November 2002:

- According to the Polk City Directories and historical maps, 937-941 Genesee Street was occupied by an auto repair facility from 1912 to 1941. In 1946, Riverside Dry Cleaners occupied this property. Riverside Dry Cleaners remained at this property until 1972 when United Dry Cleaners occupied the premises. At the time the November 2002 Phase I ESA was prepared, United Cleaners Laundromat occupied the building.

Stantec completed a Phase II Investigation program that included the adjoining property to the north, 923-927 Genesee Street, in January 2003. Three borings (designated B-144 to B-146) and one monitoring well (PZ-145) were installed on the 923-925 Genesee Street property

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(previously known as 927 Genesee Street). Each of these borings penetrated a variably thick ash-rich fill material. One sample of the fill material was submitted for laboratory analysis that yielded an elevated level of arsenic, and a relatively low concentration of heavy weight petroleum (lube oil) was also detected. In addition to the fill/soil samples, groundwater samples were collected from monitoring well PZ-145. This well was installed in boring B-145 that was situated along the southern boundary of the 923-925 Genesee Street property. The groundwater samples did not yield detectable concentrations of any Volatile Organic Compounds (VOCs) or Total Petroleum Hydrocarbons (TPH).

In addition, a December 2003 subsurface investigation included eleven soil borings spread across 923 and 927 Genesee Street. Soil and groundwater sampling for volatile organic compounds was conducted. The analysis of one shallow subsurface fill sample, two native soil samples and one groundwater sample for VOCs did not yield evidence of impacts from historical auto repair or dry cleaning operations. Nonetheless, the thin veneer of ash and cinder-rich fill material observed in one boring was analyzed for semi-volatile organic compounds (SVOCs), total petroleum hydrocarbons (TPH) and RCRA metals. The analyses yielded results indicating the presence of lube oil, diesel fuel and elevated arsenic concentrations in the fill. TPH analyses on the deeper native soils and groundwater did not yield detectable concentrations.

According to City of Rochester Department of Environmental Services (DES) discussions with other City staff who were involved in the 2009 demolition of the former building at 937 Genesee Street, it is understood that they observed a partially buried 55-gallon drum that was filled with stone, had no bottom and was buried in the floor at the rear of the building. This is suspected to have been a dry well structure and this area was investigated as part of the July 2011 Phase II on the 937 Genesee Street parcel.

As part of the July 2011 Phase II, eight soil test borings (B-1 to B-8) and three monitoring wells (MW-3, MW-6 and MW-7) were installed for the purposes of collecting soil and groundwater samples on the site (see Figure 2). One sediment sample was also collected from a manhole that was identified in the building footprint. The sampling locations included locations near the identified historical features on the property that represented RECs.

The results of the Phase II ESA indicated the presence of VOC impacts in soil and groundwater. VOC concentrations in boring B-3 including the presence of ethylbenzene, 1,2,4-trimethylbenzene and m&p-xylene above New York State Department of Environmental Conservation (NYSDEC) Part 375 and CP-51 soil cleanup objectives (SCOs) for unrestricted use. SED-1, which was collected from sediment within the manhole, contained acetone and methyl ethyl ketone (MEK) concentrations which exceeded NYSDEC Part 375 SCOS for unrestricted use. The TPH analysis indicated that the boring B-2 soil sample contained a medium weight petroleum hydrocarbon matching the lab's diesel fuel standard. Samples B-3 contained medium weight kerosene and heavy weight lube oil, B-4 contained light weight mineral spirits and heavy weight lube oil, B-6 contained light weight mineral spirits, and SED-1 contained medium weight kerosene and heavy weight lube oil. The lab's mineral spirits

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standard is a mixture of several very similar petroleum products included in the mineral spirit category, one of which is Stoddard solvent. Although further distinction was not possible, Stantec concluded from the TPH and the VOC analytical results that one of the sources of the aromatic VOCs detected in the site samples is likely to have been a release of Stoddard solvent from the former dry cleaning facility. Releases from the former auto repair shop are also likely to have affected the site.

Exceedances of groundwater standards for VOCs were detected in MW-3 and MW-6, and a slight exceedance for selenium was detected in MW-7. The greatest concentrations were reported in the area near the manhole in the building slab. The TPH analysis of groundwater samples indicated that the MW-3 sample contained medium weight kerosene and medium weight diesel. The MW-6 sample contained medium weight kerosene.

According to Dr. Richard Young's Groundwater Contour Maps of Monroe County (1980), and based on topographic gradient, regional groundwater flow in the vicinity of the subject property was expected to flow easterly, towards the Genesee River located $515\pm$ feet east of the subject property. During the Phase II ESA conducted in July 2011, water level measurements indicated that the groundwater gradient was very low at 937 Genesee Street with an indication of slight flow toward the east-northeast. Given the significantly lower impacts in the B-7/MW-7 location, which was east of the other sampling locations, it appeared that the contamination was focused on the rear (west) portion of the building near the manhole and dry well. The identified impacts appeared to be consistent with the past uses of the site as a dry cleaner and auto repair facility.

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2.0 Supplemental Phase II Investigation

2.1 INVESTIGATION ACTIVITIES

The investigation program involved soil test borings, soil sampling, overburden monitoring well installation, bedrock monitoring well installation, analysis of bedrock core, well development, groundwater sampling, and installation of biotraps in selected wells.

Subcontracted drilling services were provided by Nothnagle Drilling, Inc. of Scottsville, New York (Nothnagle) using direct push and rotary drilling equipment. Stantec personnel performed technical and health & safety monitoring and logging of drilling activities.

Prior to initiating the drilling program, Nothnagle contacted the Underground Facilities Protective Organization (UFPO), to locate publicly owned utilities in the areas to be investigated. Drilling and sampling activities were performed on August 20-22, 2012. In an effort to evaluate the potential for off-site contaminant migration and given the presence of low-hanging overhead power lines along the western property boundary, which limited the proximity to which a drill rig or backhoe could access this area, two angled overburden borings were installed, one of which was converted to an angled overburden well. Eight additional vertical overburden test borings were installed, and monitoring wells were installed in five of these borings to delineate the lateral extent of on-site impacts. One bedrock well was also installed, including examination of the overburden material and bedrock core, to evaluate the vertical extent of potential impacts. Boring and well locations are shown on Figure 2. The overburden borings were drilled to depths ranging from 7.5 to 20.5 feet below ground surface (ft bgs). At the bedrock well location, bedrock was encountered at 20 ft bgs and the well was drilled to a total depth of 33 ft bgs. Soil conditions for individual borings are described on boring logs provided in Appendix A.

Continuous samples were collected using a 4-foot Macrocore sampler at each soil boring location. Soil samples were screened for the presence of volatile organic vapors using a calibrated photoionization detector (PID) equipped with a 10.6 eV lamp. Portions of each soil sample were placed in individual sealed containers, and the volatile organic vapors that accumulated within the headspace of the containers were screened using the PID. Soil samples were also visually evaluated for indications of staining, oils, fill, etc. Visual screening results are recorded on the test boring logs presented in Appendix A.

Field screening and soil logging results were used to select at least one soil sample from each of the test borings for laboratory analysis, except at B-17 where no sample was submitted because no impacts were observed and refusal was encountered prior to reaching the water table. At BR-19 two soil samples were taken due to the presence of fill material (white ash and black cinders) in the 0 to 2 ft bgs interval. The samples were selected on the basis of the presence of elevated PID readings and visual evidence of potential contamination. If no obvious evidence of potential contamination was observed, then the soil sample was taken at the apparent water table. The soil samples selected are shown on Table 1. Samples were

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submitted to ELS-Spectrum based out of Syracuse, New York (Spectrum). As summarized in Table 1, soil samples were analyzed for: United States Environmental Protection Agency (USEPA) Target Compound List (TCL) and NYSDEC Spill Technology and Remediation Series (STARS) VOCs (TCL/STARS VOCs) and Tentatively Identified Compounds (TICs) (Method 8260), STARS Semi-Volatile Base Neutral compounds (SVBNs) (Method 8270), Total Petroleum Hydrocarbons (TPH) (Method 8015D), selenium (Method 6010), and RCRA metals (Method 6010).

Overburden monitoring wells were constructed with 1-inch diameter PVC. Screen lengths were 5 to 10 feet and straddled the apparent water table. Sand packs were extended over the screen and were overlain by bentonite seals. The wells were completed with flush mounted protective coverings.

The bedrock monitoring well (MW-19D) was constructed with 2-inch PVC with a screen length of 10 feet. The sand pack extended over the screen and is overlain by a bentonite seal. Table 2 details the monitoring well construction. During the bedrock drilling process, approximately 25 gallons of water used for drilling was lost. Roughly 30 gallons of water was purged from the well after the sand pack and bentonite seal were installed.

The overburden monitoring wells were developed in an effort to cleanse them of suspended sediments and reduce turbidities to the maximum extent practicable. Development of each well was performed by Nothnagle using a steel bailer to surge and bail the well, except at MW-14 where a check valve was used. The bailer was decontaminated between each well. Approximately ten times the well volume was purged from each well.

Groundwater sampling was performed on August 27-28, 2012. A water level summary is presented in Table 3. The sampling was performed by Stantec personnel using low-flow methods and equipment. Monitoring of groundwater field parameters was performed during the purging of each well. One groundwater sample was collected from each of the wells, except MW-9 which was dry, and submitted to ELS-Spectrum. As summarized on Table 4, groundwater samples were analyzed for TCL/STARS VOCs, selenium, TPH, and Nitrate, Nitrite, Nitrate-Nitrite and Sulfate (Methods 300.0 and 4500). Well sampling records are presented in Appendix B.

Groundwater samples were collected at MW-3, MW-11, MW-14 and MW-19D to test for remedial parameters which included nitrate, nitrite, nitrate and nitrite, and sulfate. Field analyses were performed on these same four wells for ferrous iron and total iron. Dissolved oxygen (DO), and oxidation-reduction potential (ORP) were measured in the field in all wells using a YSI Pro Quattro flow cell. Ferrous iron and total iron were measured in the field using an acid phenanthroline indicator and a colorimeter. These parameters were measured in order to evaluate a potential remedial approach utilizing monitored natural attenuation (MNA).

The USEPA defines MNA as the “reliance on natural attenuation processes to achieve site-specific remediation objectives within a time frame that is reasonable compared to that offered by other more active methods” (*USEPA, OSWER Directive 9200.4-17P*). These in-situ

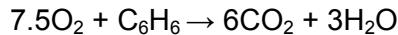
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processes include biodegradation, dispersion, dilution, sorption, volatilization, and chemical destruction of contaminants. For petroleum-impacted sites, biodegradation is the predominant process for plume stabilization. Most sites have millions of bacteria in the soil and groundwater that are readily capable of degrading petroleum hydrocarbons if geochemical conditions are suitable.

Biodegradation of petroleum-related compounds such as benzene, toluene, ethylbenzene and xylenes (BTEX) and other TPH constituents occur naturally when suitable microbial populations and geochemical conditions are present in the subsurface. The major driving force for biological processes involves the transfer of energy in the form of electrons. In the case of petroleum-related compounds, the hydrocarbons act as the electron donor during biodegradation. The mechanisms for aerobic degradation processes where oxygen acts as an electron acceptor are well documented. Indigenous petroleum-degrading microorganisms also exist which follow an anaerobic process for BTEX/TPH degradation using alternative electron acceptors to oxygen. During these processes, more specific bacteria types are involved. Alternative electron acceptors, in order of biological preference, include nitrate (NO_3^-), ferric iron (Fe^{+3}), sulfate (SO_4^{+2}), and to a lesser extent manganese (Mn^{+4}). Other anaerobic processes involve methanogenic bacteria. A comparison of the individual biodegradation processes for petroleum-related compounds are presented below.

Aerobic Respiration:

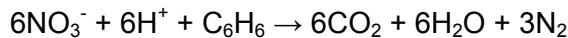


ORP range: >250 mV

Stoichiometric mass ratio: 3.1 to 1

Maximum useful energy yield: -765 kcal/mole

Denitrification:



ORP range: 100 mV to 250 mV

Stoichiometric mass ratio: 4.8 to 1

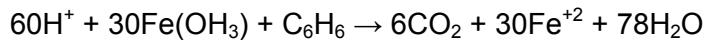
Maximum useful energy yield: -776 kcal/mole

Nitrate reduction provides an energy yield in the same range as the use of oxygen and has been shown to readily result in the degradation of toluene, ethyl benzene, and xylenes. Minimal benzene destruction has been documented as the process may not directly supply sufficient energy to support microbial growth.

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Iron Reduction:



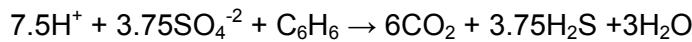
ORP range: 0 mV to 100 mV

Stoichiometric mass ratio: 21 to 1

Maximum useful energy yield: -560 kcal/mole

Naturally-occurring iron typically provides the greatest potential as an electron acceptor in most subsurface environments. The toluene-oxidizing, Fe^{+3} -reducing *Geobacter metallireducens*, was the first organism discovered to degrade aromatic hydrocarbons under strict anaerobic conditions. Microorganisms that utilize this process are capable of complete oxidation of each of the BTEX components. Since Fe^{+3} is reduced to soluble Fe^{+2} during the process, oxidation of this byproduct can provide cyclical reuse of the electron acceptor.

Sulfate Reduction:



ORP range: 0 mV to -200 mV

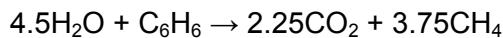
Stoichiometric mass ratio: 4.6 to 1

Maximum useful energy yield: -123 kcal/mole

Subsurface environments typically contain low concentrations of naturally-occurring sulfate. However, due to its relatively high solubility, sulfate possesses great potential for introducing high concentrations of this alternative electron acceptor to stimulate biodegradation. The process has been documented to readily degrade each of the BTEX constituents.

Methanogenesis:

Methanogenesis refers to the process where microbes convert carbon-containing compounds into methane gas under anaerobic or anoxic conditions. The terminal electron acceptor in methanogenesis is carbon, and the process will generally not occur until all other electron acceptors (oxygen, nitrate, ferric iron, and sulfate) have been depleted. An example reaction for methanogenic decomposition of benzene is shown below.



ORP range: < -200 mV

Stoichiometric mass ratio (CO₂): 1.27 to 1

Stoichiometric mass ratio (CH₄): 0.62 to 1

Total product stoichiometric mass ratio: 1.89 to 1

Maximum useful energy yield: -32.4 kcal/mole

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Four Microbial Insights biotrap were installed on August 29, 2012 in MW-6, MW-13, MW-14, and MW-19D in order to analyze for BTEX degrading bacteria. The biotrap were retrieved from the wells on October 1, 2012 and will be analyzed by Microbial Insights for CENSUS-DNA including, Phenol Hydroxylase (PHE), Toluene Dioxygenase (TOD), and Benzyl Succinate Synthase (bssA). The results of the biotrap analyses will be provided in a separate letter report.

Soil cuttings were placed in 55-gallon drums. Drilling equipment was decontaminated prior to use and between borehole locations using an Alconox soap and potable water wash followed by a potable water rinse. Excess soil and water used for drilling the bedrock well were also placed in 55-gallon drums. Spent decontamination solutions and purge water were placed in one 55-gallon drum. The soil cuttings drums and purge water and decontamination water drum were placed neatly on-site pending making the arrangements for disposal.

2.2 INVESTIGATION RESULTS

Groundwater levels taken prior to sampling once again indicate that the groundwater table is relatively flat with a low point at MW-18. Overburden groundwater ranged from 8± to 10± ft bgs and groundwater appears to be flowing to the east or east-northeast.

The B-14 and B-18 locations exhibited elevated PID field screening readings. Peak PID readings reached 510 parts per million (ppm) in B-14 (8-10 ft bgs), and 16.1 ppm in B-18 (6-8 ft bgs). Petroleum odors were noted beginning at around 8 ft bgs in both B-14 and B-18.

A total of 10 feet of bedrock was cored at BR-19 in two runs of three and seven feet each. The bedrock is dolostone and the description is consistent with the Ermosa Dolostone, part of the Lockport formation. Rock quality designation (RQD) was 62% for the first run indicating that the rock mass has fair RQD and 100% for the second run indicating that the rock mass has excellent RQD.

Summaries of the analytical results for soil, including both the 2011 and 2012 Phase II ESAs, are presented in Table 5, and groundwater results are presented in Table 6. Table 5 also presents a comparison of the concentrations detected in site soil/sediment samples to soil cleanup objectives (SCOs) established for assessing health risks at unrestricted use, restricted residential and commercial use sites regulated by the NYSDEC 6 NYCRR Part 375 and NYSDEC CP-51 soil cleanup levels for gasoline contaminated soil and fuel oil contaminated soil. Table 6 presents a comparison of the concentrations of analytes detected in site groundwater samples to groundwater quality standards established by NYSDEC. Copies of the laboratory analytical reports are provided in Appendix C.

2.2.1 Analytical Results for Soil Samples

VOCs for the soil samples analyzed during the supplemental Phase II ESA were below NYSDEC SCOS for unrestricted use at sites subject to 6 NYCRR Part 375 regulations and CP-51 Soil cleanup levels.

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The TPH analysis for B-14 indicated that the sample contained 16 ppm of total extractable hydrocarbons. The lab could not identify the petroleum product detected and found no discernible fuel pattern. Selenium and RCRA metals were below NYSDEC SCOs for unrestricted use at sites subject to 6 NYCRR Part 375 regulations for all soil borings except for the fill material from boring BR-19 where there were exceedances of unrestricted use SCOs for mercury (0.28 ppm) and lead (140 ppm).

One SVOC exceedance was reported in the fill material sample from the BR-19 location for indeno(1,2,3-cd)pyrene which was detected at 510 parts per billion (ppb). The 6 NYCRR Part 375 SCO for restricted residential use and unrestricted use and NYSDEC Policy CP-51 soil cleanup level is 500 ppb for indeno(1,2,3-cd)pyrene.

2.2.2 Analytical Results for Water Samples

As shown on Table 6, samples from MW-3, MW-6 and MW-14 contained compounds detected at concentrations above Technical and Operational Guidance Series 1.1.1 (TOGS 1.1.1) standards and guidance values. The highest concentrations were generally reported in MW-3 which is adjacent to the manhole. The MW-3, MW-6 and MW-14 samples appear to have been impacted by petroleum-based releases. The TPH analysis indicated that the MW-3, MW-6 and MW-14 samples contained compounds resembling the lab's mineral spirits standard.

The field parameters collected during groundwater sampling (see Table 2) indicate that current subsurface conditions are anaerobic (DO < 1.0 mg/L) and reducing (negative ORP). Total iron was found to be highest at MW-3, followed by MW-11. The depletion of electron acceptors in conjunction with biological degradation processes appears to correlate with the identified area of residual petroleum impacts. The utilization of nitrate, ferric iron, and sulfate during biodegradation processes appears to be minimal at wells MW-11, MW-14, and MW-19D. MNA parameter monitoring at MW-3 indicates nitrate levels are becoming depleted, the production of ferrous iron in the groundwater shows use of ferric iron in the soil, and sulfate levels have decreased when compared to concentrations recorded for the other wells. Therefore, anaerobic degradation of petroleum hydrocarbons appears to be occurring within the residual source area in the vicinity of MW-3, with iron and sulfate reduction the main processes being utilized. The MNA parameter monitoring further indicates that biological processes may be becoming rate limited due to the depletion of available electron acceptors.

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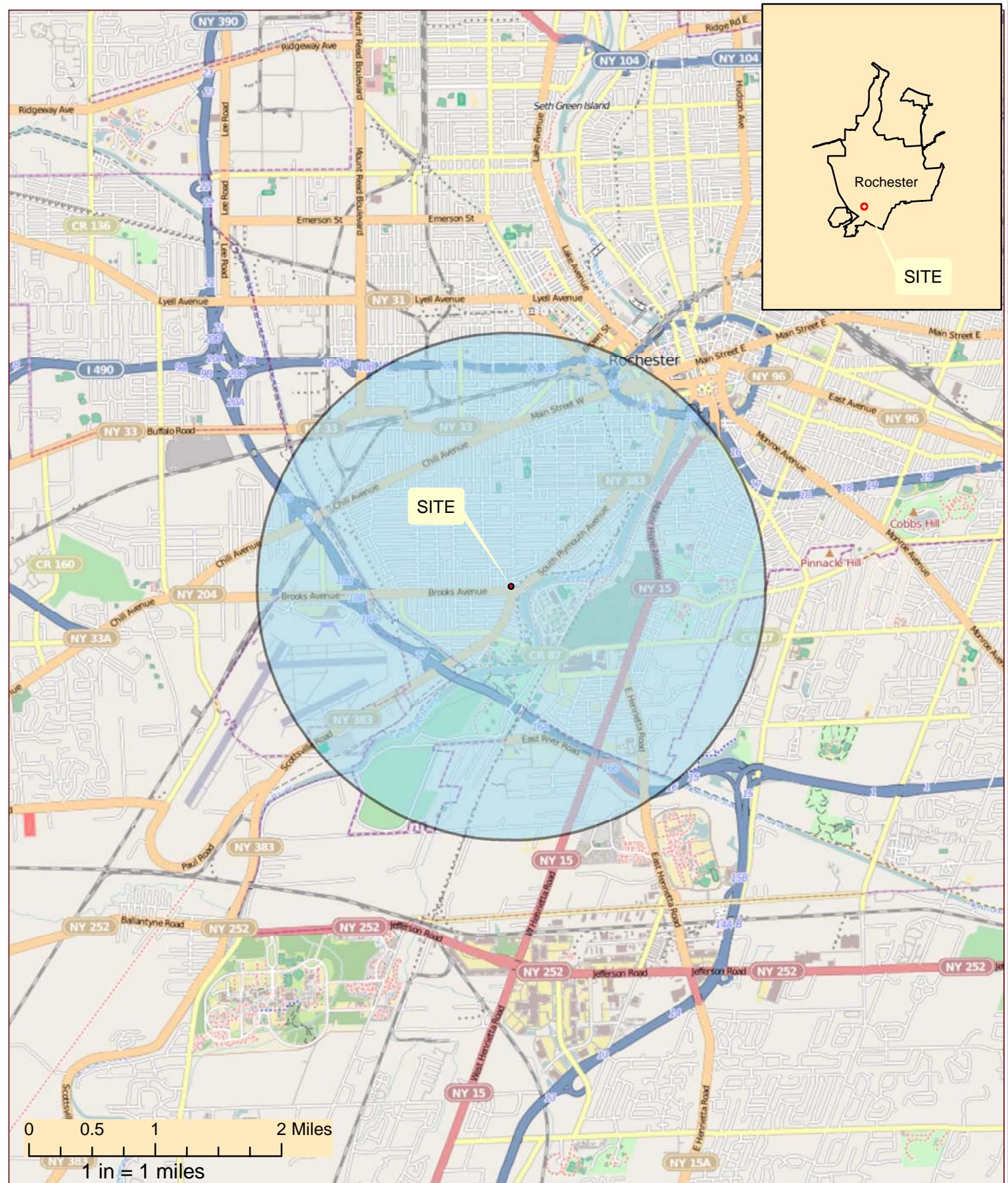
3.0 CONCLUSIONS AND RECOMMENDATIONS

The results of the July 2011 Phase II ESA and October 2012 Supplemental Phase II ESA indicate the presence of Volatile Organic Compound (VOC) impacts in soil and groundwater. Nuisance odors were noted in the July 2011 Phase II ESA borings B-2, B-3, B-4 and B-6 and in the Supplemental Phase II ESA borings B-14 and B-18. VOC concentrations from the July 2011 Phase II ESA exceeded the New York State Department of Environmental Conservation (NYSDEC) SCOs for unrestricted use in boring B-3. SED-1, which is a sample of the sediment from a manhole located on the western portion of the site within the former building footprint, had acetone and methyl ethyl ketone (MEK) concentrations which exceeded NYSDEC Part 375 SCOs for unrestricted use. Selenium was reported above the groundwater standard in MW-7 during the July 2011 Phase II ESA. Concentrations of lead and mercury exceeded the NYSDEC SCOs for unrestricted use and indeno(1,2,3-cd)pyrene exceeded the NYSDEC SCO for restricted residential use in the fill material from B-19. During the Supplemental Phase II, exceedances of groundwater standards for VOCs were detected in MW-3, MW-6, and MW-14. The greatest concentrations were reported in the area near the manhole. Water level measurements indicated that the hydraulic gradient was relatively flat with a slight indication of flow toward the east-northeast with overburden groundwater depths that ranged from 8± to 10± feet below ground surface.

Given the absence of petroleum related impacts in the borings and monitoring wells installed between B-3/MW-3 and B-14/MW-14, it appears that two separate areas of the site have been impacted by petroleum related releases; in addition the lateral extent of these releases appears to have been delineated. The western most impacted area is centered on B-3/MW-3 and B-6/MW-6 near the manhole and dry well. The sources of the impacts appears to have been the past use of the site as a dry cleaner and auto repair facility including probable releases from the manhole and former drywell. The eastern most impacted area is centered on B-14/MW-14. It is suspected that the contamination in this area may have resulted from a release associated with the sewer that serviced the subject property; contamination may also be related to the former onsite presence of a 550-gallon gasoline tank and pump between 1938 and 1941 and a 250-gallon solvent tank between 1947 and 1961, which were identified in Stantec's September 2012 Phase I ESA and the former locations of which are unknown. Based on the soil sample results from the surrounding borings B-15, B-16, B-18, and groundwater sample results from MW-18, it appears that of impacts on the eastern portion of the site are limited to the area adjacent to B-14/MW-14. Given the delineation of these two areas of impact and given that no evidence of impacts was observed in the angled borings at the western property boundary, there is no information to suggest that contamination has migrated offsite.

It is understood that the July 2011 Phase II ESA has been presented to the NYSDEC and spill file No. 1206397 was created. It is recommended that this report also be forwarded to the NYSDEC and a remedial program be developed and implemented that takes into account the potential future redevelopment of the site.

FIGURES



Geographic Information Systems Cartographic Design By: Andrew Less

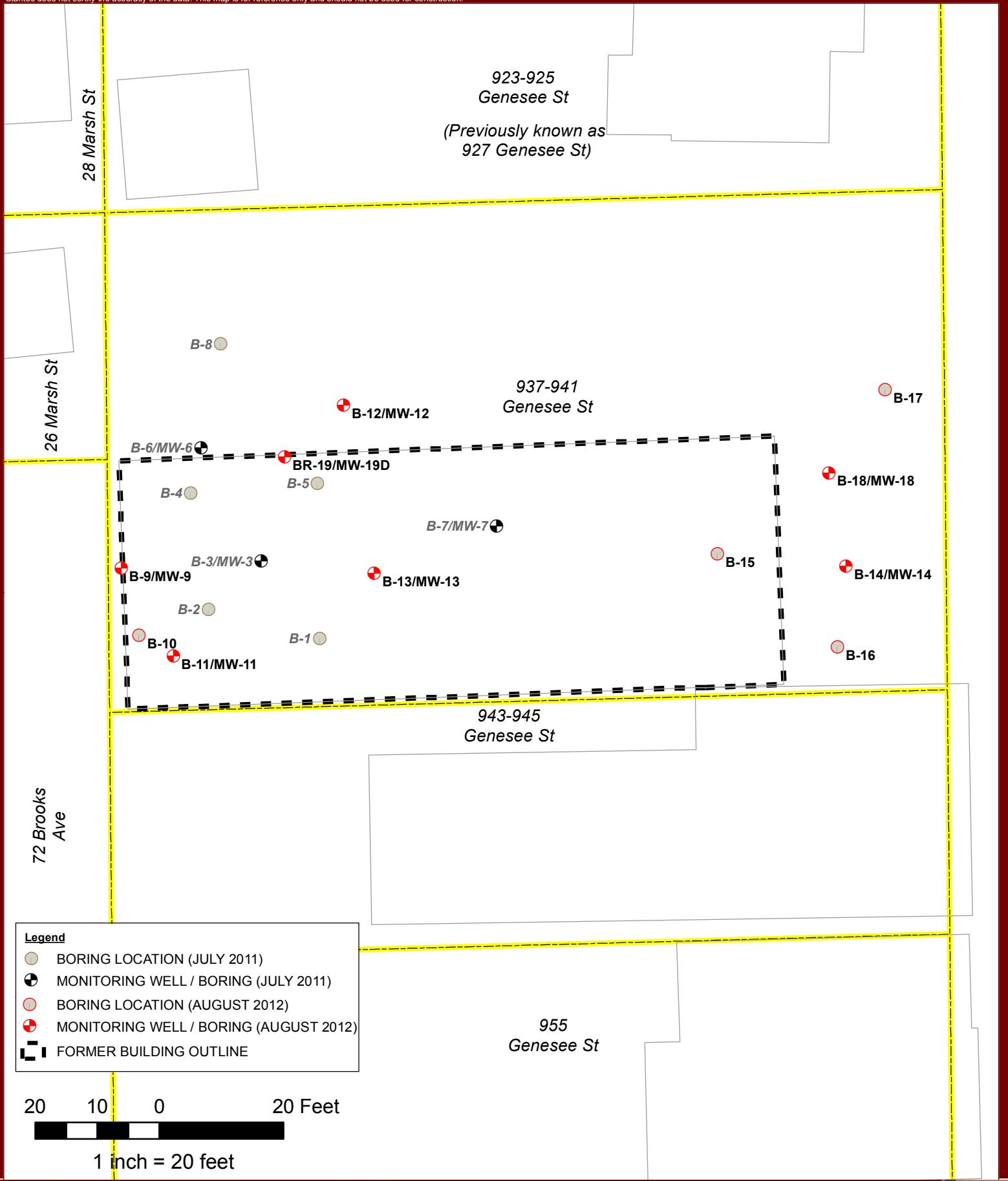
Path: U:\190500696\drawing\GIS\Figure 1- 2 Mile Raduis Location Map_Proposal.mxd

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FIG. 1
PROPERTY LOCATION MAP

937 GENESEE STREET, ROCHESTER, NY



TABLES

TABLE 1
SOIL SAMPLE SUMMARY
Supplemental Phase II ESA
937 Genesee Street
Rochester, New York

Sample ID	Sample Location	Sample Depth (ft bgs)	Sample Date	TCL/STARS VOCs + TICs by EPA Method 8260C	RCRA Metals 6010 C and 7471B	TPH Method 8015D	Selenium Method 6010C	STARS SVBN by EPA Method 8270D
B-9S	B-9	8-12	8/20/2012	X			X	
B-10S	B-10	4-8	8/20/2012	X			X	
B-11S	B-11	16-17.5	8/20/2012	X			X	
B-12S	B-12	8-12	8/20/2012	X			X	
B-13S	B-13	8-12	8/20/2012	X			X	
B-14S	B-14	8-12	8/20/2012	X	X	X		
B-15S	B-15	8-12	8/20/2012	X			X	
B-16S	B-16	8-12	8/20/2012	X			X	
B-18S	B-18	8-12	8/20/2012	X	X			
BR-19S	B-19	12-16	8/21/2012	X			X	
BR-19FILL	B-19	0-2	8/21/2012		X			X

Key:

EPA = United States Environmental Protection Agency

STARS = Spill Technology and Remediation Series

VOCs = Volatile Organic Compounds

SVBN = Semivolatile Base Neutral Compounds

TICs = Tentatively Identified Compounds

RCRA = Resource Conservation and Recovery Act

TPH = Total Petroleum Hydrocarbons

ft bgs = Feet below ground surface

TABLE 2
WELL COMPLETION SUMMARY
Supplemental Phase II ESA
937 Genesee Street
Rochester, New York

Well	Well Diameter (in)	Bentonite Seal (ft bgs)	Sandpack Interval (ft bgs)	Screened Interval (ft bgs)	Total Depth (ft bgs)
MW-3	2.0	2 - 4.5	4.5 - 11.6	6.6 - 11.6	11.6
MW-6	2.0	2.3 - 5.2	5.2 - 12.3	7.3 - 12.3	12.3
MW-7	2.0	1 - 6.3	6.3 - 13.6	8.6 - 13.6	13.6
MW-9	1.0	1 - 4.3	4.3 - 11.3	6.3 - 11.3	11.3
MW-11	1.0	1 - 4.8	4.8 - 16.8	6.8 - 16.8	16.8
MW-12	1.0	1 - 7.8	7.8 - 9.8	9.8 - 19.8	19.8
MW-13	1.0	1 - 1.7	1.7 - 13.7	3.7 - 13.7	13.7
MW-14	1.0	1 - 3.6	3.6 - 5.6	5.6 - 15.6	15.6
MW-18	1.0	1 - 3.3	3.3 - 5.3	5.3 - 15.3	15.3
MW-19D	2.0	0.67 - 21.6	21.6 - 32.6	23.6 - 32.6	32.6

Key:

ft bgs = Feet below ground surface

in = Inches

D = Bedrock well

TABLE 3
OVERBURDEN WATER LEVEL SUMMARY

Supplemental Phase II ESA
937 Genesee Street
Rochester, New York

Well	TOIC Reference Elevation (ft*)	8/27/2012	
		Water Level (ft btoic)	Water Elevation (ft)
MW-3	100.00	10.10	89.90
MW-6	100.06	10.10	89.96
MW-7	101.36	11.36	90.00
MW-11	100.48	10.51	89.97
MW-12	100.50	10.50	90.00
MW-13	101.62	11.63	89.99
MW-14	100.60	10.85	89.75
MW-18	100.38	10.67	89.71

Key:

TOIC = top of inner casing.

btoic = Below top of inner casing.

ft = Feet.

* = Arbitrary site-specific datum.

TABLE 4
GROUNDWATER SAMPLE SUMMARY

Supplemental Phase II ESA
 937 Genesee Street
 Rochester, New York

Sample ID	Sample Location	Date	Method	Parameters				
				TCL/STARS VOCs by EPA Method 8260C	TPH Method 8015D	Selenium Method 6010C	Nitrate, Nitrite, Nitrate-Nitrite Method SM18 4500	Sulfate Method SM15-426C
MW-3-W	MW-3	08/28/12	Peristaltic Pump	X	X	X	X	X
MW-6-W	MW-6	08/27/12	Peristaltic Pump	X	X	X		
MW-7-W	MW-7	08/28/12	Peristaltic Pump	X		X		
MW-11-W	MW-11	08/28/12	Peristaltic Pump	X		X	X	X
MW-12-W	MW-12	08/27/12	Peristaltic Pump	X		X		
MW-13-W	MW-13	08/27/12	Peristaltic Pump	X		X		
MW-14-W	MW-14	08/28/12	Peristaltic Pump	X	X	X	X	X
MW-18-W	MW-18	08/28/12	Peristaltic Pump	X		X		
MW-19D-W	MW-19D	08/27/12	Peristaltic Pump	X		X	X	X

Key:

EPA = United States Environmental Protection Agency

STARS = Spill Technology and Remediation Series

VOCs = Volatile Organic Compounds

TCL = Target Compound List

TPH = Total Petroleum Hydrocarbons

Table 5

**Summary of Analytical Results in Soil
May 2011 and August 2012 Sampling
937 Genesee Street, Rochester, NY**

Sample Location				B2	23-May-11	23-May-11	B3	24-May-11	24-May-11	B4	23-May-11	23-May-11	B6	23-May-11	23-May-11	B-9S	20-Aug-12	20-Aug-12	20-Aug-12	B-10S	20-Aug-12	B-11S	B-12S	B-13S	B-14S	B-15S	B-16S		
Sample Date				B2 (4-4.8)	B2 (4-4.8)	B2 (4-4.8)	B3 (6-8)	B3 (6-8)	B4 (7.5-8)	B4 (7.5-8)	B6 (7-8)	B6 (7-8)	B-9S	B-9S	B-10S	B-10SDUP	B-10S	B-10SDUP	B-10S	B-10SDUP	B-11S	B-12S	B-13S	B-14S	B-15S	B-16S			
Sample ID				4 - 4.8 ft	4 - 4.8 ft	6 - 8 ft	B3 (6-8)	B3 (6-8)	7.5 - 8 ft	7.5 - 8 ft	7 - 8 ft	7 - 8 ft	B-9S	B-9S	B-10S	B-10SDUP	8 - 12 ft	8 - 12 ft	16 - 17.5 ft	B-11S	B-12S	B-13S	B-14S	B-15S	B-16S				
Sample Depth				STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC		
Sampling Company				PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH		
Laboratory				P11-2070	P11-2070R	P11-2085	P11-2085R	P11-2070	P11-2070R	P11-2070R	P11-2070R	P11-2070R	P11-2070R	P11-2070R	P11-2070R	P11-2070R	P11-2070R	P11-2070R	P11-2070R	P11-2070R	P11-2070R	P11-2070R	P11-2070R	P11-2070R	P11-2070R	P11-2070R	P11-2070R		
Laboratory Work Order				7014	7014R	7057	7057R	7017	7017R	7016	7016R	7016R	7016R	7016R	7016R	7016R	7016R	7016R	7016R										
Laboratory Sample ID																													
Sample Type	Units	6NYCRR	NYSDEC																										
General Chemistry																													
Moisture Content	%	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	8.0 J	12	14.63	11	13	8.0 J	9.4 J	14	15				
Petroleum Hydrocarbons																													
Heavy Weight PHC as: Lube Oil	µg/kg	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	14200	-	-	-	-	-	-	-	-	-	-		
Light Weigh PHC as: Mineral Spirits	µg/kg	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	228000	-	38400	-	-	-	-	-	-	-	-		
Medium Weight PHC as: Diesel Fuel	µg/kg	n/v	n/v	-	1580000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Medium Weight PHC as: Kerosene	µg/kg	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	616000	-	-	-	-	-	-	-	-	-	-		
Total Extractable Hydrocarbons	mg/kg	n/v	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-	-		
Metals																													
Arsenic	mg/kg	16 ^{AB} 13 ^C	n/v	-	-	-	3.78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.4	-	-		
Barium	mg/kg	400 ^{AB} 350 ^C	n/v	-	-	-	26.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21 B	-	-		
Cadmium	mg/kg	9.3 ^A 4.3 ^B 2.5 ^C	n/v	-	-	-	0.499 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.21 U	-	-		
Chromium (Total)	mg/kg	NS _a NS _a NS _a	n/v	-	-	-	5.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.1	-	-		
Lead	mg/kg	1000 ^A 400 ^B 63 ^C	n/v	-	-	-	15.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.6	-	-		
Mercury	mg/kg	2.8 ^A 0.81 ^B 0.18 ^C	n/v	-	-	-	0.0085 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0034 J	-	-		
Selenium	mg/kg	1500 ^A 180 ^B 3.9 ^C	n/v	-	-	-	0.997 U	-	-	-	-	-	-	-	-	-	1.7	1.4 U	-	1.5	1.5 U	1.1 J	0.76 J	1.2 U	1.1 J	-	-		
Silver	mg/kg	1500 ^A 180 ^B 2 ^C	n/v	-	-	-	0.997 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.2 U	-	-		
Semi - Volatile Organic Compounds																													
Acenaphthene	µg/kg	500000 ^A 100000 ^B 20000 ^C	20000 ^E	-	-	-	312 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Acenaphthylene	µg/kg	500000 ^A 100000 ^B 100000 ^C	100000 ^E	-	-	-	312 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Anthracene	µg/kg	500000 ^A 100000 ^B 100000 ^C	100000 ^E	-	-	-	312 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)anthracene	µg/kg	5600 ^A 1000 ^B 1000 ^C	1000 ^E	-	-	-	312 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)pyrene	µg/kg	1000 ^A 1000 ^B 1000 ^C	1000 ^E	-	-	-	312 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(b)fluoranthene	µg/kg	5600 ^A 1000 ^B 1000 ^C	1000 ^E	-	-	-	312 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(g,h,i)perylene	µg/kg	500000 ^A 100000 ^B 10000 ^C	100000 ^E	-	-	-	312 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(k)fluoranthene	µg/kg	56000 ^A 3900 ^B 800 ^C	800 ^E	-	-	-	312 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chrysene	µg/kg	56000 ^A 3900 ^B 1000 ^C	1000 ^E	-	-	-	312 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dibenzo(a,h)anthracene	µg/kg	560 ^A 330 ^B 330 ^C	330 ^E	-	-	-	312 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluoranthene	µg/kg	500000 ^A 100000 ^B 100000 ^C	100000 ^E	-	-	-	312 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fluorene	µg/kg	500000 ^A 100000 ^B 30000 ^C	30000 ^E	-	-	-	312 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	µg/kg	5600 ^A 500 ^B 500 ^C	500 ^E	-	-	-	312 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Naphthalene	µg/kg	500000 ^A 100000 ^B 12000 ^C	12000 ^{DE}	-	-	-	594	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Phenanthrene	µg/kg	500000 ^A 100000 ^B 10000 ^C	100000 ^E	-	-	-	312 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pyrene	µg/kg	500000 ^A 100000 ^B 10000 ^C	100000 ^E	-	-	-	312 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Volatile Organic Compounds																													
Acetone	µg/kg	500000 ^A 100000 ^B 50 ^C	n/v	138 U	-	-	114 U	-	-	784 U	-	-	10.5 U	-	-	6.3 U	5.5 U	-	-	5.6 U	6.2 J	4.9 U	6.3 U	7.1 U	7.0 U				
Benzene	µg/kg	44000 ^A 4800 ^B 60 ^C	60 ^{DE}	138 U	-	-	114 U	-	-	784 U	-	-	10.5 U	-	-	6.3 U	5.5 U	-	-	5.6 U	6.3 U	4.9 U	6.3 U	7.1 U	7.0 U				

See last page for notes.

Table 5

Summary of Analytical Results in Soil
May 2011 and August 2012 Sampling
937 Genesee Street, Rochester, NY

Sample Location				B2	23-May-11	B2	23-May-11	B3	24-May-11	B3	24-May-11	B4	23-May-11	B6	23-May-11	B9S	20-Aug-12	B10S	20-Aug-12	B10S	20-Aug-12	B11S	20-Aug-12	B12S	20-Aug-12	B13S	20-Aug-12	B14S	20-Aug-12	B15S	20-Aug-12	B16S
Sample Date				B2 (4-4.8)	B2 (4-4.8)	B3 (6-8)	B3 (6-8)	B4 (7.5-8)	B4 (7.5-8)	B6 (7-8)	B6 (7-8)	STANTEC	STANTEC																			
Sample Depth				4 - 4.8 ft	4 - 4.8 ft	6 - 8 ft	6 - 8 ft	7.5 - 8 ft	7.5 - 8 ft	7 - 8 ft	7 - 8 ft	STANTEC	STANTEC																			
Sampling Company				PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	SPECTRUM	SPECTRUM	SPECTRUM														
Laboratory				P11-2070	P11-2070R	P11-2085	P11-2085R	P11-2070	P11-2070R	P11-2070	P11-2070R	P11-2070	P11-2070R	P11-2070	P11-2070R	L1794	L1794	L1794														
Laboratory Work Order				7014	7014R	7057	7057R	7017	7017R	7016	7016R	L1794-01	L1794-02	L1794-01																		
Laboratory Sample ID																																
Sample Type	Units	6NYCRR	NYSDEC																													
Volatile Organic Compounds																																
Chlorobenzene (Monochlorobenzene)	µg/kg	500000 ^c 100000 _b 1100 ^c	n/v	138 U	-	114 U	-	784 U	-	10.5 U	-	6.3 U	5.5 U	-	5.6 U	6.3 U	4.9 U	6.3 U	7.1 U	7.0 U												
Chloroethane (Ethyl Chloride)	µg/kg	500000 ^c 100000 _b 100000 _a ^c	n/v	138 U	-	114 U	-	784 U	-	10.5 U	-	6.3 U	5.5 U	-	5.6 U	6.3 U	4.9 U	6.3 U	7.1 U	7.0 U												
Chloroethyl Vinyl Ether, 2-	µg/kg	n/v	n/v	692 U	-	568 U	-	3920 U	-	52.3 U	-	6.3 U	5.5 U	-	5.6 U	6.3 U	4.9 U	6.3 U	7.1 U	7.0 U												
Chloroform (Trichloromethane)	µg/kg	350000 ^a 49000 ^b 370 ^c	n/v	138 U	-	114 U	-	784 U	-	10.5 U	-	6.3 U	5.5 U	-	5.6 U	6.3 U	4.9 U	6.3 U	7.1 U	7.0 U												
Chloromethane	µg/kg	500000 ^a 100000 _b 100000 _a ^c	n/v	138 U	-	114 U	-	784 U	-	10.5 U	-	6.3 U	5.5 U	-	5.6 U	6.3 U	4.9 U	6.3 U	7.1 U	7.0 U												
Dibromochloromethane	µg/kg	500000 ^a 100000 _b 100000 _a ^c	n/v	138 U	-	114 U	-	784 U	-	10.5 U	-	6.3 U	5.5 U	-	5.6 U	6.3 U	4.9 U	6.3 U	7.1 U	7.0 U												
Dichlorobenzene, 1,2-	µg/kg	500000 ^c 100000 _b 1100 ^c	n/v	138 U	-	114 U	-	784 U	-	10.5 U	-	6.3 U	5.5 U	-	5.6 U	6.3 U	4.9 U	6.3 U	7.1 U	7.0 U												
Dichlorobenzene, 1,3-	µg/kg	280000 ^a 49000 ^b 2400 ^c	n/v	138 U	-	114 U	-	784 U	-	10.5 U	-	6.3 U	5.5 U	-	5.6 U	6.3 U	4.9 U	6.3 U	7.1 U	7.0 U												
Dichlorobenzene, 1,4-	µg/kg	130000 ^a 1800 ^c	n/v	138 U	-	114 U	-	784 U	-	10.5 U	-	6.3 U	5.5 U	-	5.6 U	6.3 U	4.9 U	6.3 U	7.1 U	7.0 U												
Dichloroethane, 1,1-	µg/kg	240000 ^a 26000 ^b 270 ^c	n/v	138 U	-	114 U	-	784 U	-	10.5 U	-	6.3 U	5.5 U	-	5.6 U	6.3 U	4.9 U	6.3 U	7.1 U	7.0 U												
Dichloroethane, 1,2-	µg/kg	30000 ^a 3100 ^b 20 _m ^c	n/v	138 U	-	114 U	-	784 U	-	10.5 U	-	6.3 U	5.5 U	-	5.6 U	6.3 U	4.9 U	6.3 U	7.1 U	7.0 U												
Dichloroethylene, 1,1-	µg/kg	500000 ^a 100000 _b 330 ^c	n/v	138 U	-	114 U	-	784 U	-	10.5 U	-	6.3 U	5.5 U	-	5.6 U	6.3 U	4.9 U	6.3 U	7.1 U	7.0 U												
Dichloroethylene, cis-1,2-	µg/kg	500000 ^a 100000 _b 250 ^c	n/v	138 U	-	114 U	-	784 U	-	10.5 U	-	6.3 U	5.5 U	-	5.6 U	6.3 U	4.9 U	6.3 U	7.1 U	7.0 U												
Dichloroethylene, trans-1,2-	µg/kg	500000 ^a 100000 _b 190 ^c	n/v	138 U	-	114 U	-	784 U	-	10.5 U	-	6.3 U	5.5 U	-	5.6 U	6.3 U	4.9 U	6.3 U	7.1 U	7.0 U												
Dichloropropane, 1,2-	µg/kg	500000 ^a 100000 _b 100000 _a ^c	n/v	138 U	-	114 U	-	784 U	-	10.5 U	-	6.3 U	5.5 U	-	5.6 U	6.3 U	4.9 U	6.3 U	7.1 U	7.0 U												
Dichloropropene, cis-1,3-	µg/kg	500000 ^a 100000 _b 100000 _a ^c	n/v	138 U	-	114 U	-	784 U	-	10.5 U	-	6.3 U	5.5 U	-	5.6 U	6.3 U	4.9 U	6.3 U	7.1 U	7.0 U												
Dichloropropene, trans-1,3-	µg/kg	500000 ^a 100000 _b 100000 _a ^c	n/v	138 U	-	114 U	-	784 U	-	10.5 U	-	6.3 U	5.5 U	-	5.6 U	6.3 U	4.9 U	6.3 U	7.1 U	7.0 U												
Ethylbenzene	µg/kg	390000 ^a 41000 ^b	1000 ^{DE}	138 U	-	1520 ^{CDE}	-	784 U	-	10.5 U	-	6.3 U	5.5 U	-	5.6 U	6.3 U	4.9 U	6.3 U	7.1 U	7.0 U												
Hexanone, 2- (Methyl Butyl Ketone)	µg/kg	500000 ^a 100000 _b 100000 _a ^c	n/v	346 U	-	284 U	-																									

Table 5

Summary of Analytical Results in Soil
May 2011 and August 2012 Sampling
937 Genesee Street, Rochester, NY

Sample Location				B-18S	B-18SDUP	B-19 FILL	BR-19 FILL	B-19S	BR-19 SDUP	SED1	
Sample Date				20-Aug-12	20-Aug-12	21-Aug-12	BR-19 FILL	21-Aug-12	BR-19 SDUP	23-May-11	23-May-11
Sample ID				B-18S	B-18SDUP	0 - 2 ft	BR-19 FILL	12 - 16 ft	BR-19 SDUP	SED1	SED1
Sample Depth				8 - 12 ft						2 - 3 ft	2 - 3 ft
Sampling Company				STANTEC	SPECTRUM	STANTEC	SPECTRUM	STANTEC	SPECTRUM	STANTEC	STANTEC
Laboratory				SPECTRUM	SPECTRUM	SPECTRUM	SPECTRUM	SPECTRUM	SPECTRUM	PARAROCH	PARAROCH
Laboratory Work Order				L1794	L1794	L1803	L1803	L1803	L1803	P11-2070	P11-2070R
Laboratory Sample ID				L1794-10	L1794-10DUP	L1803-01	L1803-01DUP	L1803-02	L1803-02DUP	7013	7013R
Sample Type	Units	6NYCRR	NYSDEC								
General Chemistry											
Moisture Content	%	n/v	n/v	11	-	17	-	12	-	-	-
Petroleum Hydrocarbons											
Heavy Weight PHC as: Lube Oil	µg/kg	n/v	n/v	-	-	-	-	-	-	-	1240000
Light Weight PHC as: Mineral Spirits	µg/kg	n/v	n/v	-	-	-	-	-	-	-	-
Medium Weight PHC as: Diesel Fuel	µg/kg	n/v	n/v	-	-	-	-	-	-	-	-
Medium Weight PHC as: Kerosene	µg/kg	n/v	n/v	-	-	-	-	-	-	-	64200
Total Extractable Hydrocarbons	mg/kg	n/v	n/v	-	-	-	-	-	-	-	-
Metals											
Arsenic	mg/kg	16 ^{AB} 13 ^C	n/v	3.2	3.701	8.0	-	-	-	-	-
Barium	mg/kg	400 ^{AB} 350 ^C	n/v	21 B	22.01 B	53 B	-	-	-	-	-
Cadmium	mg/kg	9.3 ^A 4.3 ^B 2.5 ^C	n/v	0.041 J	0.07377 JR	0.28	-	-	-	-	-
Chromium (Total)	mg/kg	NS,q NS,q NS,q	n/v	6.1	6.184	12 B	-	-	-	-	-
Lead	mg/kg	1000 ^A 400 ^B 63 ^C	n/v	7.2	11.03 R	140 ^C	-	-	-	-	-
Mercury	mg/kg	2.8 ^A 0.81 ^B 0.18 ^C	n/v	0.038 U	-	0.28 ^C	0.09892 R	-	-	-	-
Selenium	mg/kg	1500 ^A 180 ^B 3.9 ^C	n/v	0.68 J	0.8537 JR	1.7 U	-	1.4	1.449	-	-
Silver	mg/kg	1500 ^A 180 ^B 2 ^C	n/v	1.1 U	1.1 U	1.7 U	-	-	-	-	-
Semi - Volatile Organic Compounds											
Acenaphthene	µg/kg	500000 ^A 100000 ^B 20000 ^C	20000 ^E	-	-	390 U	-	-	-	-	-
Acenaphthylene	µg/kg	500000 ^A 100000 ^B 100000 ^C	100000 ^E	-	-	-	-	-	-	-	-
Anthracene	µg/kg	500000 ^A 100000 ^B 100000 ^C	100000 ^E	-	-	390 U	-	-	-	-	-
Benzo(a)anthracene	µg/kg	5600 ^A 1000 ^B 1000 ^C	1000 ^E	-	-	130 J	-	-	-	-	-
Benzo(a)pyrene	µg/kg	1000 ^A 1000 ^C	1000 ^E	-	-	180 J	-	-	-	-	-
Benzo(b)fluoranthene	µg/kg	5600 ^A 1000 ^B 1000 ^C	1000 ^E	-	-	570	-	-	-	-	-
Benzo(g,h,i)perylene	µg/kg	500000 ^A 100000 ^B BC	100000 ^E	-	-	700	-	-	-	-	-
Benzo(k)fluoranthene	µg/kg	56000 ^A 3900 ^B 800 ^C	800 ^E	-	-	190 J	-	-	-	-	-
Chrysene	µg/kg	56000 ^A 3900 ^B 1000 ^C	1000 ^E	-	-	250 J	-	-	-	-	-
Dibenzo(a,h)anthracene	µg/kg	560 ^A 330 ^B 330 ^C	330 ^E	-	-	390 U	-	-	-	-	-
Fluoranthene	µg/kg	500000 ^A 100000 ^B 100000 ^C	100000 ^E	-	-	160 J	-	-	-	-	-
Fluorene	µg/kg	500000 ^A 100000 ^B 30000 ^C	30000 ^E	-	-	390 U	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/kg	5600 ^A 500 ^B 500 ^C	500 ^E	-	-	510 ^{BCE}	-	-	-	-	-
Naphthalene	µg/kg	500000 ^A 100000 ^B 12000 ^C	12000 ^{DE}	-	-	390 U	-	-	-	-	-
Phenanthrene	µg/kg	500000 ^A 100000 ^B BC	100000 ^E	-	-	120 J	-	-	-	-	-
Pyrene	µg/kg	500000 ^A 100000 ^B BC	100000 ^E	-	-	230 J	-	-	-	-	-
Volatile Organic Compounds											
Acetone	µg/kg	500000 ^A 100000 ^B 50 ^C	n/v	5.2 U	-	-	-	5.4 U	-	1080 ^C	-
Benzene	µg/kg	44000 ^A 4800 ^B 60 ^C	60 ^{DE}	5.2 U	-	-	-	5.4 U	-	15.9 U	-
Bromodichloromethane	µg/kg	500000 ^A 100000 ^B 100000 ^C	n/v	5.2 U	-	-	-	5.4 U	-	15.9 U	-
Bromoform (Tribromomethane)	µg/kg	500000 ^A 100000 ^B 100000 ^C	n/v	5.2 U	-	-	-	5.4 U	-	39.9 U	-
Bromomethane (Methyl bromide)	µg/kg	500000 ^A 100000 ^B 100000 ^C	n/v	5.2 U	-	-	-	5.4 U	-	15.9 U	-
Butylbenzene, n-	µg/kg	500000 ^A 100000 ^B 12000 ^C	12000 ^{DE}	5.2 U	-	-	-	5.4 U	-	57.9	-
Butylbenzene, sec- (2-Phenylbutane)	µg/kg	500000 ^A 100000 ^B 11000 ^C	11000 ^{DE}	2.7 J	-	-	-	5.4 U	-	34.4	-
Butylbenzene, tert-	µg/kg	500000 ^A 100000 ^B 5900 ^C	5900 ^{DE}	5.2 U	-	-	-	5.4 U	-	15.9 U	-
Carbon Disulfide	µg/kg	500000 ^A 100000 ^B 100000 ^C	n/v	5.2 U	-	-	-	5.4 U	-	18.0	-
Carbon Tetrachloride (Tetrachloromethane)	µg/kg	2200 ^A 2400 ^B 760 ^C	n/v	5.2 U	-	-	-	5.4 U	-	15.9 U	-

See last page for notes.

Table 5

Summary of Analytical Results in Soil
May 2011 and August 2012 Sampling
937 Genesee Street, Rochester, NY

Sample Location				B-18S 20-Aug-12 B-18S 8 - 12 ft	B-18S 20-Aug-12 B-18SDUP	B-19 FILL 21-Aug-12 BR-19 FILL 0 - 2 ft	B-19 FILL 21-Aug-12 BR-19 FILLDUP	B-19S 21-Aug-12 BR-19 S 12 - 16 ft	B-19S 21-Aug-12 BR-19 SDUP	SED1 23-May-11 SED1 2 - 3 ft	SED1 23-May-11 SED1 2 - 3 ft	
Sample Date				STANTEC SPECTRUM L1794	STANTEC SPECTRUM L1794	STANTEC SPECTRUM L1803	STANTEC SPECTRUM L1803	STANTEC SPECTRUM L1803	STANTEC PARAROCH P11-2070	STANTEC PARAROCH P11-2070R	STANTEC PARAROCH 7013	
Sample ID				L1794-10	L1794-10DUP	L1803-01	L1803-01DUP	L1803-02	L1803-02DUP	L1803	L1803	
Sampling Company				NYSDEC	NYSDEC	NYSDEC	NYSDEC	NYSDEC	NYSDEC	NYSDEC	NYSDEC	
Laboratory												
Laboratory Work Order												
Laboratory Sample ID												
Sample Type	Units	6NYCRR										
Volatile Organic Compounds												
Chlorobenzene (Monochlorobenzene)	µg/kg	500000 ^A 100000 _b 1100 ^C	n/v	5.2 U	-	-	-	5.4 U	-	15.9 U	-	-
Chloroethane (Ethyl Chloride)	µg/kg	500000 ^A 100000 _b 100000 _a ^C	n/v	5.2 U	-	-	-	5.4 U	-	15.9 U	-	-
Chloroethyl Vinyl Ether, 2-	µg/kg	n/v	n/v	5.2 U	-	-	-	5.4 U	-	79.7 U	-	-
Chloroform (Trichloromethane)	µg/kg	350000 ^A 49000 ^B 370 ^C	n/v	5.2 U	-	-	-	5.4 U	-	15.9 U	-	-
Chloromethane	µg/kg	500000 ^A 100000 _b 100000 _a ^C	n/v	5.2 U	-	-	-	5.4 U	-	15.9 U	-	-
Dibromochloromethane	µg/kg	500000 ^A 100000 _b 100000 _a ^C	n/v	5.2 U	-	-	-	5.4 U	-	15.9 U	-	-
Dichlorobenzene, 1,2-	µg/kg	500000 ^c 100000 _b 1100 ^C	n/v	5.2 U	-	-	-	5.4 U	-	15.9 U	-	-
Dichlorobenzene, 1,3-	µg/kg	280000 ^A 49000 ^B 2400 ^C	n/v	5.2 U	-	-	-	5.4 U	-	15.9 U	-	-
Dichlorobenzene, 1,4-	µg/kg	130000 ^{A,B} 1800 ^C	n/v	5.2 U	-	-	-	5.4 U	-	15.9 U	-	-
Dichloroethane, 1,1-	µg/kg	240000 ^A 26000 ^B 270 ^C	n/v	5.2 U	-	-	-	5.4 U	-	15.9 U	-	-
Dichloroethane, 1,2-	µg/kg	30000 ^A 3100 ^B 20 _m ^C	n/v	5.2 U	-	-	-	5.4 U	-	15.9 U	-	-
Dichloroethene, 1,1-	µg/kg	500000 ^A 100000 _b 330 ^C	n/v	5.2 U	-	-	-	5.4 U	-	15.9 U	-	-
Dichloroethylene, cis-1,2-	µg/kg	500000 ^c 100000 _b 250 ^C	n/v	5.2 U	-	-	-	5.4 U	-	15.9 U	-	-
Dichloroethylene, trans-1,2-	µg/kg	500000 ^c 100000 _b 190 ^C	n/v	5.2 U	-	-	-	5.4 U	-	15.9 U	-	-
Dichloropropane, 1,2-	µg/kg	500000 ^A 100000 _b 100000 _a ^C	n/v	5.2 U	-	-	-	5.4 U	-	15.9 U	-	-
Dichloropropene, cis-1,3-	µg/kg	500000 ^A 100000 _b 100000 _a ^C	n/v	5.2 U	-	-	-	5.4 U	-	15.9 U	-	-
Dichloropropene, trans-1,3-	µg/kg	500000 ^c 100000 _b 100000 _a ^C	n/v	5.2 U	-	-	-	5.4 U	-	15.9 U	-	-
Ethylbenzene	µg/kg	390000 ^A 41000 ^{B,C}	1000 ^{DE}	1.1 J	-	-	-	5.4 U	-	21.0	-	-
Hexanone, 2- (Methyl Butyl Ketone)	µg/kg	500000 ^A 100000 _b 100000 _a ^C	n/v	5.2 U	-	-	-	5.4 U	-	39.9 U	-	-
Isopropylbenzene	µg/kg	500000 ^A 100000 _b 100000 _a ^C	2300 ^{DE}	1.5 J	-	-	-	5.4 U	-	17.9	-	-
Isopropyltoluene, p- (Cymene)	µg/kg	500000 ^A 100000 _b 100000 _a ^C	10000 ^{DE}	5.2 U	-	-	-	5.4 U	-	89.1	-	-
Methyl Ethyl Ketone (MEK)	µg/kg	500000 ^A 100000 _b 120 ^C	n/v	5.2 U	-	-	-	5.4 U	-	284^C	-	-
Methyl Isobutyl Ketone (MBK)	µg/kg	500000 ^A 100000 _b 100000 _a ^C	n/v	5.2 U	-	-	-	5.4 U	-	39.9 U	-	-
Methyl tert-butyl ether (MTBE)	µg/kg	500000 ^A 100000 _b 930 ^C	930 ^D	5.2 U	-	-	-	5.4 U	-	15.9 U	-	-
Methylene Chloride (Dichloromethane)	µg/kg	500000 ^{A,C} 100000 _b ^B	n/v	3.4 BJ	-	-	-	4.0 BJ	-	39.9 U	-	-
Naphthalene	µg/kg	500000 ^A 100000 _b 12000 ^C	12000 ^{DE}	5.2 U	-	-	-	5.4 U	-	264	-	-
Propylbenzene, n-	µg/kg	500000 ^A 100000 _b 3900 ^C	3900 ^{DE}	1.2 J	-	-	-	5.4 U	-	44.5	-	-
Styrene	µg/kg	500000 ^A 100000 _b 100000 _a ^C	n/v	5.2 U	-	-	-	5.4 U	-	39.9 U	-	-
Tetrachloroethane, 1,1,2,2-	µg/kg	500000 ^A 100000 _b 100000 _a ^C	n/v	5.2 U	-	-	-	5.4 U	-	15.9 U	-	-
Tetrachloroethylene (PCE)	µg/kg	150000 ^A 19000 ^B 1300 ^C	n/v	5.2 U	-	-	-	5.4 U	-	15.9 U	-	-
Toluene	µg/kg	500000 ^A 100000 _b 700 ^C	700 ^{DE}	5.2 U	-	-	-	2.3 J	-	15.9 U	-	-
Trichloroethane, 1,1,1-	µg/kg	500000 ^A 100000 _b 680 ^C	n/v	5.2 U	-	-	-	5.4 U	-	15.9 U	-	-
Trichloroethane, 1,1,2-	µg/kg	500000 ^A 100000 _b 100000 _a ^C	n/v	5.2 U	-	-	-	5.4 U	-	15.9 U	-	-
Trichloroethylene (TCE)	µg/kg	200000 ^A 21000 ^B 470 ^C	n/v	5.2 U	-	-	-	5.4 U	-	15.9 U	-	-
Trichlorofluoromethane (Freon 11)	µg/kg	n/v	n/v	5.2 U	-	-	-	5.4 U	-	15.9 U	-	-
Trimethylbenzene, 1,2,4-	µg/kg	190000 ^A 52000 ^B 3600 ^C	3600 ^{DE}	1.1 J	-	-	-	5.4 U	-	1540	-	-
Trimethylbenzene, 1,3,5-	µg/kg	190000 ^A 52000 ^B 8400 ^C	8400 ^{DE}	5.2 U	-	-	-	5.4 U	-	17.9	-	-
Vinyl Acetate	µg/kg	n/v	n/v	5.2 U	-	-	-	5.4 U	-	39.9 U	-	-
Vinyl chloride	µg/kg	13000 ^A 900 ^B 20 ^C	n/v	5.2 U	-	-	-	5.4 U	-	15.9 U	-	-
Xylene, m & p-	µg/kg	500000 _{c,p} ^A 100000 _{b,p} ^B 260 _p ^C	n/v	5.2 U	-	-	-	5.4 U	-	76.9	-	-
Xylene, o-	µg/kg	500000 _{c,p} ^A 100000 _{b,p} ^B 260 _p ^C	n/v	5.2 U	-	-	-	5.4 U	-	225	-	-
Volatile Tentatively Identified Compounds												
Total VOC TICs	µg/kg	n/v	n/v	236.6 JN	-	-	-	-	-	-	-	-

See last page for notes.

Table 5

Summary of Analytical Results in Soil
May 2011 and August 2012 Sampling
937 Genesee Street, Rochester, NY

Notes:

6NYCRR NYSDEC 6 NYCRR Part 375 Soil Clean-up Objectives (SCOs)

A NYSDEC 6 NYCRR Part 375 - Restricted Use SCO - Protection of Human Health - Commercial

B NYSDEC 6 NYCRR Part 375 - Restricted Use SCO - Protection of Human Health - Restricted Residential

C NYSDEC 6 NYCRR Part 375 - Unrestricted Use Soil Cleanup Objectives

NYSDEC New York State Department of Environmental Conservation, DEC Policy CP-51, October 21, 2010

D Table 2 Soil Cleanup Levels for Gasoline Contaminated Soils

E Table 3 Soil Cleanup Levels for Fuel Oil Contaminated Soil

6.5^A Concentration exceeds the indicated standard.**15.2** Concentration was detected but did not exceed applicable standards.**0.50 U** Laboratory estimated quantitation limit exceeded standard.**0.03 U** The analyte was not detected above the laboratory estimated quantitation limit.

n/v No standard/guideline value.

- Parameter not analyzed / not available.

NS,q^{BC} No SCO has been established for this compound. No SCO has been established for total chromium; however, see standards for trivalent and hexavalent chromium.**NS,q^A** No SCO has been established for this compound. No SCO has been established for total chromium; however, see standards for trivalent and hexavalent chromium. For commercial use, these are 1500 and 400 mg/kg respectively.

a The SCOS for unrestricted use were capped at a maximum value of 100 mg/kg. See 6 NYCRR Part 375 TSD Section 9.3

b The SCOS for residential, restricted-residential and ecological resources use were capped at a maximum value of 100 mg/kg. See 6 NYCRR Part 375 TSD Section 9.3.

b,p The SCOS for residential, restricted-residential and ecological resources use were capped at a maximum value of 100 mg/kg. See 6 NYCRR Part 375 TSD Section 9.3. The criterion is applicable to total xylenes, and the individual isomers should be added for comparison.

c The SCOS for commercial use were capped at a maximum value of 500 mg/kg. See TSD Section 9.3.

c,p The SCOS for commercial use were capped at a maximum value of 500 mg/kg. See TSD Section 9.3. The criterion is applicable to total xylenes, and the individual isomers should be added for comparison.

f For constituents where the calculated SCO was lower than the CRQL, the CRQL is used as the SCO value.

g^{AB} For constituents where the calculated SCO was lower than the rural soil background concentration as determined by the DEC/DOH rural soil survey, the rural soil background concentration is used as the Track 2 SCO value for this use of the site.**k^{AB}** This SCO is the lower of the values for mercury (elemental) or mercury (inorganic salts). See 6 NYCRR Part 375 TSD Table 5.6-1.**m** For constituents where the calculated SCO was lower than the Contract Required Quantitation Limit (CRQL), the CRQL is used as the Track 1 SCO value.**n** For constituents where the calculated SCO was lower than the rural soil background concentration as determined by the DEC/DOH rural soil survey, the rural soil background concentration is used as the Track 1 SCO value for this use of the site.**p** The criterion is applicable to total xylenes, and the individual isomers should be added for comparison.**B** Indicates analyte was found in associated blank, as well as in the sample.**J** Indicates estimated value.**N** Indicates presumptive evidence of a compound. Identification of tentatively identified compound is based on a mass spectral library search.**R** RPD outside accepted recovery limits

Table 6

Summary of Analytical Results in Groundwater
 June 2011 and August 2012 Sampling
 937 Genesee Street, Rochester, NY

Sample Location			MW-3	3-Jun-11	3-Jun-11	28-Aug-12	MW-6	3-Jun-11	3-Jun-11	27-Aug-12	MW-7	3-Jun-11	28-Aug-12	MW-11	MW-12	MW-13	MW-14	MW-18	MW-19D	Trip Blank	3-Jun-11	27-Aug-12	28-Aug-12		
Sample Date			MW-3-GW	MW-3-GW	MW-3-W		MW-6	MW-6-GW	MW-6-GW	MW-6-W	MW-7	MW-7-GW	MW-7-W	MW-11	MW-12	MW-13	MW-14	MW-18	MW-19D	Trip Blank	TB-082712	TB-082812			
Sample ID			STANTEC	STANTEC	STANTEC		STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC		
Sampling Company			PARAROCH	PARAROCH	SPECTRUM		PARAROCH	PARAROCH	SPECTRUM	PARAROCH	SPECTRUM	PARAROCH	SPECTRUM	PARAROCH	SPECTRUM	PARAROCH	SPECTRUM	PARAROCH	SPECTRUM	PARAROCH	SPECTRUM	SPECTRUM	SPECTRUM		
Laboratory			P11-2234	P11-2234R	L1835		P11-2234	P11-2234R	L1826	P11-2234	L1835	L1826	L1826	L1826	L1826	L1826	L1826	L1826	L1826	L1826	L1826	L1835	L1835		
Laboratory Work Order			7482	7482R	L1835-02		7483	7483R	L1826-04	7481	L1835-03														
Laboratory Sample ID																									
Sample Type	Units	TOGS																							
General Chemistry																									
Nitrate (as N)	mg/L	10 ^B	-	-	0.13	-	-	-	-	-	-	0.05 U	-	-	-	0.05 U	-	0.26	-	-	-	-	-	-	
Nitrite	mg/L	n/v	-	-	0.02 U	-	-	-	-	-	-	0.02 U	-	-	-	0.02 U	-	0.26	-	-	-	-	-	-	
Nitrite/Nitrate	mg/L	n/v	-	-	0.14	-	-	-	-	-	-	0.05 U	-	-	-	0.05 U	-	0.26	-	-	-	-	-	-	
Sulfate	mg/L	250 ^B	-	-	56.1	-	-	-	-	-	-	121	-	-	-	146	-	132	-	-	-	-	-	-	
Petroleum Hydrocarbons																									
Medium Weight PHC as: Diesel Fuel	µg/L	n/v	-	346	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Medium Weight PHC as: Kerosene	µg/L	n/v	-	696	-	-	-	598	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total Extractable Hydrocarbons	mg/L	n/v	-	-	1.6	-	-	0.33	-	-	-	-	-	-	-	-	0.28	-	-	-	-	-	-	-	
Metals																									
Arsenic	mg/L	0.025 ^B	0.010 U	-	-	0.010 U	-	-	0.010 U	-	-	0.010 U	-	-	-	-	-	-	-	-	-	-	-	-	
Barium	mg/L	1 ^B	0.153	-	-	0.126 M	-	-	0.100 U	-	-	0.005 U	-	-	-	-	-	-	-	-	-	-	-	-	
Cadmium	mg/L	0.005 ^B	0.005 U	-	-	0.005 M	-	-	0.010 U	-	-	0.010 U	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium (Total)	mg/L	0.05 ^B	0.010 U	-	-	0.010 M	-	-	0.0002 U	-	-	0.0002 U	-	-	-	-	-	-	-	-	-	-	-	-	
Lead	mg/L	0.025 ^B	0.010 U	-	-	0.010 M	-	-	0.010 U	-	-	0.010 U	-	-	-	-	-	-	-	-	-	-	-	-	
Mercury	mg/L	0.0007 ^B	0.0002 U	-	-	0.0002 U	-	-	0.0002 U	-	-	0.0002 U	-	-	-	-	-	-	-	-	-	-	-	-	
Selenium	mg/L	0.01 ^B	0.010 U	-	0.030 U	0.010 U	-	0.030 U	0.018^B	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U	-	-	-	-	-	-	-	-
Silver	mg/L	0.05 ^B	0.010 U	-	-	0.010 U	-	-	0.010 U	-	-	0.010 U	-	-	-	-	-	-	-	-	-	-	-	-	
Semi - Volatile Organic Compounds																									
Acenaphthene	µg/L	20 ^B	10.0 U	-	-	10.0 U	-	-	10.0 U	-	-	10.0 U	-	-	-	-	-	-	-	-	-	-	-	-	
Acenaphthylene	µg/L	n/v	10.0 U	-	-	10.0 U	-	-	10.0 U	-	-	10.0 U	-	-	-	-	-	-	-	-	-	-	-	-	
Anthracene	µg/L	50 ^A	10.0 U	-	-	10.0 U	-	-	10.0 U	-	-	10.0 U	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)anthracene	µg/L	0.002 ^A	10.0 U	-	-	10.0 U	-	-	10.0 U	-	-	10.0 U	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(a)pyrene	µg/L	n/v	10.0 U	-	-	10.0 U	-	-	10.0 U	-	-	10.0 U	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(b)fluoranthene	µg/L	0.002 ^A	10.0 U	-	-	10.0 U	-	-	10.0 U	-	-	10.0 U	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(g,h,i)perylene	µg/L	n/v	10.0 U	-	-	10.0 U	-	-	10.0 U	-	-	10.0 U	-	-	-	-	-	-	-	-	-	-	-	-	
Benzo(k)fluoranthene	µg/L	0.002 ^A	10.0 U	-	-	10.0 U	-	-	10.0 U	-	-	10.0 U	-	-	-	-	-	-	-	-	-	-	-	-	
Chrysene	µg/L	0.002 ^A	10.0 U	-	-	10.0 U	-	-	10.0 U	-	-	10.0 U	-	-	-	-	-	-	-	-	-	-	-	-	
Dibenzo(a,h)anthracene	µg/L	n/v	10.0 U	-	-	10.0 U	-	-	10.0 U	-	-	10.0 U	-	-	-	-	-	-	-	-	-	-	-	-	
Fluoranthene	µg/L	50 ^A	10.0 U	-	-	10.0 U	-	-	10.0 U	-	-	10.0 U	-	-	-	-	-	-	-	-	-	-	-	-	
Fluorene	µg/L	50 ^A	10.0 U	-	-	10.0 U	-	-	10.0 U	-	-	10.0 U	-	-	-	-	-	-	-	-	-	-	-	-	
Indeno(1,2,3-cd)pyrene	µg/L	0.002 ^A	10.0 U	-	-	10.0 U	-	-	10.0 U																

Table 6

**Summary of Analytical Results in Groundwater
June 2011 and August 2012 Sampling
937 Genesee Street, Rochester, NY**

Sample Location				MW-3			MW-6			MW-7			MW-11	MW-12	MW-13	MW-14	MW-18	MW-19D	Trip Blank		
Sample Date			3-Jun-11	3-Jun-11	28-Aug-12	3-Jun-11	3-Jun-11	27-Aug-12	3-Jun-11	28-Aug-12	28-Aug-12	27-Aug-12	27-Aug-12	28-Aug-12	28-Aug-12	27-Aug-12	3-Jun-11	27-Aug-12	28-Aug-12		
Sample ID			MW-3-GW	MW-3-GW	MW-3-W	MW-6-GW	MW-6-GW	MW-6-W	MW-7-GW	MW-7-W	MW-11-W	MW-12-W	MW-13-W	MW-14-W	MW-18-W	MW-19D-W	Trip Blank	TB-082712	TB-082812		
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	
Laboratory			PARAROCH	PARAROCH	SPECTRUM	PARAROCH	PARAROCH	SPECTRUM	PARAROCH	SPECTRUM	SPECTRUM	SPECTRUM	SPECTRUM	SPECTRUM	SPECTRUM	SPECTRUM	PARAROCH	SPECTRUM	SPECTRUM	SPECTRUM	
Laboratory Work Order			P11-2234	P11-2234R	L1835	P11-2234	P11-2234R	L1826	P11-2234	L1835	L1835	L1826	L1826	L1835	L1826	P11-2234	L1826	L1826	L1835		
Laboratory Sample ID			7482	7482R	L1835-02	7483	7483R	L1826-04	7481	L1835-03	L1835-01	L1826-02	L1826-03	L1835-05	L1835-04	L1826-01	7480	L1826-05	L1826-05	L1835-06	
Sample Type	Units	TOGS															Trip Blank	Trip Blank	Trip Blank		
Volatile Organic Compounds (cont'd)																					
Dichlorobenzene, 1,4-	µg/L	3 ^B	2.00 U	-	5.0 U	2.00 U	-	5.0 U	2.00 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.00 U	5.0 U	5.0 U		
Dichloroethane, 1,1-	µg/L	5.. ^B	2.00 U	-	5.0 U	2.00 U	-	5.0 U	2.00 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.00 U	5.0 U	5.0 U		
Dichloroethane, 1,2-	µg/L	0.6 ^B	2.00 U	-	5.0 U	2.00 U	-	5.0 U	2.00 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.00 U	5.0 U	5.0 U		
Dichloroethene, 1,1-	µg/L	5.. ^B	2.00 U	-	5.0 U	2.00 U	-	5.0 U	2.00 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.00 U	5.0 U	5.0 U		
Dichloroethylene, cis-1,2-	µg/L	5.. ^B	2.00 U	-	5.0 U	2.00 U	-	5.0 U	2.00 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.00 U	5.0 U	5.0 U		
Dichloroethylene, trans-1,2-	µg/L	5.. ^B	2.00 U	-	5.0 U	2.00 U	-	5.0 U	2.00 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.00 U	5.0 U	5.0 U		
Dichloropropane, 1,2-	µg/L	1 ^B	2.00 U	-	5.0 U	2.00 U	-	5.0 U	2.00 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.00 U	5.0 U	5.0 U		
Dichloropropene, cis-1,3-	µg/L	0.4 ^B _p	2.00 U	-	5.0 U	2.00 U	-	5.0 U	2.00 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.00 U	5.0 U	5.0 U		
Dichloropropene, trans-1,3-	µg/L	0.4 ^B _p	2.00 U	-	5.0 U	2.00 U	-	5.0 U	2.00 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.00 U	5.0 U	5.0 U		
Ethylbenzene	µg/L	5.. ^B	-	54.8 ^B	-	71 ^B	2.00 U	-	5.0 U	2.00 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	3.4 J	5.0 U	5.0 U	2.00 U	5.0 U	
Hexanone, 2- (Methyl Butyl Ketone)	µg/L	50 ^A	5.00 U	-	5.0 U	5.00 U	-	5.0 U	5.00 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.00 U	5.0 U	5.0 U		
Isopropylbenzene	µg/L	5.. ^B	18.5 ^B	-	14 ^B	6.37 ^B	-	2.0 J	2.00 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	9.6 ^B	5.0 U	5.0 U	2.00 U	5.0 U	5.0 U	
Isopropyltoluene, p- (Cymene)	µg/L	5.. ^B	4.85	-	5.0 U	5.42 ^B	-	5.0 U	2.00 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.00 U	5.0 U	5.0 U		
Methyl Ethyl Ketone (MEK)	µg/L	50 ^A	10.0 U	-	5.0 U	10.0 U	-	5.0 U	10.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10.0 U	5.0 U	5.0 U		
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	5.00 U	-	5.0 U	5.00 U	-	5.0 U	5.00 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.00 U	5.0 U	5.0 U		
Methyl tert-butyl ether (MTBE)	µg/L	10 ^A	2.00 U	-	5.0 U	2.00 U	-	5.0 U	2.00 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.00 U	5.0 U	5.0 U		
Methylene Chloride (Dichloromethane)	µg/L	5.. ^B	5.00 U	-	5.0 U	5.00 U	-	5.0 U	5.00 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.00 U	5.0 U	5.0 U		
Naphthalene	µg/L	10 ^B	7.97	-	8.8	5.00 U	-	5.0 U	5.00 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.2 J	5.0 U	5.0 U	5.00 U	5.0 U	5.0 U	
Propylbenzene, n-	µg/L	5.. ^B	15.5 ^B	-	13 ^B	11.5 ^B	-	1.8 J	2.00 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	11 ^B	5.0 U	5.0 U	2.00 U	5.0 U	5.0 U	
Styrene	µg/L	5.. ^B	5.00 U	-	5.0 U	5.00 U	-	5.0 U	5.00 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.00 U	5.0 U	5.0 U		
Tetrachloroethane, 1,1,2,2-	µg/L	5.. ^B	2.00 U	-	5.0 U	2.00 U	-	5.0 U	2.00 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.00 U	5.0 U	5.0 U		
Tetrachloroethylene (PCE)	µg/L	5.. ^B	2.00 U	-	5.0 U	2.00 U	-	5.0 U	2.00 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.00 U	5.0 U	5.0 U		
Toluene	µg/L	5.. ^B	7.01 ^B	-	1.4 J	2.00 U	-	5.0 U	2.00 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.78 J	5.0 U	0.56 J	2.00 U	5.0 U	5.0 U	
Trichloroethane, 1,1,1-	µg/L	5.. ^B	2.00 U	-	5.0 U	2.00 U	-	5.0 U	2.00 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.00 U	5.0 U	5.0 U		
Trichloroethane, 1,1,2-	µg/L	1 ^B	2.00 U	-	5.0 U	2.00 U	-	5.0 U	2.00 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.00 U	5.0 U	5.0 U		
Trichloroethylene (TCE)	µg/L	5.. ^B	2.00 U	-	5.0 U	2.00 U	-	5.0 U	2.00 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.00 U	5.0 U	5.0 U		
Trichlorofluoromethane (Freon 11)	µg/L	5.. ^B	2.00 U	-	5.0 U	2.00 U	-	5.0 U	2.00 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.00 U	5.0 U	5.0 U		
Trimethylbenzene, 1,2,4-	µg/L	5.. ^B	60.7 ^B	-	95 ^B	14.5 ^B	-	5.0 U	2.00 U	0.60 J	5.0 U	5.0 U	5.0 U	5.0 U	22 ^B	5.0 U	0.69 J	2.00 U	5.0 U	5.0 U	
Trimethylbenzene, 1,3,5-	µg/L	5.. ^B	55.7 ^B	-	15 ^B	2.00 U	-	5.0 U	2.00 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.1 J	5.0 U	5.0 U	2.00 U	5.0 U	5.0 U	
Vinyl Acetate	µg/L	n/v	5.00 U	-	5.0 U	5.00 U	-	5.0 U	5.00 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.00 U	5.0 U	5.0 U		
Vinyl chloride	µg/L	2 ^B	2.00 U	-	5.0 U	2.00 U	-	5.0 U	2.00 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.00 U	5.0 U	5.0 U		
Xylene, m & p-	µg/L	5.. ^B	86.8 ^B	-	90 ^B	2.00 U	-	5.0 U	2.00 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.4 ^B	5.0 U	5.0 U	2.00 U	5.0 U	5.0 U	
Xylene, o-	µg/L	5.. ^B	7.99 ^B	-	2.6 J	2.00 U	-	5.0 U	2.00 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.65 J	5.0 U	5.0 U	2.00 U	5.0 U	5.0 U	
Volatile Tentatively Identified Compounds																					
Total VOC TICs	µg/L	n/v	-	-	317 JN	-	-	84 JN	-	-	-	-	-	-	-	236 JN	-	-	-	-	

A TOGS 1.1.1 - Table 1 - Ambient Water Quality Standards and Guidance Values, Division of Water, Technical and Operational Guidance Series (TOGS 1.1.1); Guidance

TOGS 1.1.1 - Table 1 - Ambient Water Quality

15.3 Concentration was detected but did not exceed applicable standards.

0.50 μ M Laboratory estimated quantitation limit exceeded standard.

0.50 U Laboratory estimated quantitation limit exceeded standard
0.22 U The result is consistent with the estimated limit of detection

0.03 0 The analyte was not detected

N/V No standard/guideline value.

- Parameter not analyzed / not available.

The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in the TOGS table) applies to this substance.

p Applies to the sum of cis- and trans-1,3-dichloropropene.

x Topsoil: surface A, L, F, H and O horizons on the control area

J Indicates estimated value.

M Denotes matrix spike recoveries

N Indicates presumptive evidence

Table 7
SUMMARY OF GROUNDWATER FIELD PARAMETERS

Supplemental Phase II ESA
937 Genesee Street
Rochester, New York

Sample Location		MW- 3	MW - 6	MW - 7	MW-3	MW-6	MW-7	MW-11	MW-12	MW-13	MW-14	MW-18	MW-19D
Sample Date		3-Jun-11	3-Jun-11	3-Jun-11	28-Aug-12	27-Aug-12	28-Aug-12	28-Aug-12	27-Aug-12	27-Aug-12	28-Aug-12	28-Aug-12	28-Aug-12
Purge Methodology		Low Flow	Low Flow	Low Flow	Volumetric	Low Flow							
Purge Method		Peristaltic Pump											
Sampling Method		Peristaltic Pump											
Field Parameters	Units												
pH	S.U.	7.14	7.02	7.14	7.16	7.06	7.03	7.15	6.97	7.03	7.22	7.14	8.25
Oxidation Reduction Potential	mV	157	36	301	-110.5	-157.7	77	-84.6	-22.2	54.3	-192.3	-153.1	-280.2
Conductivity	mS/cm	24.9	1.83	1.08	1.22	1.22	1.24	1.13	1.29	1.23	1.32	1.73	1.15
Temperature	deg c	12.84	12.09	11.8	18	16.9	17.7	15.2	18.2	17.9	20.2	20.5	16.8
Dissolved Oxygen	mg/L	5.99	5.23	8.68	0.74	0.15	0.33	0.23	0.26	0.57	0.13	0.13	0.13
Turbidity	NTU	26.5	10.53	18.7	80.2	8.56	2.95	21.4	27.4	1.7	9.83	4.25	3.59
Ferrous Iron ¹	ppm	-	-	-	3.6	-	-	0.5	-	-	0.2	-	0.2
Total Iron ¹	ppm	-	-	-	4.0	-	-	1.3	-	-	0.3	-	0.3

¹Ferrous iron and total iron analyzed with a LaMotte Smart 3 Colorimeter on a filtered sample.

Notes

-	not measured	mS/cm	millSiemens per centimeter	ppm	parts per million
deg c	degrees Celsius	mV	millivolts		
mg/l	milligrams per liter	NTU	nephelometric turbidity unit		

APPENDIX A



61 Commercial Street
Rochester, NY 14614
(585) 475-1440

Test Boring No.: B-9

Page 1 of 1

Project:	937 Genesee St	Drill Contractor:	Nothnagle	Start Date:	8/20/12
Project #:	190500696	Driller:	J. Schweitzer	Completion Date:	8/20/12
Client:	City of Rochester	Elevation:	N/A	Drilling Method:	Macrocore
Location:	937 Genesee Street	Weather:	Sun, 70s F	Supervisor:	K. Premo

0	SAMPLE				Soil Information Remarks	Corrected Depth
	PID	Rec.	No.	Depth		
5	0.8	2.4	1	0-4'	Light gray concrete	0
					Dark brown fine SAND, some SILT, dry	0.3
					Light brown fine SAND, some SILT, dry	0.6
	1.0				Tan fine SAND, little SILT, dry	1.2
				4-8'		
	1.0	3.4	2		Tan fine SAND, little SILT, dry	3.9
					Red-brown fine SAND and SILT, trace GRAVEL, moist	4.8
				8-12'	Light brown coarse SAND and fine GRAVEL, dry	6.8
	1.4					
	1.2	1.9	3		Gray fine-coarse SAND, some fine-coarse GRAVEL, wet	7.8
15					Gray coarse SAND and fine GRAVEL, some medium-coarse GRAVEL, dry	9.1
					Refusal at 11.8'	
20						

Notes:

1. PID Model Mini-Rae 2000 with 10.6eV lamp.
2. Angled boring, corrected depth is the actual depth based on the angle of the Geoprobe
3. Sampled B-9S at 0930 at 7.8-11.8 ft BGS for TCL/STARS VOCs and Selenium



Stantec

**61 Commercial Street
Rochester, NY 14614
(585) 475-1440**

Test Boring No.: B-10

Page 1 of 1

Project:	937 Genesee St	Drill Contractor:	Nothnagle	Start Date:	8/20/12
Project #:	190500696	Driller:	J. Schweitzer	Completion Date:	8/20/12
Client:	City of Rochester	Elevation:	N/A	Drilling Method:	Macrocore
Location:	937 Genesee Street	Weather:	Sun, 70s F	Supervisor:	K. Premo

Notes:

1. PID Model Mini-Rae 2000 with 10.6eV lamp.
 2. Angled boring, corrected depth is the actual depth based on the angle of the Geoprobe
 3. Sampled B-10S at 0958 at 3.9-7.8 ft BGS for TCL/STARTS VOCs and Selenium



61 Commercial Street
Rochester, NY 14614
(585) 475-1440

Test Boring No.: B-11

Page 1 of 1

Project:	937 Genesee St	Drill Contractor:	Nothnagle	Start Date:	8/20/12
Project #:	190500696	Driller:	J. Schweitzer	Completion Date:	8/20/12
Client:	City of Rochester	Elevation:	N/A	Drilling Method:	Macrocore
Location:	937 Genesee Street	Weather:	Sunny, 70s	Supervisor:	K.Premo

0	SAMPLE			Soil Information	
	PID	Rec.	No.	Depth	Remarks
	2.7	1		0-4'	Broken concrete
	0.1				Brown-dark brown fine and medium SAND, some SILT, trace coarse SAND and fine GRAVEL, dry
					Tan fine SAND, some SILT, dry
					Brown fine SAND and SILT, dry
	0.9				
	3	2		4-8'	Red fine SAND and SILT with mottles, few medium-coarse GRAVEL, moist
5	0.8				
	1.4				
	1.8	3		8-12'	Gray-brown medium-coarse SAND and fine GRAVEL, some medium to coarse GRAVEL, moist
	1.1				Gray-brown fine-medium SAND, some medium GRAVEL, moist
10					Wet at 9.6'
	1.1				
	3.2	4		12-16'	Gray-brown fine-medium SAND, some medium GRAVEL, wet
	1.5				
	1.0				
15					
	2.1	1.0	5	16-17.5'	Gray coarse SAND and fine-medium GRAVEL, some fine SAND, wet Slight odor
					Refusal at 17.5'
20					

Notes:

1. PID Model Mini-Rae 2000 with 10.6eV lamp.
2. Sampled B-11S at 16-17.5' BGS at 1025 for TCL/STARS VOCs and Selenium



61 Commercial Street
Rochester, NY 14614
(585) 475-1440

Test Boring No.: B-12

Page 1 of 1

Project:	937 Genesee St	Drill Contractor:	Nothnagle	Start Date:	8/20/12
Project #:	190500696	Driller:	J. Schweitzer	Completion Date:	8/20/12
Client:	City of Rochester	Elevation:	N/A	Drilling Method:	Macrocore
Location:	937 Genesee Street	Weather:	Sunny, 70s	Supervisor:	K.Premo

0	SAMPLE				Soil Information	Remarks
	PID	Rec.	No.	Depth		
0	1.5	2.1	1	0-4'	Black asphalt	0
					Brown SILT, some fine SAND, moist	0.6
	3.8					
5	1.9	2.4	2	4-8'	Brown fine SAND, some SILT, trace fine-medium GRAVEL, wet	4
					Red-brown CLAYEY SILT, trace GRAVEL, moist	4.4
	3.5					
10	5.2	1.9	3	8-12'	Red-brown CLAYEY SILT, moist	8
	3.9					
15	2.8	1.8	4	12-16'	Gray medium-coarse SAND, some fine-coarse GRAVEL, wet	12
	2.3					
15	1.7	1.8	5	16-20'	Gray medium-coarse SAND and fine-coarse GRAVEL, wet	16
					Gray medium-coarse SAND, some fine-medium GRAVEL, wet	16.8
	1.3					
20					Refusal at 20.5'	

Notes:

1. PID Model Mini-Rae 2000 with 10.6eV lamp.
2. Sampled B-12S at 8-12' BGS at 1110 for TCL/STARS VOCs and Selenium



61 Commercial Street
Rochester, NY 14614
(585) 475-1440

Test Boring No.: B-13

Page 1 of 1

Project:	937 Genesee St	Drill Contractor:	Nothnagle	Start Date:	8/20/12
Project #:	190500696	Driller:	J. Schweitzer	Completion Date:	8/20/12
Client:	City of Rochester	Elevation:	N/A	Drilling Method:	Macrocore
Location:	937 Genesee Street	Weather:	Sunny, 70s	Supervisor:	K.Premo

0	SAMPLE				Soil Information Remarks
	PID	Rec.	No.	Depth	
0	0.8	1.9	1	0-4'	Broken concrete, dry Black asphalt Brown fine SAND and SILT, dry-moist
0.3					
5	0.3	3.2	2	4-8'	Red-brown CLAYEY SILT, some fine SAND, trace medium GRAVEL, mottles, moist
0.2					
10	0.2	3.8	3	8-12'	Red-brown CLAYEY SILT, some fine SAND, trace medium GRAVEL, mottles, moist Gray fine-coarse SAND and fine GRAVEL, some medium GRAVEL, wet
0.3					
15	0.3	1.2	4	12-16'	Gray fine-coarse SAND and fine GRAVEL, some medium GRAVEL, wet Gray fine-coarse GRAVEL, wet
0.2					Refusal at 14.0'
20					

Notes:

1. PID Model Mini-Rae 2000 with 10.6eV lamp.
2. Sampled B-13S at 8-12' BGS at 1130 for TCL/STARS VOCs and Selenium



61 Commercial Street
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(585) 475-1440

Test Boring No.: B-14

Page 1 of 1

Project:	937 Genesee St	Drill Contractor:	Nothnagle	Start Date:	8/20/12
Project #:	190500696	Driller:	J. Schweitzer	Completion Date:	8/20/12
Client:	City of Rochester	Elevation:	N/A	Drilling Method:	Macrocore
Location:	937 Genesee Street	Weather:	Sunny, 70s	Supervisor:	K.Premo

0	SAMPLE				Soil Information	Remarks
	PID	Rec.	No.	Depth		
0	0.7	2	1	0-4'	Black asphalt	0
					Brown fine SAND and SILT, moist	1.3
	0.5					
	0.9	1.8	2	4-8'	Brown fine SAND and SILT, black spots at 5.4 feet, moist	4
5						
	1.0					
	510	3.8	3	8-12'	Gray fine-coarse SAND and fine GRAVEL, some SILT, little medium-coarse GRAVEL, moist, petroleum odor Wet at 9.4'	8
10						
	60.9					
	37.8	1.2	4	12-16'	Gray fine-coarse SAND and fine GRAVEL, some SILT, little medium-coarse GRAVEL, moist, slight petroleum odor Gray fine-coarse SAND and coarse GRAVEL, some fine-medium SAND, wet	12.4
15						
	6.3					
					Refusal at 16'	
20						

Notes:

1. PID Model Mini-Rae 2000 with 10.6eV lamp.
2. Sampled B-14S at 8-12' BGS at 1200 for TCL/STARS VOCs, TPH and RCRA Metals



61 Commercial Street
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(585) 475-1440

Test Boring No.: B-15

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Project:	937 Genesee St	Drill Contractor:	Nothnagle	Start Date:	8/20/12
Project #:	190500696	Driller:	J. Schweitzer	Completion Date:	8/20/12
Client:	City of Rochester	Elevation:	N/A	Drilling Method:	Macrocore
Location:	937 Genesee Street	Weather:	Sunny, 70s	Supervisor:	K.Premo

0	SAMPLE				Soil Information	Remarks
	PID	Rec.	No.	Depth		
0	1.2	1.7	1	0-4'	Gray GRAVEL, dry	0
					Black fine-coarse GRAVEL and coarse SAND	0.4
					Tan coarse SAND and fine-medium GRAVEL, few coarse GRAVEL, dry	1.2
	0.4					
	0.4	1.2	2		Brown coarse SAND and fine GRAVEL, some medium GRAVEL, dry	4
					Tan coarse SAND and fine GRAVEL, some medium-coarse GRAVEL, dry	4.6
					Dark brown coarse SAND and fine GRAVEL, moist	5.1
	0.8					
5	0.2	3.1	3	4-8'	Red-brown CLAYEY SILT, some fine SAND, moist	8
					Wet at 10'	
	0.6					
	0.2	1.7	4		Red-brown CLAYEY SILT, some fine SAND, gray mottles, wet	12
					Gray fragmented bedrock at bottom of boring	
	0.7					
	15				Refusal at 14.9'	
20						

Notes:

1. PID Model Mini-Rae 2000 with 10.6eV lamp.
2. Sampled B-15S at 8-12' BGS at 1200 for TCL/STARS VOCs and Selenium



61 Commercial Street
Rochester, NY 14614
(585) 475-1440

Test Boring No.: B-16

Page 1 of 1

Project:	937 Genesee St	Drill Contractor:	Nothnagle	Start Date:	8/20/12
Project #:	190500696	Driller:	J. Schweitzer	Completion Date:	8/20/12
Client:	City of Rochester	Elevation:	N/A	Drilling Method:	Macrocore
Location:	937 Genesee Street	Weather:	Sunny, 70s	Supervisor:	K.Premo

0	SAMPLE				Soil Information Remarks
	PID	Rec.	No.	Depth	
1.2	3.0	1		0-4'	Black asphalt Brown fine SAND, some SILT, moist
1.2					
0.7	2.0	2		4-8'	Red-brown fine SAND and SILT, moist Broken concrete, dry
5					
0.6					
1.0	2.8	3		8-12'	Red-brown fine SAND and SILT, moist
10					
1.0					
1.0	2	4		12-16'	Gray fine-coarse SAND, some medium-coarse GRAVEL, wet
0.9					
15					
					Refusal at 16'
20					

Notes:

1. PID Model Mini-Rae 2000 with 10.6eV lamp.
2. Sampled B-16S at 8-12' BGS at 1404 for TCL/STARS VOCs and Selenium



61 Commercial Street
Rochester, NY 14614
(585) 475-1440

Test Boring No.: B-17

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Project:	937 Genesee St	Drill Contractor:	Nothnagle	Start Date:	8/20/12
Project #:	190500696	Driller:	J. Schweitzer	Completion Date:	8/20/12
Client:	City of Rochester	Elevation:	N/A	Drilling Method:	Macrocore
Location:	937 Genesee Street	Weather:	Sunny, 70s	Supervisor:	K.Premo

0	SAMPLE				Soil Information	Remarks
	PID	Rec.	No.	Depth		
0	0.8	2.2	1	0-4'	Black asphalt	0
					Brown fine SAND, some SILT, moist	0.6
	0.8					
	0.3	2.3	2	4-8'	Brown fine SAND, some SILT, wet	4
5					Red CLAYEY SILT, moist	5.3
	0.6					
					Refusal at 7.5'	
10						
15						
20						

Notes:

1. PID Model Mini-Rae 2000 with 10.6eV lamp.



61 Commercial Street
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(585) 475-1440

Test Boring No.: B-18

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Project:	937 Genesee St	Drill Contractor:	Nothnagle	Start Date:	8/20/12
Project #:	190500696	Driller:	J. Schweitzer	Completion Date:	8/20/12
Client:	City of Rochester	Elevation:	N/A	Drilling Method:	Macrocore
Location:	937 Genesee Street	Weather:	Sunny, 70s	Supervisor:	K.Premo

0	SAMPLE				Soil Information Remarks
	PID	Rec.	No.	Depth	
8.3	2.6	1		0-4'	Black asphalt Brown fine SAND and SILT, moist
1.1					
9.5	1.8	2		4-8'	Brown-red SILT, some fine SAND, trace GRAVEL, moist Odor noted at bottom of boring
5					
16.1					
8.1	2.8	3		8-12'	Gray/brown/red SILT, some fine SAND, trace GRAVEL, moist, odor
10					Gray-brown fine-coarse SAND, some fine-medium GRAVEL, trace coarse GRAVEL, wet, odor
15.7					
0.9	1.0	4		12-16'	Gray-brown fine-coarse SAND, some fine-medium GRAVEL, trace coarse GRAVEL, wet
1.0					
15					
					Refusal at 16'
20					

Notes:

1. PID Model Mini-Rae 2000 with 10.6eV lamp.
2. Sampled B-18S at 8-12' BGS at 1500 for TCL/STARS VOCs and RCRA Metals



61 Commercial Street
Rochester, NY 14614
(585) 475-1440

Test Boring No.: BR-19

Page 1 of 2

Project:	937 Genesee St	Drill Contractor:	Nothnagle	Start Date:	8/21/12
Project #:	190500696	Driller:	N. Short	Completion Date:	8/22/12
Client:	City of Rochester	Elevation:	N/A	Drilling Method:	Split Spoon - Drill Rig
Location:	937 Genesee Street	Weather:	Sunny, 70s	Supervisor:	K.Premo

0	SAMPLE				Soil Information	
	PID	Rec.	No.	Depth	Remarks	
	7.5	3.1	1	0-4'	Broken concrete White ash and black cinders, fine SAND, some SILT, moist	0 0.1
	0.4				Brown fine-medium SAND, little SILT, moist	2
	1.0	2.7	2	4-8'	Dark brown, fine-medium SAND, little SILT, moist Red-brown fine SAND and SILT, few gray mottles, moist	4 4.9
5						
	0.8					
	1.7	2.2	3	8-12'	Brown, fine-coarse SAND, few SILT, moist Brown fine SAND and SILT, moist Wet at 10.2'	8 8.5
10						
	0.8				Refusal using direct push - augured through material	
	2.8	1.4	4	12-16'	Brown, coarse SAND, wet Gray angular fine-coarse GRAVEL, wet	12 12.1
15						
	0.3	1.1	5	16-20'	Gray fine-coarse SAND, little fine-medium GRAVEL, wet	16
	0.2					
20					Bedrock at 20'	

Notes:

1. PID Model Mini-Rae 2000 with 10.6eV lamp.
2. Sampled B-19FILL at 0-2' BGS at 0940 for RCRA Metals and STARS SVBN and B-19S at 12-16' BGS for TCL/STARS VOCs and Selenium
3. 23 feet of casing installed and grouted on 8/21/2012



Stantec

BEDROCK DRILL AND STRATIGRAPHIC LOG

PROJECT NAME 937 Genesee
PROJECT NUMBER 190500696
CLIENT City of Rochester
LOCATION Rochester, NY

HOLE DESIGNATION BR-19
DATE COMPLETED 8/22/12
DRILLING METHOD Drill Rig
SUPERVISOR K. Premo

SAMPLE DESCRIPTION	RUN NO.	SAMPLE INTERVAL		% RECOV	RQD %
		FROM	TO		
Medium gray, medium to fine-grained, medium to thin-bedded siliceous DOLOSTONE with occasional stylolites, moderately closely to closely spaced argillaceous partings, cavities, vugs and pits	R1	20.0'	23.0'	81%	62%
Ermosa Dolostone	R2	23.0'	30.0'	100%	100%
Vuggy zones from 21.2-22.8' and 23.5-24.9' some gypsum in filling and dolomite crystals					
Bottom of boring 33.0'					
Notes:					
1. Lost ~ 25 gallons of water during coring.					
2. Bedrock monitoring well was installed w/ 10' of screening					

APPENDIX B



61 Commercial Street
Rochester, NY 14614
(585) 475-1440

Monitoring Well Purging and Sampling Record

Site Name: 937 Genesee Street Well ID: MW-3
Initial Depth to Water: 10.4 ft TOIC Date: 8/28/2012
Total Well Depth: 10.9 ft TOIC Purge Start Time: 740
Depth to Pump: 10.9 ft TOIC Purge End Time: 752
Initial Pump Rate: 100 mL/min Pump Type: Geopump
adjusted to: mL/min at minutes Well Diameter: 2 inches
adjusted to: mL/min at minutes Well Volume: 0.08 gallons

Time	Purge Volume (gallons)	pH (s.u.)	ORP (mV)	Conductivity (mS/cm)	Temp. (°C)	DO (mg/L)	Turbidity (NTU)	Water Level (ft)
745	0.0	7.05	-128.6	1.23	16.6	0.49	750	10.4
750	0.1	7.01	-146.7	1.22	16.7	0.28	80.2	10.84
Well went dry at 0752								

Final Sample Data:		7.16	-110.5	1.22	18	0.74	80.2	10.52

Sample ID(s): MW-3-W

Field Test Kit Results: Ferrous Iron: 3.6 ppm

Sample Time: 918

Total Iron: 4.0 ppm

Analyses:

- TCL VOCs
- Selenium
- TPH
- Remedial Parameters: Nitrate, Nitritie, Nitrate-Nitrite, Sulfate and Iron

Sampler(s): K. Premo and S. Burke

Comments: _____



**61 Commercial Street
Rochester, NY 14614
(585) 475-1440**

Monitoring Well Purging and Sampling Record

Site Name: 937 Genesee Street Well ID: MW-6
Initial Depth to Water: 10.1 ft TOIC Date: 8/27/2012
Total Well Depth: 11.95 ft TOIC Purge Start Time: 1400
Depth to Pump: 10 ft TOIC Purge End Time: 1445
Initial Pump Rate: 50 mL/min Pump Type: Geopump
adjusted to: _____ mL/min at _____ minutes Well Diameter: 2 inches
adjusted to: _____ mL/min at _____ minutes Well Volume: 0.29 gallons

Sample ID(s): MW-6-W
Sample Time: 1450

Analyses:

- TCL VOCs
- Selenium
- TPH
- Remedial Parameters: Nitrate, Nitritie, Nitrate-Nitrite, Sulfate and Iron

Sampler(s): K. Premo

Comments: Water was cloudy, slight odor



**61 Commercial Street
Rochester, NY 14614
(585) 475-1440**

Monitoring Well Purging and Sampling Record

Site Name: 937 Genesee Street Well ID: MW-7
Initial Depth to Water: 10.1 ft TOIC Date: 8/28/2012
Total Well Depth: 11.95 ft TOIC Purge Start Time: 1400
Depth to Pump: 10 ft TOIC Purge End Time: 1445
Initial Pump Rate: 50 mL/min Pump Type: Geopump
adjusted to: _____ mL/min at _____ minutes Well Diameter: 2 inches
adjusted to: _____ mL/min at _____ minutes Well Volume: 0.29 gallons

Sample ID(s): MW-7-W

Sample Time: 1250

Analyses:

TCL VOCs

Selenium

□ TPH

Remedial Parameters: Nitrate, Nitritie, Nitrate-Nitrite, Sulfate and Iron

Sampler(s): K. Premo and S. Burke

Comments: No odor, turbid @ 1213, clear @ 1218



61 Commercial Street
Rochester, NY 14614
(585) 475-1440

Monitoring Well Purging and Sampling Record

Site Name: 937 Genesee Street Well ID: MW-11
Initial Depth to Water: 10.54 ft TOIC Date: 8/28/2012
Total Well Depth: 16.75 ft TOIC Purge Start Time: 803
Depth to Pump: 15 ft TOIC Purge End Time: 851
Initial Pump Rate: 100 mL/min Pump Type: Geopump
adjusted to: _____ mL/min at _____ minutes Well Diameter: 1 inches
adjusted to: _____ mL/min at _____ minutes Well Volume: 0.2 gallons

Time	Purge Volume (gallons)	pH (s.u.)	ORP (mV)	Conductivity (mS/cm)	Temp. (°C)	DO (mg/L)	Turbidity (NTU)	Water Level (ft)
807	0.0	7.41	-420.0	1.12	15.2	2.58	Overrange	10.80
812	0.2	7.18	-66.9	1.13	15.2	1.76	Overrange	11.25
817	0.4	7.17	-75.1	1.12	15.1	0.96	2327	11.45
821	0.6	7.17	-80.1	1.12	15.0	0.84	684	11.85
826	1.0	7.15	-80.9	1.12	15.2	0.56	56.00	11.80
831	1.1	7.14	-83.9	1.13	15.2	0.37	39.5	11.80
836	1.3	7.14	-84.5	1.13	15.2	0.29	37.7	11.84
841	1.5	7.14	-85.1	1.13	15.2	0.24	47.9	11.90
846	1.8	7.15	-83.3	1.13	15.1	0.25	20.2	11.95
851	2.0	7.15	-84.6	1.13	15.2	0.23	21.4	11.96
Final Sample Data:		7.15	-84.6	1.13	15.2	0.23	21.4	11.96

Sample ID(s): MW-11-W

Field Test Kit Results: Ferrous Iron: 0.5 ppm

Sample Time: 900

Total Iron: 1.3ppm

Analyses:

TCL VOCs

Selenium

TPH

Remedial Parameters: Nitrate, Nitritite, Nitrate-Nitrite, Sulfate and Iron

Sampler(s): K. Premo and S. Burke

Comments: No odor, turbid @ 0807



**61 Commercial Street
Rochester, NY 14614
(585) 475-1440**

Monitoring Well Purging and Sampling Record

Site Name: 937 Genesee Street Well ID: MW-12
Initial Depth to Water: 10.1 ft TOIC Date: 8/27/2012
Total Well Depth: 11.95 ft TOIC Purge Start Time: 1220
Depth to Pump: 10 ft TOIC Purge End Time: 1249
Initial Pump Rate: 50 mL/min Pump Type: Geopump
adjusted to: _____ mL/min at _____ minutes Well Diameter: 1 inches
adjusted to: _____ mL/min at _____ minutes Well Volume: 0.37 gallons

Sample ID(s): MW-12-W

Sample Time: 1255

Analyses:

TCL VOCs

Selenium

□ TPH

Remedial Parameters: Nitrate, Nitritie, Nitrate-Nitrite, Sulfate and Iron

Sampler(s): K. Premo

Comments: Cloudy, no odor at 1224



**61 Commercial Street
Rochester, NY 14614
(585) 475-1440**

Monitoring Well Purging and Sampling Record

Site Name: 937 Genesee Street Well ID: MW-13
Initial Depth to Water: 11.61 ft TOIC Date: 8/27/2012
Total Well Depth: 13.68 ft TOIC Purge Start Time: 1540
Depth to Pump: 13 ft TOIC Purge End Time: 1606
Initial Pump Rate: 50 mL/min Pump Type: Geopump
adjusted to: _____ mL/min at _____ minutes Well Diameter: 1 inches
adjusted to: _____ mL/min at _____ minutes Well Volume: 0.08 gallons

Sample ID(s): MW-13-W
Sample Time: 1615

Analyses:

- TCL VOCs
 - Selenium
 - TPH
 - Remedial Parameters: Nitrate, Nitrite, Nitrate-Nitrite, Sulfate and Iron

Sampler(s): K. Premo

Comments:



61 Commercial Street
Rochester, NY 14614
(585) 475-1440

Monitoring Well Purging and Sampling Record

Site Name: 937 Genesee Street Well ID: MW-14
Initial Depth to Water: 10.82 ft TOIC Date: 8/28/2012
Total Well Depth: 15.59 ft TOIC Purge Start Time: 1311
Depth to Pump: 14 ft TOIC Purge End Time: 1352
Initial Pump Rate: 100 mL/min Pump Type: Geopump
adjusted to: _____ mL/min at _____ minutes Well Diameter: 1 inches
adjusted to: _____ mL/min at _____ minutes Well Volume: 0.19 gallons

Time	Purge Volume (gallons)	pH (s.u.)	ORP (mV)	Conductivity (mS/cm)	Temp. (°C)	DO (mg/L)	Turbidity (NTU)	Water Level (ft)
1312	0.0	7.60	-182.6	1.41	19.7	1.13	Overrange	11.30
1317	0.2	7.42	-220.9	1.37	19.8	0.20	666	11.36
1322	0.3	7.29	-202.5	1.34	20.1	0.19	85.6	11.35
1327	0.5	7.28	-206.4	1.34	21.1	0.19	72.5	11.30
1332	0.7	7.26	-199.9	1.34	20.1	0.15	36.8	11.33
1337	0.9	7.24	-195.3	1.33	19.9	0.16	24.4	11.36
1342	1.0	7.22	-193.0	1.32	20.2	0.14	18.5	11.38
1347	1.1	7.22	-190.2	1.32	20.3	0.13	14.6	11.40
1352	1.2	7.22	-192.3	1.32	20.2	0.13	9.8	11.39
Final Sample Data:								
7.22 -192.3 1.32 20.2 0.13 9.8 11.39								

Sample ID(s): MW-14-W

Field Test Kit Results: Ferrous Iron: 0.2 ppm

Sample Time: 1355

Total Iron: 0.3 ppm

Analyses:

- TCL VOCs
- Selenium
- TPH
- Remedial Parameters: Nitrate, Nitritite, Nitrate-Nitrite, Sulfate and Iron

Sampler(s): K. Premo and S. Burke

Comments: Turbid, sulfur odor



61 Commercial Street
Rochester, NY 14614
(585) 475-1440

Monitoring Well Purging and Sampling Record

Site Name: 937 Genesee Street Well ID: MW-18
Initial Depth to Water: 10.67 ft TOIC Date: 8/28/2012
Total Well Depth: 15.31 ft TOIC Purge Start Time: 1445
Depth to Pump: 14 ft TOIC Purge End Time: 1543
Initial Pump Rate: 100 mL/min Pump Type: Geopump
adjusted to: _____ mL/min at _____ minutes Well Diameter: 1 inches
adjusted to: _____ mL/min at _____ minutes Well Volume: 0.18 gallons

Time	Purge Volume (gallons)	pH (s.u.)	ORP (mV)	Conductivity (mS/cm)	Temp. (°C)	DO (mg/L)	Turbidity (NTU)	Water Level (ft)
1448	0.0	7.31	-64.1	1.91	21.7	0.64	3359	10.86
1453	0.1	7.10	-82.7	1.83	20.9	0.34	104	10.94
1458	0.2	7.09	-88.3	1.81	20.7	0.31	111	10.92
1503	0.4	7.10	-102.5	1.81	21.2	0.26	62.6	10.90
1208	0.6	7.11	-113.0	1.8	20.8	0.25	24.5	10.94
1513	0.8	7.12	-121.6	1.78	20.8	0.22	16.1	10.94
1518	1.0	7.11	-128.1	1.76	20.2	0.19	11.3	10.96
1523	1.1	7.12	-136.6	1.75	20.2	0.17	9.2	10.97
1528	1.2	7.12	-143.0	1.75	20.2	0.15	6.5	10.96
1533	1.5	7.13	-147.9	1.74	20.0	0.14	4.7	10.96
1538	1.8	7.13	-151.2	1.74	20.0	0.13	4.49	10.94
1543	2.0	7.14	-153.1	1.73	20.5	0.13	4.25	10.94
Final Sample Data:		7.14	-153.1	1.73	20.5	0.13	4.3	10.94

Sample ID(s): MW-14-W

Sample Time: 1355

Analyses:

- TCL VOCs
 Selenium
 TPH
 Remedial Parameters: Nitrate, Nitritite, Nitrate-Nitrite, Sulfate and Iron

Sampler(s): K. Premo and S. Burke

Comments: Turbid,no odor



61 Commercial Street
Rochester, NY 14614
(585) 475-1440

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Monitoring Well Purging and Sampling Record

Site Name: 937 Genesee Street Well ID: MW-19D
Initial Depth to Water: 10.28 ft TOIC Date: 8/27/2012
Total Well Depth: 32.6 ft TOIC Purge Start Time: 920
Depth to Pump: 24 ft TOIC Purge End Time: 1110
Initial Pump Rate: 80 mL/min Pump Type: Geopump
adjusted to: 50 mL/min at 1100 minutes Well Diameter: 2 inches
adjusted to: mL/min at minutes Well Volume: 3.57 gallons

Time	Purge Volume (gallons)	pH (s.u.)	ORP (mV)	Conductivity (mS/cm)	Temp. (°C)	DO (mg/L)	Turbidity (NTU)	Water Level (ft)
925	0.0	8.11	-217.0	1.03	17.3	1.28	15.7	10.46
930	0.1	9.38	-297.9	1.02	17.0	0.23	21.4	10.47
935	0.2	9.45	-322.2	1.03	17.0	0.17	22.3	10.47
940	0.4	9.47	-343.2	1.02	17.3	0.14	23.5	10.48
945	0.6	9.28	-328.4	1.03	16.5	0.24	12.9	10.48
950	0.8	9.12	-320.7	1.03	16.3	0.15	10.1	10.47
955	1.0	9.01	-286.3	1.03	16.3	0.15	13.2	10.46
1000	1.1	8.82	-277.4	1.07	16.3	0.13	10.2	10.46
1005	1.4	8.78	-280.5	1.08	16.3	0.13	10.4	10.46
1010	1.6	8.68	-270	1.10	16.4	0.14	3.59	10.46
1015	1.8	8.67	-281.2	1.11	16.2	0.19	4.19	10.45
1020	2.0	8.64	-281.3	1.11	16.2	0.14	4.3	10.47
1025	2.1	8.55	-270.6	1.12	16.1	0.16	5.69	10.46
1030	2.2	8.51	-275.5	1.13	16.2	0.15	3.92	10.45
Final Sample Data:		8.25	-280.2	1.15	16.8	0.13	3.6	10.41

Sample ID(s): MW-19D-W

Field Test Kit Results: Ferrous Iron: 0.2 ppm

Sample Time: 1110

Total Iron: 0.3 ppm

Analyses:

- TCL VOCs
 Selenium
 TPH
 Remedial Parameters: Nitrate, Nitritite, Nitrate-Nitrite, Sulfate and Iron

Sampler(s): K. Premo and S. Burke

Comments: Turbid, no odor



**61 Commercial Street
Rochester, NY 14614
(585) 475-1440**

Page 2 of 2

Monitoring Well Purging and Sampling Record

Site Name: 937 Genesee Street Well ID: MW-19D
Initial Depth to Water: 10.28 ft TOIC Date: 8/27/2012
Total Well Depth: 32.6 ft TOIC Purge Start Time: 920
Depth to Pump: 24 ft TOIC Purge End Time: 1110
Initial Pump Rate: 80 mL/min Pump Type: Geopump
adjusted to: 50 mL/min at 1100 minutes Well Diameter: 2 inches
adjusted to: mL/min at minutes Well Volume: 3.57 gallons

Sample ID(s): MW-19D- W
Sample Time: 1110

Field Test Kit Results: Ferrous Iron: 0.2 ppm
Total Iron: 0.3 ppm

Analyses:

- TCL VOCs
- Selenium
- TPH
- Remedial Parameters: Nitrate, Nitritie, Nitrate-Nitrite, Sulfate and Iron

Sampler(s): K. Premo and S. Burke

APPENDIX C

Report Date:
31-Aug-12 11:17

- Final Report
 Re-Issued Report
 Revised Report



Laboratory Report

Stantec Consulting
61 Commercial Street
Rochester, NY 14614

Work Order: L1794
Project: Genesee Street
Project #:

Attn: Mike Storonsky

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
L1794-01	B-9S	Soil	20-Aug-12 09:30	22-Aug-12 11:35
L1794-02	B-10S	Soil	20-Aug-12 09:58	22-Aug-12 11:35
L1794-03	B-11S	Soil	20-Aug-12 10:25	22-Aug-12 11:35
L1794-04	B-12S	Soil	20-Aug-12 11:10	22-Aug-12 11:35
L1794-05	B-13S	Soil	20-Aug-12 11:30	22-Aug-12 11:35
L1794-06	B-14S	Soil	20-Aug-12 12:00	22-Aug-12 11:35
L1794-07	B-15S	Soil	20-Aug-12 13:30	22-Aug-12 11:35
L1794-08	B-16S	Soil	20-Aug-12 14:04	22-Aug-12 11:35
L1794-10	B-18S	Soil	20-Aug-12 15:00	22-Aug-12 11:35

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirements have been met.

Spectrum Analytical (Rhode Island) is accredited under the National Environmental Laboratory Approval Program (NELAP) and DoD Environmental Laboratory Accreditation Program (ELAP), holds Organic and Inorganic contracts under the USEPA CLP Program and is certified under several states. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.spectrum-analytical.com.

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Florida	E87664
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
North Carolina	581
Pennsylvania	68-00520
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033

Authorized by:

Yihai Ding
Laboratory Director



REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : Stantec Consulting

Project: Genesee Street

Laboratory Workorder / SDG #: L1794

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8260C

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW5035

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V10

Instrument Type: GCMS-VOA

Description: HP7890A

Manufacturer: Agilent

Model: 7890A / 5975C

GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624 capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits with the following exceptions. Please note that the acceptance criteria allow one surrogate recovery outside of the QC limits per fraction.

B-14S (L1794-06B), recovery is above criteria for Bromofluorobenzene at 118% with criteria of (77-111).

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

Tentatively identified compounds were determined for the samples.

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: _____

A handwritten signature in black ink, appearing to read "Dawn Brumley".

Date: 08/28/12

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : Stantec Consulting

Project: Genesee Street

Laboratory Workorder / SDG #: L1794

SW846 8015D TPH, Total Petroleum Hydrocarbons (TPH) by GC-FID

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8015D TPH

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW3550

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: F1
Instrument Type: GC-FID
Description: HP6890
Manufacturer: Hewlett-Packard
Model: 6890

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Dilutions:

No sample in this SDG required analysis at dilution.

F. Samples:

Mitkem's analysis method is designed to separate and identify common hydrocarbon fuels and other petroleum-related products. Samples are analyzed using capillary gas chromatography with flame ionization detection. Results are compared to a library of standards of known petroleum products obtained from commercial analytical standard

sources. The following petroleum products are included in the library of standards: Fuel oils #1, #2/diesel, #3, #4, #5, #6, kerosene, mineral spirits, turpentine, paint thinner, jet fuels JP-4, JP-5, gasoline, aviation gasoline, lubricating oil, motor oil, hydraulic oil, transmission oil, coal tar, creosote.

The analysis summarized on this report sheet does not provide enough information to identify specific sources for the hydrocarbons in the sample. Hydrocarbon fuels and other products are identified by comparison of the pattern of resolved and unresolved peaks to that of known fuel or product standards. The result reported below include information on where the resolved and unresolved peaks in each sample compare to those of known products, but due to the nature of the samples are not definitive. The patterns of peaks in these samples could be derived from both single products or mixtures of two or more products. Evaporative and/or biological weathering can also complicate product identification.

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: _____



Date: 08/28/12

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : Stantec Consulting

Project: Genesee Street

Laboratory Workorder / SDG #: L1794

SW846 6010C, SW846 7471B

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 6010C, SW846 7471B

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW3050

Soil Samples were prepared following procedures in laboratory test code: SW7471B

V. INSTRUMENTATION

The following instrumentation was used to perform

Instrument Code: FIMS2

Instrument Type: CVAA

Description: FIMS

Manufacturer: Perkin-Elmer

Model: FIMS100

Instrument Code: OPTIMA3

Instrument Type: ICP

Description: Optima ICP-OES

Manufacturer: Perkin-Elmer

Model: 4300 DV

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for laboratory control samples were within the QC limits.

2. Matrix spike (MS):

Matrix spikes were performed on sample: B-18S (L1794-10AMS).

Percent recoveries were within the QC limits.

D. Post Digestion Spike (PDS):

A post-digestion spike was not performed on any sample in this SDG.

E. Duplicate sample:

Duplicate analysis was performed on sample: B-18S (L1794-10ADUP).

Percent RPDs were within the QC limits.

F. Serial Dilution (SD):

Serial Dilution analysis was performed on sample: B-18S (L1794-10ASD).

Percent RPDs were within the QC limits.

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum RI, both technically and for completeness, except for the conditions noted above.
Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: 

Date: 08/28/12

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

08/31/2012

Client: Stantec Consulting

Client Sample ID: B-9S

Lab ID: L1794-01

Project: Genesee Street

Collection Date: 08/20/12 9:30

Analyses	Result	Qual	RL Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS						
Chloromethane	ND		6.3 ug/Kg		108/23/2012 15:27	67807
Vinyl chloride	ND		6.3 ug/Kg		108/23/2012 15:27	67807
Bromomethane	ND		6.3 ug/Kg		108/23/2012 15:27	67807
Chloroethane	ND		6.3 ug/Kg		108/23/2012 15:27	67807
Trichlorofluoromethane	ND		6.3 ug/Kg		108/23/2012 15:27	67807
1,1-Dichloroethene	ND		6.3 ug/Kg		108/23/2012 15:27	67807
Acetone	ND		6.3 ug/Kg		108/23/2012 15:27	67807
Carbon disulfide	ND		6.3 ug/Kg		108/23/2012 15:27	67807
Methylene chloride	ND		6.3 ug/Kg		108/23/2012 15:27	67807
trans-1,2-Dichloroethene	ND		6.3 ug/Kg		108/23/2012 15:27	67807
Methyl tert-butyl ether	ND		6.3 ug/Kg		108/23/2012 15:27	67807
1,1-Dichloroethane	ND		6.3 ug/Kg		108/23/2012 15:27	67807
Vinyl acetate	ND		6.3 ug/Kg		108/23/2012 15:27	67807
2-Butanone	ND		6.3 ug/Kg		108/23/2012 15:27	67807
cis-1,2-Dichloroethene	ND		6.3 ug/Kg		108/23/2012 15:27	67807
Chloroform	ND		6.3 ug/Kg		108/23/2012 15:27	67807
1,1,1-Trichloroethane	ND		6.3 ug/Kg		108/23/2012 15:27	67807
Carbon tetrachloride	ND		6.3 ug/Kg		108/23/2012 15:27	67807
1,2-Dichloroethane	ND		6.3 ug/Kg		108/23/2012 15:27	67807
Benzene	ND		6.3 ug/Kg		108/23/2012 15:27	67807
Trichloroethene	ND		6.3 ug/Kg		108/23/2012 15:27	67807
1,2-Dichloropropane	ND		6.3 ug/Kg		108/23/2012 15:27	67807
Bromodichloromethane	ND		6.3 ug/Kg		108/23/2012 15:27	67807
cis-1,3-Dichloropropene	ND		6.3 ug/Kg		108/23/2012 15:27	67807
4-Methyl-2-pentanone	ND		6.3 ug/Kg		108/23/2012 15:27	67807
Toluene	ND		6.3 ug/Kg		108/23/2012 15:27	67807
trans-1,3-Dichloropropene	ND		6.3 ug/Kg		108/23/2012 15:27	67807
1,1,2-Trichloroethane	ND		6.3 ug/Kg		108/23/2012 15:27	67807
Tetrachloroethene	ND		6.3 ug/Kg		108/23/2012 15:27	67807
2-Hexanone	ND		6.3 ug/Kg		108/23/2012 15:27	67807
Dibromochloromethane	ND		6.3 ug/Kg		108/23/2012 15:27	67807
Chlorobenzene	ND		6.3 ug/Kg		108/23/2012 15:27	67807
Ethylbenzene	ND		6.3 ug/Kg		108/23/2012 15:27	67807
m,p-Xylene	ND		6.3 ug/Kg		108/23/2012 15:27	67807
o-Xylene	ND		6.3 ug/Kg		108/23/2012 15:27	67807
Styrene	ND		6.3 ug/Kg		108/23/2012 15:27	67807
Bromoform	ND		6.3 ug/Kg		108/23/2012 15:27	67807
Isopropylbenzene	ND		6.3 ug/Kg		108/23/2012 15:27	67807
1,1,2,2-Tetrachloroethane	ND		6.3 ug/Kg		108/23/2012 15:27	67807

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

08/31/2012

Client: Stantec Consulting

Client Sample ID: B-9S

Lab ID: L1794-01

Project: Genesee Street

Collection Date: 08/20/12 9:30

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS				
n-Propylbenzene	ND	6.3 ug/Kg	108/23/2012 15:27	67807
1,3,5-Trimethylbenzene	ND	6.3 ug/Kg	108/23/2012 15:27	67807
tert-Butylbenzene	ND	6.3 ug/Kg	108/23/2012 15:27	67807
1,2,4-Trimethylbenzene	ND	6.3 ug/Kg	108/23/2012 15:27	67807
sec-Butylbenzene	ND	6.3 ug/Kg	108/23/2012 15:27	67807
4-Isopropyltoluene	ND	6.3 ug/Kg	108/23/2012 15:27	67807
1,3-Dichlorobenzene	ND	6.3 ug/Kg	108/23/2012 15:27	67807
1,4-Dichlorobenzene	ND	6.3 ug/Kg	108/23/2012 15:27	67807
n-Butylbenzene	ND	6.3 ug/Kg	108/23/2012 15:27	67807
1,2-Dichlorobenzene	ND	6.3 ug/Kg	108/23/2012 15:27	67807
Naphthalene	ND	6.3 ug/Kg	108/23/2012 15:27	67807
2-Chloroethyl vinyl ether	ND	6.3 ug/Kg	108/23/2012 15:27	67807
Surrogate: Dibromofluoromethane	109	65-132 %REC	108/23/2012 15:27	67807
Surrogate: 1,2-Dichloroethane-d4	99.5	65-128 %REC	108/23/2012 15:27	67807
Surrogate: Toluene-d8	103	85-115 %REC	108/23/2012 15:27	67807
Surrogate: Bromofluorobenzene	91.7	77-111 %REC	108/23/2012 15:27	67807

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

08/31/2012

Client: Stantec Consulting

Client Sample ID: B-10S

Lab ID: L1794-02

Project: Genesee Street

Collection Date: 08/20/12 9:58

Analyses	Result	Qual	RL Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS						
Chloromethane	ND		5.5 ug/Kg		108/23/2012 15:54	67807
Vinyl chloride	ND		5.5 ug/Kg		108/23/2012 15:54	67807
Bromomethane	ND		5.5 ug/Kg		108/23/2012 15:54	67807
Chloroethane	ND		5.5 ug/Kg		108/23/2012 15:54	67807
Trichlorofluoromethane	ND		5.5 ug/Kg		108/23/2012 15:54	67807
1,1-Dichloroethene	ND		5.5 ug/Kg		108/23/2012 15:54	67807
Acetone	ND		5.5 ug/Kg		108/23/2012 15:54	67807
Carbon disulfide	ND		5.5 ug/Kg		108/23/2012 15:54	67807
Methylene chloride	ND		5.5 ug/Kg		108/23/2012 15:54	67807
trans-1,2-Dichloroethene	ND		5.5 ug/Kg		108/23/2012 15:54	67807
Methyl tert-butyl ether	ND		5.5 ug/Kg		108/23/2012 15:54	67807
1,1-Dichloroethane	ND		5.5 ug/Kg		108/23/2012 15:54	67807
Vinyl acetate	ND		5.5 ug/Kg		108/23/2012 15:54	67807
2-Butanone	ND		5.5 ug/Kg		108/23/2012 15:54	67807
cis-1,2-Dichloroethene	ND		5.5 ug/Kg		108/23/2012 15:54	67807
Chloroform	ND		5.5 ug/Kg		108/23/2012 15:54	67807
1,1,1-Trichloroethane	ND		5.5 ug/Kg		108/23/2012 15:54	67807
Carbon tetrachloride	ND		5.5 ug/Kg		108/23/2012 15:54	67807
1,2-Dichloroethane	ND		5.5 ug/Kg		108/23/2012 15:54	67807
Benzene	ND		5.5 ug/Kg		108/23/2012 15:54	67807
Trichloroethene	ND		5.5 ug/Kg		108/23/2012 15:54	67807
1,2-Dichloropropane	ND		5.5 ug/Kg		108/23/2012 15:54	67807
Bromodichloromethane	ND		5.5 ug/Kg		108/23/2012 15:54	67807
cis-1,3-Dichloropropene	ND		5.5 ug/Kg		108/23/2012 15:54	67807
4-Methyl-2-pentanone	ND		5.5 ug/Kg		108/23/2012 15:54	67807
Toluene	ND		5.5 ug/Kg		108/23/2012 15:54	67807
trans-1,3-Dichloropropene	ND		5.5 ug/Kg		108/23/2012 15:54	67807
1,1,2-Trichloroethane	ND		5.5 ug/Kg		108/23/2012 15:54	67807
Tetrachloroethene	ND		5.5 ug/Kg		108/23/2012 15:54	67807
2-Hexanone	ND		5.5 ug/Kg		108/23/2012 15:54	67807
Dibromochloromethane	ND		5.5 ug/Kg		108/23/2012 15:54	67807
Chlorobenzene	ND		5.5 ug/Kg		108/23/2012 15:54	67807
Ethylbenzene	ND		5.5 ug/Kg		108/23/2012 15:54	67807
m,p-Xylene	ND		5.5 ug/Kg		108/23/2012 15:54	67807
o-Xylene	ND		5.5 ug/Kg		108/23/2012 15:54	67807
Styrene	ND		5.5 ug/Kg		108/23/2012 15:54	67807
Bromoform	ND		5.5 ug/Kg		108/23/2012 15:54	67807
Isopropylbenzene	ND		5.5 ug/Kg		108/23/2012 15:54	67807
1,1,2,2-Tetrachloroethane	ND		5.5 ug/Kg		108/23/2012 15:54	67807

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

08/31/2012

Client: Stantec Consulting

Client Sample ID: B-10S

Lab ID: L1794-02

Project: Genesee Street

Collection Date: 08/20/12 9:58

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS				
n-Propylbenzene	ND	5.5 ug/Kg	108/23/2012 15:54	67807
1,3,5-Trimethylbenzene	ND	5.5 ug/Kg	108/23/2012 15:54	67807
tert-Butylbenzene	ND	5.5 ug/Kg	108/23/2012 15:54	67807
1,2,4-Trimethylbenzene	ND	5.5 ug/Kg	108/23/2012 15:54	67807
sec-Butylbenzene	ND	5.5 ug/Kg	108/23/2012 15:54	67807
4-Isopropyltoluene	ND	5.5 ug/Kg	108/23/2012 15:54	67807
1,3-Dichlorobenzene	ND	5.5 ug/Kg	108/23/2012 15:54	67807
1,4-Dichlorobenzene	ND	5.5 ug/Kg	108/23/2012 15:54	67807
n-Butylbenzene	ND	5.5 ug/Kg	108/23/2012 15:54	67807
1,2-Dichlorobenzene	ND	5.5 ug/Kg	108/23/2012 15:54	67807
Naphthalene	2.5 J	5.5 ug/Kg	108/23/2012 15:54	67807
2-Chloroethyl vinyl ether	ND	5.5 ug/Kg	108/23/2012 15:54	67807
Surrogate: Dibromofluoromethane	111	65-132 %REC	108/23/2012 15:54	67807
Surrogate: 1,2-Dichloroethane-d4	104	65-128 %REC	108/23/2012 15:54	67807
Surrogate: Toluene-d8	102	85-115 %REC	108/23/2012 15:54	67807
Surrogate: Bromofluorobenzene	94.7	77-111 %REC	108/23/2012 15:54	67807

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

08/31/2012

Client: Stantec Consulting

Client Sample ID: B-11S

Lab ID: L1794-03

Project: Genesee Street

Collection Date: 08/20/12 10:25

Analyses	Result Qual	RL Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS					
Chloromethane	ND	5.6 ug/Kg		108/23/2012 16:20	67807
Vinyl chloride	ND	5.6 ug/Kg		108/23/2012 16:20	67807
Bromomethane	ND	5.6 ug/Kg		108/23/2012 16:20	67807
Chloroethane	ND	5.6 ug/Kg		108/23/2012 16:20	67807
Trichlorofluoromethane	ND	5.6 ug/Kg		108/23/2012 16:20	67807
1,1-Dichloroethene	ND	5.6 ug/Kg		108/23/2012 16:20	67807
Acetone	ND	5.6 ug/Kg		108/23/2012 16:20	67807
Carbon disulfide	ND	5.6 ug/Kg		108/23/2012 16:20	67807
Methylene chloride	ND	5.6 ug/Kg		108/23/2012 16:20	67807
trans-1,2-Dichloroethene	ND	5.6 ug/Kg		108/23/2012 16:20	67807
Methyl tert-butyl ether	ND	5.6 ug/Kg		108/23/2012 16:20	67807
1,1-Dichloroethane	ND	5.6 ug/Kg		108/23/2012 16:20	67807
Vinyl acetate	ND	5.6 ug/Kg		108/23/2012 16:20	67807
2-Butanone	ND	5.6 ug/Kg		108/23/2012 16:20	67807
cis-1,2-Dichloroethene	ND	5.6 ug/Kg		108/23/2012 16:20	67807
Chloroform	ND	5.6 ug/Kg		108/23/2012 16:20	67807
1,1,1-Trichloroethane	ND	5.6 ug/Kg		108/23/2012 16:20	67807
Carbon tetrachloride	ND	5.6 ug/Kg		108/23/2012 16:20	67807
1,2-Dichloroethane	ND	5.6 ug/Kg		108/23/2012 16:20	67807
Benzene	ND	5.6 ug/Kg		108/23/2012 16:20	67807
Trichloroethene	ND	5.6 ug/Kg		108/23/2012 16:20	67807
1,2-Dichloropropane	ND	5.6 ug/Kg		108/23/2012 16:20	67807
Bromodichloromethane	ND	5.6 ug/Kg		108/23/2012 16:20	67807
cis-1,3-Dichloropropene	ND	5.6 ug/Kg		108/23/2012 16:20	67807
4-Methyl-2-pentanone	ND	5.6 ug/Kg		108/23/2012 16:20	67807
Toluene	1.7 J	5.6 ug/Kg		108/23/2012 16:20	67807
trans-1,3-Dichloropropene	ND	5.6 ug/Kg		108/23/2012 16:20	67807
1,1,2-Trichloroethane	ND	5.6 ug/Kg		108/23/2012 16:20	67807
Tetrachloroethene	ND	5.6 ug/Kg		108/23/2012 16:20	67807
2-Hexanone	ND	5.6 ug/Kg		108/23/2012 16:20	67807
Dibromochloromethane	ND	5.6 ug/Kg		108/23/2012 16:20	67807
Chlorobenzene	ND	5.6 ug/Kg		108/23/2012 16:20	67807
Ethylbenzene	ND	5.6 ug/Kg		108/23/2012 16:20	67807
m,p-Xylene	ND	5.6 ug/Kg		108/23/2012 16:20	67807
o-Xylene	ND	5.6 ug/Kg		108/23/2012 16:20	67807
Styrene	ND	5.6 ug/Kg		108/23/2012 16:20	67807
Bromoform	ND	5.6 ug/Kg		108/23/2012 16:20	67807
Isopropylbenzene	ND	5.6 ug/Kg		108/23/2012 16:20	67807
1,1,2,2-Tetrachloroethane	ND	5.6 ug/Kg		108/23/2012 16:20	67807

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

08/31/2012

Client: Stantec Consulting

Client Sample ID: B-11S

Lab ID: L1794-03

Project: Genesee Street

Collection Date: 08/20/12 10:25

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS				
n-Propylbenzene	ND	5.6 ug/Kg	108/23/2012 16:20	67807
1,3,5-Trimethylbenzene	ND	5.6 ug/Kg	108/23/2012 16:20	67807
tert-Butylbenzene	ND	5.6 ug/Kg	108/23/2012 16:20	67807
1,2,4-Trimethylbenzene	ND	5.6 ug/Kg	108/23/2012 16:20	67807
sec-Butylbenzene	ND	5.6 ug/Kg	108/23/2012 16:20	67807
4-Isopropyltoluene	ND	5.6 ug/Kg	108/23/2012 16:20	67807
1,3-Dichlorobenzene	ND	5.6 ug/Kg	108/23/2012 16:20	67807
1,4-Dichlorobenzene	ND	5.6 ug/Kg	108/23/2012 16:20	67807
n-Butylbenzene	ND	5.6 ug/Kg	108/23/2012 16:20	67807
1,2-Dichlorobenzene	ND	5.6 ug/Kg	108/23/2012 16:20	67807
Naphthalene	ND	5.6 ug/Kg	108/23/2012 16:20	67807
2-Chloroethyl vinyl ether	ND	5.6 ug/Kg	108/23/2012 16:20	67807
Surrogate: Dibromofluoromethane	107	65-132 %REC	108/23/2012 16:20	67807
Surrogate: 1,2-Dichloroethane-d4	103	65-128 %REC	108/23/2012 16:20	67807
Surrogate: Toluene-d8	102	85-115 %REC	108/23/2012 16:20	67807
Surrogate: Bromofluorobenzene	92.9	77-111 %REC	108/23/2012 16:20	67807

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

08/31/2012

Client: Stantec Consulting

Client Sample ID: B-12S

Lab ID: L1794-04

Project: Genesee Street

Collection Date: 08/20/12 11:10

Analyses	Result	Qual	RL Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS						
Chloromethane	ND		6.3 ug/Kg		108/23/2012 16:47	67807
Vinyl chloride	ND		6.3 ug/Kg		108/23/2012 16:47	67807
Bromomethane	ND		6.3 ug/Kg		108/23/2012 16:47	67807
Chloroethane	ND		6.3 ug/Kg		108/23/2012 16:47	67807
Trichlorofluoromethane	ND		6.3 ug/Kg		108/23/2012 16:47	67807
1,1-Dichloroethene	ND		6.3 ug/Kg		108/23/2012 16:47	67807
Acetone	6.2	J	6.3 ug/Kg		108/23/2012 16:47	67807
Carbon disulfide	ND		6.3 ug/Kg		108/23/2012 16:47	67807
Methylene chloride	1.9	J	6.3 ug/Kg		108/23/2012 16:47	67807
trans-1,2-Dichloroethene	ND		6.3 ug/Kg		108/23/2012 16:47	67807
Methyl tert-butyl ether	ND		6.3 ug/Kg		108/23/2012 16:47	67807
1,1-Dichloroethane	ND		6.3 ug/Kg		108/23/2012 16:47	67807
Vinyl acetate	ND		6.3 ug/Kg		108/23/2012 16:47	67807
2-Butanone	ND		6.3 ug/Kg		108/23/2012 16:47	67807
cis-1,2-Dichloroethene	ND		6.3 ug/Kg		108/23/2012 16:47	67807
Chloroform	ND		6.3 ug/Kg		108/23/2012 16:47	67807
1,1,1-Trichloroethane	ND		6.3 ug/Kg		108/23/2012 16:47	67807
Carbon tetrachloride	ND		6.3 ug/Kg		108/23/2012 16:47	67807
1,2-Dichloroethane	ND		6.3 ug/Kg		108/23/2012 16:47	67807
Benzene	ND		6.3 ug/Kg		108/23/2012 16:47	67807
Trichloroethene	ND		6.3 ug/Kg		108/23/2012 16:47	67807
1,2-Dichloropropane	ND		6.3 ug/Kg		108/23/2012 16:47	67807
Bromodichloromethane	ND		6.3 ug/Kg		108/23/2012 16:47	67807
cis-1,3-Dichloropropene	ND		6.3 ug/Kg		108/23/2012 16:47	67807
4-Methyl-2-pentanone	ND		6.3 ug/Kg		108/23/2012 16:47	67807
Toluene	ND		6.3 ug/Kg		108/23/2012 16:47	67807
trans-1,3-Dichloropropene	ND		6.3 ug/Kg		108/23/2012 16:47	67807
1,1,2-Trichloroethane	ND		6.3 ug/Kg		108/23/2012 16:47	67807
Tetrachloroethene	ND		6.3 ug/Kg		108/23/2012 16:47	67807
2-Hexanone	ND		6.3 ug/Kg		108/23/2012 16:47	67807
Dibromochloromethane	ND		6.3 ug/Kg		108/23/2012 16:47	67807
Chlorobenzene	ND		6.3 ug/Kg		108/23/2012 16:47	67807
Ethylbenzene	ND		6.3 ug/Kg		108/23/2012 16:47	67807
m,p-Xylene	ND		6.3 ug/Kg		108/23/2012 16:47	67807
o-Xylene	ND		6.3 ug/Kg		108/23/2012 16:47	67807
Styrene	ND		6.3 ug/Kg		108/23/2012 16:47	67807
Bromoform	ND		6.3 ug/Kg		108/23/2012 16:47	67807
Isopropylbenzene	ND		6.3 ug/Kg		108/23/2012 16:47	67807
1,1,2,2-Tetrachloroethane	ND		6.3 ug/Kg		108/23/2012 16:47	67807

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

08/31/2012

Client: Stantec Consulting

Client Sample ID: B-12S

Lab ID: L1794-04

Project: Genesee Street

Collection Date: 08/20/12 11:10

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS				
n-Propylbenzene	ND	6.3 ug/Kg	108/23/2012 16:47	67807
1,3,5-Trimethylbenzene	ND	6.3 ug/Kg	108/23/2012 16:47	67807
tert-Butylbenzene	ND	6.3 ug/Kg	108/23/2012 16:47	67807
1,2,4-Trimethylbenzene	ND	6.3 ug/Kg	108/23/2012 16:47	67807
sec-Butylbenzene	ND	6.3 ug/Kg	108/23/2012 16:47	67807
4-Isopropyltoluene	ND	6.3 ug/Kg	108/23/2012 16:47	67807
1,3-Dichlorobenzene	ND	6.3 ug/Kg	108/23/2012 16:47	67807
1,4-Dichlorobenzene	ND	6.3 ug/Kg	108/23/2012 16:47	67807
n-Butylbenzene	ND	6.3 ug/Kg	108/23/2012 16:47	67807
1,2-Dichlorobenzene	ND	6.3 ug/Kg	108/23/2012 16:47	67807
Naphthalene	ND	6.3 ug/Kg	108/23/2012 16:47	67807
2-Chloroethyl vinyl ether	ND	6.3 ug/Kg	108/23/2012 16:47	67807
Surrogate: Dibromofluoromethane	111	65-132 %REC	108/23/2012 16:47	67807
Surrogate: 1,2-Dichloroethane-d4	102	65-128 %REC	108/23/2012 16:47	67807
Surrogate: Toluene-d8	104	85-115 %REC	108/23/2012 16:47	67807
Surrogate: Bromofluorobenzene	92.8	77-111 %REC	108/23/2012 16:47	67807

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

08/31/2012

Client: Stantec Consulting

Client Sample ID: B-13S

Lab ID: L1794-05

Project: Genesee Street

Collection Date: 08/20/12 11:30

Analyses	Result	Qual	RL Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS						
Chloromethane	ND		4.9 ug/Kg		108/23/2012 17:14	67807
Vinyl chloride	ND		4.9 ug/Kg		108/23/2012 17:14	67807
Bromomethane	ND		4.9 ug/Kg		108/23/2012 17:14	67807
Chloroethane	ND		4.9 ug/Kg		108/23/2012 17:14	67807
Trichlorofluoromethane	ND		4.9 ug/Kg		108/23/2012 17:14	67807
1,1-Dichloroethene	ND		4.9 ug/Kg		108/23/2012 17:14	67807
Acetone	ND		4.9 ug/Kg		108/23/2012 17:14	67807
Carbon disulfide	ND		4.9 ug/Kg		108/23/2012 17:14	67807
Methylene chloride	2.1 J		4.9 ug/Kg		108/23/2012 17:14	67807
trans-1,2-Dichloroethene	ND		4.9 ug/Kg		108/23/2012 17:14	67807
Methyl tert-butyl ether	ND		4.9 ug/Kg		108/23/2012 17:14	67807
1,1-Dichloroethane	ND		4.9 ug/Kg		108/23/2012 17:14	67807
Vinyl acetate	ND		4.9 ug/Kg		108/23/2012 17:14	67807
2-Butanone	ND		4.9 ug/Kg		108/23/2012 17:14	67807
cis-1,2-Dichloroethene	ND		4.9 ug/Kg		108/23/2012 17:14	67807
Chloroform	ND		4.9 ug/Kg		108/23/2012 17:14	67807
1,1,1-Trichloroethane	ND		4.9 ug/Kg		108/23/2012 17:14	67807
Carbon tetrachloride	ND		4.9 ug/Kg		108/23/2012 17:14	67807
1,2-Dichloroethane	ND		4.9 ug/Kg		108/23/2012 17:14	67807
Benzene	ND		4.9 ug/Kg		108/23/2012 17:14	67807
Trichloroethene	ND		4.9 ug/Kg		108/23/2012 17:14	67807
1,2-Dichloropropane	ND		4.9 ug/Kg		108/23/2012 17:14	67807
Bromodichloromethane	ND		4.9 ug/Kg		108/23/2012 17:14	67807
cis-1,3-Dichloropropene	ND		4.9 ug/Kg		108/23/2012 17:14	67807
4-Methyl-2-pentanone	ND		4.9 ug/Kg		108/23/2012 17:14	67807
Toluene	ND		4.9 ug/Kg		108/23/2012 17:14	67807
trans-1,3-Dichloropropene	ND		4.9 ug/Kg		108/23/2012 17:14	67807
1,1,2-Trichloroethane	ND		4.9 ug/Kg		108/23/2012 17:14	67807
Tetrachloroethene	ND		4.9 ug/Kg		108/23/2012 17:14	67807
2-Hexanone	ND		4.9 ug/Kg		108/23/2012 17:14	67807
Dibromochloromethane	ND		4.9 ug/Kg		108/23/2012 17:14	67807
Chlorobenzene	ND		4.9 ug/Kg		108/23/2012 17:14	67807
Ethylbenzene	ND		4.9 ug/Kg		108/23/2012 17:14	67807
m,p-Xylene	ND		4.9 ug/Kg		108/23/2012 17:14	67807
o-Xylene	ND		4.9 ug/Kg		108/23/2012 17:14	67807
Styrene	ND		4.9 ug/Kg		108/23/2012 17:14	67807
Bromoform	ND		4.9 ug/Kg		108/23/2012 17:14	67807
Isopropylbenzene	ND		4.9 ug/Kg		108/23/2012 17:14	67807
1,1,2,2-Tetrachloroethane	ND		4.9 ug/Kg		108/23/2012 17:14	67807

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

08/31/2012

Client: Stantec Consulting

Client Sample ID: B-13S

Lab ID: L1794-05

Project: Genesee Street

Collection Date: 08/20/12 11:30

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS				
n-Propylbenzene	ND	4.9 ug/Kg	108/23/2012 17:14	67807
1,3,5-Trimethylbenzene	ND	4.9 ug/Kg	108/23/2012 17:14	67807
tert-Butylbenzene	ND	4.9 ug/Kg	108/23/2012 17:14	67807
1,2,4-Trimethylbenzene	ND	4.9 ug/Kg	108/23/2012 17:14	67807
sec-Butylbenzene	ND	4.9 ug/Kg	108/23/2012 17:14	67807
4-Isopropyltoluene	ND	4.9 ug/Kg	108/23/2012 17:14	67807
1,3-Dichlorobenzene	ND	4.9 ug/Kg	108/23/2012 17:14	67807
1,4-Dichlorobenzene	ND	4.9 ug/Kg	108/23/2012 17:14	67807
n-Butylbenzene	ND	4.9 ug/Kg	108/23/2012 17:14	67807
1,2-Dichlorobenzene	ND	4.9 ug/Kg	108/23/2012 17:14	67807
Naphthalene	ND	4.9 ug/Kg	108/23/2012 17:14	67807
2-Chloroethyl vinyl ether	ND	4.9 ug/Kg	108/23/2012 17:14	67807
Surrogate: Dibromofluoromethane	110	65-132 %REC	108/23/2012 17:14	67807
Surrogate: 1,2-Dichloroethane-d4	102	65-128 %REC	108/23/2012 17:14	67807
Surrogate: Toluene-d8	103	85-115 %REC	108/23/2012 17:14	67807
Surrogate: Bromofluorobenzene	92.9	77-111 %REC	108/23/2012 17:14	67807

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

08/31/2012

Client: Stantec Consulting

Client Sample ID: B-14S

Lab ID: L1794-06

Project: Genesee Street

Collection Date: 08/20/12 12:00

Analyses	Result	Qual	RL Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS						
Chloromethane	ND		6.3 ug/Kg		108/23/2012 17:41	67807
Vinyl chloride	ND		6.3 ug/Kg		108/23/2012 17:41	67807
Bromomethane	ND		6.3 ug/Kg		108/23/2012 17:41	67807
Chloroethane	ND		6.3 ug/Kg		108/23/2012 17:41	67807
Trichlorofluoromethane	ND		6.3 ug/Kg		108/23/2012 17:41	67807
1,1-Dichloroethene	ND		6.3 ug/Kg		108/23/2012 17:41	67807
Acetone	ND		6.3 ug/Kg		108/23/2012 17:41	67807
Carbon disulfide	ND		6.3 ug/Kg		108/23/2012 17:41	67807
Methylene chloride	ND		6.3 ug/Kg		108/23/2012 17:41	67807
trans-1,2-Dichloroethene	ND		6.3 ug/Kg		108/23/2012 17:41	67807
Methyl tert-butyl ether	ND		6.3 ug/Kg		108/23/2012 17:41	67807
1,1-Dichloroethane	ND		6.3 ug/Kg		108/23/2012 17:41	67807
Vinyl acetate	ND		6.3 ug/Kg		108/23/2012 17:41	67807
2-Butanone	ND		6.3 ug/Kg		108/23/2012 17:41	67807
cis-1,2-Dichloroethene	ND		6.3 ug/Kg		108/23/2012 17:41	67807
Chloroform	ND		6.3 ug/Kg		108/23/2012 17:41	67807
1,1,1-Trichloroethane	ND		6.3 ug/Kg		108/23/2012 17:41	67807
Carbon tetrachloride	ND		6.3 ug/Kg		108/23/2012 17:41	67807
1,2-Dichloroethane	ND		6.3 ug/Kg		108/23/2012 17:41	67807
Benzene	ND		6.3 ug/Kg		108/23/2012 17:41	67807
Trichloroethene	ND		6.3 ug/Kg		108/23/2012 17:41	67807
1,2-Dichloropropane	ND		6.3 ug/Kg		108/23/2012 17:41	67807
Bromodichloromethane	ND		6.3 ug/Kg		108/23/2012 17:41	67807
cis-1,3-Dichloropropene	ND		6.3 ug/Kg		108/23/2012 17:41	67807
4-Methyl-2-pentanone	ND		6.3 ug/Kg		108/23/2012 17:41	67807
Toluene	ND		6.3 ug/Kg		108/23/2012 17:41	67807
trans-1,3-Dichloropropene	ND		6.3 ug/Kg		108/23/2012 17:41	67807
1,1,2-Trichloroethane	ND		6.3 ug/Kg		108/23/2012 17:41	67807
Tetrachloroethene	ND		6.3 ug/Kg		108/23/2012 17:41	67807
2-Hexanone	ND		6.3 ug/Kg		108/23/2012 17:41	67807
Dibromochloromethane	ND		6.3 ug/Kg		108/23/2012 17:41	67807
Chlorobenzene	ND		6.3 ug/Kg		108/23/2012 17:41	67807
Ethylbenzene	ND		6.3 ug/Kg		108/23/2012 17:41	67807
m,p-Xylene	ND		6.3 ug/Kg		108/23/2012 17:41	67807
o-Xylene	ND		6.3 ug/Kg		108/23/2012 17:41	67807
Styrene	ND		6.3 ug/Kg		108/23/2012 17:41	67807
Bromoform	ND		6.3 ug/Kg		108/23/2012 17:41	67807
Isopropylbenzene	1.9 J		6.3 ug/Kg		108/23/2012 17:41	67807
1,1,2,2-Tetrachloroethane	ND		6.3 ug/Kg		108/23/2012 17:41	67807

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

08/31/2012

Client: Stantec Consulting

Client Sample ID: B-14S

Lab ID: L1794-06

Project: Genesee Street

Collection Date: 08/20/12 12:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS				
n-Propylbenzene	4.4 J	6.3 ug/Kg	108/23/2012 17:41	67807
1,3,5-Trimethylbenzene	ND	6.3 ug/Kg	108/23/2012 17:41	67807
tert-Butylbenzene	ND	6.3 ug/Kg	108/23/2012 17:41	67807
1,2,4-Trimethylbenzene	7.9	6.3 ug/Kg	108/23/2012 17:41	67807
sec-Butylbenzene	2.9 J	6.3 ug/Kg	108/23/2012 17:41	67807
4-Isopropyltoluene	5.8 J	6.3 ug/Kg	108/23/2012 17:41	67807
1,3-Dichlorobenzene	ND	6.3 ug/Kg	108/23/2012 17:41	67807
1,4-Dichlorobenzene	ND	6.3 ug/Kg	108/23/2012 17:41	67807
n-Butylbenzene	2.7 J	6.3 ug/Kg	108/23/2012 17:41	67807
1,2-Dichlorobenzene	ND	6.3 ug/Kg	108/23/2012 17:41	67807
Naphthalene	ND	6.3 ug/Kg	108/23/2012 17:41	67807
2-Chloroethyl vinyl ether	ND	6.3 ug/Kg	108/23/2012 17:41	67807
Surrogate: Dibromofluoromethane	90.9	65-132 %REC	108/23/2012 17:41	67807
Surrogate: 1,2-Dichloroethane-d4	99.2	65-128 %REC	108/23/2012 17:41	67807
Surrogate: Toluene-d8	105	85-115 %REC	108/23/2012 17:41	67807
Surrogate: Bromofluorobenzene	118 S	77-111 %REC	108/23/2012 17:41	67807
1H-Indene, 2,3-dihydro-1,2-dimethyl-	21 JN	ug/Kg	108/23/2012 17:41	67807
2,4-Dimethylstyrene	41 JN	ug/Kg	108/23/2012 17:41	67807
Benzene, 1,2,3,5-tetramethyl-	15 JN	ug/Kg	108/23/2012 17:41	67807
Benzene, 1-methyl-2-(1-methylethyl)-	22 JN	ug/Kg	108/23/2012 17:41	67807
Cyclohexane, 1,2-dimethyl-, trans-	17 JN	ug/Kg	108/23/2012 17:41	67807
Cyclohexane, 1,3-dimethyl-, trans-	19 JN	ug/Kg	108/23/2012 17:41	67807
Cyclohexane, propyl-	16 JN	ug/Kg	108/23/2012 17:41	67807
Unknown (11.60238)	34 J	ug/Kg	108/23/2012 17:41	67807
Unknown (6.94018)	16 J	ug/Kg	108/23/2012 17:41	67807
Unknown (7.72472)	17 J	ug/Kg	108/23/2012 17:41	67807
Unknown (8.59607)	16 J	ug/Kg	108/23/2012 17:41	67807

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

08/31/2012

Client: Stantec Consulting

Client Sample ID: B-15S

Lab ID: L1794-07

Project: Genesee Street

Collection Date: 08/20/12 13:30

Analyses	Result	Qual	RL Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS						
Chloromethane	ND		7.1 ug/Kg		108/23/2012 18:08	67807
Vinyl chloride	ND		7.1 ug/Kg		108/23/2012 18:08	67807
Bromomethane	ND		7.1 ug/Kg		108/23/2012 18:08	67807
Chloroethane	ND		7.1 ug/Kg		108/23/2012 18:08	67807
Trichlorofluoromethane	ND		7.1 ug/Kg		108/23/2012 18:08	67807
1,1-Dichloroethene	ND		7.1 ug/Kg		108/23/2012 18:08	67807
Acetone	ND		7.1 ug/Kg		108/23/2012 18:08	67807
Carbon disulfide	ND		7.1 ug/Kg		108/23/2012 18:08	67807
Methylene chloride	2.7	J	7.1 ug/Kg		108/23/2012 18:08	67807
trans-1,2-Dichloroethene	ND		7.1 ug/Kg		108/23/2012 18:08	67807
Methyl tert-butyl ether	ND		7.1 ug/Kg		108/23/2012 18:08	67807
1,1-Dichloroethane	ND		7.1 ug/Kg		108/23/2012 18:08	67807
Vinyl acetate	ND		7.1 ug/Kg		108/23/2012 18:08	67807
2-Butanone	ND		7.1 ug/Kg		108/23/2012 18:08	67807
cis-1,2-Dichloroethene	ND		7.1 ug/Kg		108/23/2012 18:08	67807
Chloroform	ND		7.1 ug/Kg		108/23/2012 18:08	67807
1,1,1-Trichloroethane	ND		7.1 ug/Kg		108/23/2012 18:08	67807
Carbon tetrachloride	ND		7.1 ug/Kg		108/23/2012 18:08	67807
1,2-Dichloroethane	ND		7.1 ug/Kg		108/23/2012 18:08	67807
Benzene	ND		7.1 ug/Kg		108/23/2012 18:08	67807
Trichloroethene	ND		7.1 ug/Kg		108/23/2012 18:08	67807
1,2-Dichloropropane	ND		7.1 ug/Kg		108/23/2012 18:08	67807
Bromodichloromethane	ND		7.1 ug/Kg		108/23/2012 18:08	67807
cis-1,3-Dichloropropene	ND		7.1 ug/Kg		108/23/2012 18:08	67807
4-Methyl-2-pentanone	ND		7.1 ug/Kg		108/23/2012 18:08	67807
Toluene	ND		7.1 ug/Kg		108/23/2012 18:08	67807
trans-1,3-Dichloropropene	ND		7.1 ug/Kg		108/23/2012 18:08	67807
1,1,2-Trichloroethane	ND		7.1 ug/Kg		108/23/2012 18:08	67807
Tetrachloroethene	ND		7.1 ug/Kg		108/23/2012 18:08	67807
2-Hexanone	ND		7.1 ug/Kg		108/23/2012 18:08	67807
Dibromochloromethane	ND		7.1 ug/Kg		108/23/2012 18:08	67807
Chlorobenzene	ND		7.1 ug/Kg		108/23/2012 18:08	67807
Ethylbenzene	ND		7.1 ug/Kg		108/23/2012 18:08	67807
m,p-Xylene	ND		7.1 ug/Kg		108/23/2012 18:08	67807
o-Xylene	ND		7.1 ug/Kg		108/23/2012 18:08	67807
Styrene	ND		7.1 ug/Kg		108/23/2012 18:08	67807
Bromoform	ND		7.1 ug/Kg		108/23/2012 18:08	67807
Isopropylbenzene	ND		7.1 ug/Kg		108/23/2012 18:08	67807
1,1,2,2-Tetrachloroethane	ND		7.1 ug/Kg		108/23/2012 18:08	67807

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

08/31/2012

Client: Stantec Consulting

Client Sample ID: B-15S

Lab ID: L1794-07

Project: Genesee Street

Collection Date: 08/20/12 13:30

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS				
n-Propylbenzene	ND	7.1 ug/Kg	108/23/2012 18:08	67807
1,3,5-Trimethylbenzene	ND	7.1 ug/Kg	108/23/2012 18:08	67807
tert-Butylbenzene	ND	7.1 ug/Kg	108/23/2012 18:08	67807
1,2,4-Trimethylbenzene	ND	7.1 ug/Kg	108/23/2012 18:08	67807
sec-Butylbenzene	ND	7.1 ug/Kg	108/23/2012 18:08	67807
4-Isopropyltoluene	ND	7.1 ug/Kg	108/23/2012 18:08	67807
1,3-Dichlorobenzene	ND	7.1 ug/Kg	108/23/2012 18:08	67807
1,4-Dichlorobenzene	ND	7.1 ug/Kg	108/23/2012 18:08	67807
n-Butylbenzene	ND	7.1 ug/Kg	108/23/2012 18:08	67807
1,2-Dichlorobenzene	ND	7.1 ug/Kg	108/23/2012 18:08	67807
Naphthalene	ND	7.1 ug/Kg	108/23/2012 18:08	67807
2-Chloroethyl vinyl ether	ND	7.1 ug/Kg	108/23/2012 18:08	67807
Surrogate: Dibromofluoromethane	107	65-132 %REC	108/23/2012 18:08	67807
Surrogate: 1,2-Dichloroethane-d4	101	65-128 %REC	108/23/2012 18:08	67807
Surrogate: Toluene-d8	104	85-115 %REC	108/23/2012 18:08	67807
Surrogate: Bromofluorobenzene	93.2	77-111 %REC	108/23/2012 18:08	67807

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

08/31/2012

Client: Stantec Consulting

Client Sample ID: B-16S

Lab ID: L1794-08

Project: Genesee Street

Collection Date: 08/20/12 14:04

Analyses	Result	Qual	RL Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS						
Chloromethane	ND		7.0 ug/Kg		108/24/2012 12:49	67825
Vinyl chloride	ND		7.0 ug/Kg		108/24/2012 12:49	67825
Bromomethane	ND		7.0 ug/Kg		108/24/2012 12:49	67825
Chloroethane	ND		7.0 ug/Kg		108/24/2012 12:49	67825
Trichlorofluoromethane	ND		7.0 ug/Kg		108/24/2012 12:49	67825
1,1-Dichloroethene	ND		7.0 ug/Kg		108/24/2012 12:49	67825
Acetone	ND		7.0 ug/Kg		108/24/2012 12:49	67825
Carbon disulfide	ND		7.0 ug/Kg		108/24/2012 12:49	67825
Methylene chloride	ND		7.0 ug/Kg		108/24/2012 12:49	67825
trans-1,2-Dichloroethene	ND		7.0 ug/Kg		108/24/2012 12:49	67825
Methyl tert-butyl ether	ND		7.0 ug/Kg		108/24/2012 12:49	67825
1,1-Dichloroethane	ND		7.0 ug/Kg		108/24/2012 12:49	67825
Vinyl acetate	ND		7.0 ug/Kg		108/24/2012 12:49	67825
2-Butanone	ND		7.0 ug/Kg		108/24/2012 12:49	67825
cis-1,2-Dichloroethene	ND		7.0 ug/Kg		108/24/2012 12:49	67825
Chloroform	ND		7.0 ug/Kg		108/24/2012 12:49	67825
1,1,1-Trichloroethane	ND		7.0 ug/Kg		108/24/2012 12:49	67825
Carbon tetrachloride	ND		7.0 ug/Kg		108/24/2012 12:49	67825
1,2-Dichloroethane	ND		7.0 ug/Kg		108/24/2012 12:49	67825
Benzene	ND		7.0 ug/Kg		108/24/2012 12:49	67825
Trichloroethene	ND		7.0 ug/Kg		108/24/2012 12:49	67825
1,2-Dichloropropane	ND		7.0 ug/Kg		108/24/2012 12:49	67825
Bromodichloromethane	ND		7.0 ug/Kg		108/24/2012 12:49	67825
cis-1,3-Dichloropropene	ND		7.0 ug/Kg		108/24/2012 12:49	67825
4-Methyl-2-pentanone	ND		7.0 ug/Kg		108/24/2012 12:49	67825
Toluene	ND		7.0 ug/Kg		108/24/2012 12:49	67825
trans-1,3-Dichloropropene	ND		7.0 ug/Kg		108/24/2012 12:49	67825
1,1,2-Trichloroethane	ND		7.0 ug/Kg		108/24/2012 12:49	67825
Tetrachloroethene	ND		7.0 ug/Kg		108/24/2012 12:49	67825
2-Hexanone	ND		7.0 ug/Kg		108/24/2012 12:49	67825
Dibromochloromethane	ND		7.0 ug/Kg		108/24/2012 12:49	67825
Chlorobenzene	ND		7.0 ug/Kg		108/24/2012 12:49	67825
Ethylbenzene	ND		7.0 ug/Kg		108/24/2012 12:49	67825
m,p-Xylene	ND		7.0 ug/Kg		108/24/2012 12:49	67825
o-Xylene	ND		7.0 ug/Kg		108/24/2012 12:49	67825
Styrene	ND		7.0 ug/Kg		108/24/2012 12:49	67825
Bromoform	ND		7.0 ug/Kg		108/24/2012 12:49	67825
Isopropylbenzene	ND		7.0 ug/Kg		108/24/2012 12:49	67825
1,1,2,2-Tetrachloroethane	ND		7.0 ug/Kg		108/24/2012 12:49	67825

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

08/31/2012

Client: Stantec Consulting

Client Sample ID: B-16S

Lab ID: L1794-08

Project: Genesee Street

Collection Date: 08/20/12 14:04

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS				
n-Propylbenzene	ND	7.0 ug/Kg	108/24/2012 12:49	67825
1,3,5-Trimethylbenzene	ND	7.0 ug/Kg	108/24/2012 12:49	67825
tert-Butylbenzene	ND	7.0 ug/Kg	108/24/2012 12:49	67825
1,2,4-Trimethylbenzene	ND	7.0 ug/Kg	108/24/2012 12:49	67825
sec-Butylbenzene	ND	7.0 ug/Kg	108/24/2012 12:49	67825
4-Isopropyltoluene	ND	7.0 ug/Kg	108/24/2012 12:49	67825
1,3-Dichlorobenzene	ND	7.0 ug/Kg	108/24/2012 12:49	67825
1,4-Dichlorobenzene	ND	7.0 ug/Kg	108/24/2012 12:49	67825
n-Butylbenzene	ND	7.0 ug/Kg	108/24/2012 12:49	67825
1,2-Dichlorobenzene	ND	7.0 ug/Kg	108/24/2012 12:49	67825
Naphthalene	ND	7.0 ug/Kg	108/24/2012 12:49	67825
2-Chloroethyl vinyl ether	ND	7.0 ug/Kg	108/24/2012 12:49	67825
Surrogate: Dibromofluoromethane	74.2	65-132 %REC	108/24/2012 12:49	67825
Surrogate: 1,2-Dichloroethane-d4	96.2	65-128 %REC	108/24/2012 12:49	67825
Surrogate: Toluene-d8	104	85-115 %REC	108/24/2012 12:49	67825
Surrogate: Bromofluorobenzene	94.2	77-111 %REC	108/24/2012 12:49	67825

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

08/31/2012

Client: Stantec Consulting

Client Sample ID: B-18S

Lab ID: L1794-10

Project: Genesee Street

Collection Date: 08/20/12 15:00

Analyses	Result	Qual	RL Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS						
Chloromethane	ND		5.2 ug/Kg		108/24/2012 13:42	67825
Vinyl chloride	ND		5.2 ug/Kg		108/24/2012 13:42	67825
Bromomethane	ND		5.2 ug/Kg		108/24/2012 13:42	67825
Chloroethane	ND		5.2 ug/Kg		108/24/2012 13:42	67825
Trichlorofluoromethane	ND		5.2 ug/Kg		108/24/2012 13:42	67825
1,1-Dichloroethene	ND		5.2 ug/Kg		108/24/2012 13:42	67825
Acetone	ND		5.2 ug/Kg		108/24/2012 13:42	67825
Carbon disulfide	ND		5.2 ug/Kg		108/24/2012 13:42	67825
Methylene chloride	3.4	BJ	5.2 ug/Kg		108/24/2012 13:42	67825
trans-1,2-Dichloroethene	ND		5.2 ug/Kg		108/24/2012 13:42	67825
Methyl tert-butyl ether	ND		5.2 ug/Kg		108/24/2012 13:42	67825
1,1-Dichloroethane	ND		5.2 ug/Kg		108/24/2012 13:42	67825
Vinyl acetate	ND		5.2 ug/Kg		108/24/2012 13:42	67825
2-Butanone	ND		5.2 ug/Kg		108/24/2012 13:42	67825
cis-1,2-Dichloroethene	ND		5.2 ug/Kg		108/24/2012 13:42	67825
Chloroform	ND		5.2 ug/Kg		108/24/2012 13:42	67825
1,1,1-Trichloroethane	ND		5.2 ug/Kg		108/24/2012 13:42	67825
Carbon tetrachloride	ND		5.2 ug/Kg		108/24/2012 13:42	67825
1,2-Dichloroethane	ND		5.2 ug/Kg		108/24/2012 13:42	67825
Benzene	ND		5.2 ug/Kg		108/24/2012 13:42	67825
Trichloroethene	ND		5.2 ug/Kg		108/24/2012 13:42	67825
1,2-Dichloropropane	ND		5.2 ug/Kg		108/24/2012 13:42	67825
Bromodichloromethane	ND		5.2 ug/Kg		108/24/2012 13:42	67825
cis-1,3-Dichloropropene	ND		5.2 ug/Kg		108/24/2012 13:42	67825
4-Methyl-2-pentanone	ND		5.2 ug/Kg		108/24/2012 13:42	67825
Toluene	ND		5.2 ug/Kg		108/24/2012 13:42	67825
trans-1,3-Dichloropropene	ND		5.2 ug/Kg		108/24/2012 13:42	67825
1,1,2-Trichloroethane	ND		5.2 ug/Kg		108/24/2012 13:42	67825
Tetrachloroethene	ND		5.2 ug/Kg		108/24/2012 13:42	67825
2-Hexanone	ND		5.2 ug/Kg		108/24/2012 13:42	67825
Dibromochloromethane	ND		5.2 ug/Kg		108/24/2012 13:42	67825
Chlorobenzene	ND		5.2 ug/Kg		108/24/2012 13:42	67825
Ethylbenzene	1.1	J	5.2 ug/Kg		108/24/2012 13:42	67825
m,p-Xylene	ND		5.2 ug/Kg		108/24/2012 13:42	67825
o-Xylene	ND		5.2 ug/Kg		108/24/2012 13:42	67825
Styrene	ND		5.2 ug/Kg		108/24/2012 13:42	67825
Bromoform	ND		5.2 ug/Kg		108/24/2012 13:42	67825
Isopropylbenzene	1.5	J	5.2 ug/Kg		108/24/2012 13:42	67825
1,1,2,2-Tetrachloroethane	ND		5.2 ug/Kg		108/24/2012 13:42	67825

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

08/31/2012

Client: Stantec Consulting

Client Sample ID: B-18S

Lab ID: L1794-10

Project: Genesee Street

Collection Date: 08/20/12 15:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS				
n-Propylbenzene	1.2 J	5.2 ug/Kg	108/24/2012 13:42	67825
1,3,5-Trimethylbenzene	ND	5.2 ug/Kg	108/24/2012 13:42	67825
tert-Butylbenzene	ND	5.2 ug/Kg	108/24/2012 13:42	67825
1,2,4-Trimethylbenzene	1.1 J	5.2 ug/Kg	108/24/2012 13:42	67825
sec-Butylbenzene	2.7 J	5.2 ug/Kg	108/24/2012 13:42	67825
4-Isopropyltoluene	ND	5.2 ug/Kg	108/24/2012 13:42	67825
1,3-Dichlorobenzene	ND	5.2 ug/Kg	108/24/2012 13:42	67825
1,4-Dichlorobenzene	ND	5.2 ug/Kg	108/24/2012 13:42	67825
n-Butylbenzene	ND	5.2 ug/Kg	108/24/2012 13:42	67825
1,2-Dichlorobenzene	ND	5.2 ug/Kg	108/24/2012 13:42	67825
Naphthalene	ND	5.2 ug/Kg	108/24/2012 13:42	67825
2-Chloroethyl vinyl ether	ND	5.2 ug/Kg	108/24/2012 13:42	67825
Surrogate: Dibromofluoromethane	102	65-132 %REC	108/24/2012 13:42	67825
Surrogate: 1,2-Dichloroethane-d4	98.9	65-128 %REC	108/24/2012 13:42	67825
Surrogate: Toluene-d8	105	85-115 %REC	108/24/2012 13:42	67825
Surrogate: Bromofluorobenzene	105	77-111 %REC	108/24/2012 13:42	67825
Benzene, (2-methyl-1-propenyl)-	12 JN	ug/Kg	108/24/2012 13:42	67825
Benzene, 1,2,4,5-tetramethyl-	10 JN	ug/Kg	108/24/2012 13:42	67825
Benzene, 1-ethenyl-4-ethyl-	28 JN	ug/Kg	108/24/2012 13:42	67825
Benzene, 1-ethyl-2,4-dimethyl-	18 JN	ug/Kg	108/24/2012 13:42	67825
Cyclohexane, 1,2-dimethyl-, trans-	15 JN	ug/Kg	108/24/2012 13:42	67825
Indan, 1-methyl-	64 JN	ug/Kg	108/24/2012 13:42	67825
Indane	43 JN	ug/Kg	108/24/2012 13:42	67825
Unknown (5.78598)	9.2 J	ug/Kg	108/24/2012 13:42	67825
Unknown (7.23608)	19 J	ug/Kg	108/24/2012 13:42	67825
Unknown (7.71195)	8.4 J	ug/Kg	108/24/2012 13:42	67825
Unknown (8.39038)	10 J	ug/Kg	108/24/2012 13:42	67825

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Tech

Date: 08/31/2012

CLIENT: Stanton Consulting
Work Order: L1794
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S
SW846 8260C -- VOC by GC-MS

Analyte	Result	MDL	TestCode: SW8260_LOW_S	Prep Date: 08/23/12 8:42			Run ID: V10_120823A				
				Units: ug/Kg	SPK value	SPK Ref Val	%REC	Low/Limit	High/Limit	RPD Ref Val	%RPD
Chloromethane	ND	0 .80		5 .0							
Vinyl chloride	ND	0 .63		5 .0							
Bromomethane	ND	1 .1		5 .0							
Chloroethane	ND	1 .0		5 .0							
Trichlorofluoromethane	ND	0 .42		5 .0							
1,1-Dichloroethene	ND	0 .95		5 .0							
Acetone	ND	1 .6		5 .0							
Carbon disulfide	ND	0 .30		5 .0							
Methylene chloride	ND	1 .3		5 .0							
trans-1,2-Dichloroethene	ND	0 .53		5 .0							
Methyl tert-butyl ether	ND	0 .61		5 .0							
1,1-Dichloroethane	ND	0 .67		5 .0							
Vinyl acetate	ND	0 .37		5 .0							
2-Butanone	ND	2 .0		5 .0							
cis-1,2-Dichloroethene	ND	0 .75		5 .0							
Chloroform	ND	0 .64		5 .0							
1,1,1-Trichloroethane	ND	0 .53		5 .0							
Carbon tetrachloride	ND	0 .33		5 .0							
1,2-Dichloroethane	ND	0 .54		5 .0							
Benzene	ND	0 .61		5 .0							
Trichloroethene	ND	0 .62		5 .0							
1,2-Dichloropropane	ND	0 .69		5 .0							
Bromodichloromethane	ND	0 .97		5 .0							
cis-1,3-Dichloropropene	ND	0 .67		5 .0							
4-Methyl-2-pentanone	ND	0 .73		5 .0							
Toluene	ND	0 .47		5 .0							
trans-1,3-Dichloropropene	ND	0 .68		5 .0							
1,1,2-Trichloroethane	ND	0 .48		5 .0							
Tetrachloroethene	ND	0 .62		5 .0							
2-Hexanone	ND	0 .83		5 .0							
Dibromochloromethane	ND	0 .65		5 .0							
Chlorobenzene	ND	0 .51		5 .0							
Ethylbenzene	ND	0 .50		5 .0							
m,p-Xylene	ND	1 .6		5 .0							
o-Xylene	ND	0 .47		5 .0							
Styrene	ND	0 .52		5 .0							

Qualifiers: ND - Not Detected at the MDL
J - Analyte detected below quantitation limits

S - Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

MDL - Method Detection Limit
RL - Reporting Limit

B - Analyte detected in the associated Method Blank

CLIENT: Stantec Consulting
Work Order: L1794
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT
SW8260_LOW_S
SW846 8260C -- VOC by GC-MS

Sample ID: MB-67807	SampType: MBLK	TestCode: SW8260_LOW_S	Prep Date: 08/23/12 8:42	Run ID: V10_120823A
Client ID: MB-67807	Batch ID: 67807	Units: ug/Kg	Analysis Date: 08/23/12 9:38	SeqNo: 1784544
Analyte	Result	MDL	RL	SPK value
Bromoform	ND	2.0	5.0	
Isopropylbenzene	ND	0.58	5.0	
1,1,2,2-Tetrachloroethane	ND	0.68	5.0	
n-Propylbenzene	ND	0.44	5.0	
1,3,5-Trimethylbenzene	ND	0.61	5.0	
tert-Butylbenzene	ND	0.52	5.0	
1,2,4-Trimethylbenzene	ND	0.57	5.0	
sec-Butylbenzene	ND	0.62	5.0	
4-Isopropyltoluene	ND	0.71	5.0	
1,3-Dichlorobenzene	ND	0.70	5.0	
1,4-Dichlorobenzene	ND	0.80	5.0	
n-Butylbenzene	ND	0.67	5.0	
1,2-Dichlorobenzene	ND	0.62	5.0	
Naphthalene	ND	0.78	5.0	
2-Chloroethyl vinyl ether	ND	1.0	5.0	
Surrogate:	49.66	5.0	50.00	0
Dibromofluoromethane	46.66	5.0	50.00	0
Surrogate: 1,2-Dichloroethane-d4	51.87	5.0	50.00	0
Surrogate: Toluene-d8	47.59	5.0	50.00	0
Surrogate: Bromofluorobenzene				

Qualifiers: ND - Not Detected at the MDL
J - Analyte detected below quantitation limits
mml1.12.11.A R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

MDL - Method Detection Limit
RL - Reporting Limit

CLIENT: Stantec Consulting
Work Order: L1794
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT
SW8260_LOW_S
SW846 8260C -- VOC by GC-MS

Sample ID: MB-67825	SampType: MBLK	Batch ID: 67825	TestCode: SW8260_LOW_S	Units: ug/Kg	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	ND	0.80		5.0										
Vinyl chloride	ND	0.63		5.0										
Bromomethane	ND	1.1		5.0										
Chloroethane	ND	1.0		5.0										
Trichlorofluoromethane	ND	0.42		5.0										
1,1-Dichloroethene	ND	0.95		5.0										
Acetone	ND	1.6		5.0										
Carbon disulfide	ND	0.30		5.0										
Methylene chloride	2.700	1.3		5.0										
trans-1,2-Dichloroethene	ND	0.53		5.0										
Methyl tert-butyl ether	ND	0.61		5.0										
1,1-Dichloroethane	ND	0.67		5.0										
Vinyl acetate	ND	0.37		5.0										
2-Butanone	ND	2.0		5.0										
cis-1,2-Dichloroethene	ND	0.75		5.0										
Chloroform	ND	0.64		5.0										
1,1,1-Trichloroethane	ND	0.53		5.0										
Carbon tetrachloride	ND	0.33		5.0										
1,2-Dichloroethane	ND	0.54		5.0										
Benzene	ND	0.61		5.0										
Trichloroethene	ND	0.62		5.0										
1,2-Dichloropropane	ND	0.69		5.0										
Bromodichloromethane	ND	0.97		5.0										
cis-1,3-Dichloropropene	ND	0.67		5.0										
4-Methyl-2-pentanone	ND	0.73		5.0										
Toluene	ND	0.47		5.0										
trans-1,3-Dichloropropene	ND	0.68		5.0										
1,1,2-Trichloroethane	ND	0.48		5.0										
Tetrachloroethene	ND	0.62		5.0										
2-Hexanone	ND	0.83		5.0										
Dibromochloromethane	ND	0.65		5.0										
Chlorobenzene	ND	0.51		5.0										
Ethylbenzene	ND	0.50		5.0										
m,p-Xylene	ND	1.6		5.0										
o-Xylene	ND	0.47		5.0										
Styrene	ND	0.52		5.0										
Bromoform	ND	2.0		5.0										
Isopropylbenzene	ND	0.58		5.0										

Qualifiers: ND - Not Detected at the MDL
J - Analyte detected below quantitation limits
mml1.12.11.A J - Analyte detected in the associated Method Blank

MDL - Method Detection Limit
R - RPD outside accepted recovery limits
RL - Reporting Limit

Run ID: V10_120824A
Analysis Date: 08/24/12 11:18
SeqNo: 1785614

Prep Date: 08/24/12 9:28
Analysis Date: 08/24/12 11:18

Run ID: V10_120824A
SeqNo: 1785614

CLIENT: Stantec Consulting
Work Order: L1794
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT
SW8260_LOW_S
SW846 8260C -- VOC by GC-MS

Sample ID: MB-67825	SampType: MBLK	TestCode: SW8260_LOW_S	Prep Date: 08/24/12 9:28	Run ID: V10_120824A
Client ID: MB-67825	Batch ID: 67825	Units: ug/Kg	Analysis Date: 08/24/12 11:18	SeqNo: 1785614
Analyte	Result	MDL	RL	SPK value
1,1,2,2-Tetrachloroethane	ND	0.68	5.0	
n-Propylbenzene	ND	0.44	5.0	
1,3,5-Trimethylbenzene	ND	0.61	5.0	
tert-Butylbenzene	ND	0.52	5.0	
1,2,4-Trimethylbenzene	ND	0.57	5.0	
sec-Butylbenzene	ND	0.62	5.0	
4-Isopropyltoluene	ND	0.71	5.0	
1,3-Dichlorobenzene	ND	0.70	5.0	
1,4-Dichlorobenzene	ND	0.80	5.0	
n-Butylbenzene	ND	0.67	5.0	
1,2-Dichlorobenzene	ND	0.62	5.0	
Naphthalene	ND	0.78	5.0	
2-Chloroethyl vinyl ether	ND	1.0	5.0	
Surrogate:	51.80	5.0	50.00	0
Dibromofluoromethane	50.10	5.0	50.00	0
Surrogate: 1,2-Dichloroethane-d4	51.42	5.0	50.00	0
Surrogate: Toluene-d8	47.61	5.0	50.00	0
Surrogate:				
Bromofluorobenzene				

Qualifiers: ND - Not Detected at the MDL
J - Analyte detected below quantitation limits

S - Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

MDL - Method Detection Limit
RL - Reporting Limit

B - Analyte detected in the associated Method Blank

CLIENT: Stantec Consulting
Work Order: L1794
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT
SW8260_LOW_S
SW846 8260C -- VOC by GC-MS

Sample ID: LCS-67807		SampType: LCS	TestCode: SW8260_LOW_S		Prep Date: 08/23/12 8:42		Analysis Date: 08/23/12 9:04		Run ID: V10_120823A		SeqNo: 1784543			
Client ID:	LCS-67807	Batch ID: 67807	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	51.03	0.80	5.0	50.00	0	102	50	130	0	0	98.6	60	125	0
Vinyl chloride	49.30	0.63	5.0	50.00	0	101	30	160	0	0	97.4	40	155	0
Bromomethane	50.64	1.1	5.0	50.00	0	93.5	25	185	0	0	95.0	0	125	0
Chloroethane	48.72	1.0	5.0	50.00	0	96.1	65	135	0	0	97.4	40	155	0
Trichlorofluoromethane	46.76	0.42	5.0	50.00	0	111	20	160	0	0	94.5	45	160	0
1,1-Dichloroethene	48.06	0.95	5.0	50.00	0	94.3	65	135	0	0	95.0	0	140	0
Acetone	55.33	1.6	5.0	50.00	0	98.1	75	126	0	0	94.6	75	125	0
Carbon disulfide	47.25	0.30	5.0	50.00	0	97.7	65	138	0	0	95.0	0	138	0
Methylene chloride	43.57	1.3	5.0	50.00	0	105	30	160	0	0	94.6	75	125	0
trans-1,2-Dichloroethene	47.15	0.53	5.0	50.00	0	93.7	65	135	0	0	94.6	75	125	0
Methyl tert-butyl ether	49.05	0.61	5.0	50.00	0	93.9	70	135	0	0	94.2	75	125	0
1,1-Dichloroethane	47.30	0.67	5.0	50.00	0	93.7	75	125	0	0	94.2	75	125	0
Vinyl acetate	48.86	0.37	5.0	50.00	0	95.4	70	120	0	0	94.6	70	125	0
2-Butanone	52.36	2.0	5.0	50.00	0	96.0	65	125	0	0	93.2	70	125	0
cis-1,2-Dichloroethene	48.01	0.75	5.0	50.00	0	94.8	70	135	0	0	94.0	70	135	0
Chloroform	46.62	0.64	5.0	50.00	0	95.0	75	125	0	0	94.0	75	125	0
1,1,1-Trichloroethane	47.40	0.53	5.0	50.00	0	93.7	65	135	0	0	94.2	75	125	0
Carbon tetrachloride	46.87	0.33	5.0	50.00	0	93.7	75	125	0	0	94.2	75	125	0
1,2-Dichloroethane	46.97	0.54	5.0	50.00	0	95.4	70	120	0	0	94.6	70	130	0
Benzene	47.12	0.61	5.0	50.00	0	101	70	125	0	0	95.0	70	125	0
Trichloroethene	46.87	0.62	5.0	50.00	0	93.6	70	125	0	0	94.6	65	125	0
1,2-Dichloropropane	47.69	0.69	5.0	50.00	0	99.1	65	125	0	0	94.6	65	130	0
Bromodichloromethane	47.29	0.97	5.0	50.00	0	92.4	60	125	0	0	94.6	75	125	0
cis-1,3-Dichloropropene	50.28	0.67	5.0	50.00	0	98.0	45	145	0	0	94.6	75	125	0
4-Methyl-2-pentanone	49.02	0.73	5.0	50.00	0	94.7	65	140	0	0	94.6	75	125	0
Toluene	46.81	0.47	5.0	50.00	0	106	45	145	0	0	97.8	80	125	0
trans-1,3-Dichloropropene	49.53	0.68	5.0	50.00	0	97.1	65	130	0	0	94.6	75	125	0
1,1,2-Trichloroethane	46.20	0.48	5.0	50.00	0	98.6	75	125	0	0	95.0	75	125	0
Tetrachloroethene	47.37	0.62	5.0	50.00	0	100.0	0	125	0	0	99.8	75	125	0
2-Hexanone	52.97	0.83	5.0	50.00	0	99.1	65	125	0	0	95.0	75	125	0
Dibromochloromethane	48.53	0.65	5.0	50.00	0	97.8	80	125	0	0	94.6	75	125	0
Chlorobenzene	47.31	0.51	5.0	50.00	0	98.6	75	125	0	0	94.6	75	125	0
Ethylbenzene	49.29	0.50	5.0	50.00	0	102	75	130	0	0	96.1	55	135	0
m,p-Xylene	97.77	1.6	5.0	50.00	0	99.8	75	125	0	0	99.8	75	125	0
o-Xylene	49.90	0.47	5.0	50.00	0	98.8	75	125	0	0	99.8	75	125	0
Styrene	49.38	0.52	5.0	50.00	0	96.1	55	135	0	0	96.1	55	135	0
Bromoform	48.03	2.0	5.0	50.00	0	102	75	130	0	0	97.8	80	125	0
Isopropylbenzene	50.93	0.58	5.0	50.00	0	102	75	130	0	0	99.1	65	125	0

Qualifiers: ND - Not Detected at the MDL
 J - Analyte detected below quantitation limits
 mml1.12.11.A J - Analyte detected below quantitation limits

MDL - Method Detection Limit
RL - Reporting Limit

B - Analyte detected in the associated Method Blank

CLIENT: Stantec Consulting
Work Order: L1794
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT
SW8260_LOW_S
SW846 8260C -- VOC by GC-MS

Sample ID: LCS-67807	SampType: LCS	Batch ID: 67807	TestCode: SW8260_LOW_S	Units: ug/Kg	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,2,2-Tetrachloroethane	46.09	0.68	5.0	50.00	0		92.2	55	130	0					
n-Propylbenzene	48.33	0.44	5.0	50.00	0		96.7	65	135	0					
1,3,5-Trimethylbenzene	49.65	0.61	5.0	50.00	0		99.3	65	135	0					
tert-Butylbenzene	50.59	0.52	5.0	50.00	0		101	65	130	0					
1,2,4-Trimethylbenzene	48.87	0.57	5.0	50.00	0		97.7	65	135	0					
sec-Butylbenzene	49.22	0.62	5.0	50.00	0		98.4	65	130	0					
4-Isopropyltoluene	49.87	0.71	5.0	50.00	0		99.7	75	135	0					
1,3-Dichlorobenzene	47.12	0.70	5.0	50.00	0		94.2	70	125	0					
1,4-Dichlorobenzene	46.37	0.80	5.0	50.00	0		92.7	70	125	0					
n-Butylbenzene	49.85	0.67	5.0	50.00	0		99.7	65	140	0					
1,2-Dichlorobenzene	46.74	0.62	5.0	50.00	0		93.5	75	120	0					
Naphthalene	50.24	0.78	5.0	50.00	0		100	40	125	0					
2-Chloroethyl vinyl ether	47.22	1.0	5.0	50.00	0		94.4	70	130	0					
Surrogate:							99.3	65	132	0					
Dibromofluoromethane															
Surrogate: 1,2-Dichloroethane-d4	48.96	5.0	50.00	0			97.9	65	128	0					
Surrogate: Toluene-d8	50.50	5.0	50.00	0			101	85	115	0					
Surrogate:	50.37	5.0	50.00	0			101	77	111	0					
Bromofluorobenzene															

Qualifiers: ND - Not Detected at the MDL
J - Analyte detected below quantitation limits

S - Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

MDL - Method Detection Limit
RL - Reporting Limit

Run ID: V10_120823A
SeqNo: 1784543

Prep Date: 08/23/12 8:42
Analysis Date: 08/23/12 9:04

B - Analyte detected in the associated Method Blank

CLIENT: Stantec Consulting
Work Order: L1794
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT
SW8260_LOW_S
SW846 8260C -- VOC by GC-MS

Sample ID: LCS-67825		SampType: LCS	TestCode: SW8260_LOW_S		Prep Date: 08/24/12 9:28		Run ID: V10_120824A					
Client ID: LCS-67825		Batch ID: 67825	Units: ug/Kg		Analysis Date: 08/24/12 9:50		SeqNo: 1785612					
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	58.62	0.80	5.0	50.00	0	117	50	130	0	0	0	
Vinyl chloride	58.25	0.63	5.0	50.00	0	116	60	125	0	0	0	
Bromomethane	62.03	1.1	5.0	50.00	0	124	30	160	0	0	0	
Chloroethane	59.36	1.0	5.0	50.00	0	119	40	155	0	0	0	
Trichlorofluoromethane	56.21	0.42	5.0	50.00	0	112	25	185	0	0	0	
1,1-Dichloroethene	54.10	0.95	5.0	50.00	0	108	65	135	0	0	0	
Acetone	66.28	1.6	5.0	50.00	0	133	20	160	0	0	0	
Carbon disulfide	53.27	0.30	5.0	50.00	0	107	45	160	0	0	0	
Methylene chloride	50.48	1.3	5.0	50.00	0	101	55	140	0	0	0	
trans-1,2-Dichloroethene	53.44	0.53	5.0	50.00	0	107	65	135	0	0	0	
Methyl tert-butyl ether	59.08	0.61	5.0	50.00	0	118	75	126	0	0	0	
1,1-Dichloroethane	54.49	0.67	5.0	50.00	0	109	75	125	0	0	0	
Vinyl acetate	58.27	0.37	5.0	50.00	0	117	65	138	0	0	0	
2-Butanone	60.46	2.0	5.0	50.00	0	121	30	160	0	0	0	
cis-1,2-Dichloroethene	54.23	0.75	5.0	50.00	0	108	65	125	0	0	0	
Chloroform	54.61	0.64	5.0	50.00	0	109	70	125	0	0	0	
1,1,1-Trichloroethane	54.56	0.53	5.0	50.00	0	109	70	135	0	0	0	
Carbon tetrachloride	53.93	0.33	5.0	50.00	0	108	65	135	0	0	0	
1,2-Dichloroethane	56.43	0.54	5.0	50.00	0	113	70	135	0	0	0	
Benzene	54.58	0.61	5.0	50.00	0	109	75	125	0	0	0	
Trichloroethene	53.82	0.62	5.0	50.00	0	108	75	125	0	0	0	
1,2-Dichloropropane	55.41	0.69	5.0	50.00	0	111	70	120	0	0	0	
Bromodichloromethane	56.39	0.97	5.0	50.00	0	113	70	130	0	0	0	
cis-1,3-Dichloropropene	58.86	0.67	5.0	50.00	0	118	70	125	0	0	0	
4-Methyl-2-pentanone	59.65	0.73	5.0	50.00	0	119	45	145	0	0	0	
Toluene	53.60	0.47	5.0	50.00	0	107	70	125	0	0	0	
trans-1,3-Dichloropropene	59.03	0.68	5.0	50.00	0	118	65	125	0	0	0	
1,1,2-Trichloroethane	55.43	0.48	5.0	50.00	0	111	60	125	0	0	0	
Tetrachloroethene	50.61	0.62	5.0	50.00	0	101	65	140	0	0	0	
2-Hexanone	62.36	0.83	5.0	50.00	0	125	45	145	0	0	0	
m,p-Xylene	55.41	0.65	5.0	50.00	0	111	65	130	0	0	0	
o-Xylene	56.80	0.47	5.0	50.00	0	114	75	125	0	0	0	
Styrene	56.30	0.52	5.0	50.00	0	113	75	125	0	0	0	
Bromoform	55.37	2.0	5.0	50.00	0	111	55	135	0	0	0	
Isopropylbenzene	57.01	0.58	5.0	50.00	0	114	75	130	0	0	0	

Qualifiers: ND - Not Detected at the MDL
J - Analyte detected below quantitation limits

S - Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

MDL - Method Detection Limit
RL - Reporting Limit

B - Analyte detected in the associated Method Blank

CLIENT: Stantec Consulting
Work Order: L1794
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT
SW8260_LOW_S
SW846 8260C -- VOC by GC-MS

Sample ID: LCS-67825	SampType: LCS	Batch ID: 67825	TestCode: SW8260_LOW_S	Units: ug/Kg	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,2,2-Tetrachloroethane	54.54	0.68	5.0	50.00	0	109	55	130	0						
n-Propylbenzene	54.90	0.44	5.0	50.00	0	110	65	135	0						
1,3,5-Trimethylbenzene	56.04	0.61	5.0	50.00	0	112	65	135	0						
tert-Butylbenzene	57.58	0.52	5.0	50.00	0	115	65	130	0						
1,2,4-Trimethylbenzene	55.33	0.57	5.0	50.00	0	111	65	135	0						
sec-Butylbenzene	56.13	0.62	5.0	50.00	0	112	65	130	0						
4-Isopropyltoluene	56.54	0.71	5.0	50.00	0	113	75	135	0						
1,3-Dichlorobenzene	53.24	0.70	5.0	50.00	0	106	70	125	0						
1,4-Dichlorobenzene	52.54	0.80	5.0	50.00	0	105	70	125	0						
n-Butylbenzene	56.86	0.67	5.0	50.00	0	114	65	140	0						
1,2-Dichlorobenzene	53.43	0.62	5.0	50.00	0	107	75	120	0						
Naphthalene	56.40	0.78	5.0	50.00	0	113	40	125	0						
2-Chloroethyl vinyl ether	54.94	1.0	5.0	50.00	0	110	70	130	0						
Surrogate:															
Dibromofluoromethane	51.29	5.0	50.00	0	103	65	132	0							
Surrogate: 1,2-Dichloroethane-d4	51.58	5.0	50.00	0	103	65	128	0							
Surrogate: Toluene-d8	49.17	5.0	50.00	0	98.3	85	115	0							
Surrogate:	50.74	5.0	50.00	0	101	77	111	0							
Bromofluorobenzene															

Qualifiers: ND - Not Detected at the MDL
J - Analyte detected below quantitation limits

S - Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

MDL - Method Detection Limit
RL - Reporting Limit

Run ID: V10_120824A
SeqNo: 1785612

B - Analyte detected in the associated Method Blank

CLIENT: Stantec Consulting
Work Order: L1794
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S
SW846 8260C -- VOC by GC-MS

Sample ID: LCSD-67807		SampType: LCSD	TestCode: SW8260_LOW_S		Prep Date: 08/23/12 8:42		Analysis Date: 08/23/12 18:34		Run ID: V10_120823A		SeqNo: 1785027				
Client ID:	LCSD-67807	Batch ID: 67807	Units: ug/Kg		MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyst		Result													
Chloromethane	49.51	0.80	5.0	50.00	0	99.0	50	130	51.03	3.02	40				
Vinyl chloride	50.17	0.63	5.0	50.00	0	100	60	125	49.30	1.75	40				
Bromomethane	45.44	1.1	5.0	50.00	0	90.9	30	160	50.64	10.8	40				
Chloroethane	51.56	1.0	5.0	50.00	0	103	40	155	48.72	5.66	40				
Trichlorofluoromethane	50.94	0.42	5.0	50.00	0	102	25	185	46.76	8.56	40				
1,1-Dichloroethene	48.03	0.95	5.0	50.00	0	96.1	65	135	48.06	0.0702	40				
Acetone	33.77	1.6	5.0	50.00	0	67.5	20	160	55.33	48.4	40	R			
Carbon disulfide	48.64	0.30	5.0	50.00	0	97.3	45	160	47.25	2.9	40				
Methylene chloride	46.42	1.3	5.0	50.00	0	92.8	55	140	43.57	6.33	40				
trans-1,2-Dichloroethene	49.97	0.53	5.0	50.00	0	99.9	65	135	47.15	5.81	40				
Methyl tert-butyl ether	51.90	0.61	5.0	50.00	0	104	75	126	49.05	5.64	40				
1,1-Dichloroethane	51.17	0.67	5.0	50.00	0	102	75	125	47.30	7.85	40				
Vinyl acetate	51.08	0.37	5.0	50.00	0	102	65	138	48.86	4.43	40				
2-Butanone	45.12	2.0	5.0	50.00	0	90.2	30	160	52.36	14.9	40				
cis-1,2-Dichloroethene	49.59	0.75	5.0	50.00	0	99.2	65	125	48.01	3.23	40				
Chloroform	52.15	0.64	5.0	50.00	0	104	70	125	46.62	11.2	40				
1,1,1-Trichloroethane	50.60	0.53	5.0	50.00	0	101	70	135	47.40	6.53	40				
Carbon tetrachloride	49.77	0.33	5.0	50.00	0	99.5	65	135	46.87	6.0	40				
1,2-Dichloroethane	53.34	0.54	5.0	50.00	0	107	70	135	46.97	12.7	40				
Benzene	49.96	0.61	5.0	50.00	0	99.9	75	125	47.12	5.85	40				
Trichloroethene	47.83	0.62	5.0	50.00	0	95.7	75	125	46.87	2.02	40				
1,2-Dichloropropane	52.52	0.69	5.0	50.00	0	105	70	120	47.69	9.63	40				
Bromodichloromethane	52.95	0.97	5.0	50.00	0	106	70	130	47.29	11.3	40				
cis-1,3-Dichloropropene	49.99	0.67	5.0	50.00	0	100	70	125	50.28	0.571	40				
4-Methyl-2-pentanone	52.70	0.73	5.0	50.00	0	105	45	145	49.02	7.22	40				
Toluene	49.21	0.47	5.0	50.00	0	98.4	70	125	46.81	5.0	40				
trans-1,3-Dichloropropene	50.46	0.68	5.0	50.00	0	101	65	125	49.53	1.86	40				
1,1,2-Trichloroethane	51.88	0.48	5.0	50.00	0	104	60	125	46.20	11.6	40				
Tetrachloroethene	49.18	0.62	5.0	50.00	0	98.4	65	140	47.37	3.76	40				
2-Hexanone	45.89	0.83	5.0	50.00	0	91.8	45	145	52.97	14.3	40				
Dibromochloromethane	49.59	0.65	5.0	50.00	0	99.2	65	130	48.53	2.16	40				
Chlorobenzene	46.79	0.51	5.0	50.00	0	93.6	75	125	47.31	1.12	40				
Ethylbenzene	47.46	0.50	5.0	50.00	0	94.9	75	125	49.29	3.76	40				
m,p-Xylene	50.19	0.47	5.0	50.00	0	100	75	125	49.90	0.581	40				
o-Xylene	50.79	0.52	5.0	50.00	0	102	75	125	49.38	2.82	40				
Styrene	49.43	2.0	5.0	50.00	0	98.9	55	135	48.03	2.88	40				
Bromoform	49.09	0.58	5.0	50.00	0	98.2	75	130	50.93	3.68	40				

Qualifiers: ND - Not Detected at the MDL
 J - Analyte detected below quantitation limits

S - Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

MDL - Method Detection Limit
 RL - Reporting Limit

B - Analyte detected in the associated Method Blank

CLIENT: Stantec Consulting
Work Order: L1794
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT
SW8260_LOW_S
SW846 8260C -- VOC by GC-MS

Sample ID: LCSD-67807	SampType: LCSD	TestCode: SW8260_LOW_S	Prep Date: 08/23/12 8:42	Run ID: V10_120823A								
Client ID: LCSD-67807	Batch ID: 67807	Units: ug/Kg	Analysis Date: 08/23/12 18:34	SeqNo: 1785027								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,2,2-Tetrachloroethane	47.96	0.68	5.0	50.00	0	95.9	55	130	46.09	3.99	40	
n-Propylbenzene	45.62	0.44	5.0	50.00	0	91.2	65	135	48.33	5.78	40	
1,3,5-Trimethylbenzene	48.03	0.61	5.0	50.00	0	96.1	65	135	49.65	3.31	40	
tert-Butylbenzene	48.06	0.52	5.0	50.00	0	96.1	65	130	50.59	5.15	40	
1,2,4-Trimethylbenzene	47.58	0.57	5.0	50.00	0	95.2	65	135	48.87	2.67	40	
sec-Butylbenzene	48.01	0.62	5.0	50.00	0	96.0	65	130	49.22	2.48	40	
4-Isopropyltoluene	47.47	0.71	5.0	50.00	0	94.9	75	135	49.87	4.92	40	
1,3-Dichlorobenzene	46.41	0.70	5.0	50.00	0	92.8	70	125	47.12	1.54	40	
1,4-Dichlorobenzene	45.94	0.80	5.0	50.00	0	91.9	70	125	46.37	0.923	40	
n-Butylbenzene	47.81	0.67	5.0	50.00	0	95.6	65	140	49.85	4.19	40	
1,2-Dichlorobenzene	47.97	0.62	5.0	50.00	0	95.9	75	120	46.74	2.6	40	
Naphthalene	48.53	0.78	5.0	50.00	0	97.1	40	125	50.24	3.47	40	
2-Chloroethyl vinyl ether	50.62	1.0	5.0	50.00	0	101	70	130	47.22	6.95	40	
Surrogate:									0	0	40	
Dibromofluoromethane												
Surrogate: 1,2-Dichloroethane-d4	51.60	5.0	50.00	0	103	65	128	0	0	40		
Surrogate: Toluene-d8	48.28	5.0	50.00	0	96.6	85	115	0	0	40		
Surrogate:									0	0	40	
Bromofluorobenzene	51.09	5.0	50.00	0	102	77	111	0	0	40		

Qualifiers: ND - Not Detected at the MDL
J - Analyte detected below quantitation limits

S - Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

MDL - Method Detection Limit
RL - Reporting Limit

CLIENT: Stantec Consulting
Work Order: L1794
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S
SW846 8260C -- VOC by GC-MS

Sample ID: LCSD-67825		SampType: LCSD	TestCode: SW8260_LOW_S		Prep Date: 08/24/12 9:28		Analysis Date: 08/24/12 10:16		Run ID: V10_120824A		SeqNo: 1785613				
Client ID:	LCSD-67825	Batch ID: 67825	Units: ug/Kg		MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	48.39	0.80	5.0	50.00	0	96.8	50	130	58.62	19.1	40				
Vinyl chloride	50.09	0.63	5.0	50.00	0	100	60	125	58.25	15	40				
Bromomethane	54.37	1.1	5.0	50.00	0	109	30	160	62.03	13.2	40				
Chloroethane	50.69	1.0	5.0	50.00	0	101	40	155	59.36	15.8	40				
Trichlorofluoromethane	45.96	0.42	5.0	50.00	0	91.9	25	185	56.21	20.1	40				
1,1-Dichloroethene	46.85	0.95	5.0	50.00	0	93.7	65	135	54.10	14.4	40				
Acetone	53.74	1.6	5.0	50.00	0	107	20	160	66.28	20.9	40				
Carbon disulfide	46.37	0.30	5.0	50.00	0	92.7	45	160	53.27	13.8	40				
Methylene chloride	43.35	1.3	5.0	50.00	0	86.7	55	140	50.48	15.2	40				
trans-1,2-Dichloroethene	46.52	0.53	5.0	50.00	0	93.0	65	135	53.44	13.8	40				
Methyl tert-butyl ether	48.96	0.61	5.0	50.00	0	97.9	75	126	59.08	18.7	40				
1,1-Dichloroethane	47.17	0.67	5.0	50.00	0	94.3	75	125	54.49	14.4	40				
Vinyl acetate	48.66	0.37	5.0	50.00	0	97.3	65	138	58.27	18	40				
2-Butanone	53.20	2.0	5.0	50.00	0	106	30	160	60.46	12.8	40				
cis-1,2-Dichloroethene	46.74	0.75	5.0	50.00	0	93.5	65	125	54.23	14.8	40				
Chloroform	46.48	0.64	5.0	50.00	0	93.0	70	125	54.61	16.1	40				
1,1,1-Trichloroethane	46.59	0.53	5.0	50.00	0	93.2	70	135	54.56	15.8	40				
Carbon tetrachloride	45.91	0.33	5.0	50.00	0	91.8	65	135	53.93	16.1	40				
1,2-Dichloroethane	46.93	0.54	5.0	50.00	0	93.9	70	135	56.43	18.4	40				
Benzene	46.56	0.61	5.0	50.00	0	93.1	75	125	54.58	15.8	40				
Trichloroethene	45.53	0.62	5.0	50.00	0	91.1	75	125	53.82	16.7	40				
1,2-Dichloropropane	47.20	0.69	5.0	50.00	0	94.4	70	120	55.41	16	40				
Bromodichloromethane	46.87	0.97	5.0	50.00	0	93.7	70	130	56.39	18.4	40				
cis-1,3-Dichloropropene	48.53	0.67	5.0	50.00	0	97.1	70	125	58.86	19.2	40				
4-Methyl-2-pentanone	50.17	0.73	5.0	50.00	0	100	45	145	59.65	17.3	40				
Toluene	45.40	0.47	5.0	50.00	0	90.8	70	125	53.60	16.6	40				
trans-1,3-Dichloropropene	47.75	0.68	5.0	50.00	0	95.5	65	125	59.03	21.1	40				
1,1,2-Trichloroethane	45.72	0.48	5.0	50.00	0	91.4	60	125	55.43	19.2	40				
Tetrachloroethene	42.91	0.62	5.0	50.00	0	85.8	65	140	50.61	16.5	40				
2-Hexanone	51.62	0.83	5.0	50.00	0	103	45	145	62.36	18.8	40				
Dibromochloromethane	46.25	0.65	5.0	50.00	0	92.5	65	130	55.41	18	40				
Chlorobenzene	44.55	0.51	5.0	50.00	0	89.1	75	125	52.10	15.6	40				
Ethylbenzene	46.06	0.50	5.0	50.00	0	92.1	75	125	54.51	16.8	40				
m,p-Xylene	91.55	1.6	5.0	100.0	0	91.5	80	125	108.5	16.9	40				
o-Xylene	47.23	0.47	5.0	50.00	0	94.5	75	125	56.80	18.4	40				
Styrene	46.98	0.52	5.0	50.00	0	94.0	75	125	56.30	18.1	40				
Bromoform	46.20	2.0	5.0	50.00	0	92.4	55	135	55.37	18.1	40				
Isopropylbenzene	46.63	0.58	5.0	50.00	0	93.3	75	130	57.01	20	40				

Qualifiers: ND - Not Detected at the MDL
 J - Analyte detected below quantitation limits

S - Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

MDL - Method Detection Limit
 RL - Reporting Limit

B - Analyte detected in the associated Method Blank

CLIENT: Stantec Consulting
Work Order: L1794
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT
SW8260_LOW_S
SW846 8260C -- VOC by GC-MS

Sample ID: LCSD-67825	SampType: LCSD	TestCode: SW8260_LOW_S	Prep Date: 08/24/12 9:28	Run ID: V10_120824A								
Client ID: LCSD-67825	Batch ID: 67825	Units: ug/Kg	Analysis Date: 08/24/12 10:16	SeqNo: 1785613								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,2,2-Tetrachloroethane	45.69	0.68	5.0	50.00	0	91.4	55	130	54.54	17.7	40	
n-Propylbenzene	45.45	0.44	5.0	50.00	0	90.9	65	135	54.90	18.8	40	
1,3,5-Trimethylbenzene	45.88	0.61	5.0	50.00	0	91.8	65	135	56.04	19.9	40	
tert-Butylbenzene	47.20	0.52	5.0	50.00	0	94.4	65	130	57.58	19.8	40	
1,2,4-Trimethylbenzene	45.02	0.57	5.0	50.00	0	90.0	65	135	55.33	20.6	40	
sec-Butylbenzene	45.78	0.62	5.0	50.00	0	91.6	65	130	56.13	20.3	40	
4-Isopropyltoluene	45.49	0.71	5.0	50.00	0	91.0	75	135	56.54	21.7	40	
1,3-Dichlorobenzene	44.21	0.70	5.0	50.00	0	88.4	70	125	53.24	18.5	40	
1,4-Dichlorobenzene	43.25	0.80	5.0	50.00	0	86.5	70	125	52.54	19.4	40	
n-Butylbenzene	45.63	0.67	5.0	50.00	0	91.3	65	140	56.86	21.9	40	
1,2-Dichlorobenzene	43.76	0.62	5.0	50.00	0	87.5	75	120	53.43	19.9	40	
Naphthalene	47.11	0.78	5.0	50.00	0	94.2	40	125	56.40	17.9	40	
2-Chloroethyl vinyl ether	45.87	1.0	5.0	50.00	0	91.7	70	130	54.94	18	40	
Surrogate:									0	0	40	
Dibromofluoromethane												
Surrogate: 1,2-Dichloroethane-d4	50.48	5.0	50.00	0	101	65	128	0	0	0	40	
Surrogate: Toluene-d8	50.22	5.0	50.00	0	100	85	115	0	0	0	40	
Surrogate:									0	0	40	
Bromofluorobenzene	50.94	5.0	50.00	0	102	77	111	0	0	0	40	

Qualifiers: ND - Not Detected at the MDL
J - Analyte detected below quantitation limits

S - Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

MDL - Method Detection Limit
RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

08/28/2012

Client: Stantec Consulting

Client Sample ID: B-14S

Lab ID: L1794-06

Project: Genesee Street

Collection Date: 08/20/12 12:00

Analyses	Result	Qual	RL Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID						
Extractable Total Petroleum Hydrocarbon	16		7.6 mg/Kg	1	08/27/2012 10:53	67832
Surrogate: ortho-Terphenyl	72.7		50-150 %REC	1	08/27/2012 10:53	67832

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hamibal Tech

Date: 08/28/2012

CLIENT: Stantec Consulting
Work Order: L1794
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT

TPH_S

SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID

Sample ID:	MB-67832	Samp Type:	MBLK	TestCode:	TPH_S	Prep Date:	08/24/12 11:00	Run ID:	F1_120827A		
Client ID:	MB-67832	Batch ID:	67832	Units:	mg/Kg	Analysis Date:	08/27/12 9:53	SeqNo:	1785692		
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit	Qual
Extractable Total Petroleum Hydrocarbon Surrogate: ortho-Terphenyl	ND	1.3	7.0								
	2.917	0.83		3.333	0	87.5	50	150	0		
Sample ID: LCS-67832	Samp Type: LCS	TestCode: TPH_S				Prep Date:	08/24/12 11:00	Run ID:	F1_120827A		
Client ID: LCS-67832	Batch ID: 67832	Units: mg/Kg				Analysis Date:	08/27/12 10:13	SeqNo:	1785693		
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit	Qual
Extractable Total Petroleum Hydrocarbon Surrogate: ortho-Terphenyl	146.8	1.3	7.0	166.7	0	88.1	60	140	0		
	2.945	0.83		3.333	0	88.4	50	150	0		
Sample ID: LCSD-67832	Samp Type: LCSD	TestCode: TPH_S				Prep Date:	08/24/12 11:00	Run ID:	F1_120827A		
Client ID: LCSD-67832	Batch ID: 67832	Units: mg/Kg				Analysis Date:	08/27/12 10:33	SeqNo:	1785694		
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit	Qual
Extractable Total Petroleum Hydrocarbon Surrogate: ortho-Terphenyl	140.9	1.3	7.0	166.7	0	84.5	60	140	146.8	4.12	20
	2.879	0.83		3.333	0	86.4	50	150	0		

Qualifiers: ND - Not Detected at the MDL
J - Analyte detected below quantitation limits

S - Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

MDL - Method Detection Limit
RL - Reporting Limit

B - Analyte detected in the associated Method Blank

mm11.12.11.A

Analysis Report: Fuel Identification

Client: STANTEC
Analysis: Fuel ID

Project: Genesee Street

<u>Lab ID</u>	<u>Result</u>
L1794-06B	Unidentified - no fuel pattern

(*) Lab reference standards included:

- Diesel Fuel/ #2 Fuel Oil
- Motor Oil
- #4 Fuel Oil
- #5 Fuel Oil
- #6 Fuel Oil
- Unleaded Gasoline
- Aviation Gasoline
- Jet Fuel A
- Kerosene
- Creosote
- Mineral Spirits
- Hydraulic Oil
- JP-4
- JP-5
- Transmission Fluid
- Coal Tar
- Transformer Oil

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

08/28/2012

Client: Stantec Consulting

Client Sample ID: B-9S

Lab ID: L1794-01

Project: Genesee Street

Collection Date: 08/20/12 9:30

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP				SW6010_S
Selenium	1.7	1.5 mg/Kg	1 08/24/2012 11:03	67802

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

08/28/2012

Client: Stantec Consulting

Client Sample ID: B-10S

Lab ID: L1794-02

Project: Genesee Street

Collection Date: 08/20/12 9:58

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP				SW6010_S
Selenium	ND	1.4 mg/Kg	1 08/24/2012 11:07	67802

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

08/28/2012

Client: Stantec Consulting

Client Sample ID: B-11S

Lab ID: L1794-03

Project: Genesee Street

Collection Date: 08/20/12 10:25

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP				SW6010_S
Selenium	1.5	1.2 mg/Kg	1 08/24/2012 11:11	67802

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

08/28/2012

Client: Stantec Consulting

Client Sample ID: B-12S

Lab ID: L1794-04

Project: Genesee Street

Collection Date: 08/20/12 11:10

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP				SW6010_S
Selenium	ND	1.5 mg/Kg	1 08/24/2012 11:14	67802

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

08/28/2012

Client: Stantec Consulting

Client Sample ID: B-13S

Lab ID: L1794-05

Project: Genesee Street

Collection Date: 08/20/12 11:30

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP				SW6010_S
Selenium	1.1 J	1.4 mg/Kg	1 08/24/2012 11:18	67802

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

08/28/2012

Client: Stantec Consulting

Client Sample ID: B-14S

Lab ID: L1794-06

Project: Genesee Street

Collection Date: 08/20/12 12:00

Analyses	Result	Qual	RL Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP						
Arsenic	5.4		0.82 mg/Kg		1 08/24/2012 10:33	67802
Barium	21	B	8.2 mg/Kg		1 08/24/2012 10:33	67802
Cadmium	ND		0.21 mg/Kg		1 08/24/2012 10:33	67802
Chromium	7.1		0.82 mg/Kg		1 08/24/2012 10:33	67802
Lead	7.6		0.41 mg/Kg		1 08/24/2012 10:33	67802
Selenium	0.76	J	1.2 mg/Kg		1 08/24/2012 10:33	67802
Silver	ND		1.2 mg/Kg		1 08/24/2012 10:33	67802
SW846 7471B -- Mercury by FIA						
Mercury	0.0034	J	0.037 mg/Kg		1 08/28/2012 14:40	67842

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

08/28/2012

Client: Stantec Consulting

Client Sample ID: B-15S

Lab ID: L1794-07

Project: Genesee Street

Collection Date: 08/20/12 13:30

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP				SW6010_S
Selenium	ND	1.2 mg/Kg	1 08/24/2012 11:22	67802

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

08/28/2012

Client: Stantec Consulting

Client Sample ID: B-16S

Lab ID: L1794-08

Project: Genesee Street

Collection Date: 08/20/12 14:04

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP				SW6010_S
Selenium	1.1 J	1.6 mg/Kg	1 08/24/2012 11:26	67802

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

08/28/2012

Client: Stantec Consulting

Client Sample ID: B-18S

Lab ID: L1794-10

Project: Genesee Street

Collection Date: 08/20/12 15:00

Analyses	Result	Qual	RL Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP						
Arsenic	3.2		0.73 mg/Kg		1 08/24/2012 10:37	67802
Barium	21	B	7.3 mg/Kg		1 08/24/2012 10:37	67802
Cadmium	0.041	J	0.18 mg/Kg		1 08/24/2012 10:37	67802
Chromium	6.1		0.73 mg/Kg		1 08/24/2012 10:37	67802
Lead	7.2		0.37 mg/Kg		1 08/24/2012 10:37	67802
Selenium	0.68	J	1.1 mg/Kg		1 08/24/2012 10:37	67802
Silver	ND		1.1 mg/Kg		1 08/24/2012 10:37	67802
SW846 7471B -- Mercury by FIA						
Mercury	ND		0.038 mg/Kg		1 08/28/2012 14:41	67842

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Tech

Date: 08/28/2012

CLIENT: Stanton Consulting
Work Order: L1794
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT

SW6010_S

SW846 6010C -- Metals by ICP

Sample ID: MB-67802		SampType: MBLK	TestCode: SW6010_S		Prep Date: 08/23/12 13:00		Run ID: OPTIMA3_120824A		
Client ID:	Batch ID:	Batch ID: 67802	Units: mg/Kg	MDL	RL	SPK value	SPK Ref Val	Analysis Date: 08/24/12 10:03	SeqNo: 1785415
Arsenic	ND	0.41	1.0						
Barium	0.03429	0.031	10						J
Cadmium	ND	0.015	0.25						
Chromium	ND	0.019	1.0						
Lead	ND	0.17	0.50						
Selenium	ND	0.64	1.5						
Silver	0.06655	0.064	1.5						J

Sample ID: LCS-67802		SampType: LCS	TestCode: SW6010_S		Prep Date: 08/23/12 13:00		Run ID: OPTIMA3_120824A		
Client ID:	Batch ID:	Batch ID: 67802	Units: mg/Kg	MDL	RL	SPK value	SPK Ref Val	Analysis Date: 08/24/12 10:07	SeqNo: 1785416
Arsenic	23.41	0.41	1.0			22.75	0		
Barium	471.9	0.031	10			455.0	0		
Cadmium	11.53	0.015	0.25			11.35	0		
Chromium	46.13	0.019	1.0			45.50	0		
Lead	23.11	0.17	0.50			22.75	0		
Selenium	21.96	0.64	1.5			22.75	0		
Silver	56.72	0.064	1.5			56.50	0		

Sample ID: L1794-10ADUP		SampType: DUP	TestCode: SW6010_S		Prep Date: 08/23/12 13:00		Run ID: OPTIMA3_120824A		
Client ID:	Batch ID:	Batch ID: 67802	Units: mg/Kg	MDL	RL	SPK value	SPK Ref Val	Analysis Date: 08/24/12 10:40	SeqNo: 1785425
Arsenic	3.701	0.30	0.73	0		0	0		
Barium	22.01	0.023	7.3	0		0	0		
Cadmium	0.07377	0.011	0.18	0		0	0		
Chromium	6.184	0.014	0.73	0		0	0		
Lead	11.03	0.12	0.37	0		0	0		
Selenium	0.8537	0.47	1.1	0		0	0		
Silver	ND	0.047	1.1	0		0	0		

Qualifiers: ND - Not Detected at the MDL
J - Analyte detected below quantitation limits

S - Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

MDL - Method Detection Limit
RL - Reporting Limit

B - Analyte detected in the associated Method Blank

CLIENT: Stantec Consulting
Work Order: L1794
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT

SW6010_S

SW846 6010C -- Metals by ICP

Sample ID: L1794-10AMS		SampType: MS	TestCode: SW6010_S		Prep Date: 08/23/12 13:00		Run ID: OPTIMA3_120824A					
Client ID: B-18S		Batch ID: 67802	Units: mg/Kg		Analysis Date: 08/24/12 10:44		SeqNo: 1785426					
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	21.26	0.30	0.73	16.62	3.189	109	80	120	0			
Barium	348.5	0.023	7.3	332.4	21.25	98.5	80	120	0			
Cadmium	7.534	0.011	0.18	8.291	0.04140	90.4	80	120	0			
Chromium	38.47	0.014	0.73	33.24	6.137	97.3	80	120	0			
Lead	25.85	0.12	0.37	16.62	7.231	112	80	120	0			
Selenium	17.02	0.47	1.1	16.62	0.6775	98.4	80	120	0			
Silver	45.86	0.047	1.1	41.27	0	111	75	120	0			
Sample ID: L1794-10ASD		SampType: SD	TestCode: SW6010_S		Prep Date: 08/23/12 13:00		Run ID: OPTIMA3_120824A					
Client ID: B-18S		Batch ID: 67802	Units: mg/Kg		Analysis Date: 08/24/12 10:52		SeqNo: 1785428					
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	3.365	1.5	3.7	0	0	0	0	0	3.189	5.39	10	J
Barium	22.59	0.11	37	0	0	0	0	0	21.25	6.13	10	BJ
Cadmium	ND	0.055	0.91	0	0	0	0	0	0.04140	0	10	
Chromium	6.327	0.069	3.7	0	0	0	0	0	6.137	3.05	10	
Lead	7.520	0.62	1.8	0	0	0	0	0	7.231	3.92	10	
Selenium	ND	2.3	5.5	0	0	0	0	0	0.6775	0	10	
Silver	ND	0.23	5.5	0	0	0	0	0	0	0	10	

Qualifiers: ND - Not Detected at the MDL
 mml 1.12.11.A J - Analyte detected below quantitation limits

S - Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

MDL - Method Detection Limit
 RL - Reporting Limit

B - Analyte detected in the associated Method Blank

CLIENT: Stantec Consulting
Work Order: L1794
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT
SW7471
SW846 7471B -- Mercury by FIA

Sample ID: MB-67842	SampType: MBLK	TestCode: SW7471	Prep Date: 08/27/12 15:50	Run ID: FIMS2_120328B
Client ID: MB-67842	Batch ID: 67842	Units: mg/Kg	Analysis Date: 08/28/12 14:33	SeqNo: 1786826
Analyte	Result	MDL	SPK value	SPK Ref Val
Mercury	ND	0.0021	0.033	

Sample ID: LCS-67842	SampType: LCS	TestCode: SW7471	Prep Date: 08/27/12 15:50	Run ID: FIMS2_120328B
Client ID: LCS-67842	Batch ID: 67842	Units: mg/Kg	Analysis Date: 08/28/12 14:35	SeqNo: 1786827
Analyte	Result	MDL	SPK value	SPK Ref Val
Mercury	0.7452	0.0021	0.033	0.7580

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

mm1.12.11.A

B - Analyte detected in the associated Method Blank

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

WorkOrder: L1794

Client ID: STANTEC
Project: Genesee Street
WO Name: Genesee Street
Location: GENESEE,
Comments: N/A

Case: HC Due: 08/28/12
SDG: Fax Due: 08/28/12
PO: PO Report: EQUIIS_4
Comments: 190500696

Report Level: LEVEL 2
Special Program:
EDD: EQUIIS_4

Lab Samp ID	Client Sample ID	Collection Date	Date Rec'd	Matrix	Test Code	Samp / Lab Test Comments			HF	HT	MS	SEL Storage
L1794-01A	B-9S	08/20/2012 09:30	08/22/2012	Soil	PMoist	/			C2			
L1794-01A	B-9S	08/20/2012 09:30	08/22/2012	Soil	SW6010_S	/ Se only			Y	C2		
L1794-01B	B-9S	08/20/2012 09:30	08/22/2012	Soil	SW8260_LOW_S	/ TCL/STARS			Y	VOA		
L1794-01B	B-9S	08/20/2012 09:30	08/22/2012	Soil	SW8260_MED_S	/ TCL/STARS			Y	VOA		
L1794-02A	B-10S	08/20/2012 09:58	08/22/2012	Soil	PMoist	/			C2			
L1794-02A	B-10S	08/20/2012 09:58	08/22/2012	Soil	SW6010_S	/ Se only			Y	C2		
L1794-02B	B-10S	08/20/2012 09:58	08/22/2012	Soil	SW8260_LOW_S	/ TCL/STARS			C2			
L1794-02B	B-10S	08/20/2012 09:58	08/22/2012	Soil	SW8260_MED_S	/ TCL/STARS			Y	VOA		
L1794-03A	B-11S	08/20/2012 10:25	08/22/2012	Soil	PMoist	/			C2			
L1794-03A	B-11S	08/20/2012 10:25	08/22/2012	Soil	SW6010_S	/ Se only			Y	C2		
L1794-03B	B-11S	08/20/2012 10:25	08/22/2012	Soil	SW8260_LOW_S	/ TCL/STARS			Y	VOA		
L1794-03B	B-11S	08/20/2012 10:25	08/22/2012	Soil	SW8260_MED_S	/ TCL/STARS			Y	VOA		
L1794-04A	B-12S	08/20/2012 11:10	08/22/2012	Soil	PMoist	/			C2			
L1794-04A	B-12S	08/20/2012 11:10	08/22/2012	Soil	SW6010_S	/ Se only			Y	C2		
L1794-04B	B-12S	08/20/2012 11:10	08/22/2012	Soil	SW8260_LOW_S	/ TCL/STARS			C2			
L1794-04B	B-12S	08/20/2012 11:10	08/22/2012	Soil	SW8260_MED_S	/ TCL/STARS			Y	VOA		
L1794-05A	B-13S	08/20/2012 11:30	08/22/2012	Soil	PMoist	/			C2			
L1794-05A	B-13S	08/20/2012 11:30	08/22/2012	Soil	SW6010_S	/ Se only			Y	C2		
L1794-05B	B-13S	08/20/2012 11:30	08/22/2012	Soil	SW8260_LOW_S	/ TCL/STARS			Y	VOA		
L1794-05B	B-13S	08/20/2012 11:30	08/22/2012	Soil	SW8260_MED_S	/ TCL/STARS			Y	VOA		
L1794-06A	B-14S	08/20/2012 12:00	08/22/2012	Soil	PMoist	/			C2			

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

WorkOrder: L1794

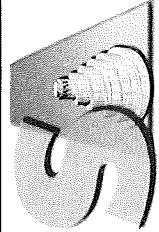
Client ID: STANTEC
Project: Genesee Street
WO Name: Genesee Street
Location: GENESEE,
Comments: N/A

Case:	HC Due: 08/28/12	Report Level: LEVEL 2
SDG:	Fax Due: 08/28/12	Special Program:
	<input checked="" type="checkbox"/> Fax Report:	EDD: EQUIIS_4
PO:	190500696	

Lab Samp ID	Client Sample ID	Collection Date	Date Rec'd	Matrix	Test Code	Samp / Lab Test Comments			HF	HT	MS	SEL Storage
L1794-06A	B-14S	08/20/2012 12:00	08/22/2012	Soil	SW6010_S	/ RCRA8			Y	C2		
L1794-06A	B-14S	08/20/2012 12:00	08/22/2012	Soil	SW7471	/ RCRA8			Y	C2		
L1794-06A	B-14S	08/20/2012 12:00	08/22/2012	Soil	TPH_S	/			Y	C2		
L1794-06B	B-14S	08/20/2012 12:00	08/22/2012	Soil	SW8260_LOW_S	/ TCL/STARS			Y	VOA		
L1794-06B	B-14S	08/20/2012 12:00	08/22/2012	Soil	SW8260_MED_S	/ TCL/STARS			Y	Y	VOA	
L1794-07A	B-15S	08/20/2012 13:30	08/22/2012	Soil	P_Moist	/			Y	C2		
L1794-07A	B-15S	08/20/2012 13:30	08/22/2012	Soil	SW6010_S	/ Se only			Y	C2		
L1794-07B	B-15S	08/20/2012 13:30	08/22/2012	Soil	SW8260_LOW_S	/ TCL/STARS			Y	VOA		
L1794-07B	B-15S	08/20/2012 13:30	08/22/2012	Soil	SW8260_MED_S	/ TCL/STARS			Y	Y	VOA	
L1794-08A	B-16S	08/20/2012 14:04	08/22/2012	Soil	P_Moist	/			Y	C2		
L1794-08A	B-16S	08/20/2012 14:04	08/22/2012	Soil	SW6010_S	/ Se only			Y	C2		
L1794-08B	B-16S	08/20/2012 14:04	08/22/2012	Soil	SW8260_LOW_S	/ TCL/STARS			Y	VOA		
L1794-08B	B-16S	08/20/2012 14:04	08/22/2012	Soil	SW8260_MED_S	/ TCL/STARS			Y	Y	VOA	
L1794-09A	B-17S	08/20/2012 00:00	08/22/2012	Soil	P_Moist	/			Y	Y	C2	
L1794-10A	B-18S	08/20/2012 15:00	08/22/2012	Soil	P_Moist	/			Y	C2		
L1794-10A	B-18S	08/20/2012 15:00	08/22/2012	Soil	SW6010_S	/ RCRA8			Y	C2		
L1794-10A	B-18S	08/20/2012 15:00	08/22/2012	Soil	SW7471	/ RCRA8			Y	C2		
L1794-10B	B-18S	08/20/2012 15:00	08/22/2012	Soil	SW8260_LOW_S	/ TCL/STARS			Y	VOA		
L1794-10B	B-18S	08/20/2012 15:00	08/22/2012	Soil	SW8260_MED_S	/ TCL/STARS			Y	Y	VOA	

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page 1 of 1

Special Handling:

- Standard TAT - 7 to 10 business days
- Rush TAT - Date Needed: 5 day
- All TATs subject to laboratory approval.
- Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report No: Stonotec Consulting
61 Commercial Street
Rochester, NY 14614

Telephone #: 585-413-5266

Project Mgr: Milke Stansky

P.O. No.: 10500690 RQN: _____

Invoice To: Stonotec

Location: Rochester State: NY

Sampler(s): K. Prento

Project No.: 10500696

Site Name: 437 Genesee St.

Analyses: Tl/Tl-800

List preservative code below:

—

QA/QC Reporting Notes:

* additional charges may apply

MA DEP MCP CAM Report: Yes No
 CT DPH RCP Report: Yes No

QA/QC Reporting Level:
 Standard No QC DQA*
 NY ASP A* NY ASP B*
 NJ Reduced* NJ Full*
 TIER II* TIER IV*
 Other

State-specific reporting standards:

Lab Id:	Sample Id:	Type	Matrix	# of VOA Vials		# of Amber Glass	# of Clear Glass	# of Plastic	Containers:	
				Date:	Time:				Analyses:	
U794-01	B-95	Grab	WW=Wastewater	09/20/12	09:30	G	50	1	—	Sealium
-02	B-105	Grab	O=Oil	09/20/12	09:55	G	50	1	X	TPH-800
-03	B-115	Grab	O=Oil	09/20/12	10:25	G	50	1	X	TPH-800
-04	B-125	Grab	SO=Soil	09/20/12	11:10	G	50	1	X	TPH-800
-05	B-135	Grab	SL=Sludge	09/20/12	11:30	G	50	1	X	TPH-800
-06	B-145	Grab	A=Air	09/20/12	12:00	G	50	1	X	TPH-800
-07	B-155	Grab	X1=X	09/20/12	13:30	G	50	1	X	TPH-800
-08	B-165	Grab	X2=X	09/20/12	14:04	G	50	1	X	TPH-800
-09	B-175	Grab	X3=X	09/20/12	14:41	G	50	1	X	TPH-800
U794-10	B-185	Composite	—	09/20/12	15:00	G	50	1	X	TPH-800
Received by:				Date:	Time:	Temp:	Condition upon receipt:	Condition upon receipt:	Comments:	
<u>Mike Stansky</u>				8/19/12	09:00	11:35	Condition upon receipt:	Condition upon receipt:	TPH-800	
<u>Mike Stansky</u>				8/22/12	11:35	3°	Condition upon receipt:	Condition upon receipt:	TPH-800	
<u>Mike Stansky</u>				8/22/12	11:35	3°	Condition upon receipt:	Condition upon receipt:	TPH-800	
<u>Mike Stansky</u>				8/22/12	11:35	3°	Condition upon receipt:	Condition upon receipt:	TPH-800	
<u>Mike Stansky</u>				8/22/12	11:35	3°	Condition upon receipt:	Condition upon receipt:	TPH-800	
<u>Mike Stansky</u>				8/22/12	11:35	3°	Condition upon receipt:	Condition upon receipt:	TPH-800	
<u>Mike Stansky</u>				8/22/12	11:35	3°	Condition upon receipt:	Condition upon receipt:	TPH-800	
<u>Mike Stansky</u>				8/22/12	11:35	3°	Condition upon receipt:	Condition upon receipt:	TPH-800	
<u>Mike Stansky</u>				8/22/12	11:35	3°	Condition upon receipt:	Condition upon receipt:	TPH-800	
<u>Mike Stansky</u>				8/22/12	11:35	3°	Condition upon receipt:	Condition upon receipt:	TPH-800	
<u>Mike Stansky</u>				8/22/12	11:35	3°	Condition upon receipt:	Condition upon receipt:	TPH-800	
<u>Mike Stansky</u>				8/22/12	11:35	3°	Condition upon receipt:	Condition upon receipt:	TPH-800	
<u>Mike Stansky</u>				8/22/12	11:35	3°	Condition upon receipt:	Condition upon receipt:	TPH-800	
<u>Mike Stansky</u>				8/22/12	11:35	3°	Condition upon receipt:	Condition upon receipt:	TPH-800	
<u>Mike Stansky</u>				8/22/12	11:35	3°	Condition upon receipt:	Condition upon receipt:	TPH-800	
<u>Mike Stansky</u>				8/22/12	11:35	3°	Condition upon receipt:	Condition upon receipt:	TPH-800	
<u>Mike Stansky</u>				8/22/12	11:35	3°	Condition upon receipt:	Condition upon receipt:	TPH-800	
<u>Mike Stansky</u>				8/22/12	11:35	3°	Condition upon receipt:	Condition upon receipt:	TPH-800	
<u>Mike Stansky</u>				8/22/12	11:35	3°	Condition upon receipt:	Condition upon receipt:	TPH-800	
<u>Mike Stansky</u>				8/22/12	11:35	3°	Condition upon receipt:	Condition upon receipt:	TPH-800	
<u>Mike Stansky</u>				8/22/12	11:35	3°	Condition upon receipt:	Condition upon receipt:	TPH-800	
<u>Mike Stansky</u>				8/22/12	11:35	3°	Condition upon receipt:	Condition upon receipt:	TPH-800	
<u>Mike Stansky</u>				8/22/12	11:35	3°	Condition upon receipt:	Condition upon receipt:	TPH-800	
<u>Mike Stansky</u>				8/22/12	11:35	3°	Condition upon receipt:	Condition upon receipt:	TPH-800	
<u>Mike Stansky</u>				8/22/12	11:35	3°	Condition upon receipt:	Condition upon receipt:	TPH-800	
<u>Mike Stansky</u>				8/22/12	11:35	3°	Condition upon receipt:	Condition upon receipt:	TPH-800	
<u>Mike Stansky</u>				8/22/12	11:35	3°	Condition upon receipt:	Condition upon receipt:	TPH-800	
<u>Mike Stansky</u>				8/22/12	11:35	3°	Condition upon receipt:	Condition upon receipt:	TPH-800	
<u>Mike Stansky</u>				8/22/12	11:35	3°	Condition upon receipt:	Condition upon receipt:	TPH-800	
<u>Mike Stansky</u>				8/22/12	11:35	3°	Condition upon receipt:	Condition upon receipt:	TPH-800	
<u>Mike Stansky</u>				8/22/12	11:35	3°	Condition upon receipt:	Condition upon receipt:	TPH-800	
<u>Mike Stansky</u>				8/22/12	11:35	3°	Condition upon receipt:	Condition upon receipt:	TPH-800	
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<u>Mike Stansky</u>				8/22/12	11:35	3°	Condition upon receipt:	Condition upon receipt:	TPH-800	
<u>Mike Stansky</u>				8/22/12	11:35	3°	Condition upon receipt			

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

Received By:	<i>Jeanine Brinewell</i>					Page 01 of 00	
Reviewed By:	<i>Jodie Warner</i>					Log-in Date 08/22/2012	
Work Order:	11794	Client Name: Stantec Consulting					
Project Name/Event: Genesee Street							
Remarks: (1/2) Please see associated sample/extract transfer logbook pages submitted with this data package.		Lab Sample ID	Preservation (pH)				Soil HeadSpace or Air Bubble > or equal to 1/4"
1. Custody Seal(s)	Present / Absent	L1794-01	HNO ₃	H ₂ SO ₄	HCl	NaOH	VOA Matrix
	Intact / Broken	L1794-02					US
2. Custody Seal Nos.	N/A	L1794-03					US
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists	Present / Absent	L1794-04					US
		L1794-05					US
		L1794-06					US
		L1794-07					US
4. Airbill	AirBill / Sticker	L1794-08					US
	Present / Absent	L1794-09					
5. Airbill No.	Courier N/A	L1794-10					US
6. Sample Tags	Present / Absent						
Sample Tag Numbers	Listed /						
	Not Listed on Chain-of-Custody						
7. Sample Condition	Intact / Broken / Leaking						
8. Cooler Temperature Indicator Bottle	Present / Absent						
9. Cooler Temperature	3 °C						
10. Does information on TR/COCs and sample tags agree?	Yes / No						
11. Date Received at Laboratory	08/22/2012						
12. Time Received	11:35						
Sample Transfer							
Fraction (1) TVOA/VOA	Fraction (2) SVOA/PEST/ARO						
Area #	Area #						
By	By						
On	On						
IR Temp Gun ID:MT-1							
CoolantCondition: ICE							
Preservative Name/Lot No.:							
		VOA Matrix Key:					
		US = Unpreserved Soil A= Air					
		UA = Unpreserved Aqueous H = HCl					
		M = MeOH E = Encore					
		N = NaHSO ₄ F = Freeze					
		See Sample Condition Notification/Corrective Action Form Yes / No					
		Rad OK Yes / No					

Agnes Huntley [Warwick]

From: Nancy Struzenski [Agawam]
Sent: Tuesday, August 21, 2012 11:58 AM
To: Agnes Huntley [Warwick]
Subject: FW: City Project - Genesee St

Agnes,

I believe Dorothy answered the list of questions. Are you all set with these two different projects? Let me know.

Thanks.

Nancy

Nancy J. Struzenski
Senior Account Executive
Spectrum Analytical, Inc.
Syracuse Office
6437 Collamer Road
East Syracuse, NY 13057
phone: (315) 214-5777
cell: (315) 415-7267

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From: Bauch-Barker, Dorothy [mailto:Dorothy.Bauch-Barker@stantec.com]
Sent: Tuesday, August 21, 2012 11:53 AM
To: nstruzenski@spectrum-analytical.com
Subject: City Project - Genesee St

Hi Nancy

We've talked to the client for the City project (Genesee St) and would like to make a few changes to the analyses listed on the chain. We would only like to run TPH on sample B-14 S. FYI, that had a PID of 510 ppm. It was the highest, and the next highest was 15 ppm at B-18 S, and the others were below 10 ppm. For samples B-14 S and B-18 S, we'd like to run RCRA Metals, rather than just selenium. Below is a table with all the analyses as summary.

	TCL/STARS VOCs	TPH	Selenium	RCRA Metals
B-9 S	X		X	
B-10 S	X		X	
B-11 S	X		X	
B-12 S	X		X	
B-13 S	X		X	
B-14 S	X	X		X
B-15 S	X		X	

B-16 S	X		X	
B-17 S	Hold	Hold	Hold	Hold
B-18 S	X			X

For your other questions – send the report to Mike Storonsky, but copy Katie Premo and me when it goes out. It is a standard report, no ASP, but with a standard EDD (EQUIS EZ-EDD). Also, below is a link to the EPA page for the TCL list (though it doesn't include a few of the extra STARS compounds). Let me know if you need more info than that.

<http://www.epa.gov/superfund/programs/clp/som-vtarget.htm>

Let me know if you have questions on the other project – the answers will be similar though.

Thanks

Dorothy

From: Nancy Struzenski [Syracuse] [\[mailto:nstruzenski@spectrum-analytical.com\]](mailto:nstruzenski@spectrum-analytical.com)

Sent: Tuesday, August 21, 2012 10:28 AM

To: Bauch-Barker, Dorothy

Subject: RE: Phase II Proposal - Today

Dorothy,

A few more things:

Should the report go to you or Mike Storonsky?

Also, we have only a standard analytical report requested, no EDD or ASP required? Is that correct?

Let me know in addition to the detection limits. Thanks.

Nancy

Nancy J. Struzenski
Senior Account Executive
Spectrum Analytical, Inc.
Syracuse Office
6437 Collamer Road
East Syracuse, NY 13057
phone: (315) 214-5777
cell: (315) 415-7267

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From: Bauch-Barker, Dorothy [\[mailto:Dorothy.Bauch-Barker@stantec.com\]](mailto:Dorothy.Bauch-Barker@stantec.com)

Sent: Tuesday, August 21, 2012 9:28 AM

To: nstruzenski@spectrum-analytical.com
Subject: RE: Phase II Proposal - Today

Hi Nancy

I just wanted to let you know that the courier stopped by and picked up the samples, but we are still waiting for client input on a few of the items, so there may be some minor changes to the analyses on the chain.

Thanks

Dorothy

From: Nancy Struzenski [Syracuse] [<mailto:nstruzenski@spectrum-analytical.com>]
Sent: Monday, August 20, 2012 5:00 PM
To: Bauch-Barker, Dorothy
Cc: Premo, Katherine
Subject: RE: Phase II Proposal - Today

Dorothy,

We will pick up your samples tomorrow. I will also schedule a similar pickup for Wednesday. You can confirm once you have collected the samples tomorrow.

If you have any questions, let me know.

Thanks.

Nancy

Nancy J. Struzenski
Senior Account Executive
Spectrum Analytical, Inc.
Syracuse Office
6437 Collamer Road
East Syracuse, NY 13057
phone: (315) 214-5777
cell: (315) 415-7267

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From: Bauch-Barker, Dorothy [<mailto:Dorothy.Bauch-Barker@stantec.com>]
Sent: Monday, August 20, 2012 4:18 PM
To: nstruzenski@spectrum-analytical.com
Subject: RE: Phase II Proposal - Today

Hi Nancy

I wanted to confirm that we are indeed soil sampling for the City project today, tomorrow, and probably Wed, with groundwater sampling likely next Mon-possibly Wed. I know I mentioned the plan before, but I wanted to confirm

it and get courier pickups set up (I'm not sure if you've talked about any of this with Katie Premo). Hopefully the courier can come out tomorrow, then Wed, and we'll check in again but probably Thurs for pickups (please confirm if this is ok). I did get the extra coolers and vials today – thanks. Also, FYI, I am out on vacation 8/24 – 8/29, so for that time you can coordinate with Katie Premo (cell 585-754-7104) or if she is going to be out in the field on those sampling days, you can coordinate with Mike Storonsky (585-413-5266, cell 585-298-2386) or Sam Burke (585-413-5306, cell 585-520-9956).

Thanks

Dorothy

From: Nancy Struzenski [Syracuse] [<mailto:nstruzenski@spectrum-analytical.com>]

Sent: Tuesday, August 14, 2012 1:23 PM

To: Bauch-Barker, Dorothy

Cc: nstruzenski@spectrum-analytical.com

Subject: RE: Phase II Proposal - Today

Good afternoon Dorothy,

I will have the bottles to you by Friday. I need to check with Mike on his schedule for Wed/Thu/Friday, but either way we will have the bottles delivered for both the Phase II and the City of Rochester projects. I have scheduled a sample pickup between 11-1 on Monday, 8/20/12. Will that work for you? If not, let me know what time works best. We can schedule the Rochester pickups as soon as you start the project. Thank you and look forward to working with you.

Have a great afternoon.

Nancy

P.S. Won't be able to make the NYWEA Meeting today. See you next time.

Nancy Struzenski
Senior Account Executive
Spectrum Analytical, Inc.
Syracuse Office
6263 Taft Road
Cicero, NY 13212
Office: (315) 214-5777
Cell: (315) 415-7267

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From: Bauch-Barker, Dorothy [<mailto:Dorothy.Bauch-Barker@stantec.com>]

Sent: Tuesday, August 14, 2012 8:28 AM

To: Nancy Struzenski [Agawam]

Subject: RE: Phase II Proposal - Today

Hi Nancy

Can you get us bottle sets for both this project and the City of Rochester project (quote STA071712)? For this project, we are scheduled to do the sampling on Saturday and will hand off the samples to your courier on Monday, for 5 day TAT. For the City project, we will hopefully start sampling on Monday (soils first, then groundwater a few days later) and will also hand off to your courier for 5 day TAT. For both projects, please include a few extra bottles just in case, and trip blanks.

Thanks

Dorothy

From: Nancy Struzenski [Agawam] [<mailto:nstruzenski@spectrum-analytical.com>]

Sent: Tuesday, August 07, 2012 9:23 AM

To: Bauch-Barker, Dorothy

Cc: Nancy Struzenski

Subject: Re: Phase II Proposal - Today

Dorothy,

The price will be 70.00 for standard TAT. No charge for 5-day. 15% for 72 hours. Let me know what else you need. If you collect on Sat you can ship directly if rush or we can pick up on Monday. Keep me posted and let me know how we make out.

Thanks.

Nancy

Nancy Struzenski,
Senior Sales Account Executive
Spectrum Analytical
315-415-7267

On Aug 7, 2012, at 8:45 AM, "Bauch-Barker, Dorothy" <Dorothy.Bauch-Barker@stantec.com> wrote:

Hi Nancy

I am putting together pricing for a proposal (which is of course due this afternoon), and wanted to check with you on pricing and TAT. It is a competitive pricing. We are planning to do 6 soil and 6 groundwater samples, plus a trip blank, for TCL/STARS VOCs. We will need pricing for both standard TAT and expedited. The work may or may not be done on a Saturday, so I also wanted to figure out how best to deal with getting the samples in for that case.

Thanks

Dorothy Bauch-Barker
Environmental Geologist
Stantec
61 Commercial Street
Rochester NY 14614
Ph: (585) 413-5276
Fx: (585) 272-1814
Cell: (585) 319-0800
Dorothy.BauchBarker@stantec.com
stantec.com

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 Please consider the environment before printing this email.

Last Page of Data Report

Report Date:
31-Aug-12 11:27

- Final Report
 Re-Issued Report
 Revised Report



Laboratory Report

Stantec Consulting
61 Commercial Street
Rochester, NY 14614

Work Order: L1803
Project: Genesee Street
Project #:

Attn: Mike Storonsky

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
L1803-01	BR-19 FILL	Soil	21-Aug-12 09:40	23-Aug-12 11:15
L1803-02	BR-19 S	Soil	21-Aug-12 10:30	23-Aug-12 11:15

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirements have been met.

Spectrum Analytical (Rhode Island) is accredited under the National Environmental Laboratory Approval Program (NELAP) and DoD Environmental Laboratory Accreditation Program (ELAP), holds Organic and Inorganic contracts under the USEPA CLP Program and is certified under several states. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.spectrum-analytical.com.

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Florida	E87664
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
North Carolina	581
Pennsylvania	68-00520
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033



Authorized by:

Yihai Ding
Laboratory Director

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : Stantec Consulting

Project: Genesee Street

Laboratory Workorder / SDG #: L1803

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8260C

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW5035

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V10
Instrument Type: GCMS-VOA
Description: HP7890A
Manufacturer: Agilent
Model: 7890A / 5975C

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

Tentatively identified compounds were searched for in the sample and

no TICs were found.

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.



Signed: _____

Date: _____ 8/29/2012 _____

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : Stantec Consulting

Project: Genesee Street

Laboratory Workorder / SDG #: L1803

SW846 8270D, SVOA by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8270D

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW3550

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: S6
Instrument Type: GCMS-Semi
Description: HP7890A
Manufacturer: Agilent
Model: 7890A/5973

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

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A handwritten signature in black ink, appearing to read "T. W. P." or a similar variation.

Signed: _____

Date: _____ 8/29/2012 _____

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : Stantec Consulting

Project: Genesee Street

Laboratory Workorder / SDG #: L1803

SW846 6010C, SW846 7471B

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 6010C, SW846 7471B

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code:
SW3005

Soil Samples were prepared following procedures in laboratory test code:
SW7471B

V. INSTRUMENTATION

The following instrumentation was used to perform

Instrument Code: FIMS2

Instrument Type: CVAA

Description: FIMS

Manufacturer: Perkin-Elmer

Model: FIMS100

Instrument Code: OPTIMA3

Instrument Type: ICP

Description: Optima ICP-OES

Manufacturer: Perkin-Elmer

Model: 4300 DV

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for laboratory control samples were within the QC limits.

2. Matrix spike (MS):

Matrix spike was performed on samples: BR-19 FILL (L1803-01AMS) for Mercury and BR-19 S (L1803-02AMS) for Selenium.

Percent recoveries were within the QC limits except for Mercury.

D. Post Digestion Spike (PDS):

A post-digestion spike was not performed on any sample in this SDG.

E. Duplicate sample:

Duplicate analysis was performed on samples: BR-19 FILL (L1803-01ADUP) for Mercury and BR-19 S (L1803-02ADUP) and Selenium.

Percent RPDs were within the QC limits except for Mercury.

F. Serial Dilution (SD):

Serial Dilution analysis was performed on sample: BR-19 S (L1803-02ASD).

Percent RPDs were within the QC limits.

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum RI, both technically and for completeness, except for the conditions noted above.
Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: 

Date: 08/29/12

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

08/28/2012

Client: Stantec Consulting

Client Sample ID: BR-19 S

Lab ID: L1803-02

Project: Genesee Street

Collection Date: 08/21/12 10:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							SW8260_LOW_S
Chloromethane	ND		5.4	ug/Kg		1 08/24/2012 16:22	67825
Vinyl chloride	ND		5.4	ug/Kg		1 08/24/2012 16:22	67825
Bromomethane	ND		5.4	ug/Kg		1 08/24/2012 16:22	67825
Chloroethane	ND		5.4	ug/Kg		1 08/24/2012 16:22	67825
Trichlorofluoromethane	ND		5.4	ug/Kg		1 08/24/2012 16:22	67825
1,1-Dichloroethene	ND		5.4	ug/Kg		1 08/24/2012 16:22	67825
Acetone	ND		5.4	ug/Kg		1 08/24/2012 16:22	67825
Carbon disulfide	ND		5.4	ug/Kg		1 08/24/2012 16:22	67825
Methylene chloride	4.0	BJ	5.4	ug/Kg		1 08/24/2012 16:22	67825
trans-1,2-Dichloroethene	ND		5.4	ug/Kg		1 08/24/2012 16:22	67825
Methyl tert-butyl ether	ND		5.4	ug/Kg		1 08/24/2012 16:22	67825
1,1-Dichloroethane	ND		5.4	ug/Kg		1 08/24/2012 16:22	67825
Vinyl acetate	ND		5.4	ug/Kg		1 08/24/2012 16:22	67825
2-Butanone	ND		5.4	ug/Kg		1 08/24/2012 16:22	67825
cis-1,2-Dichloroethene	ND		5.4	ug/Kg		1 08/24/2012 16:22	67825
Chloroform	ND		5.4	ug/Kg		1 08/24/2012 16:22	67825
1,1,1-Trichloroethane	ND		5.4	ug/Kg		1 08/24/2012 16:22	67825
Carbon tetrachloride	ND		5.4	ug/Kg		1 08/24/2012 16:22	67825
1,2-Dichloroethane	ND		5.4	ug/Kg		1 08/24/2012 16:22	67825
Benzene	ND		5.4	ug/Kg		1 08/24/2012 16:22	67825
Trichloroethene	ND		5.4	ug/Kg		1 08/24/2012 16:22	67825
1,2-Dichloropropane	ND		5.4	ug/Kg		1 08/24/2012 16:22	67825
Bromodichloromethane	ND		5.4	ug/Kg		1 08/24/2012 16:22	67825
cis-1,3-Dichloropropene	ND		5.4	ug/Kg		1 08/24/2012 16:22	67825
4-Methyl-2-pentanone	ND		5.4	ug/Kg		1 08/24/2012 16:22	67825
Toluene	2.3	J	5.4	ug/Kg		1 08/24/2012 16:22	67825
trans-1,3-Dichloropropene	ND		5.4	ug/Kg		1 08/24/2012 16:22	67825
1,1,2-Trichloroethane	ND		5.4	ug/Kg		1 08/24/2012 16:22	67825
Tetrachloroethene	ND		5.4	ug/Kg		1 08/24/2012 16:22	67825
2-Hexanone	ND		5.4	ug/Kg		1 08/24/2012 16:22	67825
Dibromochloromethane	ND		5.4	ug/Kg		1 08/24/2012 16:22	67825
Chlorobenzene	ND		5.4	ug/Kg		1 08/24/2012 16:22	67825
Ethylbenzene	ND		5.4	ug/Kg		1 08/24/2012 16:22	67825
m,p-Xylene	ND		5.4	ug/Kg		1 08/24/2012 16:22	67825
o-Xylene	ND		5.4	ug/Kg		1 08/24/2012 16:22	67825
Styrene	ND		5.4	ug/Kg		1 08/24/2012 16:22	67825
Bromoform	ND		5.4	ug/Kg		1 08/24/2012 16:22	67825
Isopropylbenzene	ND		5.4	ug/Kg		1 08/24/2012 16:22	67825
1,1,2,2-Tetrachloroethane	ND		5.4	ug/Kg		1 08/24/2012 16:22	67825

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

08/28/2012

Client: Stantec Consulting

Client Sample ID: BR-19 S

Lab ID: L1803-02

Project: Genesee Street

Collection Date: 08/21/12 10:30

Analyses	Result	Qual	RL Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS						
n-Propylbenzene	ND		5.4 ug/Kg		1 08/24/2012 16:22	67825
1,3,5-Trimethylbenzene	ND		5.4 ug/Kg		1 08/24/2012 16:22	67825
tert-Butylbenzene	ND		5.4 ug/Kg		1 08/24/2012 16:22	67825
1,2,4-Trimethylbenzene	ND		5.4 ug/Kg		1 08/24/2012 16:22	67825
sec-Butylbenzene	ND		5.4 ug/Kg		1 08/24/2012 16:22	67825
4-Isopropyltoluene	ND		5.4 ug/Kg		1 08/24/2012 16:22	67825
1,3-Dichlorobenzene	ND		5.4 ug/Kg		1 08/24/2012 16:22	67825
1,4-Dichlorobenzene	ND		5.4 ug/Kg		1 08/24/2012 16:22	67825
n-Butylbenzene	ND		5.4 ug/Kg		1 08/24/2012 16:22	67825
1,2-Dichlorobenzene	ND		5.4 ug/Kg		1 08/24/2012 16:22	67825
Naphthalene	ND		5.4 ug/Kg		1 08/24/2012 16:22	67825
2-Chloroethyl vinyl ether	ND		5.4 ug/Kg		1 08/24/2012 16:22	67825
Surrogate: Dibromofluoromethane	106		65-132 %REC		1 08/24/2012 16:22	67825
Surrogate: 1,2-Dichloroethane-d4	100		65-128 %REC		1 08/24/2012 16:22	67825
Surrogate: Toluene-d8	103		85-115 %REC		1 08/24/2012 16:22	67825
Surrogate: Bromofluorobenzene	101		77-111 %REC		1 08/24/2012 16:22	67825

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hamibal Tech

Date: 08/28/2012

CLIENT: Stantec Consulting
Work Order: L1803
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S
SW846 8260C -- VOC by GC-MS

Analyte	Result	MDL	TestCode: SW8260_LOW_S			%REC	SPK Ref Val	SPK value	Prep Date: 08/24/12 9:28	Analysis Date: 08/24/12 11:18	Run ID: V10_120824A	SeqNo: 1785614	Qual
			Units: ug/Kg	Units: ug/Kg	RL								
Chloromethane	ND	0.80	5.0	5.0									
Vinyl chloride	ND	0.63	5.0	5.0									
Bromomethane	ND	1.1	5.0	5.0									
Chloroethane	ND	1.0	5.0	5.0									
Trichlorofluoromethane	ND	0.42	5.0	5.0									
1,1-Dichloroethene	ND	0.95	5.0	5.0									
Acetone	ND	1.6	5.0	5.0									
Carbon disulfide	ND	0.30	5.0	5.0									
Methylene chloride	2.700	1.3	5.0	5.0									
trans-1,2-Dichloroethene	ND	0.53	5.0	5.0									
Methyl tert-butyl ether	ND	0.61	5.0	5.0									
1,1-Dichloroethane	ND	0.67	5.0	5.0									
Vinyl acetate	ND	0.37	5.0	5.0									
2-Butanone	ND	2.0	5.0	5.0									
cis-1,2-Dichloroethene	ND	0.75	5.0	5.0									
Chloroform	ND	0.64	5.0	5.0									
1,1,1-Trichloroethane	ND	0.53	5.0	5.0									
Carbon tetrachloride	ND	0.33	5.0	5.0									
1,2-Dichloroethane	ND	0.54	5.0	5.0									
Benzene	ND	0.61	5.0	5.0									
Trichloroethene	ND	0.62	5.0	5.0									
1,2-Dichloropropane	ND	0.69	5.0	5.0									
Bromodichloromethane	ND	0.97	5.0	5.0									
cis-1,3-Dichloropropene	ND	0.67	5.0	5.0									
4-Methyl-2-pentanone	ND	0.73	5.0	5.0									
Toluene	ND	0.47	5.0	5.0									
trans-1,3-Dichloropropene	ND	0.68	5.0	5.0									
1,1,2-Trichloroethane	ND	0.48	5.0	5.0									
Tetrachloroethene	ND	0.62	5.0	5.0									
2-Hexanone	ND	0.83	5.0	5.0									
Dibromochloromethane	ND	0.65	5.0	5.0									
Chlorobenzene	ND	0.51	5.0	5.0									
Ethylbenzene	ND	0.50	5.0	5.0									
m,p-Xylene	ND	1.6	5.0	5.0									
o-Xylene	ND	0.47	5.0	5.0									
Styrene	ND	0.52	5.0	5.0									

Qualifiers:

ND - Not Detected at the MDL

S - Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

mmi.12.11.A

J - Analyte detected below quantitation limits

MDL - Method Detection Limit

RL - Reporting Limit

CLIENT: Stantec Consulting
Work Order: L1803
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S
SW846 8260C -- VOC by GC-MS

Sample ID:	MB-67825	SampType: MBLK	Batch ID: 67825	TestCode: SW8260_LOW_S	Units: ug/Kg	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromoform	ND	2.0				5.0										
Isopropylbenzene	ND	0.58				5.0										
1,1,2,2-Tetrachloroethane	ND	0.68				5.0										
n-Propylbenzene	ND	0.44				5.0										
1,3,5-Trimethylbenzene	ND	0.61				5.0										
tert-Butylbenzene	ND	0.52				5.0										
1,2,4-Trimethylbenzene	ND	0.57				5.0										
sec-Butylbenzene	ND	0.62				5.0										
4-Isopropyltoluene	ND	0.71				5.0										
1,3-Dichlorobenzene	ND	0.70				5.0										
1,4-Dichlorobenzene	ND	0.80				5.0										
n-Butylbenzene	ND	0.67				5.0										
1,2-Dichlorobenzene	ND	0.62				5.0										
Naphthalene	ND	0.78				5.0										
2-Chloroethyl vinyl ether	ND	1.0				5.0										
Surrogate:	51.80					5.00			0	10.4	65	132	0			
Dibromofluoromethane	50.10					5.00			0	100	65	128	0			
Surrogate: 1,2-Dichloroethane-d4	51.42					5.0			50.00	0	103	85	115	0		
Surrogate: Toluene-d8	47.61					5.0			50.00	0	95.2	77	111	0		
Surrogate: Bromofluorobenzene																

Qualifiers: ND - Not Detected at the MDL
mm11.12.11.A J - Analyte detected below quantitation limits

S - Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

MDL - Method Detection Limit
RI - Reporting Limit

B - Analyte detected in the associated Method Blank

CLIENT: Stanton Consulting
Work Order: L1803
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S
SW846 8260C -- VOC by GC-MS

Sample ID:	LCS-67825	SampType: LCS	Batch ID: 67825	TestCode: SW8260_LOW_S	Units: ug/Kg	MDL	RL	SPK value	SPK Ref Val	%REC	%RPD	RPD Ref Val	%RPD Limit	Qual
Analyte														
Chloromethane	58.62	0.80	5.0	50.00	0	117	50	130	0					
Vinyl chloride	58.25	0.63	5.0	50.00	0	116	60	125	0					
Bromomethane	62.03	1.1	5.0	50.00	0	124	30	160	0					
Chloroethane	59.36	1.0	5.0	50.00	0	119	40	155	0					
Trichlorofluoromethane	56.21	0.42	5.0	50.00	0	112	25	185	0					
1,1-Dichloroethene	54.10	0.95	5.0	50.00	0	108	65	135	0					
Acetone	66.28	1.6	5.0	50.00	0	133	20	160	0					
Carbon disulfide	53.27	0.30	5.0	50.00	0	107	45	160	0					
Methylene chloride	50.48	1.3	5.0	50.00	0	101	55	140	0					
trans-1,2-Dichloroethene	53.44	0.53	5.0	50.00	0	107	65	135	0					
Methyl tert-butyl ether	59.08	0.61	5.0	50.00	0	118	75	126	0					
1,1-Dichloroethane	54.49	0.67	5.0	50.00	0	109	75	125	0					
Vinyl acetate	58.27	0.37	5.0	50.00	0	117	65	138	0					
2-Butanone	60.46	2.0	5.0	50.00	0	121	30	160	0					
cis-1,2-Dichloroethene	54.23	0.75	5.0	50.00	0	108	65	125	0					
Chloroform	54.61	0.64	5.0	50.00	0	109	70	125	0					
1,1,1-Trichloroethane	54.56	0.53	5.0	50.00	0	109	70	135	0					
Carbon tetrachloride	53.93	0.33	5.0	50.00	0	108	65	135	0					
1,2-Dichloroethane	56.43	0.54	5.0	50.00	0	113	70	135	0					
Benzene	54.58	0.61	5.0	50.00	0	109	75	125	0					
Trichloroethene	53.82	0.62	5.0	50.00	0	108	75	125	0					
1,2-Dichloropropane	55.41	0.69	5.0	50.00	0	111	70	120	0					
Bromodichloromethane	56.39	0.97	5.0	50.00	0	113	70	130	0					
cis-1,3-Dichloropropene	58.86	0.67	5.0	50.00	0	118	70	125	0					
4-Methyl-2-pentanone	59.65	0.73	5.0	50.00	0	119	45	145	0					
Toluene	53.60	0.47	5.0	50.00	0	107	70	125	0					
trans-1,3-Dichloropropene	59.03	0.68	5.0	50.00	0	118	65	125	0					
1,1,2-Trichloroethane	55.43	0.48	5.0	50.00	0	111	60	125	0					
Tetrachloroethene	50.61	0.62	5.0	50.00	0	101	65	140	0					
2-Hexanone	62.36	0.83	5.0	50.00	0	125	45	145	0					
Dibromochloromethane	55.41	0.65	5.0	50.00	0	111	65	130	0					
Chlorobenzene	52.10	0.51	5.0	50.00	0	104	75	125	0					
Ethylbenzene	54.51	0.50	5.0	50.00	0	109	75	125	0					
m,p-Xylene	108.5	1.6	5.0	100.0	0	108	80	125	0					
o-Xylene	56.80	0.47	5.0	50.00	0	114	75	125	0					
Styrene	56.30	0.52	5.0	50.00	0	113	75	125	0					
Bromoform	55.37	2.0	5.0	50.00	0	111	55	135	0					
Isopropylbenzene	57.01	0.58	5.0	50.00	0	114	75	130	0					

Qualifiers: ND - Not Detected at the MDL

J - Analyte detected below quantitation limits

S - Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

MDL - Method Detection Limit

RL - Reporting Limit

B - Analyte detected in the associated Method Blank

mmi.12.11.A

CLIENT: Stanton Consulting
Work Order: L1803
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT
SW8260_LOW_S
SW846 8260C -- VOC by GC-MS

Sample ID:	LCS-67825	SampType: LCS	Batch ID: 67825	TestCode: SW8260_LOW_S	Units: ug/Kg	MDL	RL	SPK value	SPK Ref Val	%REC	SPK LowLimit	SPK HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,2,2-Tetrachloroethane	54.54	0.68	5.0	50.00	0	109	55	130	0	0	110	65	135	0	0	0
n-Propylbenzene	54.90	0.44	5.0	50.00	0	112	65	135	0	0	115	65	135	0	0	0
1,3,5-Trimethylbenzene	56.04	0.61	5.0	50.00	0	112	65	135	0	0	115	65	135	0	0	0
tert-Butylbenzene	57.58	0.52	5.0	50.00	0	115	65	130	0	0	111	65	135	0	0	0
1,2,4-Trimethylbenzene	55.33	0.57	5.0	50.00	0	111	65	135	0	0	112	65	130	0	0	0
sec-Butylbenzene	56.13	0.62	5.0	50.00	0	112	65	130	0	0	113	75	135	0	0	0
4-Isopropyltoluene	56.54	0.71	5.0	50.00	0	113	75	135	0	0	106	70	125	0	0	0
1,3-Dichlorobenzene	53.24	0.70	5.0	50.00	0	105	70	125	0	0	114	65	140	0	0	0
1,4-Dichlorobenzene	52.54	0.80	5.0	50.00	0	107	75	120	0	0	113	40	125	0	0	0
n-Butylbenzene	56.86	0.67	5.0	50.00	0	110	70	130	0	0	103	65	132	0	0	0
1,2-Dichlorobenzene	53.43	0.62	5.0	50.00	0	107	75	120	0	0	103	65	132	0	0	0
Naphthalene	56.40	0.78	5.0	50.00	0	113	40	125	0	0	110	70	130	0	0	0
2-Chloroethyl vinyl ether	54.94	1.0	5.0	50.00	0	110	70	130	0	0	103	65	132	0	0	0
Surrogate:																
Dibromofluoromethane	51.58	5.0	50.00	0	103	65	128	0	0	0	101	77	111	0	0	0
Surrogate: 1,2-Dichloroethane-d4	49.17	5.0	50.00	0	98.3	85	115	0	0	0	101	77	111	0	0	0
Surrogate: Toluene-d8	50.74	5.0	50.00	0												
Surrogate: Bromofluorobenzene																

Qualifiers: ND - Not Detected at the MDL
J - Analyte detected below quantitation limits
mml.12.11.A

S - Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

MDL - Method Detection Limit
RL - Reporting Limit

B - Analyte detected in the associated Method Blank

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

08/29/2012

Client: Stantec Consulting

Client Sample ID: BR-19 FILL

Lab ID: L1803-01

Project: Genesee Street

Collection Date: 08/21/12 9:40

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS				
Naphthalene	ND	390 ug/Kg	108/28/2012 20:08	67831
Acenaphthene	ND	390 ug/Kg	108/28/2012 20:08	67831
Fluorene	ND	390 ug/Kg	108/28/2012 20:08	67831
Phenanthrene	120 J	390 ug/Kg	108/28/2012 20:08	67831
Anthracene	ND	390 ug/Kg	108/28/2012 20:08	67831
Fluoranthene	160 J	390 ug/Kg	108/28/2012 20:08	67831
Pyrene	230 J	390 ug/Kg	108/28/2012 20:08	67831
Benzo(a)anthracene	130 J	390 ug/Kg	108/28/2012 20:08	67831
Chrysene	250 J	390 ug/Kg	108/28/2012 20:08	67831
Benzo(b)fluoranthene	570	390 ug/Kg	108/28/2012 20:08	67831
Benzo(k)fluoranthene	190 J	390 ug/Kg	108/28/2012 20:08	67831
Benzo(a)pyrene	180 J	390 ug/Kg	108/28/2012 20:08	67831
Indeno(1,2,3-cd)pyrene	510	390 ug/Kg	108/28/2012 20:08	67831
Dibenz(a,h)anthracene	ND	390 ug/Kg	108/28/2012 20:08	67831
Benzo(g,h,i)perylene	700	390 ug/Kg	108/28/2012 20:08	67831
Surrogate: Nitrobenzene-d5	74.9	35-100 %REC	108/28/2012 20:08	67831
Surrogate: 2-Fluorobiphenyl	80.6	45-105 %REC	108/28/2012 20:08	67831
Surrogate: Terphenyl-d14	108	30-125 %REC	108/28/2012 20:08	67831

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Tech

Date: 08/29/2012

CLIENT: Stantec Consulting
Work Order: L1803
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT

SW8270_S
SW846 8270D -- SVOA by GC-MS

Analyte	Result	MDL	RL	TestCode: SW8270_S			Prep Date: 08/24/12 10:59	Analysis Date: 08/28/12 16:00	Run ID: S6_120828A	SeqNo: 1787118
				Units: ug/Kg	SPK value	SPK Ref Val	%REC	Low/Limit	High/Limit	
Naphthalene	ND	4.1	33.0							
Acenaphthene	ND	3.9	33.0							
Fluorene	ND	3.3	33.0							
Phenanthrene	ND	2.6	33.0							
Anthracene	ND	2.7	33.0							
Fluoranthene	ND	2.9	33.0							
Pyrene	ND	3.2	33.0							
Benz(a)anthracene	ND	3.3	33.0							
Chrysene	ND	2.9	33.0							
Benz(b)fluoranthene	ND	4.0	33.0							
Benz(k)fluoranthene	ND	4.3	33.0							
Benz(a)pyrene	ND	3.1	33.0							
Indeno(1,2,3-cd)pyrene	ND	3.7	33.0							
Dibenz(a,h)anthracene	ND	3.5	33.0							
Benzo(g,h,i)perylene	ND	3.8	33.0							
Surrogate: Nitrobenzene-d5	2.797			3333	0	83.9	35	100	0	
Surrogate: 2-Fluorobiphenyl	26.97			3333	0	80.9	45	105	0	
Surrogate: Terphenyl-d14	29.33			3333	0	88.0	30	125	0	

Qualifiers: ND - Not Detected at the MDL
J - Analyte detected below quantitation limits
mml1.12.11.A

S - Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

MDL - Method Detection Limit
RL - Reporting Limit

B - Analyte detected in the associated Method Blank

CLIENT: Stanton Consulting
Work Order: L1803
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT

SW8270_S

SW846 8270D -- SVOA by GC-MS

Analyte	Result	MDL	Units: ug/Kg	TestCode: SW8270_S			SPK Ref Val	%RPD Ref Val	RPD Limit	Qual
				Prep Date:	08/24/12 10:59	Analysis Date:				
Naphthalene	2773	4.1	33.0	3333	0	83.2	4.0	105	0	
Acenaphthene	2802	3.9	33.0	3333	0	84.1	4.5	110	0	
Fluorene	2994	3.3	33.0	3333	0	89.8	5.0	110	0	
Phenanthrene	2870	2.6	33.0	3333	0	86.1	5.0	110	0	
Anthracene	2918	2.7	33.0	3333	0	87.5	5.5	105	0	
Fluoranthene	3003	2.9	33.0	3333	0	90.1	5.5	115	0	
Pyrene	2678	3.2	33.0	3333	0	80.3	4.5	125	0	
Benz(a)anthracene	2843	3.3	33.0	3333	0	85.3	5.0	110	0	
Chrysene	2906	2.9	33.0	3333	0	87.2	5.5	110	0	
Benz(b)fluoranthene	2772	4.0	33.0	3333	0	83.2	4.5	115	0	
Benz(k)fluoranthene	2878	4.3	33.0	3333	0	86.4	4.5	125	0	
Benz(a)pyrene	2773	3.1	33.0	3333	0	83.2	5.0	110	0	
Indeno(1,2,3-cd)pyrene	2754	3.7	33.0	3333	0	82.6	4.0	120	0	
Dibenz(a,h)anthracene	2778	3.5	33.0	3333	0	83.3	4.0	125	0	
Benz(g,h,i)perylene	2712	3.8	33.0	3333	0	81.4	4.0	125	0	
Surrogate: Nitrobenzene-d5	2684		33.0	3333	0	80.5	3.5	100	0	
Surrogate: 2-Fluorobiphenyl	2603		33.0	3333	0	78.1	4.5	105	0	
Surrogate: Terphenyl-d14	2694		33.0	3333	0	80.8	3.0	125	0	

Qualifiers: ND - Not Detected at the MDL
J - Analyte detected below quantitation limits

S - Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

MDL - Method Detection Limit
RL - Reporting Limit

CLIENT: Stanton Consulting
Work Order: L1803
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT

SW8270_S
SW846 8270D -- SVOA by GC-MS

Sample ID: LCSD-67831	SampType: LCSD	TestCode: SW8270_S	Prep Date: 08/24/12 10:59	Run ID: S6_120828A								
Client ID: LCSD-67831	Batch ID: 67831	Units: ug/Kg	Analysis Date: 08/28/12 16:44	SeqNo: 1787120								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPD Limit	Qual
Naphthalene	2727	41	330	3333	0	81.8	40	105	2773	1.67	40	
Acenaphthene	2867	39	330	3333	0	86.0	45	110	2802	2.27	40	
Fluorene	2863	33	330	3333	0	85.9	50	110	2994	4.47	40	
Phenanthrene	3117	26	330	3333	0	93.5	50	110	2870	8.27	40	
Anthracene	3082	27	330	3333	0	92.5	55	105	2918	5.47	40	
Fluoranthene	2766	29	330	3333	0	83.0	55	115	3003	8.24	40	
Pyrene	3493	32	330	3333	0	105	45	125	2678	26.4	40	
Benz(a)anthracene	3122	33	330	3333	0	93.7	50	110	2843	9.33	40	
Chrysene	3009	29	330	3333	0	90.3	55	110	2906	3.48	40	
Benz(b)fluoranthene	3009	40	330	3333	0	90.3	45	115	2772	8.19	40	
Benz(k)fluoranthene	3128	43	330	3333	0	93.8	45	125	2878	8.31	40	
Benz(a)pyrene	2934	31	330	3333	0	88.0	50	110	2773	5.64	40	
Indeno(1,2,3-cd)pyrene	2692	37	330	3333	0	80.8	40	120	2754	2.28	40	
Dibenz(a,h)anthracene	2718	35	330	3333	0	81.5	40	125	2778	2.19	40	
Benz(g,h,i)perylene	2507	38	330	3333	0	75.2	40	125	2712	7.86	40	
Surrogate: Nitrobenzene-d5	2697	330	3333	0	80.9	35	100	0				
Surrogate: 2-Fluorobiphenyl	2704	330	3333	0	81.1	45	105	0				
Surrogate: Terphenyl-d14	3347	330	3333	0	100	30	125	0				

Qualifiers: ND - Not Detected at the MDL
J - Analyte detected below quantitation limits

S - Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

MDL - Method Detection Limit
RL - Reporting Limit

B - Analyte detected in the associated Method Blank

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

08/28/2012

Client: Stantec Consulting

Client Sample ID: BR-19 FILL

Lab ID: L1803-01

Project: Genesee Street

Collection Date: 08/21/12 9:40

Analyses	Result	Qual	RL Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP						
Arsenic	8.0		1.1 mg/Kg	1	08/28/2012 8:46	67843
Barium	53	B	11 mg/Kg	1	08/28/2012 8:46	67843
Cadmium	0.28		0.28 mg/Kg	1	08/28/2012 8:46	67843
Chromium	12	B	1.1 mg/Kg	1	08/28/2012 8:46	67843
Lead	140		0.55 mg/Kg	1	08/28/2012 8:46	67843
Selenium	ND		1.7 mg/Kg	1	08/28/2012 8:46	67843
Silver	ND		1.7 mg/Kg	1	08/28/2012 8:46	67843
SW846 7471B -- Mercury by FIA						
Mercury	0.28		0.043 mg/Kg	1	08/28/2012 14:51	67842

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

08/28/2012

Client: Stantec Consulting

Client Sample ID: BR-19 S

Lab ID: L1803-02

Project: Genesee Street

Collection Date: 08/21/12 10:30

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP				SW6010_S
Selenium	1.4	1.2 mg/Kg	1 08/28/2012 8:49	67843

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Tech

Date: 08/28/2012

CLIENT: Stanton Consulting
Work Order: L1803
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT

SW6010_S

SW846 6010C -- Metals by ICP

Sample ID: MB-67843	SampType: MBLK	TestCode: SW6010_S	Prep Date: 08/27/12 13:20	Run ID: OPTIMA3_120828A	
Client ID: MB-67843	Batch ID: 67843	Units: mg/Kg	Analysis Date: 08/28/12 8:21	SeqNo: 1786141	
Analyte	Result	MDL	SPK value	%REC	LowLimit HighLimit
Arsenic	ND	0.41	1.0		
Barium	0.04213	0.031	10		J
Cadmium	ND	0.015	0.25		
Chromium	0.02339	0.019	1.0		J
Lead	ND	0.17	0.50		
Selenium	ND	0.64	1.5		
Silver	ND	0.064	1.5		

Sample ID: LCS-67843	SampType: LCS	TestCode: SW6010_S	Prep Date: 08/27/12 13:20	Run ID: OPTIMA3_120828A	
Client ID: LCS-67843	Batch ID: 67843	Units: mg/Kg	Analysis Date: 08/28/12 8:24	SeqNo: 1786142	
Analyte	Result	MDL	SPK value	%REC	LowLimit HighLimit
Arsenic	23.45	0.41	1.0	22.75	0
Barium	467.4	0.031	10	455.0	0
Cadmium	11.41	0.015	0.25	11.35	0
Chromium	46.00	0.019	1.0	45.50	0
Lead	23.35	0.17	0.50	22.75	0
Selenium	21.98	0.64	1.5	22.75	0
Silver	55.71	0.064	1.5	56.50	0

Sample ID: L1803-02ADUP	SampType: DUP	TestCode: SW6010_S	Prep Date: 08/27/12 13:20	Run ID: OPTIMA3_120828A	
Client ID: BR-19 S	Batch ID: 67843	Units: mg/Kg	Analysis Date: 08/28/12 8:53	SeqNo: 1786155	
Analyte	Result	MDL	SPK value	%REC	LowLimit HighLimit
Selenium	1.449	0.50	1.2	0	0 0

Sample ID: L1803-02AMS	SampType: MS	TestCode: SW6010_S	Prep Date: 08/27/12 13:20	Run ID: OPTIMA3_120828A	
Client ID: BR-19 S	Batch ID: 67843	Units: mg/Kg	Analysis Date: 08/28/12 8:56	SeqNo: 1786156	
Analyte	Result	MDL	SPK value	%REC	LowLimit HighLimit
Selenium	19.57	0.50	1.2	17.80	1.393 102

Qualifiers:	ND - Not Detected at the MDL	S - Recovery outside accepted recovery limits	MDL - Method Detection Limit
mml 1.12.11.A	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	RL - Reporting Limit
			B - Analyte detected in the associated Method Blank

CLIENT: Stantec Consulting
Work Order: L1803
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT
SW6010_S
SW846 6010C -- Metals by ICP

Sample ID: L1803-02ASD	SampType: SD	TestCode: SW6010_S	Prep Date: 08/27/12 13:20	Run ID: OPTIMA3_120828A
Client ID: BR-19 S	Batch ID: 67843	Units: mg/Kg	Analysis Date: 08/28/12 9:00	SeqNo: 1786158
Analyte	Result	MDL	RL	SPK value
Selenium	2.553	2.5	5.9	0

Qualifiers:	ND - Not Detected at the MDL	S - Recovery outside accepted recovery limits	MDL - Method Detection Limit
mml 1.12.11.A	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits	RL - Reporting Limit

B - Analyte detected in the associated Method Blank

CLIENT: Stantec Consulting
Work Order: L1803
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT
SW7471
SW846 7471B -- Mercury by FIA

Sample ID:	MB-67842	SampType:	MBLK	TestCode:	SW7471	Prep Date:	08/27/12 15:50	Run ID:	FIMS2_120328B			
Client ID:	MB-67842	Batch ID:	67842	Units:	mg/Kg	Analysis Date:	08/28/12 14:33	SeqNo:	1786826			
Analyte	Mercury	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit	Qual
		ND	0.0021	0.033								
Sample ID:	LCS-67842	SampType:	LCS	TestCode:	SW7471	Prep Date:	08/27/12 15:50	Run ID:	FIMS2_120328B			
Client ID:	LCS-67842	Batch ID:	67842	Units:	mg/Kg	Analysis Date:	08/28/12 14:35	SeqNo:	1786827			
Analyte	Mercury	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit	Qual
		0.7452	0.0021	0.033	0.7580	0	98.3	80	120	0		
Sample ID:	L1803-01ADUP	SampType:	DUP	TestCode:	SW7471	Prep Date:	08/27/12 15:50	Run ID:	FIMS2_120328B			
Client ID:	BR-19 FILL	Batch ID:	67842	Units:	mg/Kg	Analysis Date:	08/28/12 14:53	SeqNo:	1786838			
Analyte	Mercury	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit	Qual
		0.09892	0.0028	0.043	0	0	0	0	0	0	0.2843	
Sample ID:	L1803-01AMS	SampType:	MS	TestCode:	SW7471	Prep Date:	08/27/12 15:50	Run ID:	FIMS2_120328B			
Client ID:	BR-19 FILL	Batch ID:	67842	Units:	mg/Kg	Analysis Date:	08/28/12 14:55	SeqNo:	1786839			
Analyte	Mercury	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit	Qual
		1.065	0.0028	0.043	0.9965	0.2843	78.3	80	120	0	0	S

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RLD - Reporting Limit

mm1.12.11.A J - Analyte detected in the associated Method Blank RL - Reporting Limit

B - Analyte detected in the associated Method Blank

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

WorkOrder: L1803

Client ID: STANTEC

Project: Genesee Street

WO Name: Genesee Street

Location: GENESEE,

Comments: N/A

Case:

SDG:

PO: 190500695

HC Due: 08/29/12

Fax Due: 08/29/12

Fax Report:

Report Level: LEVEL_2

Special Program:

EDD: EQUIIS_4

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL Storage
L1803-01A	BR-19 FILL	08/21/2012 09:40	08/23/2012	Soil	PMoist	/				A1
L1803-01A	BR-19 FILL	08/21/2012 09:40	08/23/2012	Soil	SW6010_S	/ RCRA8				A1
L1803-01A	BR-19 FILL	08/21/2012 09:40	08/23/2012	Soil	SW7471	/ RCRA8				A1
L1803-01A	BR-19 FILL	08/21/2012 09:40	08/23/2012	Soil	SW8270_S	/ PAH_STAR,				A1
L1803-02A	BR-19 S	08/21/2012 10:30	08/23/2012	Soil	PMoist	/				A1
L1803-02A	BR-19 S	08/21/2012 10:30	08/23/2012	Soil	SW6010_S	/ Se only				A1
L1803-02B	BR-19 S	08/21/2012 10:30	08/23/2012	Soil	SW8260_LOW_S	/ TCL/STARS				VOA
L1803-02B	BR-19 S	08/21/2012 10:30	08/23/2012	Soil	SW8260_MED_S	/ TCL/STARS				VOA

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

Received By: <i>Vernon Brinkard</i>	Page 01 of 00						
Reviewed By: <i>ATL</i>	Log-in Date 08/23/2012						
Work Order: L1803	Client Name: Stantec Consulting						
Project Name/Event: Genesee Street							
Remarks: (1/2) Please see associated sample/extract transfer logbook pages submitted with this data package.							
<p>1. Custody Seal(s)</p> <p>2. Custody Seal Nos.</p> <p>3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists</p> <p>4. Airbill</p> <p>5. Airbill No.</p> <p>6. Sample Tags</p> <p>7. Sample Condition</p> <p>8. Cooler Temperature Indicator Bottle</p> <p>9. Cooler Temperature</p> <p>10. Does information on TR/COCs and sample tags agree?</p> <p>11. Date Received at Laboratory</p> <p>12. Time Received</p>	Preservation (pH)		<p>VOA Matrix</p> <p>Soil HeadSpace or Air Bubble > or equal to 1/4"</p>				
	Lab Sample ID	HNO ₃		H ₂ SO ₄	HCl	NaOH	H ₃ PO ₄
	L1803-01						
	Present / Absent						
	Intact / Broken						
	L1803-02						
	N/A						
	Present / Absent						
	AirBill / Sticker						
	Courier N/A						
Present / Absent							
Listed /							
Not Listed on Chain-of-Custody							
Intact / Broken /							
Leaking							
Present / Absent							
2 °C							
Yes / No							
08/23/2012							
11:15							
Sample Transfer							
Fraction (1) TVOA/VOA	Fraction (2) SVOA/PEST/ARO						
Area #	Area #						
By	By						
On	On						
IR Temp Gun ID:MT-1		<p>VOA Matrix Key:</p> <p>US = Unpreserved Soil A= Air</p> <p>UA = Unpreserved Aqueous H = HCl</p> <p>M = MeOH E = Encore</p> <p>N = NaHSO₄ F = Freeze</p>					
Coolant Condition: ICE							
Preservative Name/Lot No:							
See Sample Condition Notification/Corrective Action Form Yes / No							
Rad OK Yes / No							

WO: H1803 / CIP:093.217 / SWIR:004.519

Sample Condition Form 27

Last Page of Data Report

Report Date:
07-Sep-12 16:23

- Final Report
 Re-Issued Report
 Revised Report



Laboratory Report

Stantec Consulting
61 Commercial Street
Rochester, NY 14614

Work Order: L1826
Project: Genesee Street
Project #:

Attn: Mike Storonsky

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
L1826-01	MW-19D-W	Aqueous	27-Aug-12 11:10	29-Aug-12 10:54
L1826-02	MW-12-W	Aqueous	27-Aug-12 12:55	29-Aug-12 10:54
L1826-03	MW-13-W	Aqueous	27-Aug-12 16:15	29-Aug-12 10:54
L1826-04	MW-6-W	Aqueous	27-Aug-12 14:50	29-Aug-12 10:54
L1826-05	TB-082712	Aqueous	27-Aug-12 00:00	29-Aug-12 10:54

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirements have been met.

Spectrum Analytical (Rhode Island) is accredited under the National Environmental Laboratory Approval Program (NELAP) and DoD Environmental Laboratory Accreditation Program (ELAP), holds Organic and Inorganic contracts under the USEPA CLP Program and is certified under several states. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.spectrum-analytical.com.

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Florida	E87664
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
North Carolina	581
Pennsylvania	68-00520
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033



Authorized by:

Yihai Ding
Laboratory Director

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : Stantec Consulting

Project: Genesee Street

Laboratory Workorder / SDG #: L1826

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8260C

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW5030

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V6
Instrument Type: GCMS-VOA
Description: HP6890 / HP5973
Manufacturer: Hewlett-Packard
Model: 6890 / 5973

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

Method blank met the method/SOP acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

LCS met the method/SOP acceptance criteria.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

A handwritten signature in black ink, appearing to read "T. W. P." or a similar variation.

Signed: _____

Date: _____ 9/4/2012 _____

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : Stantec Consulting

Project: Genesee Street

Laboratory Workorder / SDG #: L1826

SW846 8015D TPH, Total Petroleum Hydrocarbons (TPH) by GC-FID

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8015D TPH

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3510

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: F1
Instrument Type: GC-FID
Description: HP6890
Manufacturer: Hewlett-Packard
Model: 6890

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Dilutions:

No sample in this SDG required analysis at dilution.

F. Samples:

Spectrum RI's analysis method is designed to separate and identify common hydrocarbon fuels and other petroleum-related products. Samples are analyzed using capillary gas chromatography with flame ionization detection. Results are compared to a library of standards of known petroleum products obtained from commercial analytical standard

sources. The following petroleum products are included in the library of standards: Fuel oils #1, #2/diesel, #3, #4, #5, #6, kerosene, mineral spirits, turpentine, paint thinner, jet fuels JP-4, JP-5, gasoline, aviation gasoline, lubricating oil, motor oil, hydraulic oil, transmission oil, coal tar, creosote.

Sample resembles Mineral Spirits.

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.



Signed: _____

Date: _____ 9/4/2012 _____

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : Stantec Consulting

Project: Genesee Street

Laboratory Workorder / SDG #: L1826

SW846 6010C

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 6010C

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3005

V. INSTRUMENTATION

The following instrumentation was used to perform

Instrument Code: OPTIMA2
Instrument Type: ICP
Description: Optima 3100 XL
Manufacturer: Perkin-Elmer
Model: 3100 XL

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recovery for laboratory control samples was within the QC limits.

2. Matrix spike (MS):

A matrix spike was not performed on any sample in this SDG.

D. Post Digestion Spike (PDS):

A post-digestion spike was not performed on any sample in this SDG.

E. Duplicate sample:

A duplicate analysis was not performed on any sample in this SDG.

F. Serial Dilution (SD):

A serial dilution was not performed on any sample in this SDG.

G. Samples:

The Nitrate, Nitrite, Sulfate and Nitrate-Nitrite analyses were

performed by Certified Environmental Services, Inc. of Syracuse, NY.
The CES report has been submitted following the Metals data of the
Spectrum RI report.

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum RI, both technically and for completeness, except for the conditions noted above.
Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: 

Date: 09/07/12

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

09/04/2012

Client: Stantec Consulting

Client Sample ID: MW-19D-W

Lab ID: L1826-01

Project: Genesee Street

Collection Date: 08/27/12 11:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							SW8260_W
Chloromethane	ND		5.0	ug/L		1 08/30/2012 15:00	67915
Vinyl chloride	ND		5.0	ug/L		1 08/30/2012 15:00	67915
Bromomethane	ND		5.0	ug/L		1 08/30/2012 15:00	67915
Chloroethane	ND		5.0	ug/L		1 08/30/2012 15:00	67915
Trichlorofluoromethane	ND		5.0	ug/L		1 08/30/2012 15:00	67915
1,1-Dichloroethene	ND		5.0	ug/L		1 08/30/2012 15:00	67915
Acetone	ND		5.0	ug/L		1 08/30/2012 15:00	67915
Carbon disulfide	ND		5.0	ug/L		1 08/30/2012 15:00	67915
Methylene chloride	ND		5.0	ug/L		1 08/30/2012 15:00	67915
trans-1,2-Dichloroethene	ND		5.0	ug/L		1 08/30/2012 15:00	67915
Methyl tert-butyl ether	ND		5.0	ug/L		1 08/30/2012 15:00	67915
1,1-Dichloroethane	ND		5.0	ug/L		1 08/30/2012 15:00	67915
Vinyl acetate	ND		5.0	ug/L		1 08/30/2012 15:00	67915
2-Butanone	ND		5.0	ug/L		1 08/30/2012 15:00	67915
cis-1,2-Dichloroethene	ND		5.0	ug/L		1 08/30/2012 15:00	67915
Chloroform	ND		5.0	ug/L		1 08/30/2012 15:00	67915
1,1,1-Trichloroethane	ND		5.0	ug/L		1 08/30/2012 15:00	67915
Carbon tetrachloride	ND		5.0	ug/L		1 08/30/2012 15:00	67915
1,2-Dichloroethane	ND		5.0	ug/L		1 08/30/2012 15:00	67915
Benzene	ND		5.0	ug/L		1 08/30/2012 15:00	67915
Trichloroethene	ND		5.0	ug/L		1 08/30/2012 15:00	67915
1,2-Dichloropropane	ND		5.0	ug/L		1 08/30/2012 15:00	67915
Bromodichloromethane	ND		5.0	ug/L		1 08/30/2012 15:00	67915
cis-1,3-Dichloropropene	ND		5.0	ug/L		1 08/30/2012 15:00	67915
4-Methyl-2-pentanone	ND		5.0	ug/L		1 08/30/2012 15:00	67915
Toluene	0.56	J	5.0	ug/L		1 08/30/2012 15:00	67915
trans-1,3-Dichloropropene	ND		5.0	ug/L		1 08/30/2012 15:00	67915
1,1,2-Trichloroethane	ND		5.0	ug/L		1 08/30/2012 15:00	67915
Tetrachloroethene	ND		5.0	ug/L		1 08/30/2012 15:00	67915
2-Hexanone	ND		5.0	ug/L		1 08/30/2012 15:00	67915
Dibromochloromethane	ND		5.0	ug/L		1 08/30/2012 15:00	67915
Chlorobenzene	ND		5.0	ug/L		1 08/30/2012 15:00	67915
Ethylbenzene	ND		5.0	ug/L		1 08/30/2012 15:00	67915
m,p-Xylene	ND		5.0	ug/L		1 08/30/2012 15:00	67915
o-Xylene	ND		5.0	ug/L		1 08/30/2012 15:00	67915
Styrene	ND		5.0	ug/L		1 08/30/2012 15:00	67915
Bromoform	ND		5.0	ug/L		1 08/30/2012 15:00	67915
Isopropylbenzene	ND		5.0	ug/L		1 08/30/2012 15:00	67915
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L		1 08/30/2012 15:00	67915

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

09/04/2012

Client: Stantec Consulting

Client Sample ID: MW-19D-W

Lab ID: L1826-01

Project: Genesee Street

Collection Date: 08/27/12 11:10

Analyses	Result	Qual	RL Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS						SW8260_W
n-Propylbenzene	ND		5.0 ug/L		108/30/2012 15:00	67915
1,3,5-Trimethylbenzene	ND		5.0 ug/L		108/30/2012 15:00	67915
tert-Butylbenzene	ND		5.0 ug/L		108/30/2012 15:00	67915
1,2,4-Trimethylbenzene	0.69 J		5.0 ug/L		108/30/2012 15:00	67915
sec-Butylbenzene	ND		5.0 ug/L		108/30/2012 15:00	67915
4-Isopropyltoluene	ND		5.0 ug/L		108/30/2012 15:00	67915
1,3-Dichlorobenzene	ND		5.0 ug/L		108/30/2012 15:00	67915
1,4-Dichlorobenzene	ND		5.0 ug/L		108/30/2012 15:00	67915
n-Butylbenzene	ND		5.0 ug/L		108/30/2012 15:00	67915
1,2-Dichlorobenzene	ND		5.0 ug/L		108/30/2012 15:00	67915
Naphthalene	ND		5.0 ug/L		108/30/2012 15:00	67915
2-Chloroethyl vinyl ether	ND		5.0 ug/L		108/30/2012 15:00	67915
Surrogate: Dibromofluoromethane	102		85-115 %REC		108/30/2012 15:00	67915
Surrogate: 1,2-Dichloroethane-d4	96.3		70-120 %REC		108/30/2012 15:00	67915
Surrogate: Toluene-d8	97.6		85-120 %REC		108/30/2012 15:00	67915
Surrogate: Bromofluorobenzene	94.8		75-120 %REC		108/30/2012 15:00	67915

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

09/04/2012

Client: Stantec Consulting

Client Sample ID: MW-12-W

Lab ID: L1826-02

Project: Genesee Street

Collection Date: 08/27/12 12:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							SW8260_W
Chloromethane	ND		5.0	ug/L		1 08/30/2012 15:23	67915
Vinyl chloride	ND		5.0	ug/L		1 08/30/2012 15:23	67915
Bromomethane	ND		5.0	ug/L		1 08/30/2012 15:23	67915
Chloroethane	ND		5.0	ug/L		1 08/30/2012 15:23	67915
Trichlorofluoromethane	ND		5.0	ug/L		1 08/30/2012 15:23	67915
1,1-Dichloroethene	ND		5.0	ug/L		1 08/30/2012 15:23	67915
Acetone	ND		5.0	ug/L		1 08/30/2012 15:23	67915
Carbon disulfide	ND		5.0	ug/L		1 08/30/2012 15:23	67915
Methylene chloride	ND		5.0	ug/L		1 08/30/2012 15:23	67915
trans-1,2-Dichloroethene	ND		5.0	ug/L		1 08/30/2012 15:23	67915
Methyl tert-butyl ether	ND		5.0	ug/L		1 08/30/2012 15:23	67915
1,1-Dichloroethane	ND		5.0	ug/L		1 08/30/2012 15:23	67915
Vinyl acetate	ND		5.0	ug/L		1 08/30/2012 15:23	67915
2-Butanone	ND		5.0	ug/L		1 08/30/2012 15:23	67915
cis-1,2-Dichloroethene	ND		5.0	ug/L		1 08/30/2012 15:23	67915
Chloroform	ND		5.0	ug/L		1 08/30/2012 15:23	67915
1,1,1-Trichloroethane	ND		5.0	ug/L		1 08/30/2012 15:23	67915
Carbon tetrachloride	ND		5.0	ug/L		1 08/30/2012 15:23	67915
1,2-Dichloroethane	ND		5.0	ug/L		1 08/30/2012 15:23	67915
Benzene	ND		5.0	ug/L		1 08/30/2012 15:23	67915
Trichloroethene	ND		5.0	ug/L		1 08/30/2012 15:23	67915
1,2-Dichloropropane	ND		5.0	ug/L		1 08/30/2012 15:23	67915
Bromodichloromethane	ND		5.0	ug/L		1 08/30/2012 15:23	67915
cis-1,3-Dichloropropene	ND		5.0	ug/L		1 08/30/2012 15:23	67915
4-Methyl-2-pentanone	ND		5.0	ug/L		1 08/30/2012 15:23	67915
Toluene	ND		5.0	ug/L		1 08/30/2012 15:23	67915
trans-1,3-Dichloropropene	ND		5.0	ug/L		1 08/30/2012 15:23	67915
1,1,2-Trichloroethane	ND		5.0	ug/L		1 08/30/2012 15:23	67915
Tetrachloroethene	ND		5.0	ug/L		1 08/30/2012 15:23	67915
2-Hexanone	ND		5.0	ug/L		1 08/30/2012 15:23	67915
Dibromochloromethane	ND		5.0	ug/L		1 08/30/2012 15:23	67915
Chlorobenzene	ND		5.0	ug/L		1 08/30/2012 15:23	67915
Ethylbenzene	ND		5.0	ug/L		1 08/30/2012 15:23	67915
m,p-Xylene	ND		5.0	ug/L		1 08/30/2012 15:23	67915
o-Xylene	ND		5.0	ug/L		1 08/30/2012 15:23	67915
Styrene	ND		5.0	ug/L		1 08/30/2012 15:23	67915
Bromoform	ND		5.0	ug/L		1 08/30/2012 15:23	67915
Isopropylbenzene	ND		5.0	ug/L		1 08/30/2012 15:23	67915
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L		1 08/30/2012 15:23	67915

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

09/04/2012

Client: Stantec Consulting

Client Sample ID: MW-12-W

Lab ID: L1826-02

Project: Genesee Street

Collection Date: 08/27/12 12:55

Analyses	Result	Qual	RL Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS						SW8260_W
n-Propylbenzene	ND		5.0 ug/L		108/30/2012 15:23	67915
1,3,5-Trimethylbenzene	ND		5.0 ug/L		108/30/2012 15:23	67915
tert-Butylbenzene	ND		5.0 ug/L		108/30/2012 15:23	67915
1,2,4-Trimethylbenzene	ND		5.0 ug/L		108/30/2012 15:23	67915
sec-Butylbenzene	ND		5.0 ug/L		108/30/2012 15:23	67915
4-Isopropyltoluene	ND		5.0 ug/L		108/30/2012 15:23	67915
1,3-Dichlorobenzene	ND		5.0 ug/L		108/30/2012 15:23	67915
1,4-Dichlorobenzene	ND		5.0 ug/L		108/30/2012 15:23	67915
n-Butylbenzene	ND		5.0 ug/L		108/30/2012 15:23	67915
1,2-Dichlorobenzene	ND		5.0 ug/L		108/30/2012 15:23	67915
Naphthalene	ND		5.0 ug/L		108/30/2012 15:23	67915
2-Chloroethyl vinyl ether	ND		5.0 ug/L		108/30/2012 15:23	67915
Surrogate: Dibromofluoromethane	103		85-115 %REC		108/30/2012 15:23	67915
Surrogate: 1,2-Dichloroethane-d4	98.3		70-120 %REC		108/30/2012 15:23	67915
Surrogate: Toluene-d8	97.8		85-120 %REC		108/30/2012 15:23	67915
Surrogate: Bromofluorobenzene	94.3		75-120 %REC		108/30/2012 15:23	67915

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

09/04/2012

Client: Stantec Consulting

Client Sample ID: MW-13-W

Lab ID: L1826-03

Project: Genesee Street

Collection Date: 08/27/12 16:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							
Chloromethane	ND		5.0	ug/L		1 08/30/2012 15:47	67915
Vinyl chloride	ND		5.0	ug/L		1 08/30/2012 15:47	67915
Bromomethane	ND		5.0	ug/L		1 08/30/2012 15:47	67915
Chloroethane	ND		5.0	ug/L		1 08/30/2012 15:47	67915
Trichlorofluoromethane	ND		5.0	ug/L		1 08/30/2012 15:47	67915
1,1-Dichloroethene	ND		5.0	ug/L		1 08/30/2012 15:47	67915
Acetone	ND		5.0	ug/L		1 08/30/2012 15:47	67915
Carbon disulfide	ND		5.0	ug/L		1 08/30/2012 15:47	67915
Methylene chloride	ND		5.0	ug/L		1 08/30/2012 15:47	67915
trans-1,2-Dichloroethene	ND		5.0	ug/L		1 08/30/2012 15:47	67915
Methyl tert-butyl ether	ND		5.0	ug/L		1 08/30/2012 15:47	67915
1,1-Dichloroethane	ND		5.0	ug/L		1 08/30/2012 15:47	67915
Vinyl acetate	ND		5.0	ug/L		1 08/30/2012 15:47	67915
2-Butanone	ND		5.0	ug/L		1 08/30/2012 15:47	67915
cis-1,2-Dichloroethene	ND		5.0	ug/L		1 08/30/2012 15:47	67915
Chloroform	ND		5.0	ug/L		1 08/30/2012 15:47	67915
1,1,1-Trichloroethane	ND		5.0	ug/L		1 08/30/2012 15:47	67915
Carbon tetrachloride	ND		5.0	ug/L		1 08/30/2012 15:47	67915
1,2-Dichloroethane	ND		5.0	ug/L		1 08/30/2012 15:47	67915
Benzene	ND		5.0	ug/L		1 08/30/2012 15:47	67915
Trichloroethene	ND		5.0	ug/L		1 08/30/2012 15:47	67915
1,2-Dichloropropane	ND		5.0	ug/L		1 08/30/2012 15:47	67915
Bromodichloromethane	ND		5.0	ug/L		1 08/30/2012 15:47	67915
cis-1,3-Dichloropropene	ND		5.0	ug/L		1 08/30/2012 15:47	67915
4-Methyl-2-pentanone	ND		5.0	ug/L		1 08/30/2012 15:47	67915
Toluene	ND		5.0	ug/L		1 08/30/2012 15:47	67915
trans-1,3-Dichloropropene	ND		5.0	ug/L		1 08/30/2012 15:47	67915
1,1,2-Trichloroethane	ND		5.0	ug/L		1 08/30/2012 15:47	67915
Tetrachloroethene	ND		5.0	ug/L		1 08/30/2012 15:47	67915
2-Hexanone	ND		5.0	ug/L		1 08/30/2012 15:47	67915
Dibromochloromethane	ND		5.0	ug/L		1 08/30/2012 15:47	67915
Chlorobenzene	ND		5.0	ug/L		1 08/30/2012 15:47	67915
Ethylbenzene	ND		5.0	ug/L		1 08/30/2012 15:47	67915
m,p-Xylene	ND		5.0	ug/L		1 08/30/2012 15:47	67915
o-Xylene	ND		5.0	ug/L		1 08/30/2012 15:47	67915
Styrene	ND		5.0	ug/L		1 08/30/2012 15:47	67915
Bromoform	ND		5.0	ug/L		1 08/30/2012 15:47	67915
Isopropylbenzene	ND		5.0	ug/L		1 08/30/2012 15:47	67915
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L		1 08/30/2012 15:47	67915

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

09/04/2012

Client: Stantec Consulting

Client Sample ID: MW-13-W

Lab ID: L1826-03

Project: Genesee Street

Collection Date: 08/27/12 16:15

Analyses	Result	Qual	RL Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS						SW8260_W
n-Propylbenzene	ND		5.0 ug/L		108/30/2012 15:47	67915
1,3,5-Trimethylbenzene	ND		5.0 ug/L		108/30/2012 15:47	67915
tert-Butylbenzene	ND		5.0 ug/L		108/30/2012 15:47	67915
1,2,4-Trimethylbenzene	ND		5.0 ug/L		108/30/2012 15:47	67915
sec-Butylbenzene	ND		5.0 ug/L		108/30/2012 15:47	67915
4-Isopropyltoluene	ND		5.0 ug/L		108/30/2012 15:47	67915
1,3-Dichlorobenzene	ND		5.0 ug/L		108/30/2012 15:47	67915
1,4-Dichlorobenzene	ND		5.0 ug/L		108/30/2012 15:47	67915
n-Butylbenzene	ND		5.0 ug/L		108/30/2012 15:47	67915
1,2-Dichlorobenzene	ND		5.0 ug/L		108/30/2012 15:47	67915
Naphthalene	ND		5.0 ug/L		108/30/2012 15:47	67915
2-Chloroethyl vinyl ether	ND		5.0 ug/L		108/30/2012 15:47	67915
Surrogate: Dibromofluoromethane	102		85-115 %REC		108/30/2012 15:47	67915
Surrogate: 1,2-Dichloroethane-d4	94.0		70-120 %REC		108/30/2012 15:47	67915
Surrogate: Toluene-d8	98.5		85-120 %REC		108/30/2012 15:47	67915
Surrogate: Bromofluorobenzene	93.9		75-120 %REC		108/30/2012 15:47	67915

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

09/04/2012

Client: Stantec Consulting

Client Sample ID: MW-6-W

Lab ID: L1826-04

Project: Genesee Street

Collection Date: 08/27/12 14:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							SW8260_W
Chloromethane	ND		5.0	ug/L		108/30/2012 16:10	67915
Vinyl chloride	ND		5.0	ug/L		108/30/2012 16:10	67915
Bromomethane	ND		5.0	ug/L		108/30/2012 16:10	67915
Chloroethane	ND		5.0	ug/L		108/30/2012 16:10	67915
Trichlorofluoromethane	ND		5.0	ug/L		108/30/2012 16:10	67915
1,1-Dichloroethene	ND		5.0	ug/L		108/30/2012 16:10	67915
Acetone	ND		5.0	ug/L		108/30/2012 16:10	67915
Carbon disulfide	ND		5.0	ug/L		108/30/2012 16:10	67915
Methylene chloride	ND		5.0	ug/L		108/30/2012 16:10	67915
trans-1,2-Dichloroethene	ND		5.0	ug/L		108/30/2012 16:10	67915
Methyl tert-butyl ether	ND		5.0	ug/L		108/30/2012 16:10	67915
1,1-Dichloroethane	ND		5.0	ug/L		108/30/2012 16:10	67915
Vinyl acetate	ND		5.0	ug/L		108/30/2012 16:10	67915
2-Butanone	ND		5.0	ug/L		108/30/2012 16:10	67915
cis-1,2-Dichloroethene	ND		5.0	ug/L		108/30/2012 16:10	67915
Chloroform	ND		5.0	ug/L		108/30/2012 16:10	67915
1,1,1-Trichloroethane	ND		5.0	ug/L		108/30/2012 16:10	67915
Carbon tetrachloride	ND		5.0	ug/L		108/30/2012 16:10	67915
1,2-Dichloroethane	ND		5.0	ug/L		108/30/2012 16:10	67915
Benzene	ND		5.0	ug/L		108/30/2012 16:10	67915
Trichloroethene	ND		5.0	ug/L		108/30/2012 16:10	67915
1,2-Dichloropropane	ND		5.0	ug/L		108/30/2012 16:10	67915
Bromodichloromethane	ND		5.0	ug/L		108/30/2012 16:10	67915
cis-1,3-Dichloropropene	ND		5.0	ug/L		108/30/2012 16:10	67915
4-Methyl-2-pentanone	ND		5.0	ug/L		108/30/2012 16:10	67915
Toluene	ND		5.0	ug/L		108/30/2012 16:10	67915
trans-1,3-Dichloropropene	ND		5.0	ug/L		108/30/2012 16:10	67915
1,1,2-Trichloroethane	ND		5.0	ug/L		108/30/2012 16:10	67915
Tetrachloroethene	ND		5.0	ug/L		108/30/2012 16:10	67915
2-Hexanone	ND		5.0	ug/L		108/30/2012 16:10	67915
Dibromochloromethane	ND		5.0	ug/L		108/30/2012 16:10	67915
Chlorobenzene	ND		5.0	ug/L		108/30/2012 16:10	67915
Ethylbenzene	ND		5.0	ug/L		108/30/2012 16:10	67915
m,p-Xylene	ND		5.0	ug/L		108/30/2012 16:10	67915
o-Xylene	ND		5.0	ug/L		108/30/2012 16:10	67915
Styrene	ND		5.0	ug/L		108/30/2012 16:10	67915
Bromoform	ND		5.0	ug/L		108/30/2012 16:10	67915
Isopropylbenzene	2.0	J	5.0	ug/L		108/30/2012 16:10	67915
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L		108/30/2012 16:10	67915

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

09/04/2012

Client: Stantec Consulting

Client Sample ID: MW-6-W

Lab ID: L1826-04

Project: Genesee Street

Collection Date: 08/27/12 14:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							
n-Propylbenzene	1.8	J	5.0	ug/L		108/30/2012 16:10	67915
1,3,5-Trimethylbenzene	ND		5.0	ug/L		108/30/2012 16:10	67915
tert-Butylbenzene	ND		5.0	ug/L		108/30/2012 16:10	67915
1,2,4-Trimethylbenzene	ND		5.0	ug/L		108/30/2012 16:10	67915
sec-Butylbenzene	12		5.0	ug/L		108/30/2012 16:10	67915
4-Isopropyltoluene	ND		5.0	ug/L		108/30/2012 16:10	67915
1,3-Dichlorobenzene	ND		5.0	ug/L		108/30/2012 16:10	67915
1,4-Dichlorobenzene	ND		5.0	ug/L		108/30/2012 16:10	67915
n-Butylbenzene	0.62	J	5.0	ug/L		108/30/2012 16:10	67915
1,2-Dichlorobenzene	ND		5.0	ug/L		108/30/2012 16:10	67915
Naphthalene	ND		5.0	ug/L		108/30/2012 16:10	67915
2-Chloroethyl vinyl ether	ND		5.0	ug/L		108/30/2012 16:10	67915
Surrogate: Dibromofluoromethane	102		85-115	%REC		108/30/2012 16:10	67915
Surrogate: 1,2-Dichloroethane-d4	94.9		70-120	%REC		108/30/2012 16:10	67915
Surrogate: Toluene-d8	99.5		85-120	%REC		108/30/2012 16:10	67915
Surrogate: Bromofluorobenzene	99.4		75-120	%REC		108/30/2012 16:10	67915
1H-Indene, 2,3-dihydro-1,1-dimethyl-	7.3	JN		ug/L		108/30/2012 16:10	67915
1H-Indene, octahydro-, cis-	6.4	JN		ug/L		108/30/2012 16:10	67915
2,6-Dimethylbicyclo[3.2.1]octane	6.6	JN		ug/L		108/30/2012 16:10	67915
Benzene, 1,2,4,5-tetramethyl-	9.3	JN		ug/L		108/30/2012 16:10	67915
Benzene, 1,3-diethyl-5-methyl-	7.0	JN		ug/L		108/30/2012 16:10	67915
Cyclohexane, 1-ethyl-2-methyl-, trans-	9.1	JN		ug/L		108/30/2012 16:10	67915
Unknown (10.40530)	9.9	J		ug/L		108/30/2012 16:10	67915
Unknown (8.99720)	13	J		ug/L		108/30/2012 16:10	67915
Unknown (9.45868)	8.8	J		ug/L		108/30/2012 16:10	67915
Unknown (9.71900)	6.6	J		ug/L		108/30/2012 16:10	67915

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

09/04/2012

Client: Stantec Consulting

Client Sample ID: TB-082712

Lab ID: L1826-05

Project: Genesee Street

Collection Date: 08/27/12 0:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							SW8260_W
Chloromethane	ND		5.0	ug/L		1 08/30/2012 13:02	67915
Vinyl chloride	ND		5.0	ug/L		1 08/30/2012 13:02	67915
Bromomethane	ND		5.0	ug/L		1 08/30/2012 13:02	67915
Chloroethane	ND		5.0	ug/L		1 08/30/2012 13:02	67915
Trichlorofluoromethane	ND		5.0	ug/L		1 08/30/2012 13:02	67915
1,1-Dichloroethene	ND		5.0	ug/L		1 08/30/2012 13:02	67915
Acetone	ND		5.0	ug/L		1 08/30/2012 13:02	67915
Carbon disulfide	ND		5.0	ug/L		1 08/30/2012 13:02	67915
Methylene chloride	ND		5.0	ug/L		1 08/30/2012 13:02	67915
trans-1,2-Dichloroethene	ND		5.0	ug/L		1 08/30/2012 13:02	67915
Methyl tert-butyl ether	ND		5.0	ug/L		1 08/30/2012 13:02	67915
1,1-Dichloroethane	ND		5.0	ug/L		1 08/30/2012 13:02	67915
Vinyl acetate	ND		5.0	ug/L		1 08/30/2012 13:02	67915
2-Butanone	ND		5.0	ug/L		1 08/30/2012 13:02	67915
cis-1,2-Dichloroethene	ND		5.0	ug/L		1 08/30/2012 13:02	67915
Chloroform	ND		5.0	ug/L		1 08/30/2012 13:02	67915
1,1,1-Trichloroethane	ND		5.0	ug/L		1 08/30/2012 13:02	67915
Carbon tetrachloride	ND		5.0	ug/L		1 08/30/2012 13:02	67915
1,2-Dichloroethane	ND		5.0	ug/L		1 08/30/2012 13:02	67915
Benzene	ND		5.0	ug/L		1 08/30/2012 13:02	67915
Trichloroethene	ND		5.0	ug/L		1 08/30/2012 13:02	67915
1,2-Dichloropropane	ND		5.0	ug/L		1 08/30/2012 13:02	67915
Bromodichloromethane	ND		5.0	ug/L		1 08/30/2012 13:02	67915
cis-1,3-Dichloropropene	ND		5.0	ug/L		1 08/30/2012 13:02	67915
4-Methyl-2-pentanone	ND		5.0	ug/L		1 08/30/2012 13:02	67915
Toluene	ND		5.0	ug/L		1 08/30/2012 13:02	67915
trans-1,3-Dichloropropene	ND		5.0	ug/L		1 08/30/2012 13:02	67915
1,1,2-Trichloroethane	ND		5.0	ug/L		1 08/30/2012 13:02	67915
Tetrachloroethene	ND		5.0	ug/L		1 08/30/2012 13:02	67915
2-Hexanone	ND		5.0	ug/L		1 08/30/2012 13:02	67915
Dibromochloromethane	ND		5.0	ug/L		1 08/30/2012 13:02	67915
Chlorobenzene	ND		5.0	ug/L		1 08/30/2012 13:02	67915
Ethylbenzene	ND		5.0	ug/L		1 08/30/2012 13:02	67915
m,p-Xylene	ND		5.0	ug/L		1 08/30/2012 13:02	67915
o-Xylene	ND		5.0	ug/L		1 08/30/2012 13:02	67915
Styrene	ND		5.0	ug/L		1 08/30/2012 13:02	67915
Bromoform	ND		5.0	ug/L		1 08/30/2012 13:02	67915
Isopropylbenzene	ND		5.0	ug/L		1 08/30/2012 13:02	67915
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L		1 08/30/2012 13:02	67915

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

09/04/2012

Client: Stantec Consulting

Client Sample ID: TB-082712

Lab ID: L1826-05

Project: Genesee Street

Collection Date: 08/27/12 0:00

Analyses	Result	Qual	RL Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS						SW8260_W
n-Propylbenzene	ND		5.0 ug/L		108/30/2012 13:02	67915
1,3,5-Trimethylbenzene	ND		5.0 ug/L		108/30/2012 13:02	67915
tert-Butylbenzene	ND		5.0 ug/L		108/30/2012 13:02	67915
1,2,4-Trimethylbenzene	ND		5.0 ug/L		108/30/2012 13:02	67915
sec-Butylbenzene	ND		5.0 ug/L		108/30/2012 13:02	67915
4-Isopropyltoluene	ND		5.0 ug/L		108/30/2012 13:02	67915
1,3-Dichlorobenzene	ND		5.0 ug/L		108/30/2012 13:02	67915
1,4-Dichlorobenzene	ND		5.0 ug/L		108/30/2012 13:02	67915
n-Butylbenzene	ND		5.0 ug/L		108/30/2012 13:02	67915
1,2-Dichlorobenzene	ND		5.0 ug/L		108/30/2012 13:02	67915
Naphthalene	ND		5.0 ug/L		108/30/2012 13:02	67915
2-Chloroethyl vinyl ether	ND		5.0 ug/L		108/30/2012 13:02	67915
Surrogate: Dibromofluoromethane	103		85-115 %REC		108/30/2012 13:02	67915
Surrogate: 1,2-Dichloroethane-d4	97.2		70-120 %REC		108/30/2012 13:02	67915
Surrogate: Toluene-d8	96.9		85-120 %REC		108/30/2012 13:02	67915
Surrogate: Bromofluorobenzene	93.2		75-120 %REC		108/30/2012 13:02	67915

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hamibal Tech

Date: 09/04/2012

CLIENT: Stanton Consulting
Work Order: L1826
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT

SW8260_W
SW846 8260C -- VOC by GC-MS

Sample ID: MB-67915	Samp Type: MBLK	TestCode: SW8260_W	Prep Date: 08/30/12 10:22	Run ID: V6_120830A		
Client ID: MB-67915	Batch ID: 67915	Units: ug/L	Analysis Date: 08/30/12 12:15	SeqNo: 1788508		
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit
Chloromethane	ND	0.26	1.0			
Vinyl chloride	ND	0.50	1.0			
Bromomethane	ND	0.80	1.0			
Chloroethane	ND	0.48	1.0			
Trichlorofluoromethane	ND	0.54	1.0			
1,1-Dichloroethene	ND	0.39	1.0			
Acetone	ND	2.2	5.0			
Carbon disulfide	ND	0.34	1.0			
Methylene chloride	ND	0.41	1.0			
trans-1,2-Dichloroethene	ND	0.65	1.0			
Methyl tert-butyl ether	ND	0.24	1.0			
1,1-Dichloroethane	ND	0.25	1.0			
Vinyl acetate	ND	0.35	1.0			
2-Butanone	ND	2.1	5.0			
cis-1,2-Dichloroethene	ND	0.48	1.0			
Chloroform	ND	0.33	1.0			
1,1,1-Trichloroethane	ND	0.50	1.0			
Carbon tetrachloride	ND	0.54	1.0			
1,2-Dichloroethane	ND	0.41	1.0			
Benzene	ND	0.33	1.0			
Trichloroethene	ND	0.36	1.0			
1,2-Dichloropropane	ND	0.61	1.0			
Bromodichloromethane	ND	0.26	1.0			
cis-1,3-Dichloropropene	ND	0.45	1.0			
4-Methyl-2-pentanone	ND	0.82	5.0			
Toluene	ND	0.32	1.0			
trans-1,3-Dichloropropene	ND	0.48	1.0			
1,1,2-Trichloroethane	ND	0.38	1.0			
Tetrachloroethene	ND	0.65	1.0			
2-Hexanone	ND	1.7	5.0			
Dibromochloromethane	ND	0.57	1.0			
Chlorobenzene	ND	0.26	1.0			
Ethylbenzene	ND	0.35	1.0			
m,p-Xylene	ND	0.77	1.0			
o-Xylene	ND	0.36	1.0			
Styrene	ND	0.50	1.0			

Qualifiers: ND - Not Detected at the MDL
J - Analyte detected below quantitation limits

S - Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

MDL - Method Detection Limit
RL - Reporting Limit

B - Analyte detected in the associated Method Blank

mm1.12.11.A

CLIENT: Stantec Consulting
Work Order: L1826
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT

SW8260_W
SW846 8260C -- VOC by GC-MS

Sample ID:	MB-67915	SampType: MBLK	Batch ID: 67915	TestCode: SW8260_W	Units: ug/L	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte		Result	MDL		RL									
Bromoform		ND	0.77			1.0								
Isopropylbenzene		ND	0.38			1.0								
1,1,2,2-Tetrachloroethane		ND	0.42			1.0								
n-Propylbenzene		ND	0.64			1.0								
1,3,5-Trimethylbenzene		ND	0.45			1.0								
tert-Butylbenzene		ND	0.37			1.0								
1,2,4-Trimethylbenzene		ND	0.40			1.0								
sec-Butylbenzene		ND	0.28			1.0								
4-Isopropyltoluene		ND	0.46			1.0								
1,3-Dichlorobenzene		ND	0.29			1.0								
1,4-Dichlorobenzene		ND	0.40			1.0								
n-Butylbenzene		ND	0.33			1.0								
1,2-Dichlorobenzene		ND	0.33			1.0								
Naphthalene		ND	0.80			1.0								
2-Chloroethyl vinyl ether		ND	0.24			5.0								
Surrogate:		51.31			5.0	50.00		10.3	85	115	0			
Dibromofluoromethane					5.0	50.00		0	98.5	70	120	0		
Surrogate: 1,2-Dichloroethane-d4		49.26			5.0	50.00		0	99.2	85	120	0		
Surrogate: Toluene-d8		49.59			5.0	50.00		0	95.5	75	120	0		
Surrogate:		47.75			5.0	50.00		0						
Bromofluorobenzene														

Qualifiers: ND - Not Detected at the MDL
J - Analyte detected below quantitation limits

S - Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

MDL - Method Detection Limit
RL - Reporting Limit

B - Analyte detected in the associated Method Blank

CLIENT: Stanton Consulting
Work Order: L1826
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT

SW8260_W

SW846 8260C -- VOC by GC-MS

Sample ID:	LCS-67915	SampType: LCS	TestCode: SW8260_W	Prep Date:	08/30/12 10:22	Run ID:	V6_120830A				
Client ID:	LCS-67915	Batch ID: 67915	Units: ug/L	Analysis Date:	08/30/12 10:41	SeqNo:	1788506				
Analyte		Result	MDL	SPK value	SPK Ref Val	%REC	%RPD	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	54.91	0.26	5.0	50.00	0	110	40	125	0		
Vinyl chloride	52.02	0.50	5.0	50.00	0	104	50	145	0		
Bromomethane	50.58	0.80	5.0	50.00	0	101	30	145	0		
Chloroethane	50.10	0.48	5.0	50.00	0	100	60	135	0		
Trichlorofluoromethane	55.15	0.54	5.0	50.00	0	110	60	145	0		
1,1-Dichloroethene	58.86	0.39	5.0	50.00	0	118	70	130	0		
Acetone	55.23	2.2	5.0	50.00	0	110	40	140	0		
Carbon disulfide	50.75	0.34	5.0	50.00	0	102	35	160	0		
Methylene chloride	42.06	0.41	5.0	50.00	0	84.1	55	140	0		
trans-1,2-Dichloroethene	51.36	0.65	5.0	50.00	0	103	60	140	0		
Methyl tert-butyl ether	48.90	0.24	5.0	50.00	0	97.8	65	125	0		
1,1-Dichloroethane	51.27	0.25	5.0	50.00	0	103	70	135	0		
Vinyl acetate	50.37	0.35	5.0	50.00	0	101	38	163	0		
2-Butanone	49.82	2.1	5.0	50.00	0	99.6	30	150	0		
cis-1,2-Dichloroethene	52.59	0.48	5.0	50.00	0	105	70	125	0		
Chloroform	51.63	0.33	5.0	50.00	0	103	65	135	0		
1,1,1-Trichloroethane	49.40	0.50	5.0	50.00	0	98.8	65	130	0		
Carbon tetrachloride	51.42	0.54	5.0	50.00	0	103	65	140	0		
1,2-Dichloroethane	50.94	0.41	5.0	50.00	0	102	70	130	0		
Benzene	52.17	0.33	5.0	50.00	0	104	80	120	0		
Trichloroethene	50.05	0.36	5.0	50.00	0	100	70	125	0		
1,2-Dichloropropane	52.61	0.61	5.0	50.00	0	105	75	125	0		
Bromodichloromethane	52.58	0.26	5.0	50.00	0	105	75	120	0		
cis-1,3-Dichloropropene	53.49	0.45	5.0	50.00	0	107	70	130	0		
4-Methyl-2-pentanone	43.30	0.82	5.0	50.00	0	86.6	60	135	0		
Toluene	51.82	0.32	5.0	50.00	0	104	75	120	0		
trans-1,3-Dichloropropene	55.73	0.48	5.0	50.00	0	111	55	140	0		
1,1,2-Trichloroethane	51.73	0.38	5.0	50.00	0	103	75	125	0		
Tetrachloroethene	47.56	0.65	5.0	50.00	0	95.1	45	150	0		
2-Hexanone	44.62	1.7	5.0	50.00	0	89.2	55	130	0		
Dibromochloromethane	51.46	0.57	5.0	50.00	0	103	60	135	0		
Chlorobenzene	52.00	0.26	5.0	50.00	0	104	80	120	0		
Ethylbenzene	50.96	0.35	5.0	50.00	0	102	75	125	0		
m,p-Xylene	101.9	0.77	5.0	100.0	0	102	75	130	0		
o-Xylene	51.70	0.36	5.0	50.00	0	103	80	120	0		
Styrene	51.87	0.50	5.0	50.00	0	104	65	135	0		
Bromoform	50.24	0.77	5.0	50.00	0	100	70	130	0		
Isopropylbenzene	52.81	0.38	5.0	50.00	0	106	75	125	0		

Qualifiers: ND - Not Detected at the MDL

mmi.12.11.A

S - Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

MDL - Method Detection Limit

RL - Reporting Limit

B - Analyte detected in the associated Method Blank

CLIENT: Stanton Consulting
Work Order: L1826
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT

SW8260_W

SW846 8260C -- VOC by GC-MS

Sample ID:	LCS-67915	SampType: LCS	Batch ID:	67915	TestCode: SW8260_W	Units: ug/L	SPK value	SPK Ref Val	%REC	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte		Result	MDL		RL												
1,1,2,2-Tetrachloroethane	50.53	0.42	5.0		50.00		0	101	65	130	0						
n-Propylbenzene	50.70	0.64	5.0		50.00		0	101	70	130	0						
1,3,5-Trimethylbenzene	50.49	0.45	5.0		50.00		0	101	75	130	0						
tert-Butylbenzene	51.67	0.37	5.0		50.00		0	103	70	130	0						
1,2,4-Trimethylbenzene	50.83	0.40	5.0		50.00		0	102	75	130	0						
sec-Butylbenzene	50.70	0.28	5.0		50.00		0	101	70	125	0						
4-Isopropyltoluene	51.67	0.46	5.0		50.00		0	103	75	130	0						
1,3-Dichlorobenzene	50.41	0.29	5.0		50.00		0	101	75	125	0						
1,4-Dichlorobenzene	48.37	0.40	5.0		50.00		0	96.7	75	125	0						
n-Butylbenzene	52.94	0.33	5.0		50.00		0	106	70	135	0						
1,2-Dichlorobenzene	49.66	0.33	5.0		50.00		0	99.3	70	120	0						
Naphthalene	43.69	0.80	5.0		50.00		0	87.4	55	140	0						
2-Chloroethyl vinyl ether	54.92	0.24	5.0		50.00		0	110	0	169	0						
Surrogate:	50.16	5.0			50.00		0	100	85	115	0						
Dibromofluoromethane	51.32	5.0			50.00		0	103	70	120	0						
Surrogate: 1,2-Dichloroethane-d4	49.48	5.0			50.00		0	99.0	85	120	0						
Surrogate: Toluene-d8	48.49	5.0			50.00		0	97.0	75	120	0						
Bromofluorobenzene																	

Qualifiers: ND - Not Detected at the MDL
 mm11.12.11.A J - Analyte detected below quantitation limits

S - Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

MDL - Method Detection Limit
 RL - Reporting Limit

B - Analyte detected in the associated Method Blank

CLIENT: Stanton Consulting
Work Order: L1826
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT

SW8260_W

SW846 8260C -- VOC by GC-MS

A

Sample ID: **LCSD-67915** SampType: **LCSD** TestCode: **SW8260_W** Prep Date: **08/30/12 10:22** Run ID: **V6_120830A**
 Client ID: **LCSD-67915** Batch ID: **67915** Units: **ug/L** Analysis Date: **08/30/12 11:04** SeqNo: **1788507**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	55.38	0.26	5.0	50.00	0	111	40	125	54.91	0.85	40	
Vinyl chloride	51.63	0.50	5.0	50.00	0	103	50	145	52.02	0.755	40	
Bromomethane	49.96	0.80	5.0	50.00	0	99.9	30	145	50.58	1.23	40	
Chloroethane	50.64	0.48	5.0	50.00	0	101	60	135	50.10	1.07	40	
Trichlorofluoromethane	55.19	0.54	5.0	50.00	0	110	60	145	55.15	0.075	40	
1,1-Dichloroethene	60.18	0.39	5.0	50.00	0	120	70	130	58.86	2.23	40	
Acetone	56.04	2.2	5.0	50.00	0	112	40	140	55.23	1.45	40	
Carbon disulfide	51.17	0.34	5.0	50.00	0	102	35	160	50.75	0.813	40	
Methylene chloride	43.24	0.41	5.0	50.00	0	86.5	55	140	42.06	2.75	40	
trans-1,2-Dichloroethene	53.09	0.65	5.0	50.00	0	106	60	140	51.36	3.32	40	
Methyl tert-butyl ether	51.03	0.24	5.0	50.00	0	102	65	125	48.90	4.27	40	
1,1-Dichloroethane	52.50	0.25	5.0	50.00	0	105	70	135	51.27	2.38	40	
Vinyl acetate	51.55	0.35	5.0	50.00	0	103	38	163	50.37	2.32	40	
2-Butanone	52.32	2.1	5.0	50.00	0	105	30	150	49.82	4.88	40	
cis-1,2-Dichloroethene	53.47	0.48	5.0	50.00	0	107	70	125	52.59	1.66	40	
Chloroform	52.25	0.33	5.0	50.00	0	104	65	135	51.63	1.2	40	
1,1,1-Trichloroethane	49.26	0.50	5.0	50.00	0	98.5	65	130	49.40	0.295	40	
Carbon tetrachloride	51.29	0.54	5.0	50.00	0	103	65	140	51.42	0.251	40	
1,2-Dichloroethane	52.31	0.41	5.0	50.00	0	105	70	130	50.94	2.65	40	
Benzene	53.76	0.33	5.0	50.00	0	108	80	120	52.17	2.99	40	
Trichloroethene	50.91	0.36	5.0	50.00	0	102	70	125	50.05	1.71	40	
1,2-Dichloropropane	53.57	0.61	5.0	50.00	0	107	75	125	52.61	1.81	40	
Bromodichloromethane	54.20	0.26	5.0	50.00	0	108	75	120	52.58	3.04	40	
cis-1,3-Dichloropropene	55.48	0.45	5.0	50.00	0	111	70	130	53.49	3.66	40	
4-Methyl-2-pentanone	45.50	0.82	5.0	50.00	0	91.0	60	135	43.30	4.98	40	
Toluene	53.40	0.32	5.0	50.00	0	107	75	120	51.82	3.02	40	
trans-1,3-Dichloropropene	56.86	0.48	5.0	50.00	0	114	55	140	55.73	2.02	40	
1,1,2-Trichloroethane	52.24	0.38	5.0	50.00	0	104	75	125	51.73	0.985	40	
Tetrachloroethene	48.39	0.65	5.0	50.00	0	96.8	45	150	47.56	1.74	40	
2-Hexanone	47.68	1.7	5.0	50.00	0	95.4	55	130	44.62	6.65	40	
Dibromochloromethane	52.70	0.57	5.0	50.00	0	105	60	135	51.46	2.38	40	
Chlorobenzene	53.28	0.26	5.0	50.00	0	107	80	120	52.00	2.43	40	
Ethylbenzene	52.56	0.35	5.0	50.00	0	105	75	125	50.96	3.1	40	
m,p-Xylene	103.9	0.77	5.0	100.0	0	104	75	130	101.9	1.92	40	
o-Xylene	52.34	0.36	5.0	50.00	0	105	80	120	51.70	1.23	40	
Styrene	52.81	0.50	5.0	50.00	0	106	65	135	51.87	1.81	40	
Bromoform	52.71	0.77	5.0	50.00	0	105	70	130	50.24	4.81	40	
Isopropylbenzene	52.82	0.38	5.0	50.00	0	106	75	125	52.81	0.00805	40	

Qualifiers: ND - Not Detected at the MDL

mmi.12.11.A

J - Analyte detected below quantitation limits

S - Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

MDL - Method Detection Limit

RL - Reporting Limit

B - Analyte detected in the associated Method Blank

CLIENT: Stantec Consulting
Work Order: L1826
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT

SW8260_W

SW846 8260C -- VOC by GC-MS

Sample ID:	LCSD-67915	SampType: LCSD	TestCode: SW8260_W	Prep Date:	08/30/12 10:22	Run ID:	V6_120830A						
Client ID:	LCSD-67915	Batch ID: 67915	Units: ug/L	Analysis Date:	08/30/12 11:04	SeqNo:	1788507						
Analyte		Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,2,2-Tetrachloroethane		51.32	0.42	5.0	50.00	0	103	65	130	50.53	1.54	40	
n-Propylbenzene		50.91	0.64	5.0	50.00	0	102	70	130	50.70	0.417	40	
1,3,5-Trimethylbenzene		50.25	0.45	5.0	50.00	0	100	75	130	50.49	0.476	40	
tert-Butylbenzene		51.73	0.37	5.0	50.00	0	103	70	130	51.67	0.103	40	
1,2,4-Trimethylbenzene		51.24	0.40	5.0	50.00	0	102	75	130	50.83	0.806	40	
sec-Butylbenzene		50.03	0.28	5.0	50.00	0	100	70	125	50.70	1.33	40	
4-Isopropyltoluene		51.73	0.46	5.0	50.00	0	103	75	130	51.67	0.103	40	
1,3-Dichlorobenzene		50.62	0.29	5.0	50.00	0	101	75	125	50.41	0.402	40	
1,4-Dichlorobenzene		49.77	0.40	5.0	50.00	0	99.5	75	125	48.37	2.85	40	
n-Butylbenzene		52.68	0.33	5.0	50.00	0	105	70	135	52.94	0.489	40	
1,2-Dichlorobenzene		50.27	0.33	5.0	50.00	0	101	70	120	49.66	1.21	40	
Naphthalene		44.91	0.80	5.0	50.00	0	89.8	55	140	43.69	2.74	40	
2-Chloroethyl vinyl ether		55.66	0.24	5.0	50.00	0	111	0	169	54.92	1.34	40	
Surrogate:		49.82	5.0	50.00	0	99.6	85	115	0	0	0	40	
Dibromofluoromethane		51.77	5.0	50.00	0	104	70	120	0	0	0	40	
Surrogate: 1,2-Dichloroethane-d4		49.50	5.0	50.00	0	99.0	85	120	0	0	0	40	
Surrogate: Toluene-d8		48.67	5.0	50.00	0	97.3	75	120	0	0	0	40	
Bromofluorobenzene													

Qualifiers: ND - Not Detected at the MDL
 mm1.12.11.A J - Analyte detected below quantitation limits

S - Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

MDL - Method Detection Limit
 RL - Reporting Limit

B - Analyte detected in the associated Method Blank

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

09/04/2012

Client: Stantec Consulting

Client Sample ID: MW-6-W

Lab ID: L1826-04

Project: Genesee Street

Collection Date: 08/27/12 14:50

Analyses	Result	Qual	RL Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID						
Extractable Total Petroleum Hydrocarbon	0.33		0.20 mg/L		108/30/2012 13:33	67909
Surrogate: ortho-Terphenyl	81.2		50-150 %REC		108/30/2012 13:33	67909

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Tech

Date:09/04/2012

CLIENT: Stantec Consulting
Work Order: L1826
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT

TPH_W

SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID

Sample ID: MB-67909	SampType: MBLK	TestCode: TPH_W	Prep Date: 08/30/12 8:33	Run ID: F1_120830A								
Client ID: MB-67909	Batch ID: 67909	Units: mg/L	Analysis Date: 08/30/12 12:33	SeqNo: 1787634								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Total Petroleum Hydrocarbon Surrogate: ortho-Terphenyl	ND	0 .018	0 .20	0 .025	0 .1000	0	91 .7	50	150	0		
Sample ID: LCS-67909	SampType: LCS	TestCode: TPH_W	Prep Date: 08/30/12 8:33	Run ID: F1_120830A								
Client ID: LCS-67909	Batch ID: 67909	Units: mg/L	Analysis Date: 08/30/12 12:53	SeqNo: 1787635								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Total Petroleum Hydrocarbon Surrogate: ortho-Terphenyl	5 .709	0 .018	0 .20	0 .025	0 .1000	0	114	60	140	0		
Sample ID: LCSD-67909	SampType: LCSD	TestCode: TPH_W	Prep Date: 08/30/12 8:33	Run ID: F1_120830A								
Client ID: LCSD-67909	Batch ID: 67909	Units: mg/L	Analysis Date: 08/30/12 13:13	SeqNo: 1787636								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Total Petroleum Hydrocarbon Surrogate: ortho-Terphenyl	5 .240	0 .018	0 .20	0 .025	0 .1000	0	105	60	140	5 .709	8 .57	20

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits
mml1.12.11.A J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

MDL - Method Detection Limit
RL - Reporting Limit

B - Analyte detected in the associated Method Blank

Analysis Report: Fuel Identification

Client: STANTEC
Analysis: Fuel ID

Project: Genesee Street

<u>Lab ID</u>	<u>Result</u>
L1826-04C	Resembles Mineral Spirits

(*) Lab reference standards included:

- Diesel Fuel/ #2 Fuel Oil
- Motor Oil
- #4 Fuel Oil
- #5 Fuel Oil
- #6 Fuel Oil
- Unleaded Gasoline
- Aviation Gasoline
- Jet Fuel A
- Kerosene
- Creosote
- Mineral Spirits
- Hydraulic Oil
- JP-4
- JP-5
- Transmission Fluid
- Coal Tar
- Transformer Oil

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

09/04/2012

Client: Stantec Consulting
Client Sample ID: MW-19D-W
Lab ID: L1826-01 **Project:** Genesee Street
Collection Date: 08/27/12 11:10

Analyses	Result	Qual	RL Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP					SW6010_W	
Selenium	ND		30 ug/L		1 09/04/2012 8:50	67933

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

09/04/2012

Client: Stantec Consulting
Client Sample ID: MW-12-W
Lab ID: L1826-02 **Project:** Genesee Street
Collection Date: 08/27/12 12:55

Analyses	Result	Qual	RL Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP					SW6010_W	
Selenium	ND		30 ug/L		109/04/2012 8:53	67933

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

09/04/2012

Client: Stantec Consulting
Client Sample ID: MW-13-W
Lab ID: L1826-03 **Project:** Genesee Street
Collection Date: 08/27/12 16:15

Analyses	Result Qual	RL Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP				SW6010_W	
Selenium	ND	30 ug/L		109/04/2012 8:57	67933

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

09/04/2012

Client: Stantec Consulting

Client Sample ID: MW-6-W

Lab ID: L1826-04

Project: Genesee Street

Collection Date: 08/27/12 14:50

Analyses	Result Qual	RL Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP				SW6010_W	
Selenium	ND	30 ug/L		109/04/2012 9:00	67933

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Tech

Date: 09/04/2012

CLIENT: Stantec Consulting
Work Order: L1826
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT

SW6010_W

SW846 6010C -- Metals by ICP

Sample ID: MB-67933	SampType: MBLK	TestCode: SW6010_W	Prep Date: 08/31/12 9:00	Run ID: OPTIMA2_120904A							
Client ID: MB-67933	Batch ID: 67933	Units: ug/L	Analysis Date: 09/04/12 8:36	SeqNo: 1788790							
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit	Qual
Selenium	ND	12	30								
Sample ID: LCS-67933	SampType: LCS	TestCode: SW6010_W	Prep Date: 08/31/12 9:00	Run ID: OPTIMA2_120904A							
Client ID: LCS-67933	Batch ID: 67933	Units: ug/L	Analysis Date: 09/04/12 8:39	SeqNo: 1788791							
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit	Qual
Selenium	469.0	12	30	455.0	0	103	80	120	0		
Sample ID: LCSD-67933	SampType: LCSD	TestCode: SW6010_W	Prep Date: 08/31/12 9:00	Run ID: OPTIMA2_120904A							
Client ID: LCSD-67933	Batch ID: 67933	Units: ug/L	Analysis Date: 09/04/12 8:43	SeqNo: 1788792							
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit	Qual
Selenium	465.4	12	30	455.0	0	102	80	120	469.0	0.773	20

Qualifiers: ND - Not Detected at the MDL
J - Analyte detected below quantitation limits
nml 1.12.11.A J - Analyte detected below quantitation limits
S - Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

MDL - Method Detection Limit
RL - Reporting Limit

B - Analyte detected in the associated Method Blank



**Certified
Environmental
Services, Inc.**

1401 Erie Blvd. East
Syracuse, NY 13210
Phone 315-478-2374
Fax 315-478-2107

REPORT OF ANALYSES

Spectrum Analytical, Inc.
830 Silver St.
Agawam, MA 01001-
Attn: Ms. Amy Daniels

PROJECT NAME: MW-19D-W
DATE: 09/04/2012

SAMPLE NUMBER- 634806 SAMPLE ID- MW-19D-W
DATE SAMPLED- 08/27/12
DATE RECEIVED- 08/28/12 SAMPLER- Information Not Provided
TIME RECEIVED- 1318 DELIVERED BY- Spectrum

SAMPLE MATRIX- WW
TIME SAMPLED- 1110
RECEIVED BY- RS
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME BY	RESULT UNITS	DETECTION LIMIT
Sample Receipt Temperature		08/28/12	RS	4.4 Degrees C	
NITRATE as N	SM18 4500E	08/28/12	1330 JDC	0.26 mg/L	0.05
NITRITE	SM18 4500B	08/28/12	1330 JDC	< 0.02 mg/L	0.02
SULFATE	SM15-426C	09/04/12	1330 JDC	132. mg/L	5.

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R. Bonczyk

(Terms and Conditions on Reverse Side)

**Rachel R. Bonczyk
Technical Director**

The analytical results on this sample are representative of the sample received by the Laboratory.



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Syracuse, NY 13210
Phone 315-478-2374
Fax 315-478-2107

REPORT OF ANALYSES

Spectrum Analytical, Inc.
830 Silver St.
Agawam, MA 01001-
Attn: Ms. Amy Daniels

PROJECT NAME: MW-19D-W
DATE: 09/04/2012

SAMPLE NUMBER- 634823 SAMPLE ID- MW-19D-W
DATE SAMPLED- 08/27/12
DATE RECEIVED- 08/28/12 SAMPLER- Information Not Provided
TIME RECEIVED- 1318 DELIVERED BY- Spectrum

SAMPLE MATRIX- WW
TIME SAMPLED- 1110
RECEIVED BY- RS
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS	DETECTION LIMIT
Sample Receipt Temperature NITRATE/NITRITE	SM18 4500	08/28/12 08/29/12	1500	RS JDC	4.4 Degrees C 0.26 mg/L	0.05

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk

(Terms and Conditions on Reverse Side)

**Rachel R. Bonczyk
Technical Director**

The analytical results on this sample are representative of the sample received by the Laboratory.



**Certified
Environmental
Services, Inc.**

1401 Erie Blvd. East
Syracuse, NY 13210
Phone 315-478-2374
Fax 315-478-2107

Sample Receiving Check List

Client Name: Spectrum

Batch Number: C7691

Yes

No

If No Explain:

1. Proper Full and Complete Documentation:

2. Appropriate Sample Containers:

3. Adequate Sample Volume:

4. Hold Time(OK):

5. Proper sample labeling:

6. Sample Temperature:

7. Samples received in good condition
And with proper/adequate preservation:

Additional Comments: sample preserved @ lab with H₂SO₄ for NO₃/NO₂ combined.

Client Correspondence:

C7191
258-26-12
Spectrum CES

CHAIN OF CUSTODY RECORD

SPECTRUM ANALYTICAL, INC.

Featuring
HANDEL TECHNOLOGYReport To: Spectrum

Page _____ of _____

Invoice To: Spectrum

Project No.: _____

Site Name: _____

Location: _____

State: _____

Sampler(s): _____

P.O. No.: _____

RQN: _____

List preservative code below:

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Special Handling:

 Standard TAT - 7 to 10 business days Rush TAT - Date Needed

All TATs subject to laboratory approval

Min. 24-hour notification needed for rushes

Samples disposed of after 60 days unless otherwise instructed.

Project No.: _____

Site Name: _____

Location: _____

State: _____

Sampler(s): _____

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FRONT

CERTIFIED ENVIRONMENTAL SERVICES, INC.

Page 1 of 2

ANALYSIS DATE: 8/29/12
ANALYSIS TIME: 1130ELAP #11246 Job
ANALYZED BY: JLZ BATCH NO: A10036QC ID: 634-240210-NO2
P199-JD-NO2NITRATE/NITRITE
SM18 4500E/SM18 4500B
QC Mean = 23.0 µg/l-NO2NO3 Spike Conc. = 440 µg/l
NO2 Spike Conc. = 0.40 µg/l

Date Curve Run: <u>8/31/12</u>	
NO3 STD'S	Absorbance
0.05ppm	.028
0.10ppm	.058
0.20ppm	.12
0.50ppm	.296
1.0ppm	.572

Correlation= 0.999742

Date Curve Run: <u>8/31/12</u>	
NO2 STD'S	Absorbance
0.02ppm	.014
0.05ppm	.036
0.10ppm	.070
0.20ppm	.145
0.50ppm	.370
1.0ppm	.702

Correlation= 0.999619

CES ID:	Combined	Combined	Nitrite	Nitrite	Combined	Nitrite	Nitrate
	Dilution	Absorbance	Dilution	Absorbance	Result (ppm)	Result (ppm)	Result (ppm)
1 BLANK		.00		.00	240.5	20.02	
2 0.50 Std		.283		.374	488.6 = 97.61.526	105.22	
3 QC	50	.30	2t	.393	25.90 / 230 = 112.61.138	147.93.91	
4 LOQ	2.50	.065	50	.082	26.73 / 230 = 116.21.138	147.0	
5 NO2 (column)		.327		—	535.0 = 113.62	—	—
6 634 699	10	.433		—	7.51	—	—
7 634 719	2	.403	1	.000	1.41	20.02	1.41
8 634 749	2	.305	1	.000	1.05	—	1.05
9 634 780	2	.280	1	.000	0.97	—	0.97
10 634 759	2	.463	1	.000	1.68	—	1.68
11 634 760	25	.364	1	.000	15.7	—	15.7
12 634 761	1	.030	1	.000	1.7 20.05	↓	20.05
13 634 761-ms	1	.260	1	.290	431.6 = 107.82	40.46 = 101.82	1.7
14 634 761-mj0	1	.247	1	.285	425.425 = 103.32	40.46 = 100.62	1.7
15 634 762	1	.014	1	.002	20.05	20.02	20.05
16 634 764	1	.000	1	.000	↓	↓	↓
17 634 806	1	.152		.001	0.26	↓	0.26
18 AC-2	50	.301	2t	.395	25.99 / 230 = 113.02	139 / 147 = 94.62	
19 0.50-NO2-std		.310		—	535.0 = 107.02	—	—
20 CLJ		.000		.001	20.05	20.02	

DOCUMENT ID: NO3NO2051312 APPROVED BY: RRB

Data Reviewed By: CJMBalance ID: MCH14 08-160# Added to run at 1530
8/24/12

FRONT

CERTIFIED ENVIRONMENTAL SERVICES, INC.

Page 1 of 2

ANALYSIS DATE: 8/29/12
ANALYSIS TIME: 1500ELAP #11246
ANALYZED BY: JBLBATCH NO: 110037QC ID: QA 250 240 695 - NO₂
QA P199-J05-NO₂NITRATE/NITRITE
SM18 4500E/SM18 4500B
QC Mean = 23.0 ppmNO₃ Spike Conc. = 0.10 mg/l
NO₂ Spike Conc. = 0.40 mg/l

Date Curve Run: <u>8/3/12</u>	
NO ₃ STD'S	Absorbance
0.05ppm	.028
0.10ppm	.058
0.20ppm	.123
0.50ppm	.296
1.0ppm	.572
Correlation= <u>0.999742</u>	

1.47 - 54

Date Curve Run: <u>8/3/12</u>	
NO ₂ STD'S	Absorbance
0.02ppm	.019
0.05ppm	.036
0.10ppm	.070
0.20ppm	.145
0.50ppm	.370
1.0ppm	.702
Correlation= <u>0.999619</u>	

237 329 - NO₃
237 330 - NO₃
237 331 - NO₂
237 332 - NO₂
237 333 - NO₂

CES ID:	Combined	Combined	Nitrite	Nitrite	Combined	Nitrite	Nitrate
	Dilution	Absorbance	Dilution	Absorbance	Result (ppm)	Result (ppm)	Result (ppm)
1 BLANK		.000		.000	0.00	0.00	0.00
2 0.50 Std		.289		.331	488 / 0.9712 = 500	465 / 0.9712 = 482	
3 QC	50	.295	21	.404	25.46 / 23.0 = 1.10.71	1.42 / 1.47 = 96.67	
4 LOQ	40	.063	50	.020	25.86 / 23.0 = 1.12.41	1.22 / 1.47 = 83.01	
5 NO ₂ (column)		.339		-	586 / 0.9712 = 600	-	-
6 634823	2	.078		-	0.26	-	-
7 634843	2	.233	1	.000	0.80	0.02	0.80
8 634845	2	.390	1	.005	1.35	-	1.35
9 634848	1	.014	1	.001	0.00	-	0.00
10 634850	1	.000	1	.000	-	-	-
11 634851	1	.002	1	.000	2.1	-	-
12 634851-mg	1	.245	1	.282	422 / 4.0 = 105.51	398 / 4.0 = 99.51	23
13 634851-mg	1	.200	1	.288	431 / 4.0 = 107.82	404 / 4.0 = 101.06	
14 634854	1	.094	1	.000	0.16	0.02	0.16
15 634926	1	.004	1	.000	0.00	-	0.00
16 634927	1	.078	1	.001	0.13	-	0.13
17 634928	1	.008	1	.000	0.00	-	0.00
18 262	50	.282	21	.90	24.32 / 23.0 = 105.71	11 / 1.47 = 95.51	
19 0.80-mg		.294		-	50 / 10 = 5.0	-	-
20 C-L		.001		.000	0.00	0.02	-

DOCUMENT ID: NO3NO2051312 APPROVED BY: RRB

Data Reviewed By: MJ

Balance ID: Mettler No 160

FRONT

CERTIFIED ENVIRONMENTAL SERVICES, INC.

Page 1 of 2

ANALYSIS DATE: 8/30/11
ANALYSIS TIME: 12:55ELAP #11246
ANALYZED BY: 002 BATCH NO: 237378-N02600 25 400 95 100
QC ID: 600-11246-002NITRATE/NITRITE
SM18 4500E/SM18 4500B
QC Mean = 2.30 µg N02NO3 Spike Conc. = 0.40 µg N03
NO2 Spike Conc. = 0.40 µg N02

Date Curve Run: <u>8/30/11</u>	
NO3 STD'S	Absorbance
0.05ppm	.028
0.10ppm	.058
0.20ppm	.123
0.50ppm	.296
1.0ppm	.572

Correlation= 0.99974

147 µL N02

Date Curve Run: <u>8/30/11</u>	
NO2 STD'S	Absorbance
0.02ppm	.074
0.05ppm	.036
0.10ppm	.070
0.20ppm	.145
0.50ppm	.370
1.0ppm	.702

Correlation= 0.999619

237378-N03
237379-N02
237380-N02

CES ID:	Combined Dilution	Combined Absorbance	Nitrite Dilution	Nitrite Absorbance	Combined Result (ppm)	Nitrite Result (ppm)	Nitrate Result (ppm)
1 BLANK		.000		.000	20.05	20.02	
2 0.50 Std		.301		.376	.520 / 0.10402 , 529 / 0.105.81		
3 QC	50	.297	25	.408	25.29 / 230 / 110.02 / 43 / 147 - 97.31		
4 LOQ	250	.064	50	.029	26.29 / 230 / 114.31 / 43 / 147 - 97.31		
5 NO2 (column)		.341		- .542	1.0 - 118.66	-	-
6 634929	1	.009		-	< 0.05	-	-
7 634930	1	.084		-	0.14	-	-
8 634931	1	.009		-	< 0.05	-	-
9 634936	5	.018		-	< 0.25	-	-
10 634937	5	.003		-		-	-
11 634938	5	.007		-		-	-
12 634939	5	.010		-		-	-
13 634940	5	.012		-		-	-
14 634951	1	.006	1	.012	< 0.05	< 0.02	< 0.05
15 634952	1	.142	1	.001	2.9	20.02	0.24
16 634952-00	1	.138	1	.280	0.235	, 393 / 40 - 99.34	
17 634952-50	1	.386	1	.286	(668-242) / 46 - 106.51 , 461 / 45 - 100.31 + 0.05		
18 AC-2	50	.288	25	.410	29.85 / 220 / 108.02 / 44 / 147 - 99.06		
19 0.10-N02, N		.305		- .527	1.0 - 105.46	-	-
20 C68		.000		.001	< 0.05	20.02	

DOCUMENT ID: NO3NO2051312

APPROVED BY: RRB

Data Reviewed By: ✓Balance ID: MCHL/AC 160

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CERTIFIED ENVIRONMENTAL SERVICES, INC.

Page 1 of 2

ANALYSIS DATE: 8/31/12
ANALYSIS TIME: 1535ELAP #11246
ANALYZED BY: J02 BATCH NO: C-0034QA: 210 210 (95.40)
QC ID: CAA- P188-505-N02NITRATE/NITRITE
SM18 4500E/SM18 4500B
QC Mean = 0.30 mgL NO₃NO3 Spike Conc. = 0.40 mgL
NO2 Spike Conc. = 0.40 mgL

Date Curve Run: <u>8/31/12</u>	
NO3 STD'S	Absorbance
0.05ppm	.028
0.10ppm	.058
0.20ppm	.123
0.50ppm	.296
1.0ppm	.572

Correlation= 0.999742

1.47 mgL NO₂

Date Curve Run: <u>8/31/12</u>	
NO2 STD'S	Absorbance
0.02ppm	.014
0.05ppm	.036
0.10ppm	.070
0.20ppm	.145
0.50ppm	.370
1.0ppm	.702

Correlation= 0.999619

2374P9-N02
2374T0-N02

CES ID:	Combined	Combined	Nitrite	Nitrite	Combined	Nitrite	Nitrate
	Dilution	Absorbance	Dilution	Absorbance	Result (ppm)	Result (ppm)	Result (ppm)
1 BLANK		.00		.00	22.05	<0.02	
2 0.50 Std		.295		.35	0.509 / 0.70	0.182493 / 0.19862	
3 QC	50	.295	2t	.394	25.46 / 23.0	110.71 / 139 / 147 / 94.62	
4 LOQ	250	.065	50	.020	26.73 / 23.0	116.21 / 122 / 147 / 83.02	
5 NO2 (column)		.325		—	.562 / 0.112.42	—	—
6 63508	25	.350	1	.001	15.1	<0.02	15.1
7 635071	1	.034	1	.001	3.2	0.053	<0.02
8 635011-mg	1	.248	1	.276	(42) - 0.53 / 46 - 93.51 / 38 / 46 - 96.81		
9 635011 - m60	1	.256	1	.272	(44) - 0.53 / 46 - 97.06 / 381 / 46 - 95.37		
10 635034	1	.016	1	.001	<0.05	<0.02	<0.05
11 2C-2	50	.295	2t	.399	25.46 / 23.0	110.71 / 140 / 147 / 95.22	
12 0.50 NO ₂ /N		.30		—	.535 / 0.107.67	—	—
13 CCB		.00		.001	20.05	<0.02	
14							
15							
16							
17							
18							
19							
20							

8/31/12-04

DOCUMENT ID: NO3NO2051312 APPROVED BY: RRB

Data Reviewed By: r/mBalance ID: n-1144 AC-160

CERTIFIED ENVIRONMENTAL SERVICES, INC.

23749L
237493-SANALYSIS DATE: 9/4/12
ANALYSIS TIME: 1330ELAP #11246
ANALYZED BY: JBLBATCH NO: C-9007(WC-248)
C.L. 4000
QC ID: CAS-061211 QC Mean = 1000 µg/LSULFATE
SM15-426C

Correlation = _____

Spike Conc.: 10 µg/L

TIME	CES ID:	DILUTION FACTOR	ABSORBANCE READING	RESULT ppm	RESULT X DILUTION ppm
0 - 5	BLANK		.000	4.52	
2 - 7	5.0ppm		.025	6.38	
4 - 9	10.0ppm		.054	8.54	
6 - 11	20.0ppm		.209	20.08	
8 - 13	30.0ppm		.334	29.38	
10 - 15	40.0ppm		.485	40.62	
1 12 - 17	QC-	100	.076	10.179	101.72
2 14 - 19	LOQ	100	.023	6.234	124.7 / 1000 = 124.72
3 16 - 21	634806	10	.117	13.430	
4 18 - 23	634926	10	.102	12.114	121.
5 20 - 25	634927	5	.090	11.221	56.1
6 22 - 27	634927	5	.086	10.923	54.6 $\times 1000 = 2.7$
7 24 - 29	634927	5	.205	(19.78 - 11.22) / 10 = 85.67	
8 26 - 31	634928	10	.136	14.644	146.
9 28 - 33	634995	35.7100	.06	< 5.	< 100.
10 30 - 35	634995	10	.076	10.18 / 10 = 101.82	
11 32 - 37	634995	10	.069	9.66 / 10 = 96.61	$\times 1000 = 5.2$
12 34 - 39	Filter Blank		.000	< 5.	< 5.
13 36 - 41	QC-2	100	.072	9.881 / 1000 = 98.82	
14					
15					
16					
17					
18					
19					
20					

DOCUMENT ID: SO4051312

APPROVED BY: RRB

Reagents and/or Standards Associated with this analysis, See Standard Preparation Book:

Reagent Name: _____ Page(s): _____ Line(s): _____

Conditioning Reagent

Sulfate Standard

Data Reviewed By: VJWBalance ID: MCHW 108/160

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

WorkOrder: L1826

Client ID: STANTEC
Project: Genesee Street
WO Name: Genesee Street
Location: GENESEE,
Comments: N/A

Case:
SDG:
PO: 190500696

HC Due: 09/04/12
Fax Due: 09/04/12
Fax Report:

EQUIS_4
EDD: EQUIS_4

Lab Samp ID	Client Sample ID	Collection Date	Date Rec'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
L1826-01A	MW-19D-W	08/27/2012 11:10	08/29/2012	Aqueous	SW/8260_W	/ TCL/STARS, 1ppb ICAL, +TICs	Y				VOA
L1826-01B	MW-19D-W	08/27/2012 11:10	08/29/2012	Aqueous	SW/6010_W	/ Se only	Y				M4
L1826-01C	MW-19D-W	08/27/2012 11:10	08/29/2012	Aqueous	E300IC_W	/ CESNO2,NO3,SO4,NO2-NO3	Y				SUB
L1826-02A	MW-12-W	08/27/2012 12:55	08/29/2012	Aqueous	SW/8260_W	/ TCL/STARS, 1ppb ICAL, +TICs	Y				VOA
L1826-02B	MW-12-W	08/27/2012 12:55	08/29/2012	Aqueous	SW/6010_W	/ Se only	Y				VOA
L1826-03A	MW-13-W	08/27/2012 16:15	08/29/2012	Aqueous	SW/8260_W	/ TCL/STARS, 1ppb ICAL, +TICs	Y				M4
L1826-03B	MW-13-W	08/27/2012 16:15	08/29/2012	Aqueous	SW/6010_W	/ Se only	Y				VOA
L1826-04A	MW-6-W	08/27/2012 14:50	08/29/2012	Aqueous	SW/8260_W	/ TCL/STARS, 1ppb ICAL, +TICs	Y				VOA
L1826-04B	MW-6-W	08/27/2012 14:50	08/29/2012	Aqueous	SW/6010_W	/ Se only	Y				M4
L1826-04C	MW-6-W	08/27/2012 14:50	08/29/2012	Aqueous	TPH_W	/ plus Fuel ID					F3
L1826-05A	TB-082712	08/27/2012 00:00	08/29/2012	Aqueous	SW/8260_W	/ TCL/STARS, 1ppb ICAL, +TICs	Y				VOA

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

Received By: <i>ATW</i>	Page 01 of 00								
Reviewed By: <i>Vernon Bryant</i>	Log-in Date 08/29/2012								
Work Order: L1826	Client Name: Stantec Consulting								
Project Name/Event: Genesee Street									
Remarks: (1/2) Please see associated sample/extract transfer logbook pages submitted with this data package.		Preservation (pH)					VOA Matrix	Soil HeadSpace or Air Bubble > or equal to 1/4"	
		Lab Sample ID	HNO ₃	H ₂ SO ₄	HCl	NaOH			H ₃ PO ₄
1. Custody Seal(s)	Present / Absent	L1826-01	<2					H	
	Intact / Broken	L1826-02	<2					H	
2. Custody Seal Nos.	N/A	L1826-03	<2					H	
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists	Present / Absent	L1826-04	<2					H	
		L1826-05						H	
4. Airbill	AirBill / Sticker								
	Present / Absent								
5. Airbill No.	Courier N/A								
6. Sample Tags	Present / Absent								
Sample Tag Numbers									
	Listed /								
	Not Listed on Chain-of-Custody								
7. Sample Condition	Intact / Broken / Leaking								
8. Cooler Temperature Indicator Bottle	Present / Absent								
9. Cooler Temperature	3 °C								
10. Does information on TR/COCs and sample tags agree?	Yes / No								
11. Date Received at Laboratory	08/29/2012								
12. Time Received	10:54								
Sample Transfer									
Fraction (1) TVOA/VOA	Fraction (2) SVOA/PEST/ARO								
Area #	Area #								
By	By								
On	On								
IR Temp Gun ID:MT-1			VOA Matrix Key:						
CoolantCondition: ICE			US = Unpreserved Soil	A = Air					
Preservative Name/Lot No:			UA = Unpreserved Aqueous	H = HCl					
			M = MeOH	E = Encore					
		N = NaHSO ₄	F = Freeze						
		See Sample Condition Notification/Corrective Action Form Yes / No							
		Rad OK Yes / No							

Last Page of Data Report

Report Date:
07-Sep-12 16:32

- Final Report
 Re-Issued Report
 Revised Report



Laboratory Report

Stantec Consulting
61 Commercial Street
Rochester, NY 14614

Work Order: L1835
Project: Genesee Street
Project #:

Attn: Mike Storonsky

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
L1835-01	MW-11-W	Aqueous	28-Aug-12 09:00	30-Aug-12 11:40
L1835-02	MW-3-W	Aqueous	28-Aug-12 09:18	30-Aug-12 11:40
L1835-03	MW-7-W	Aqueous	28-Aug-12 12:50	30-Aug-12 11:40
L1835-04	MW-18-W	Aqueous	28-Aug-12 15:45	30-Aug-12 11:40
L1835-05	MW-14-W	Aqueous	28-Aug-12 13:55	30-Aug-12 11:40
L1835-06	TB-082812	Aqueous	28-Aug-12 08:30	30-Aug-12 11:40

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirements have been met.

Spectrum Analytical (Rhode Island) is accredited under the National Environmental Laboratory Approval Program (NELAP) and DoD Environmental Laboratory Accreditation Program (ELAP), holds Organic and Inorganic contracts under the USEPA CLP Program and is certified under several states. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.spectrum-analytical.com.

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Florida	E87664
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
North Carolina	581
Pennsylvania	68-00520
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033



Authorized by:

Yihai Ding
Laboratory Director



REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : Stantec Consulting

Project: Genesee Street

Laboratory Workorder / SDG #: L1835

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8260C

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: DEFAULT

Aqueous Samples were prepared following procedures in laboratory test code: SW5030

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V6

Instrument Type: GCMS-VOA

Description: HP6890 / HP5973

Manufacturer: Hewlett-Packard

Model: 6890 / 5973

GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624 capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.



Signed: _____

Date: _____ 9/5/2012 _____

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : Stantec Consulting

Project: Genesee Street

Laboratory Workorder / SDG #: L1835

SW846 8015D TPH, Total Petroleum Hydrocarbons (TPH) by GC-FID

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 8015D TPH

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3510

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: F1
Instrument Type: GC-FID
Description: HP6890
Manufacturer: Hewlett-Packard
Model: 6890

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Dilutions:

No sample in this SDG required analysis at dilution.

F. Samples:

Spectrum RI's analysis method is designed to separate and identify common hydrocarbon fuels and other petroleum-related products. Samples are analyzed using capillary gas chromatography with flame ionization detection. Results are compared to a library of standards of known petroleum products obtained from commercial analytical standard

sources. The following petroleum products are included in the library of standards: Fuel oils #1, #2/diesel, #3, #4, #5, #6, kerosene, mineral spirits, turpentine, paint thinner, jet fuels JP-4, JP-5, gasoline, aviation gasoline, lubricating oil, motor oil, hydraulic oil, transmission oil, coal tar, creosote.

Sample resembles Mineral Spirits.

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: _____



Date: _____ 9/5/2012 _____

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : Stantec Consulting

Project: Genesee Street

Laboratory Workorder / SDG #: L1835

SW846 6010C

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 6010C

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3005

V. INSTRUMENTATION

The following instrumentation was used to perform

Instrument Code: OPTIMA2
Instrument Type: ICP
Description: Optima 3100 XL
Manufacturer: Perkin-Elmer
Model: 3100 XL

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recovery for laboratory control samples was within the QC limits.

2. Matrix spike (MS):

A matrix spike was not performed on any sample in this SDG.

D. Post Digestion Spike (PDS):

A post-digestion spike was not performed on any sample in this SDG.

E. Duplicate sample:

A duplicate analysis was not performed on any sample in this SDG.

F. Serial Dilution (SD):

A serial dilution was not performed on any sample in this SDG.

G. Samples:

The Nitrate, Nitrite, Sulfate and Nitrate-Nitrite analyses were

performed by Certified Environmental Services, Inc. of Syracuse, NY.
The CES report has been submitted following the Metals data of the
Spectrum RI report.

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum RI, both technically and for completeness, except for the conditions noted above.
Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: 

Date: 09/07/12

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

09/05/2012

Client: Stantec Consulting

Client Sample ID: MW-11-W

Lab ID: L1835-01

Project: Genesee Street

Collection Date: 08/28/12 9:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							SW8260_W
Chloromethane	ND		5.0	ug/L	1	09/05/2012 13:19	67978
Vinyl chloride	ND		5.0	ug/L	1	09/05/2012 13:19	67978
Bromomethane	ND		5.0	ug/L	1	09/05/2012 13:19	67978
Chloroethane	ND		5.0	ug/L	1	09/05/2012 13:19	67978
Trichlorofluoromethane	ND		5.0	ug/L	1	09/05/2012 13:19	67978
1,1-Dichloroethene	ND		5.0	ug/L	1	09/05/2012 13:19	67978
Acetone	ND		5.0	ug/L	1	09/05/2012 13:19	67978
Carbon disulfide	ND		5.0	ug/L	1	09/05/2012 13:19	67978
Methylene chloride	ND		5.0	ug/L	1	09/05/2012 13:19	67978
trans-1,2-Dichloroethene	ND		5.0	ug/L	1	09/05/2012 13:19	67978
Methyl tert-butyl ether	ND		5.0	ug/L	1	09/05/2012 13:19	67978
1,1-Dichloroethane	ND		5.0	ug/L	1	09/05/2012 13:19	67978
Vinyl acetate	ND		5.0	ug/L	1	09/05/2012 13:19	67978
2-Butanone	ND		5.0	ug/L	1	09/05/2012 13:19	67978
cis-1,2-Dichloroethene	ND		5.0	ug/L	1	09/05/2012 13:19	67978
Chloroform	ND		5.0	ug/L	1	09/05/2012 13:19	67978
1,1,1-Trichloroethane	ND		5.0	ug/L	1	09/05/2012 13:19	67978
Carbon tetrachloride	ND		5.0	ug/L	1	09/05/2012 13:19	67978
1,2-Dichloroethane	ND		5.0	ug/L	1	09/05/2012 13:19	67978
Benzene	ND		5.0	ug/L	1	09/05/2012 13:19	67978
Trichloroethene	ND		5.0	ug/L	1	09/05/2012 13:19	67978
1,2-Dichloropropane	ND		5.0	ug/L	1	09/05/2012 13:19	67978
Bromodichloromethane	ND		5.0	ug/L	1	09/05/2012 13:19	67978
cis-1,3-Dichloropropene	ND		5.0	ug/L	1	09/05/2012 13:19	67978
4-Methyl-2-pentanone	ND		5.0	ug/L	1	09/05/2012 13:19	67978
Toluene	ND		5.0	ug/L	1	09/05/2012 13:19	67978
trans-1,3-Dichloropropene	ND		5.0	ug/L	1	09/05/2012 13:19	67978
1,1,2-Trichloroethane	ND		5.0	ug/L	1	09/05/2012 13:19	67978
Tetrachloroethene	ND		5.0	ug/L	1	09/05/2012 13:19	67978
2-Hexanone	ND		5.0	ug/L	1	09/05/2012 13:19	67978
Dibromochloromethane	ND		5.0	ug/L	1	09/05/2012 13:19	67978
Chlorobenzene	ND		5.0	ug/L	1	09/05/2012 13:19	67978
Ethylbenzene	ND		5.0	ug/L	1	09/05/2012 13:19	67978
m,p-Xylene	ND		5.0	ug/L	1	09/05/2012 13:19	67978
o-Xylene	ND		5.0	ug/L	1	09/05/2012 13:19	67978
Styrene	ND		5.0	ug/L	1	09/05/2012 13:19	67978
Bromoform	ND		5.0	ug/L	1	09/05/2012 13:19	67978
Isopropylbenzene	ND		5.0	ug/L	1	09/05/2012 13:19	67978
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L	1	09/05/2012 13:19	67978

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

09/05/2012

Client: Stantec Consulting

Client Sample ID: MW-11-W

Lab ID: L1835-01

Project: Genesee Street

Collection Date: 08/28/12 9:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							
n-Propylbenzene	ND		5.0	ug/L	1	09/05/2012 13:19	67978
1,3,5-Trimethylbenzene	ND		5.0	ug/L	1	09/05/2012 13:19	67978
tert-Butylbenzene	ND		5.0	ug/L	1	09/05/2012 13:19	67978
1,2,4-Trimethylbenzene	ND		5.0	ug/L	1	09/05/2012 13:19	67978
sec-Butylbenzene	ND		5.0	ug/L	1	09/05/2012 13:19	67978
4-Isopropyltoluene	ND		5.0	ug/L	1	09/05/2012 13:19	67978
1,3-Dichlorobenzene	ND		5.0	ug/L	1	09/05/2012 13:19	67978
1,4-Dichlorobenzene	ND		5.0	ug/L	1	09/05/2012 13:19	67978
n-Butylbenzene	ND		5.0	ug/L	1	09/05/2012 13:19	67978
1,2-Dichlorobenzene	ND		5.0	ug/L	1	09/05/2012 13:19	67978
Naphthalene	ND		5.0	ug/L	1	09/05/2012 13:19	67978
2-Chloroethyl vinyl ether	ND		5.0	ug/L	1	09/05/2012 13:19	67978
Surrogate: Dibromofluoromethane	105		85-115	%REC	1	09/05/2012 13:19	67978
Surrogate: 1,2-Dichloroethane-d4	99.0		70-120	%REC	1	09/05/2012 13:19	67978
Surrogate: Toluene-d8	94.3		85-120	%REC	1	09/05/2012 13:19	67978
Surrogate: Bromofluorobenzene	95.0		75-120	%REC	1	09/05/2012 13:19	67978

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

09/05/2012

Client: Stantec Consulting

Client Sample ID: MW-3-W

Lab ID: L1835-02

Project: Genesee Street

Collection Date: 08/28/12 9:18

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							SW8260_W
Chloromethane	ND		5.0	ug/L	1	09/04/2012 18:11	67958
Vinyl chloride	ND		5.0	ug/L	1	09/04/2012 18:11	67958
Bromomethane	ND		5.0	ug/L	1	09/04/2012 18:11	67958
Chloroethane	ND		5.0	ug/L	1	09/04/2012 18:11	67958
Trichlorofluoromethane	ND		5.0	ug/L	1	09/04/2012 18:11	67958
1,1-Dichloroethene	ND		5.0	ug/L	1	09/04/2012 18:11	67958
Acetone	ND		5.0	ug/L	1	09/04/2012 18:11	67958
Carbon disulfide	ND		5.0	ug/L	1	09/04/2012 18:11	67958
Methylene chloride	ND		5.0	ug/L	1	09/04/2012 18:11	67958
trans-1,2-Dichloroethene	ND		5.0	ug/L	1	09/04/2012 18:11	67958
Methyl tert-butyl ether	ND		5.0	ug/L	1	09/04/2012 18:11	67958
1,1-Dichloroethane	ND		5.0	ug/L	1	09/04/2012 18:11	67958
Vinyl acetate	ND		5.0	ug/L	1	09/04/2012 18:11	67958
2-Butanone	ND		5.0	ug/L	1	09/04/2012 18:11	67958
cis-1,2-Dichloroethene	ND		5.0	ug/L	1	09/04/2012 18:11	67958
Chloroform	ND		5.0	ug/L	1	09/04/2012 18:11	67958
1,1,1-Trichloroethane	ND		5.0	ug/L	1	09/04/2012 18:11	67958
Carbon tetrachloride	ND		5.0	ug/L	1	09/04/2012 18:11	67958
1,2-Dichloroethane	ND		5.0	ug/L	1	09/04/2012 18:11	67958
Benzene	1.9 J		5.0	ug/L	1	09/04/2012 18:11	67958
Trichloroethene	ND		5.0	ug/L	1	09/04/2012 18:11	67958
1,2-Dichloropropane	ND		5.0	ug/L	1	09/04/2012 18:11	67958
Bromodichloromethane	ND		5.0	ug/L	1	09/04/2012 18:11	67958
cis-1,3-Dichloropropene	ND		5.0	ug/L	1	09/04/2012 18:11	67958
4-Methyl-2-pentanone	ND		5.0	ug/L	1	09/04/2012 18:11	67958
Toluene	1.4 J		5.0	ug/L	1	09/04/2012 18:11	67958
trans-1,3-Dichloropropene	ND		5.0	ug/L	1	09/04/2012 18:11	67958
1,1,2-Trichloroethane	ND		5.0	ug/L	1	09/04/2012 18:11	67958
Tetrachloroethene	ND		5.0	ug/L	1	09/04/2012 18:11	67958
2-Hexanone	ND		5.0	ug/L	1	09/04/2012 18:11	67958
Dibromochloromethane	ND		5.0	ug/L	1	09/04/2012 18:11	67958
Chlorobenzene	ND		5.0	ug/L	1	09/04/2012 18:11	67958
Ethylbenzene	71		5.0	ug/L	1	09/04/2012 18:11	67958
m,p-Xylene	90		5.0	ug/L	1	09/04/2012 18:11	67958
o-Xylene	2.6 J		5.0	ug/L	1	09/04/2012 18:11	67958
Styrene	ND		5.0	ug/L	1	09/04/2012 18:11	67958
Bromoform	ND		5.0	ug/L	1	09/04/2012 18:11	67958
Isopropylbenzene	14		5.0	ug/L	1	09/04/2012 18:11	67958
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L	1	09/04/2012 18:11	67958

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

09/05/2012

Client: Stantec Consulting

Client Sample ID: MW-3-W

Lab ID: L1835-02

Project: Genesee Street

Collection Date: 08/28/12 9:18

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							
n-Propylbenzene	13		5.0	ug/L	1	09/04/2012 18:11	67958
1,3,5-Trimethylbenzene	15		5.0	ug/L	1	09/04/2012 18:11	67958
tert-Butylbenzene	ND		5.0	ug/L	1	09/04/2012 18:11	67958
1,2,4-Trimethylbenzene	95		5.0	ug/L	1	09/04/2012 18:11	67958
sec-Butylbenzene	3.1 J		5.0	ug/L	1	09/04/2012 18:11	67958
4-Isopropyltoluene	ND		5.0	ug/L	1	09/04/2012 18:11	67958
1,3-Dichlorobenzene	ND		5.0	ug/L	1	09/04/2012 18:11	67958
1,4-Dichlorobenzene	ND		5.0	ug/L	1	09/04/2012 18:11	67958
n-Butylbenzene	2.1 J		5.0	ug/L	1	09/04/2012 18:11	67958
1,2-Dichlorobenzene	ND		5.0	ug/L	1	09/04/2012 18:11	67958
Naphthalene	8.8		5.0	ug/L	1	09/04/2012 18:11	67958
2-Chloroethyl vinyl ether	ND		5.0	ug/L	1	09/04/2012 18:11	67958
Surrogate: Dibromofluoromethane	102		85-115	%REC	1	09/04/2012 18:11	67958
Surrogate: 1,2-Dichloroethane-d4	96.8		70-120	%REC	1	09/04/2012 18:11	67958
Surrogate: Toluene-d8	95.2		85-120	%REC	1	09/04/2012 18:11	67958
Surrogate: Bromofluorobenzene	96.1		75-120	%REC	1	09/04/2012 18:11	67958
Benzene, 1,2,3,4-tetramethyl-	23	JN		ug/L	1	09/04/2012 18:11	67958
Benzene, 1-ethyl-2-methyl-	33	JN		ug/L	1	09/04/2012 18:11	67958
Benzene, 1-ethyl-3-methyl-	24	JN		ug/L	1	09/04/2012 18:11	67958
Benzene, 1-ethyl-4-methyl-	30	JN		ug/L	1	09/04/2012 18:11	67958
Cyclohexane, 1,3-dimethyl-, cis-	23	JN		ug/L	1	09/04/2012 18:11	67958
Cyclopentane, 1,2-dimethyl-, trans-	20	JN		ug/L	1	09/04/2012 18:11	67958
Cyclopentane, methyl-	50	JN		ug/L	1	09/04/2012 18:11	67958
Indane	20	JN		ug/L	1	09/04/2012 18:11	67958
Unknown	32	J		ug/L	1	09/04/2012 18:11	67958
Cyclohexane	62	JN		ug/L	1	09/04/2012 18:11	67958

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

09/05/2012

Client: Stantec Consulting

Client Sample ID: MW-7-W

Lab ID: L1835-03

Project: Genesee Street

Collection Date: 08/28/12 12:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							
Chloromethane	ND		5.0	ug/L	1	09/04/2012 18:35	67958
Vinyl chloride	ND		5.0	ug/L	1	09/04/2012 18:35	67958
Bromomethane	ND		5.0	ug/L	1	09/04/2012 18:35	67958
Chloroethane	ND		5.0	ug/L	1	09/04/2012 18:35	67958
Trichlorofluoromethane	ND		5.0	ug/L	1	09/04/2012 18:35	67958
1,1-Dichloroethene	ND		5.0	ug/L	1	09/04/2012 18:35	67958
Acetone	ND		5.0	ug/L	1	09/04/2012 18:35	67958
Carbon disulfide	ND		5.0	ug/L	1	09/04/2012 18:35	67958
Methylene chloride	ND		5.0	ug/L	1	09/04/2012 18:35	67958
trans-1,2-Dichloroethene	ND		5.0	ug/L	1	09/04/2012 18:35	67958
Methyl tert-butyl ether	ND		5.0	ug/L	1	09/04/2012 18:35	67958
1,1-Dichloroethane	ND		5.0	ug/L	1	09/04/2012 18:35	67958
Vinyl acetate	ND		5.0	ug/L	1	09/04/2012 18:35	67958
2-Butanone	ND		5.0	ug/L	1	09/04/2012 18:35	67958
cis-1,2-Dichloroethene	ND		5.0	ug/L	1	09/04/2012 18:35	67958
Chloroform	ND		5.0	ug/L	1	09/04/2012 18:35	67958
1,1,1-Trichloroethane	ND		5.0	ug/L	1	09/04/2012 18:35	67958
Carbon tetrachloride	ND		5.0	ug/L	1	09/04/2012 18:35	67958
1,2-Dichloroethane	ND		5.0	ug/L	1	09/04/2012 18:35	67958
Benzene	ND		5.0	ug/L	1	09/04/2012 18:35	67958
Trichloroethene	ND		5.0	ug/L	1	09/04/2012 18:35	67958
1,2-Dichloropropane	ND		5.0	ug/L	1	09/04/2012 18:35	67958
Bromodichloromethane	ND		5.0	ug/L	1	09/04/2012 18:35	67958
cis-1,3-Dichloropropene	ND		5.0	ug/L	1	09/04/2012 18:35	67958
4-Methyl-2-pentanone	ND		5.0	ug/L	1	09/04/2012 18:35	67958
Toluene	ND		5.0	ug/L	1	09/04/2012 18:35	67958
trans-1,3-Dichloropropene	ND		5.0	ug/L	1	09/04/2012 18:35	67958
1,1,2-Trichloroethane	ND		5.0	ug/L	1	09/04/2012 18:35	67958
Tetrachloroethene	ND		5.0	ug/L	1	09/04/2012 18:35	67958
2-Hexanone	ND		5.0	ug/L	1	09/04/2012 18:35	67958
Dibromochloromethane	ND		5.0	ug/L	1	09/04/2012 18:35	67958
Chlorobenzene	ND		5.0	ug/L	1	09/04/2012 18:35	67958
Ethylbenzene	ND		5.0	ug/L	1	09/04/2012 18:35	67958
m,p-Xylene	ND		5.0	ug/L	1	09/04/2012 18:35	67958
o-Xylene	ND		5.0	ug/L	1	09/04/2012 18:35	67958
Styrene	ND		5.0	ug/L	1	09/04/2012 18:35	67958
Bromoform	ND		5.0	ug/L	1	09/04/2012 18:35	67958
Isopropylbenzene	ND		5.0	ug/L	1	09/04/2012 18:35	67958
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L	1	09/04/2012 18:35	67958

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

09/05/2012

Client: Stantec Consulting

Client Sample ID: MW-7-W

Lab ID: L1835-03

Project: Genesee Street

Collection Date: 08/28/12 12:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							
n-Propylbenzene	ND		5.0	ug/L	1	09/04/2012 18:35	67958
1,3,5-Trimethylbenzene	ND		5.0	ug/L	1	09/04/2012 18:35	67958
tert-Butylbenzene	ND		5.0	ug/L	1	09/04/2012 18:35	67958
1,2,4-Trimethylbenzene	0.60	J	5.0	ug/L	1	09/04/2012 18:35	67958
sec-Butylbenzene	ND		5.0	ug/L	1	09/04/2012 18:35	67958
4-Isopropyltoluene	ND		5.0	ug/L	1	09/04/2012 18:35	67958
1,3-Dichlorobenzene	ND		5.0	ug/L	1	09/04/2012 18:35	67958
1,4-Dichlorobenzene	ND		5.0	ug/L	1	09/04/2012 18:35	67958
n-Butylbenzene	ND		5.0	ug/L	1	09/04/2012 18:35	67958
1,2-Dichlorobenzene	ND		5.0	ug/L	1	09/04/2012 18:35	67958
Naphthalene	ND		5.0	ug/L	1	09/04/2012 18:35	67958
2-Chloroethyl vinyl ether	ND		5.0	ug/L	1	09/04/2012 18:35	67958
Surrogate: Dibromofluoromethane	104		85-115	%REC	1	09/04/2012 18:35	67958
Surrogate: 1,2-Dichloroethane-d4	102		70-120	%REC	1	09/04/2012 18:35	67958
Surrogate: Toluene-d8	94.6		85-120	%REC	1	09/04/2012 18:35	67958
Surrogate: Bromofluorobenzene	95.3		75-120	%REC	1	09/04/2012 18:35	67958

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

09/05/2012

Client: Stantec Consulting

Client Sample ID: MW-18-W

Lab ID: L1835-04

Project: Genesee Street

Collection Date: 08/28/12 15:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							
Chloromethane	ND		5.0	ug/L	1	09/04/2012 18:58	67958
Vinyl chloride	ND		5.0	ug/L	1	09/04/2012 18:58	67958
Bromomethane	ND		5.0	ug/L	1	09/04/2012 18:58	67958
Chloroethane	ND		5.0	ug/L	1	09/04/2012 18:58	67958
Trichlorofluoromethane	ND		5.0	ug/L	1	09/04/2012 18:58	67958
1,1-Dichloroethene	ND		5.0	ug/L	1	09/04/2012 18:58	67958
Acetone	ND		5.0	ug/L	1	09/04/2012 18:58	67958
Carbon disulfide	ND		5.0	ug/L	1	09/04/2012 18:58	67958
Methylene chloride	ND		5.0	ug/L	1	09/04/2012 18:58	67958
trans-1,2-Dichloroethene	ND		5.0	ug/L	1	09/04/2012 18:58	67958
Methyl tert-butyl ether	ND		5.0	ug/L	1	09/04/2012 18:58	67958
1,1-Dichloroethane	ND		5.0	ug/L	1	09/04/2012 18:58	67958
Vinyl acetate	ND		5.0	ug/L	1	09/04/2012 18:58	67958
2-Butanone	ND		5.0	ug/L	1	09/04/2012 18:58	67958
cis-1,2-Dichloroethene	ND		5.0	ug/L	1	09/04/2012 18:58	67958
Chloroform	ND		5.0	ug/L	1	09/04/2012 18:58	67958
1,1,1-Trichloroethane	ND		5.0	ug/L	1	09/04/2012 18:58	67958
Carbon tetrachloride	ND		5.0	ug/L	1	09/04/2012 18:58	67958
1,2-Dichloroethane	ND		5.0	ug/L	1	09/04/2012 18:58	67958
Benzene	ND		5.0	ug/L	1	09/04/2012 18:58	67958
Trichloroethene	ND		5.0	ug/L	1	09/04/2012 18:58	67958
1,2-Dichloropropane	ND		5.0	ug/L	1	09/04/2012 18:58	67958
Bromodichloromethane	ND		5.0	ug/L	1	09/04/2012 18:58	67958
cis-1,3-Dichloropropene	ND		5.0	ug/L	1	09/04/2012 18:58	67958
4-Methyl-2-pentanone	ND		5.0	ug/L	1	09/04/2012 18:58	67958
Toluene	ND		5.0	ug/L	1	09/04/2012 18:58	67958
trans-1,3-Dichloropropene	ND		5.0	ug/L	1	09/04/2012 18:58	67958
1,1,2-Trichloroethane	ND		5.0	ug/L	1	09/04/2012 18:58	67958
Tetrachloroethene	ND		5.0	ug/L	1	09/04/2012 18:58	67958
2-Hexanone	ND		5.0	ug/L	1	09/04/2012 18:58	67958
Dibromochloromethane	ND		5.0	ug/L	1	09/04/2012 18:58	67958
Chlorobenzene	ND		5.0	ug/L	1	09/04/2012 18:58	67958
Ethylbenzene	ND		5.0	ug/L	1	09/04/2012 18:58	67958
m,p-Xylene	ND		5.0	ug/L	1	09/04/2012 18:58	67958
o-Xylene	ND		5.0	ug/L	1	09/04/2012 18:58	67958
Styrene	ND		5.0	ug/L	1	09/04/2012 18:58	67958
Bromoform	ND		5.0	ug/L	1	09/04/2012 18:58	67958
Isopropylbenzene	ND		5.0	ug/L	1	09/04/2012 18:58	67958
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L	1	09/04/2012 18:58	67958

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

09/05/2012

Client: Stantec Consulting

Client Sample ID: MW-18-W

Lab ID: L1835-04

Project: Genesee Street

Collection Date: 08/28/12 15:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							
n-Propylbenzene	ND		5.0	ug/L	1	09/04/2012 18:58	67958
1,3,5-Trimethylbenzene	ND		5.0	ug/L	1	09/04/2012 18:58	67958
tert-Butylbenzene	ND		5.0	ug/L	1	09/04/2012 18:58	67958
1,2,4-Trimethylbenzene	ND		5.0	ug/L	1	09/04/2012 18:58	67958
sec-Butylbenzene	ND		5.0	ug/L	1	09/04/2012 18:58	67958
4-Isopropyltoluene	ND		5.0	ug/L	1	09/04/2012 18:58	67958
1,3-Dichlorobenzene	ND		5.0	ug/L	1	09/04/2012 18:58	67958
1,4-Dichlorobenzene	ND		5.0	ug/L	1	09/04/2012 18:58	67958
n-Butylbenzene	ND		5.0	ug/L	1	09/04/2012 18:58	67958
1,2-Dichlorobenzene	ND		5.0	ug/L	1	09/04/2012 18:58	67958
Naphthalene	ND		5.0	ug/L	1	09/04/2012 18:58	67958
2-Chloroethyl vinyl ether	ND		5.0	ug/L	1	09/04/2012 18:58	67958
Surrogate: Dibromofluoromethane	100		85-115	%REC	1	09/04/2012 18:58	67958
Surrogate: 1,2-Dichloroethane-d4	98.8		70-120	%REC	1	09/04/2012 18:58	67958
Surrogate: Toluene-d8	94.8		85-120	%REC	1	09/04/2012 18:58	67958
Surrogate: Bromofluorobenzene	93.2		75-120	%REC	1	09/04/2012 18:58	67958

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

09/05/2012

Client: Stantec Consulting

Client Sample ID: MW-14-W

Lab ID: L1835-05

Project: Genesee Street

Collection Date: 08/28/12 13:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							
Chloromethane	ND		5.0	ug/L	1	09/04/2012 19:22	67958
Vinyl chloride	ND		5.0	ug/L	1	09/04/2012 19:22	67958
Bromomethane	ND		5.0	ug/L	1	09/04/2012 19:22	67958
Chloroethane	ND		5.0	ug/L	1	09/04/2012 19:22	67958
Trichlorofluoromethane	ND		5.0	ug/L	1	09/04/2012 19:22	67958
1,1-Dichloroethene	ND		5.0	ug/L	1	09/04/2012 19:22	67958
Acetone	ND		5.0	ug/L	1	09/04/2012 19:22	67958
Carbon disulfide	ND		5.0	ug/L	1	09/04/2012 19:22	67958
Methylene chloride	ND		5.0	ug/L	1	09/04/2012 19:22	67958
trans-1,2-Dichloroethene	ND		5.0	ug/L	1	09/04/2012 19:22	67958
Methyl tert-butyl ether	ND		5.0	ug/L	1	09/04/2012 19:22	67958
1,1-Dichloroethane	ND		5.0	ug/L	1	09/04/2012 19:22	67958
Vinyl acetate	ND		5.0	ug/L	1	09/04/2012 19:22	67958
2-Butanone	ND		5.0	ug/L	1	09/04/2012 19:22	67958
cis-1,2-Dichloroethene	ND		5.0	ug/L	1	09/04/2012 19:22	67958
Chloroform	ND		5.0	ug/L	1	09/04/2012 19:22	67958
1,1,1-Trichloroethane	ND		5.0	ug/L	1	09/04/2012 19:22	67958
Carbon tetrachloride	ND		5.0	ug/L	1	09/04/2012 19:22	67958
1,2-Dichloroethane	ND		5.0	ug/L	1	09/04/2012 19:22	67958
Benzene	0.77	J	5.0	ug/L	1	09/04/2012 19:22	67958
Trichloroethene	ND		5.0	ug/L	1	09/04/2012 19:22	67958
1,2-Dichloropropane	ND		5.0	ug/L	1	09/04/2012 19:22	67958
Bromodichloromethane	ND		5.0	ug/L	1	09/04/2012 19:22	67958
cis-1,3-Dichloropropene	ND		5.0	ug/L	1	09/04/2012 19:22	67958
4-Methyl-2-pentanone	ND		5.0	ug/L	1	09/04/2012 19:22	67958
Toluene	0.78	J	5.0	ug/L	1	09/04/2012 19:22	67958
trans-1,3-Dichloropropene	ND		5.0	ug/L	1	09/04/2012 19:22	67958
1,1,2-Trichloroethane	ND		5.0	ug/L	1	09/04/2012 19:22	67958
Tetrachloroethene	ND		5.0	ug/L	1	09/04/2012 19:22	67958
2-Hexanone	ND		5.0	ug/L	1	09/04/2012 19:22	67958
Dibromochloromethane	ND		5.0	ug/L	1	09/04/2012 19:22	67958
Chlorobenzene	ND		5.0	ug/L	1	09/04/2012 19:22	67958
Ethylbenzene	3.4	J	5.0	ug/L	1	09/04/2012 19:22	67958
m,p-Xylene	5.4		5.0	ug/L	1	09/04/2012 19:22	67958
o-Xylene	0.65	J	5.0	ug/L	1	09/04/2012 19:22	67958
Styrene	ND		5.0	ug/L	1	09/04/2012 19:22	67958
Bromoform	ND		5.0	ug/L	1	09/04/2012 19:22	67958
Isopropylbenzene	9.6		5.0	ug/L	1	09/04/2012 19:22	67958
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L	1	09/04/2012 19:22	67958

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

09/05/2012

Client: Stantec Consulting

Client Sample ID: MW-14-W

Lab ID: L1835-05

Project: Genesee Street

Collection Date: 08/28/12 13:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							
n-Propylbenzene	11		5.0	ug/L	1	09/04/2012 19:22	67958
1,3,5-Trimethylbenzene	2.1	J	5.0	ug/L	1	09/04/2012 19:22	67958
tert-Butylbenzene	ND		5.0	ug/L	1	09/04/2012 19:22	67958
1,2,4-Trimethylbenzene	22		5.0	ug/L	1	09/04/2012 19:22	67958
sec-Butylbenzene	2.7	J	5.0	ug/L	1	09/04/2012 19:22	67958
4-Isopropyltoluene	ND		5.0	ug/L	1	09/04/2012 19:22	67958
1,3-Dichlorobenzene	ND		5.0	ug/L	1	09/04/2012 19:22	67958
1,4-Dichlorobenzene	ND		5.0	ug/L	1	09/04/2012 19:22	67958
n-Butylbenzene	1.5	J	5.0	ug/L	1	09/04/2012 19:22	67958
1,2-Dichlorobenzene	ND		5.0	ug/L	1	09/04/2012 19:22	67958
Naphthalene	2.2	J	5.0	ug/L	1	09/04/2012 19:22	67958
2-Chloroethyl vinyl ether	ND		5.0	ug/L	1	09/04/2012 19:22	67958
Surrogate: Dibromofluoromethane	100		85-115	%REC	1	09/04/2012 19:22	67958
Surrogate: 1,2-Dichloroethane-d4	98.7		70-120	%REC	1	09/04/2012 19:22	67958
Surrogate: Toluene-d8	94.8		85-120	%REC	1	09/04/2012 19:22	67958
Surrogate: Bromofluorobenzene	96.1		75-120	%REC	1	09/04/2012 19:22	67958
Benzene, 1,2,3-trimethyl-	15	JN		ug/L	1	09/04/2012 19:22	67958
Benzene, 1-ethenyl-3-ethyl-	23	JN		ug/L	1	09/04/2012 19:22	67958
Benzene, 1-ethenyl-4-ethyl-	22	JN		ug/L	1	09/04/2012 19:22	67958
Benzene, 1-ethyl-2-methyl-	16	JN		ug/L	1	09/04/2012 19:22	67958
Cyclopentane, 1,2-dimethyl-, trans-	19	JN		ug/L	1	09/04/2012 19:22	67958
Cyclopentane, methyl-	22	JN		ug/L	1	09/04/2012 19:22	67958
Pentane, 3-methyl-	32	JN		ug/L	1	09/04/2012 19:22	67958
Unknown (2.25295)	41	J		ug/L	1	09/04/2012 19:22	67958
Unknown (4.92717)	25	J		ug/L	1	09/04/2012 19:22	67958
Unknown (4.97450)	21	J		ug/L	1	09/04/2012 19:22	67958

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

09/05/2012

Client: Stantec Consulting

Client Sample ID: TB-082812

Lab ID: L1835-06

Project: Genesee Street

Collection Date: 08/28/12 8:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							SW8260_W
Chloromethane	ND		5.0	ug/L	1	09/04/2012 12:41	67958
Vinyl chloride	ND		5.0	ug/L	1	09/04/2012 12:41	67958
Bromomethane	ND		5.0	ug/L	1	09/04/2012 12:41	67958
Chloroethane	ND		5.0	ug/L	1	09/04/2012 12:41	67958
Trichlorofluoromethane	ND		5.0	ug/L	1	09/04/2012 12:41	67958
1,1-Dichloroethene	ND		5.0	ug/L	1	09/04/2012 12:41	67958
Acetone	ND		5.0	ug/L	1	09/04/2012 12:41	67958
Carbon disulfide	ND		5.0	ug/L	1	09/04/2012 12:41	67958
Methylene chloride	ND		5.0	ug/L	1	09/04/2012 12:41	67958
trans-1,2-Dichloroethene	ND		5.0	ug/L	1	09/04/2012 12:41	67958
Methyl tert-butyl ether	ND		5.0	ug/L	1	09/04/2012 12:41	67958
1,1-Dichloroethane	ND		5.0	ug/L	1	09/04/2012 12:41	67958
Vinyl acetate	ND		5.0	ug/L	1	09/04/2012 12:41	67958
2-Butanone	ND		5.0	ug/L	1	09/04/2012 12:41	67958
cis-1,2-Dichloroethene	ND		5.0	ug/L	1	09/04/2012 12:41	67958
Chloroform	ND		5.0	ug/L	1	09/04/2012 12:41	67958
1,1,1-Trichloroethane	ND		5.0	ug/L	1	09/04/2012 12:41	67958
Carbon tetrachloride	ND		5.0	ug/L	1	09/04/2012 12:41	67958
1,2-Dichloroethane	ND		5.0	ug/L	1	09/04/2012 12:41	67958
Benzene	ND		5.0	ug/L	1	09/04/2012 12:41	67958
Trichloroethene	ND		5.0	ug/L	1	09/04/2012 12:41	67958
1,2-Dichloropropane	ND		5.0	ug/L	1	09/04/2012 12:41	67958
Bromodichloromethane	ND		5.0	ug/L	1	09/04/2012 12:41	67958
cis-1,3-Dichloropropene	ND		5.0	ug/L	1	09/04/2012 12:41	67958
4-Methyl-2-pentanone	ND		5.0	ug/L	1	09/04/2012 12:41	67958
Toluene	ND		5.0	ug/L	1	09/04/2012 12:41	67958
trans-1,3-Dichloropropene	ND		5.0	ug/L	1	09/04/2012 12:41	67958
1,1,2-Trichloroethane	ND		5.0	ug/L	1	09/04/2012 12:41	67958
Tetrachloroethene	ND		5.0	ug/L	1	09/04/2012 12:41	67958
2-Hexanone	ND		5.0	ug/L	1	09/04/2012 12:41	67958
Dibromochloromethane	ND		5.0	ug/L	1	09/04/2012 12:41	67958
Chlorobenzene	ND		5.0	ug/L	1	09/04/2012 12:41	67958
Ethylbenzene	ND		5.0	ug/L	1	09/04/2012 12:41	67958
m,p-Xylene	ND		5.0	ug/L	1	09/04/2012 12:41	67958
o-Xylene	ND		5.0	ug/L	1	09/04/2012 12:41	67958
Styrene	ND		5.0	ug/L	1	09/04/2012 12:41	67958
Bromoform	ND		5.0	ug/L	1	09/04/2012 12:41	67958
Isopropylbenzene	ND		5.0	ug/L	1	09/04/2012 12:41	67958
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L	1	09/04/2012 12:41	67958

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

09/05/2012

Client: Stantec Consulting

Client Sample ID: TB-082812

Lab ID: L1835-06

Project: Genesee Street

Collection Date: 08/28/12 8:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							
n-Propylbenzene	ND		5.0	ug/L	1	09/04/2012 12:41	67958
1,3,5-Trimethylbenzene	ND		5.0	ug/L	1	09/04/2012 12:41	67958
tert-Butylbenzene	ND		5.0	ug/L	1	09/04/2012 12:41	67958
1,2,4-Trimethylbenzene	ND		5.0	ug/L	1	09/04/2012 12:41	67958
sec-Butylbenzene	ND		5.0	ug/L	1	09/04/2012 12:41	67958
4-Isopropyltoluene	ND		5.0	ug/L	1	09/04/2012 12:41	67958
1,3-Dichlorobenzene	ND		5.0	ug/L	1	09/04/2012 12:41	67958
1,4-Dichlorobenzene	ND		5.0	ug/L	1	09/04/2012 12:41	67958
n-Butylbenzene	ND		5.0	ug/L	1	09/04/2012 12:41	67958
1,2-Dichlorobenzene	ND		5.0	ug/L	1	09/04/2012 12:41	67958
Naphthalene	ND		5.0	ug/L	1	09/04/2012 12:41	67958
2-Chloroethyl vinyl ether	ND		5.0	ug/L	1	09/04/2012 12:41	67958
Surrogate: Dibromofluoromethane	102		85-115	%REC	1	09/04/2012 12:41	67958
Surrogate: 1,2-Dichloroethane-d4	100		70-120	%REC	1	09/04/2012 12:41	67958
Surrogate: Toluene-d8	95.2		85-120	%REC	1	09/04/2012 12:41	67958
Surrogate: Bromofluorobenzene	92.4		75-120	%REC	1	09/04/2012 12:41	67958

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

CLIENT: Stanton Consulting
Work Order: L1835
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT

SW8260_W
SW846 8260C .. VOC by GC-MS

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD	RPD Limit	%RPD	Ref Val	Qual
									Prep Date:	09/04/12 10:20	Run ID:	V6_120904A	
Sample ID:	MB-67958	SampType: MBLK	Batch ID:	67958	TestCode: SW8260_W	Analysis Date	09/04/12 12:13	SeqNo:	1789092				
Client ID:	MB-67958	Units: ug/L											
Chloromethane	ND	0.26		1.0									
Vinyl chloride	ND	0.50		1.0									
Bromomethane	ND	0.80		1.0									
Chloroethane	ND	0.48		1.0									
Trichlorofluoromethane	ND	0.54		1.0									
1,1-Dichloroethene	ND	0.39		1.0									
Acetone	ND	2.2		5.0									
Carbon disulfide	ND	0.34		1.0									
Methylene chloride	ND	0.41		1.0									
trans-1,2-Dichloroethene	ND	0.65		1.0									
Methyl tert-butyl ether	ND	0.24		1.0									
1,1-Dichloroethane	ND	0.25		1.0									
Vinyl acetate	ND	0.35		1.0									
2-Butanone	ND	2.1		5.0									
cis-1,2-Dichloroethene	ND	0.48		1.0									
Chloroform	ND	0.33		1.0									
1,1,1-Trichloroethane	ND	0.50		1.0									
Carbon tetrachloride	ND	0.54		1.0									
1,2-Dichloroethane	ND	0.41		1.0									
Benzene	ND	0.33		1.0									
Trichloroethene	ND	0.36		1.0									
1,2-Dichloropropane	ND	0.61		1.0									
Bromodichloromethane	ND	0.26		1.0									
cis-1,3-Dichloropropene	ND	0.45		1.0									
4-Methyl-2-pentanone	ND	0.82		5.0									
Toluene	ND	0.32		1.0									
trans-1,3-Dichloropropene	ND	0.48		1.0									
1,1,2-Trichloroethane	ND	0.38		1.0									
Tetrachloroethene	ND	0.65		1.0									
2-Hexanone	ND	1.7		5.0									
Dibromochloromethane	ND	0.57		1.0									
Chlorobenzene	ND	0.26		1.0									
Ethylbenzene	ND	0.35		1.0									
m,p-Xylene	ND	0.77		1.0									
o-Xylene	ND	0.36		1.0									
Styrene	ND	0.50		1.0									
Bromoform	ND	0.77		1.0									

Qualifiers: ND - Not Detected at the MDL

S - Recovery outside accepted recovery limits

MDL - Method Detection Limit

B - Analyte detected in the associated Method Blan]

mm1.12.11A

J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

RL - Reporting Limit

CLIENT: Stantec Consulting
Work Order: L1835
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT

SW8260_W
SW846 8260C .. VOC by GC-MS

Sample ID: MB-67958	SampType: MBLK	TestCode: SW8260_W	Prep Date: 09/04/12 10:20	Run ID: V6_120904A							
Client ID: MB-67958	Batch ID: 67958	Units: ug/L	Analysis Date 09/04/12 12:13	SeqNo: 1789092							
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC	Low Limit	High limit	RPD Ref Val	%RPD	RPD Limit	Qual
Isopropylbenzene	ND	0.38	1.0								
1,1,2,2-Tetrachloroethane	ND	0.42	1.0								
n-Propylbenzene	ND	0.64	1.0								
1,3,5-Trimethylbenzene	ND	0.45	1.0								
tert-Butylbenzene	ND	0.37	1.0								
1,2,4-Trimethylbenzene	ND	0.40	1.0								
sec-Butylbenzene	ND	0.28	1.0								
4-Isopropyltoluene	ND	0.46	1.0								
1,3-Dichlorobenzene	ND	0.29	1.0								
1,4-Dichlorobenzene	ND	0.40	1.0								
n-Butylbenzene	ND	0.33	1.0								
1,2-Dichlorobenzene	ND	0.33	1.0								
Naphthalene	ND	0.80	1.0								
2-Chloroethyl vinyl ether	ND	0.24	5.0								
Surrogate:	52.15	5.0	50.00	0	104	85	115	0			
Dibromofluoromethane	47.93	5.0	50.00	0	95.9	70	120	0			
Surrogate: 1,2-Dichloroethane-d4	47.97	5.0	50.00	0	95.9	85	120	0			
Surrogate: Toluene-d8	46.70	5.0	50.00	0	93.4	75	120	0			
Bromofluorobenzene											

Qualifiers: ND - Not Detected at the MDL

S - Recovery outside accepted recovery limits

MDL - Method Detection Limit

B - Analyte detected in the associated Method Blan]

mm1.12.11A

J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

RL - Reporting Limit

CLIENT: Stantec Consulting
Work Order: L1835
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT

SW8260_W
SW846 8260C .. VOC by GC-MS

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	Prep Date:	09/05/12 10:37	Run ID:	V6_120905A
									Analysis Date	09/05/12 12:30	SeqNo:	1789422
Chloromethane	ND	0.26		5.0								
Vinyl chloride	ND	0.50		5.0								
Bromomethane	ND	0.80		5.0								
Chloroethane	ND	0.48		5.0								
Trichlorofluoromethane	ND	0.54		5.0								
1,1-Dichloroethene	ND	0.39		5.0								
Acetone	ND	2.2		5.0								
Carbon disulfide	ND	0.34		5.0								
Methylene chloride	ND	0.41		5.0								
trans-1,2-Dichloroethene	ND	0.65		5.0								
Methyl tert-butyl ether	ND	0.24		5.0								
1,1-Dichloroethane	ND	0.25		5.0								
Vinyl acetate	ND	0.35		5.0								
2-Butanone	ND	2.1		5.0								
cis-1,2-Dichloroethene	ND	0.48		5.0								
Chloroform	ND	0.33		5.0								
1,1,1-Trichloroethane	ND	0.50		5.0								
Carbon tetrachloride	ND	0.54		5.0								
1,2-Dichloroethane	ND	0.41		5.0								
Benzene	ND	0.33		5.0								
Trichloroethene	ND	0.36		5.0								
1,2-Dichloropropane	ND	0.61		5.0								
Bromodichloromethane	ND	0.26		5.0								
cis-1,3-Dichloropropene	ND	0.45		5.0								
4-Methyl-2-pentanone	ND	0.82		5.0								
Toluene	ND	0.32		5.0								
trans-1,3-Dichloropropene	ND	0.48		5.0								
1,1,2-Trichloroethane	ND	0.38		5.0								
Tetrachloroethene	ND	0.65		5.0								
2-Hexanone	ND	1.7		5.0								
Dibromochloromethane	ND	0.57		5.0								
Chlorobenzene	ND	0.26		5.0								
Ethylbenzene	ND	0.35		5.0								
m,p-Xylene	ND	0.77		5.0								
o-Xylene	ND	0.36		5.0								
Styrene	ND	0.50		5.0								
Bromoform	ND	0.77		5.0								
Isopropylbenzene	ND	0.38		5.0								
1,1,2,2-Tetrachloroethane	ND	0.42		5.0								

Qualifiers: ND - Not Detected at the MDL

S - Recovery outside accepted recovery limits

MDL - Method Detection Limit

RL - Reporting Limit

B - Analyte detected in the associated Method Blan]

CLIENT: Stantec Consulting
Work Order: L1835
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT

SW8260_W
SW846 8260C .. VOC by GC-MS

Sample ID:	MB-67978	SampType:	MBLK	TestCode:	SW8260_W	Prep Date:	09/05/12 10:37	Run ID:	V6_120905A				
Client ID:	MB-67978	Batch ID:	67978	Units:	ug/L	Analysis Date	09/05/12 12:30	SeqNo:	1789422				
Analyte		Result	MDL	RL	SPK value	SPK Ref Val	%REC	Low Limit	High limit	RPD Ref Val	%RPD	RPD Limit	Qual
n-Propylbenzene	ND	0 . 64	5 . 0										
1,3,5-Trimethylbenzene	ND	0 . 45	5 . 0										
tert-Butylbenzene	ND	0 . 37	5 . 0										
1,2,4-Trimethylbenzene	ND	0 . 40	5 . 0										
sec-Butylbenzene	ND	0 . 28	5 . 0										
4-Isopropyltoluene	ND	0 . 46	5 . 0										
1,3-Dichlorobenzene	ND	0 . 29	5 . 0										
1,4-Dichlorobenzene	ND	0 . 40	5 . 0										
n-Butylbenzene	ND	0 . 33	5 . 0										
1,2-Dichlorobenzene	ND	0 . 33	5 . 0										
Naphthalene	ND	0 . 80	5 . 0										
2-Chloroethyl vinyl ether	ND	0 . 24	5 . 0										
Surrogate:	51 . 78	5 . 0	50 . 00		0	104	85	115	0				
Dibromofluoromethane		5 . 0	50 . 00		0	98 . 0	70	120	0				
Surrogate: 1,2-Dichloroethane-d4	49 . 02												
Surrogate: Toluene-d8	47 . 23	5 . 0	50 . 00		0	94 . 5	85	120	0				
Surrogate:	47 . 82	5 . 0	50 . 00		0	95 . 6	75	120	0				
Bromofluorobenzene													

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits
mm1.12.11A J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits MDL - Method Detection Limit
J - Reporting Limit RL - Reporting Limit

B - Analyte detected in the associated Method Blan]

CLIENT: Stantec Consulting
Work Order: L1835
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT

SW8260_W
SW846 8260C .. VOC by GC-MS

Analyte	Result	MDL	RL	SPK value	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual	Prep Date: 09/04/12 10:20	Analysis Date 09/04/12 10:38	Run ID: V6_120904A	SeqNo: 1789083
												TestCode: SW8260_W	Units: ug/L	SPK Ref Val	
Chloromethane	56.28	0.26	5.0	50.00	0	11.3	40	12.5	0	0	0				
Vinyl chloride	53.42	0.50	5.0	50.00	0	10.7	50	14.5	0	0	0				
Bromomethane	51.66	0.80	5.0	50.00	0	10.3	30	14.5	0	0	0				
Chloroethane	54.38	0.48	5.0	50.00	0	10.9	60	13.5	0	0	0				
Trichlorofluoromethane	58.90	0.54	5.0	50.00	0	11.8	60	14.5	0	0	0				
1,1-Dichloroethene	62.93	0.39	5.0	50.00	0	12.6	70	13.0	0	0	0				
Acetone	55.57	2.2	5.0	50.00	0	11.1	40	14.0	0	0	0				
Carbon disulfide	53.40	0.34	5.0	50.00	0	10.7	35	16.0	0	0	0				
Methylene chloride	45.29	0.41	5.0	50.00	0	90.6	55	14.0	0	0	0				
trans-1,2-Dichloroethene	54.48	0.65	5.0	50.00	0	10.9	60	14.0	0	0	0				
Methyl tert-butyl ether	53.99	0.24	5.0	50.00	0	10.8	65	12.5	0	0	0				
1,1-Dichloroethane	55.56	0.25	5.0	50.00	0	11.1	70	13.5	0	0	0				
Vinyl acetate	54.93	0.35	5.0	50.00	0	11.0	38	16.3	0	0	0				
2-Butanone	57.22	2.1	5.0	50.00	0	11.4	30	15.0	0	0	0				
cis-1,2-Dichloroethene	57.53	0.48	5.0	50.00	0	11.5	70	12.5	0	0	0				
Chloroform	55.82	0.33	5.0	50.00	0	11.2	65	13.5	0	0	0				
1,1,1-Trichloroethane	52.81	0.50	5.0	50.00	0	10.6	65	13.0	0	0	0				
Carbon tetrachloride	54.66	0.54	5.0	50.00	0	10.9	65	14.0	0	0	0				
1,2-Dichloroethane	56.87	0.41	5.0	50.00	0	11.4	70	13.0	0	0	0				
Benzene	55.32	0.33	5.0	50.00	0	11.1	80	12.0	0	0	0				
Trichloroethene	52.76	0.36	5.0	50.00	0	10.6	70	12.5	0	0	0				
1,2-Dichloropropane	56.31	0.61	5.0	50.00	0	11.3	75	12.5	0	0	0				
Bromodichloromethane	56.00	0.26	5.0	50.00	0	11.2	75	12.0	0	0	0				
cis-1,3-Dichloropropene	57.87	0.45	5.0	50.00	0	11.6	70	13.0	0	0	0				
4-Methyl-2-pentanone	48.55	0.82	5.0	50.00	0	97.1	60	13.5	0	0	0				
Toluene	54.91	0.32	5.0	50.00	0	11.0	75	12.0	0	0	0				
trans-1,3-Dichloropropene	59.34	0.48	5.0	50.00	0	11.9	55	14.0	0	0	0				
1,1,2-Trichloroethane	54.75	0.38	5.0	50.00	0	11.0	75	12.5	0	0	0				
Tetrachloroethene	49.04	0.65	5.0	50.00	0	98.1	45	15.0	0	0	0				
2-Hexanone	48.66	1.7	5.0	50.00	0	97.3	55	13.0	0	0	0				
Dibromochloromethane	53.64	0.57	5.0	50.00	0	107	60	13.5	0	0	0				
Chlorobenzene	53.62	0.26	5.0	50.00	0	107	80	12.0	0	0	0				
Ethylbenzene	53.41	0.35	5.0	50.00	0	107	75	12.5	0	0	0				
m,p-Xylene	104.1	0.77	5.0	100.0	0	104	75	13.0	0	0	0				
o-Xylene	52.89	0.36	5.0	50.00	0	106	80	12.0	0	0	0				
Styrene	53.27	0.50	5.0	50.00	0	107	65	13.5	0	0	0				
Bromoform	52.97	0.77	5.0	50.00	0	106	70	13.0	0	0	0				
Isopropylbenzene	53.50	0.38	5.0	50.00	0	107	75	12.5	0	0	0				
1,1,2,2-Tetrachloroethane	51.56	0.42	5.0	50.00	0	103	65	13.0	0	0	0				

Qualifiers: ND - Not Detected at the MDL

S - Recovery outside accepted recovery limits

MDL - Method Detection Limit

RL - Reporting Limit

B - Analyte detected in the associated Method Blan

CLIENT: Stantec Consulting
Work Order: L1835
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT

SW8260_W
SW846 8260C .. VOC by GC-MS

Sample ID:	LCS-67958	SampType: LCS	TestCode: SW8260_W	Prep Date:	09/04/12 10:20	Run ID:	V6_120904A					
Client ID:	LCS-67958	Batch ID:	67958	Analysis Date	09/04/12 10:38	SeqNo:	1789083					
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPD Limit	Qual
n-Propylbenzene	50.74	0.64	5.0	50.00	0	101	70	130	0	0	0	
1,3,5-Trimethylbenzene	51.18	0.45	5.0	50.00	0	102	75	130	0	0	0	
tert-Butylbenzene	51.80	0.37	5.0	50.00	0	104	70	130	0	0	0	
1,2,4-Trimethylbenzene	51.22	0.40	5.0	50.00	0	102	75	130	0	0	0	
sec-Butylbenzene	51.44	0.28	5.0	50.00	0	103	70	125	0	0	0	
4-Isopropyltoluene	51.80	0.46	5.0	50.00	0	104	75	130	0	0	0	
1,3-Dichlorobenzene	51.80	0.29	5.0	50.00	0	104	75	125	0	0	0	
1,4-Dichlorobenzene	49.41	0.40	5.0	50.00	0	98.8	75	125	0	0	0	
n-Butylbenzene	53.60	0.33	5.0	50.00	0	107	70	135	0	0	0	
1,2-Dichlorobenzene	51.58	0.33	5.0	50.00	0	103	70	120	0	0	0	
Naphthalene	46.85	0.80	5.0	50.00	0	93.7	55	140	0	0	0	
2-Chloroethyl vinyl ether	58.65	0.24	5.0	50.00	0	117	0	169	0	0	0	
Surrogate:	51.41		5.0	50.00	0	103	85	115	0	0	0	
Dibromofluoromethane	53.31		5.0	50.00	0	107	70	120	0	0	0	
Surrogate: 1,2-Dichloroethane-d4	48.73	5.0	50.00	0	97.5	85	120	0	0	0	0	
Surrogate: Toluene-d8	49.29	5.0	50.00	0	98.6	75	120	0	0	0	0	
Surrogate: Bromofluorobenzene												

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits

mm1.12.11A J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

MDL - Method Detection Limit B - Analyte detected in the associated Method Blan]

CLIENT: Stantec Consulting
Work Order: L1835
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT

SW8260_W
SW846 8260C .. VOC by GC-MS

Analyte	Result	MDL	RL	SPK value	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual	Prep Date: 09/05/12 10:37	Analysis Date 09/05/12 10:38	Run ID: V6_120905A	SeqNo: 1789415
												TestCode: SW8260_W	Units: ug/L	SPK Ref Val	
Chloromethane	57.96	0.26	5.0	50.00	0	116	40	125	35	160	0				
Vinyl chloride	53.78	0.50	5.0	50.00	0	108	50	145	30	145	0				
Bromomethane	50.52	0.80	5.0	50.00	0	101	30	145	60	135	0				
Chloroethane	53.04	0.48	5.0	50.00	0	106	60	145	92.7	140	0				
Trichlorofluoromethane	58.57	0.54	5.0	50.00	0	117	60	145	60	130	0				
1,1-Dichloroethene	63.08	0.39	5.0	50.00	0	126	70	130	0	130	0				
Acetone	66.60	2.2	5.0	50.00	0	133	40	140	0	140	0				
Carbon disulfide	52.70	0.34	5.0	50.00	0	105	35	160	0	160	0				
Methylene chloride	46.37	0.41	5.0	50.00	0	109	60	140	0	140	0				
trans-1,2-Dichloroethene	54.58	0.65	5.0	50.00	0	117	30	150	0	140	0				
Methyl tert-butyl ether	56.24	0.24	5.0	50.00	0	112	65	125	0	125	0				
1,1-Dichloroethane	54.59	0.25	5.0	50.00	0	109	70	135	0	135	0				
Vinyl acetate	55.29	0.35	5.0	50.00	0	111	38	163	0	163	0				
2-Butanone	58.69	2.1	5.0	50.00	0	117	30	150	0	150	0				
cis-1,2-Dichloroethene	55.25	0.48	5.0	50.00	0	111	70	125	0	125	0				
Chloroform	54.59	0.33	5.0	50.00	0	109	65	135	0	135	0				
1,1,1-Trichloroethane	50.80	0.50	5.0	50.00	0	102	65	130	0	130	0				
Carbon tetrachloride	52.88	0.54	5.0	50.00	0	106	65	140	0	140	0				
1,2-Dichloroethane	54.94	0.41	5.0	50.00	0	110	70	130	0	130	0				
Benzene	54.85	0.33	5.0	50.00	0	110	80	120	0	120	0				
Trichloroethene	52.14	0.36	5.0	50.00	0	104	70	125	0	125	0				
1,2-Dichloropropane	55.87	0.61	5.0	50.00	0	112	75	125	0	125	0				
Bromodichloromethane	56.66	0.26	5.0	50.00	0	113	75	120	0	120	0				
cis-1,3-Dichloropropene	56.64	0.45	5.0	50.00	0	113	70	130	0	130	0				
4-Methyl-2-pentanone	53.09	0.82	5.0	50.00	0	106	60	135	0	135	0				
Toluene	54.98	0.32	5.0	50.00	0	110	75	120	0	120	0				
trans-1,3-Dichloropropene	56.61	0.48	5.0	50.00	0	113	55	140	0	140	0				
1,1,2-Trichloroethane	56.09	0.38	5.0	50.00	0	112	75	125	0	125	0				
Tetrachloroethene	46.75	0.65	5.0	50.00	0	93.5	45	150	0	150	0				
2-Hexanone	53.85	1.7	5.0	50.00	0	108	55	130	0	130	0				
Dibromochloromethane	53.16	0.57	5.0	50.00	0	106	60	135	0	135	0				
Chlorobenzene	51.27	0.26	5.0	50.00	0	103	80	120	0	120	0				
Ethylbenzene	50.82	0.35	5.0	50.00	0	102	75	125	0	125	0				
m,p-Xylene	102.5	0.77	5.0	100.0	0	102	75	130	0	130	0				
o-Xylene	51.21	0.36	5.0	50.00	0	102	80	120	0	120	0				
Styrene	50.61	0.50	5.0	50.00	0	101	65	135	0	135	0				
Bromoform	54.51	0.77	5.0	50.00	0	109	70	130	0	130	0				
Isopropylbenzene	51.99	0.38	5.0	50.00	0	104	75	125	0	125	0				
1,1,2,2-Tetrachloroethane	50.57	0.42	5.0	50.00	0	101	65	130	0	130	0				

Qualifiers: ND - Not Detected at the MDL

S - Recovery outside accepted recovery limits

MDL - Method Detection Limit

RL - Reporting Limit

B - Analyte detected in the associated Method Blan

mm1.12.11A

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

CLIENT: Stantec Consulting
Work Order: L1835
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT

SW8260_W
SW846 8260C .. VOC by GC-MS

Sample ID:	LCS-67978	SampType: LCS	TestCode: SW8260_W	Prep Date:	09/05/12 10:37	Run ID:	V6_120905A					
Client ID:	LCS-67978	Batch ID:	67978	Analysis Date	09/05/12 10:38	SeqNo:	1789415					
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPD Limit	Qual
n-Propylbenzene	4.8 .80	0 .64	5 .0	50 .00	0	97 .6	70	130	0	0	0	
1,3,5-Trimethylbenzene	4.9 .84	0 .45	5 .0	50 .00	0	99 .7	75	130	0	0	0	
tert-Butylbenzene	5.0 .55	0 .37	5 .0	50 .00	0	101	70	130	0	0	0	
1,2,4-Trimethylbenzene	4.9 .88	0 .40	5 .0	50 .00	0	99 .8	75	130	0	0	0	
sec-Butylbenzene	4.9 .55	0 .28	5 .0	50 .00	0	99 .1	70	125	0	0	0	
4-Isopropyltoluene	5.0 .55	0 .46	5 .0	50 .00	0	101	75	130	0	0	0	
1,3-Dichlorobenzene	4.9 .62	0 .29	5 .0	50 .00	0	99 .2	75	125	0	0	0	
1,4-Dichlorobenzene	4.8 .43	0 .40	5 .0	50 .00	0	96 .9	75	125	0	0	0	
n-Butylbenzene	5.1 .44	0 .33	5 .0	50 .00	0	103	70	135	0	0	0	
1,2-Dichlorobenzene	4.9 .96	0 .33	5 .0	50 .00	0	99 .9	70	120	0	0	0	
Naphthalene	5.1 .29	0 .80	5 .0	50 .00	0	103	55	140	0	0	0	
2-Chloroethyl vinyl ether	57 .05	0 .24	5 .0	50 .00	0	114	0	169	0	0	0	
Surrogate:	51 .88		5 .0	50 .00	0	104	85	115	0	0	0	
Dibromofluoromethane	54 .17		5 .0	50 .00	0	108	70	120	0	0	0	
Surrogate: 1,2-Dichloroethane-d4	4.8 .32	5 .0	50 .00	0	96 .6	85	120	0	0	0	0	
Surrogate: Toluene-d8	4.9 .35	5 .0	50 .00	0	98 .7	75	120	0	0	0	0	
Surrogate: Bromofluorobenzene												

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits

mm1.12.11A J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

MDL - Method Detection Limit RL - Reporting Limit

B - Analyte detected in the associated Method Blan]

CLIENT: Stantec Consulting
Work Order: L1835
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT

SW8260_W
SW846 8260C .. VOC by GC-MS

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val		%RPD	RPD Limit	Qual
									Prep Date: 09/05/12 10:37	Analysis Date: 09/05/12 11:02			
Chloromethane	54.97	0.26	5.0	50.00	0	110	40	125	57.96	5.29	40		
Vinyl chloride	52.24	0.50	5.0	50.00	0	104	50	145	53.78	2.9	40		
Bromomethane	50.28	0.80	5.0	50.00	0	101	30	145	50.52	0.475	40		
Chloroethane	53.22	0.48	5.0	50.00	0	106	60	135	53.04	0.344	40		
Trichlorofluoromethane	54.56	0.54	5.0	50.00	0	109	60	145	58.57	7.1	40		
1,1-Dichloroethene	58.65	0.39	5.0	50.00	0	117	70	130	63.08	7.27	40		
Acetone	64.63	2.2	5.0	50.00	0	129	40	140	66.60	3.01	40		
Carbon disulfide	51.72	0.34	5.0	50.00	0	103	35	160	52.70	1.88	40		
Methylene chloride	45.60	0.41	5.0	50.00	0	91.2	55	140	46.37	1.68	40		
trans-1,2-Dichloroethene	53.52	0.65	5.0	50.00	0	107	60	140	54.58	1.96	40		
Methyl tert-butyl ether	55.90	0.24	5.0	50.00	0	112	65	125	56.24	0.613	40		
1,1-Dichloroethane	53.09	0.25	5.0	50.00	0	106	70	135	54.59	2.78	40		
Vinyl acetate	55.13	0.35	5.0	50.00	0	110	38	163	55.29	0.283	40		
2-Butanone	61.43	2.1	5.0	50.00	0	123	30	150	58.69	4.57	40		
cis-1,2-Dichloroethene	56.12	0.48	5.0	50.00	0	112	70	125	55.25	1.57	40		
Chloroform	53.33	0.33	5.0	50.00	0	107	65	135	54.59	2.35	40		
1,1,1-Trichloroethane	53.73	0.50	5.0	50.00	0	107	65	130	50.80	5.6	40		
Carbon tetrachloride	53.06	0.54	5.0	50.00	0	106	65	140	52.88	0.334	40		
1,2-Dichloroethane	55.41	0.41	5.0	50.00	0	111	70	130	54.94	0.864	40		
Benzene	53.59	0.33	5.0	50.00	0	107	80	120	54.85	2.31	40		
Trichloroethene	51.46	0.36	5.0	50.00	0	103	70	125	52.14	1.3	40		
1,2-Dichloropropane	54.93	0.61	5.0	50.00	0	110	75	125	55.87	1.69	40		
Bromodichloromethane	54.87	0.26	5.0	50.00	0	110	75	120	56.66	3.21	40		
cis-1,3-Dichloropropene	56.62	0.45	5.0	50.00	0	113	70	130	56.64	0.0296	40		
4-Methyl-2-pentanone	54.69	0.82	5.0	50.00	0	109	60	135	53.09	2.97	40		
Toluene	53.74	0.32	5.0	50.00	0	107	75	120	54.98	2.27	40		
trans-1,3-Dichloropropene	58.72	0.48	5.0	50.00	0	117	55	140	56.61	3.66	40		
1,1,2-Trichloroethane	54.81	0.38	5.0	50.00	0	110	75	125	56.09	2.31	40		
Tetrachloroethene	47.18	0.65	5.0	50.00	0	94.4	45	150	46.75	0.921	40		
2-Hexanone	54.01	1.7	5.0	50.00	0	108	55	130	53.85	0.296	40		
Dibromochloromethane	54.20	0.57	5.0	50.00	0	108	60	135	53.16	1.93	40		
Chlorobenzene	52.09	0.26	5.0	50.00	0	104	80	120	51.27	1.57	40		
Ethylbenzene	51.55	0.35	5.0	50.00	0	103	75	125	50.82	1.42	40		
m,p-Xylene	101.7	0.77	5.0	100.0	0	102	75	130	102.5	0.735	40		
o-Xylene	52.30	0.36	5.0	50.00	0	105	80	120	51.21	2.11	40		
Styrene	51.59	0.50	5.0	50.00	0	103	65	135	50.61	1.91	40		
Bromoform	55.58	0.77	5.0	50.00	0	111	70	130	54.51	1.95	40		
Isopropylbenzene	52.54	0.38	5.0	50.00	0	105	75	125	51.99	1.05	40		
1,1,2,2-Tetrachloroethane	50.88	0.42	5.0	50.00	0	102	65	130	50.57	0.606	40		

Qualifiers: ND - Not Detected at the MDL

S - Recovery outside accepted recovery limits

MDL - Method Detection Limit

RL - Reporting Limit

B - Analyte detected in the associated Method Blan

mm11.12.11A

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

CLIENT: Stantec Consulting
Work Order: L1835
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT

SW8260_W
SW846 8260C .. VOC by GC-MS

Sample ID:	LCSD-67978	SampType: LCSD	TestCode: SW8260_W	Prep Date:	09/05/12 10:37	Run ID:	V6_120905A
Client ID:	LCSD-67978	Batch ID:	67978	Analysis Date	09/05/12 11:02	SeqNo:	1789419
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	SPK Ref Val	%RPD Ref Val
n-Propylbenzene	4.8 .93	0 .64	5.0	50.00	0	97.9	70
1,3,5-Trimethylbenzene	4.9 .26	0 .45	5.0	50.00	0	98.5	75
tert-Butylbenzene	50.32	0 .37	5.0	50.00	0	101	70
1,2,4-Trimethylbenzene	4.9 .83	0 .40	5.0	50.00	0	99.7	75
sec-Butylbenzene	4.9 .17	0 .28	5.0	50.00	0	98.3	70
4-Isopropyltoluene	50.32	0 .46	5.0	50.00	0	101	75
1,3-Dichlorobenzene	50.18	0 .29	5.0	50.00	0	100	75
1,4-Dichlorobenzene	48.30	0 .40	5.0	50.00	0	96.6	75
n-Butylbenzene	51.43	0 .33	5.0	50.00	0	103	70
1,2-Dichlorobenzene	50.46	0 .33	5.0	50.00	0	101	70
Naphthalene	53.72	0 .80	5.0	50.00	0	107	55
2-Chloroethyl vinyl ether	55.66	0 .24	5.0	50.00	0	111	0
Surrogate:	50.87	5.0	50.00	0	102	85	115
Dibromofluoromethane	51.79	5.0	50.00	0	104	70	120
Surrogate: 1,2-Dichloroethane-d4	48.33	5.0	50.00	0	96.7	85	120
Surrogate: Toluene-d8	50.13	5.0	50.00	0	100	75	120
Bromofluorobenzene							

Qualifiers: ND - Not Detected at the MDL
mm1.12.11A J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

S - Recovery outside accepted recovery limits
MDL - Method Detection Limit
RL - Reporting Limit

B - Analyte detected in the associated Method Blan]

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

09/05/2012

Client: Stantec Consulting

Client Sample ID: MW-3-W

Lab ID: L1835-02

Project: Genesee Street

Collection Date: 08/28/12 9:18

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							
Extractable Total Petroleum Hydrocarbon	1.6		0.20	mg/L	1	09/05/2012 11:29	67939
Surrogate: ortho-Terphenyl	82.4		50-150	%REC	1	09/05/2012 11:29	67939

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

09/05/2012

Client: Stantec Consulting

Client Sample ID: MW-14-W

Lab ID: L1835-05

Project: Genesee Street

Collection Date: 08/28/12 13:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							
Extractable Total Petroleum Hydrocarbon	0.28		0.20	mg/L	1	09/05/2012 11:49	67939
Surrogate: ortho-Terphenyl	86.0		50-150	%REC	1	09/05/2012 11:49	67939

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hamibal Tech

Date: 09/05/2012

CLIENT: Stantec Consulting
Work Order: L1835
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT

TPH_W

SW846 8015D TPH .. Total Petroleum Hydrocarbons (TPH) by GC-FID

Sample ID	Batch ID:	SampType:	TestCode:	Units:	Prep Date:	Analysis Date:	Run ID:	SeqNo:				
Client ID:	Client ID:	MB-67939	MBLK	mg/L	08/31/12 11:21	09/05/12 10:28	F1_120905A	1789224				
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: ortho-Terphenyl	0.09501	0.025	0.1000	0	95.0	50	150	0				
Sample ID	Batch ID:	LCS-67939	SampType: LCS	TestCode: TPH_W	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Client ID:	Client ID:	LCS-67939	Batch ID: 67939	Units: mg/L	08/31/12 11:21	09/05/12 10:48	F1_120905A	1789225				
Surrogate: ortho-Terphenyl	0.09600	0.025	0.1000	0	96.0	50	150	0				
Sample ID	Batch ID:	LCSD-67939	SampType: LCSD	TestCode: TPH_W	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Client ID:	Client ID:	LCSD-67939	Batch ID: 67939	Units: mg/L	08/31/12 11:21	09/05/12 11:09	F1_120905A	1789226				
Surrogate: ortho-Terphenyl	0.09959	0.025	0.1000	0	99.6	50	150	0				

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits

MDL - Method Detection Limit J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

B - Analyte detected in the associated Method Blan]

mm1.12.11A

Analysis Report: Fuel Identification

Client: STANTEC
Analysis: Fuel ID

Project: Genesee Street

<u>Lab ID</u>	<u>Result</u>
L1835-02C	Resembles Mineral Spirits
L1835-05C	Resembles Mineral Spirits

(*) Lab reference standards included:

Diesel Fuel/ #2 Fuel Oil
Motor Oil
#4 Fuel Oil
#5 Fuel Oil
#6 Fuel Oil
Unleaded Gasoline
Aviation Gasoline
Jet Fuel A
Kerosene
Creosote
Mineral Spirits
Hydraulic Oil
JP-4
JP-5
Transmission Fluid
Coal Tar
Transformer Oil

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

09/04/2012

Client: Stantec Consulting

Client Sample ID: MW-11-W

Lab ID: L1835-01

Project: Genesee Street

Collection Date: 08/28/12 9:00

Analyses	Result Qual	RL Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP				SW6010_W	
Selenium	ND	30 ug/L		109/04/2012 9:10	67933

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

09/04/2012

Client: Stantec Consulting

Client Sample ID: MW-3-W

Lab ID: L1835-02

Project: Genesee Street

Collection Date: 08/28/12 9:18

Analyses	Result Qual	RL Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP				SW6010_W	
Selenium	ND	30 ug/L		109/04/2012 9:14	67933

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

09/04/2012

Client: Stantec Consulting
Client Sample ID: MW-7-W
Lab ID: L1835-03 **Project:** Genesee Street
Collection Date: 08/28/12 12:50

Analyses	Result	Qual	RL Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP					SW6010_W	
Selenium	ND		30 ug/L		109/04/2012 9:17	67933

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

09/04/2012

Client: Stantec Consulting

Client Sample ID: MW-18-W

Lab ID: L1835-04

Project: Genesee Street

Collection Date: 08/28/12 15:45

Analyses	Result Qual	RL Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP				SW6010_W	
Selenium	ND	30 ug/L		109/04/2012 9:21	67933

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

09/04/2012

Client: Stantec Consulting

Client Sample ID: MW-14-W

Lab ID: L1835-05

Project: Genesee Street

Collection Date: 08/28/12 13:55

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP				SW6010_W
Selenium	ND	30 ug/L	1 09/04/2012 9:24	67933

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

RL - Reporting Limit

Spectrum Analytical, Inc. Featuring Hanibal Tech

Date: 09/04/2012

CLIENT: Stantec Consulting
Work Order: L1835
Project: Genesee Street

ANALYTICAL QC SUMMARY REPORT

SW6010_W						
SW846 6010C -- Metals by ICP						
Sample ID: MB-67933	SampType: MBLK	TestCode: SW6010_W	Prep Date: 08/31/12 9:00	Run ID: OPTIMA2_120904A		
Client ID: MB-67933	Batch ID: 67933	Units: ug/L	Analysis Date: 09/04/12 8:36	SeqNo: 1788790		
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit
Selenium	ND	12	30			
Sample ID: LCS-67933	SampType: LCS	TestCode: SW6010_W	Prep Date: 08/31/12 9:00	Run ID: OPTIMA2_120904A		
Client ID: LCS-67933	Batch ID: 67933	Units: ug/L	Analysis Date: 09/04/12 8:39	SeqNo: 1788791		
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit
Selenium	469.0	12	30	455.0	0	103 80 120 0
Sample ID: LCSD-67933	SampType: LCSD	TestCode: SW6010_W	Prep Date: 08/31/12 9:00	Run ID: OPTIMA2_120904A		
Client ID: LCSD-67933	Batch ID: 67933	Units: ug/L	Analysis Date: 09/04/12 8:43	SeqNo: 1788792		
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC LowLimit HighLimit
Selenium	465.4	12	30	455.0	0	102 80 120 469.0 0.773 20

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit
mml 1.12.11.A J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

B - Analyte detected in the associated Method Blank
RL - Reporting Limit

mml 1.12.11.A B - Analyte detected in the associated Method Blank



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1401 Erie Blvd. East
Syracuse, NY 13210
Phone 315-478-2374
Fax 315-478-2107

REPORT OF ANALYSES

Spectrum Analytical, Inc.
830 Silver St.
Agawam, MA 01001-
Attn: Ms. Amy Daniels

PROJECT NAME:
DATE: 09/05/2012

SAMPLE NUMBER- 634926 SAMPLE ID- MW-11-W
DATE SAMPLED- 08/28/12
DATE RECEIVED- 08/29/12 SAMPLER- Information Not Provided
TIME RECEIVED- 1411 DELIVERED BY- Spectrum

SAMPLE MATRIX- WW
TIME SAMPLED- 0900
RECEIVED BY- RS
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	DATE	TIME	BY	RESULT	UNITS	DETECTION LIMIT
Sample Receipt Temperature		08/29/12		RS	2.4	Degrees C	
NITRATE as N	SM18 4500E	08/29/12	1500	JDC	< 0.05	mg/L	0.05
NITRITE	SM18 4500B	08/29/12	1500	JDC	< 0.02	mg/L	0.02
SULFATE	SM15-426C	09/04/12	1330	JDC	121.	mg/L	5.

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

The analytical results on this sample are representative of the sample received by the Laboratory.



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Syracuse, NY 13210
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Fax 315-478-2107

REPORT OF ANALYSES

Spectrum Analytical, Inc.
830 Silver St.
Agawam, MA 01001-
Attn: Ms. Amy Daniels

PROJECT NAME:
DATE: 09/05/2012

SAMPLE NUMBER- 634927 SAMPLE ID- MW-3-W
DATE SAMPLED- 08/28/12
DATE RECEIVED- 08/29/12 SAMPLER- Information Not Provided
TIME RECEIVED- 1411 DELIVERED BY- Spectrum

SAMPLE MATRIX- WW
TIME SAMPLED- 0918
RECEIVED BY- RS
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	DATE	TIME	BY	RESULT	UNITS	DETECTION LIMIT
Sample Receipt Temperature		08/29/12		RS	2.4	Degrees C	
NITRATE as N	SM18 4500E	08/29/12	1500	JDC	0.13	mg/L	0.05
NITRITE	SM18 4500B	08/29/12	1500	JDC	< 0.02	mg/L	0.02
SULFATE	SM15-426C	09/04/12	1330	JDC	56.1	mg/L	5.

NYSDOH LAB ID NO. 11246

APPROVED BY: Rachel R. Bonczyk

(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

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Syracuse, NY 13210
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REPORT OF ANALYSES

Spectrum Analytical, Inc.
830 Silver St.
Agawam, MA 01001-
Attn: Ms. Amy Daniels

PROJECT NAME:
DATE: 09/05/2012

SAMPLE NUMBER- 634928 SAMPLE ID- MW-14-W
DATE SAMPLED- 08/28/12
DATE RECEIVED- 08/29/12 SAMPLER- Information Not Provided
TIME RECEIVED- 1411 DELIVERED BY- Spectrum

SAMPLE MATRIX- WW
TIME SAMPLED- 1355
RECEIVED BY- RS
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS	DETECTION LIMIT
Sample Receipt Temperature		08/29/12		RS	2.4 Degrees C	
NITRATE as N	SM18 4500E	08/29/12	1500	JDC	< 0.05 mg/L	0.05
NITRITE	SM18 4500B	08/29/12	1500	JDC	< 0.02 mg/L	0.02
SULFATE	SM15-426C	09/04/12	1330	JDC	146. mg/L	5.

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

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REPORT OF ANALYSES

Spectrum Analytical, Inc.
830 Silver St.
Agawam, MA 01001-
Attn: Ms. Amy Daniels

PROJECT NAME:
DATE: 09/05/2012

SAMPLE NUMBER- 634929 SAMPLE ID- MW-11-W
DATE SAMPLED- 08/28/12
DATE RECEIVED- 08/29/12 SAMPLER- Information Not Provided
TIME RECEIVED- 1411 DELIVERED BY- Spectrum

SAMPLE MATRIX- WW
TIME SAMPLED- 0900
RECEIVED BY- RS
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS	DETECTION LIMIT
Sample Receipt Temperature NITRATE/NITRITE	SM18 4500	08/29/12 08/30/12	1255	RS JDC	2.4 Degrees C < 0.05 mg/L	0.05

Note: NYS ELAP does not offer accreditation for Combined Nitrate/Nitrite.

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

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REPORT OF ANALYSES

Spectrum Analytical, Inc.
830 Silver St.
Agawam, MA 01001-
Attn: Ms. Amy Daniels

PROJECT NAME:
DATE: 09/05/2012

SAMPLE NUMBER- 634930 SAMPLE ID- MW-3-W
DATE SAMPLED- 08/28/12
DATE RECEIVED- 08/29/12 SAMPLER- Information Not Provided
TIME RECEIVED- 1411 DELIVERED BY- Spectrum

SAMPLE MATRIX- WW
TIME SAMPLED- 0918
RECEIVED BY- RS
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS	DETECTION LIMIT
Sample Receipt Temperature NITRATE/NITRITE	SM18 4500	08/29/12	RS		2.4 Degrees C	
		08/30/12 1255	JDC		0.14 mg/L	0.05

Note: NYS ELAP does not offer accreditation for Combined Nitrate/Nitrite.

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

The analytical results on this sample are representative of the sample received by the Laboratory.



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REPORT OF ANALYSES

Spectrum Analytical, Inc.
830 Silver St.
Agawam, MA 01001-
Attn: Ms. Amy Daniels

PROJECT NAME:
DATE: 09/05/2012

SAMPLE NUMBER- 634931 SAMPLE ID- MW-14-W
DATE SAMPLED- 08/28/12
DATE RECEIVED- 08/29/12 SAMPLER- Information Not Provided
TIME RECEIVED- 1411 DELIVERED BY- Spectrum

SAMPLE MATRIX- WW
TIME SAMPLED- 1355
RECEIVED BY- RS
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT UNITS	DETECTION LIMIT
Sample Receipt Temperature NITRATE/NITRITE	SM18 4500	08/29/12 08/30/12	1255	RS JDC	2.4 Degrees C < 0.05 mg/L	0.05

Note: NYS ELAP does not offer accreditation for Combined Nitrate/Nitrite.

NYSDOH LAB ID NO. 11246

APPROVED BY:

Rachel R. Bonczyk
(Terms and Conditions on Reverse Side)

Rachel R. Bonczyk
Technical Director

The analytical results on this sample are representative of the sample received by the Laboratory.



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Phone 315-478-2374
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Sample Receiving Check List

Client Name: Spectrum

Batch Number: C7725

Yes No

If No Explain:

1. Proper Full and Complete Documentation:

2. Appropriate Sample Containers:

3. Adequate Sample Volume:

4. Hold Time(OK):

5. Proper sample labeling:

6. Sample Temperature:

7. Samples received in good condition
And with proper/adequate preservation:

See Below

RS 8.30.12

Additional Comments: Some portion for combined NO_x/NO₂ preserved @ lab with H₂SO₄ to pH <2. Samples received unpreserved.

Client Correspondence:

This checklist is to be attached to the Original Chain of Custody.

Cetus

69

SPECTRUM ANALYTICAL, INC.
Featuring
HANBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

Page
of

 <p>SPECTRUM ANALYTICAL, INC. Featuring HANIBAL TECHNOLOGY</p>		<h1>CHAIN OF CUSTODY RECORD</h1> <p>Page _____ of _____</p> <p>Report To: <u>Spectrum</u></p> <p>Invoice To: <u>Spectrum</u></p> <p>Project Mgr.: _____</p> <p>Telephone #: _____</p> <p>P.O. No.: _____ RQN: _____</p> <p>Project No.: _____</p> <p>Site Name: _____</p> <p>Location: _____ State: _____</p>																																														
<p>Special Handling:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Standard TAT - 7 to 10 business days <input checked="" type="checkbox"/> Rush TAT - Date Needed: <u>9/5/2</u> All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes. Samples disposed of after 60 days unless otherwise instructed. 		<p>QA/QC Reporting Notes: * additional charges may apply</p> <p>MA DEP MCP CAM Report: Yes <input type="checkbox"/> No <input type="checkbox"/> CT DPH RCP Report: Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>QA/QC Reporting Level</p> <p><input type="checkbox"/> Standard <input type="checkbox"/> No QC <input type="checkbox"/> DQA* <input type="checkbox"/> NY ASP A* <input type="checkbox"/> NY ASP B* <input type="checkbox"/> NJ Reduced* <input type="checkbox"/> NJ Full* <input type="checkbox"/> TIER II* <input type="checkbox"/> TIER IV*</p> <p>Other _____</p> <p>State-specific reporting standards: <u>Reporter DL's</u></p>																																														
		<table border="1"> <thead> <tr> <th rowspan="2">Lab Id:</th> <th rowspan="2">Sample Id:</th> <th rowspan="2">Date:</th> <th rowspan="2">Time:</th> <th rowspan="2">Type:</th> <th colspan="2">Matrix</th> </tr> <tr> <th># of VOA Vials</th> <th># of Amber Glass</th> <th># of Clear Glass</th> <th># of Plastic</th> </tr> </thead> <tbody> <tr> <td>39925 929</td> <td>MW-11-W</td> <td>8/28/12</td> <td>0900</td> <td>G</td> <td>GW</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>39925 930</td> <td>MW-3-W</td> <td>8/28/12</td> <td>0918</td> <td>G</td> <td>GW</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>39925 931</td> <td>MW-14-W</td> <td>8/28/12</td> <td>1355</td> <td>G</td> <td>GW</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>G=Grab C=Composite</p>						Lab Id:	Sample Id:	Date:	Time:	Type:	Matrix		# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	39925 929	MW-11-W	8/28/12	0900	G	GW					39925 930	MW-3-W	8/28/12	0918	G	GW					39925 931	MW-14-W	8/28/12	1355	G	GW				
Lab Id:	Sample Id:	Date:	Time:	Type:	Matrix																																											
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		<table border="1"> <thead> <tr> <th>Date:</th> <th>Time:</th> <th>Temp°C</th> <th>EDD Format</th> </tr> </thead> <tbody> <tr> <td>8-29-12</td> <td>14:11</td> <td>2.4</td> <td></td> </tr> </tbody> </table> <p>Received by: <u>[Signature]</u></p> <p>Condition upon receipt:</p> <p><input type="checkbox"/> Ambient <input type="checkbox"/> Iced <input type="checkbox"/> Refrigerated <input type="checkbox"/> DIVOA Frozen <input type="checkbox"/> Soil Jar Frozen</p> <p>Revised Feb 2012</p>						Date:	Time:	Temp°C	EDD Format	8-29-12	14:11	2.4																																		
Date:	Time:	Temp°C	EDD Format																																													
8-29-12	14:11	2.4																																														

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FRONT

CERTIFIED ENVIRONMENTAL SERVICES, INC.

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ANALYSIS DATE: 8/29/12
ANALYSIS TIME: 1130ELAP #11246 Job
ANALYZED BY: JLZ BATCH NO: A10036QC ID: 634-240210-NO2
P199-JD-NO2NITRATE/NITRITE
SM18 4500E/SM18 4500B
QC Mean = 23.0 µg/l-NO2NO3 Spike Conc. = 440 µg/l
NO2 Spike Conc. = 0.40 µg/l

Date Curve Run: <u>8/31/12</u>	
NO3 STD'S	Absorbance
0.05ppm	.028
0.10ppm	.058
0.20ppm	.12
0.50ppm	.296
1.0ppm	.572

Correlation= 0.999742

Date Curve Run: <u>8/31/12</u>	
NO2 STD'S	Absorbance
0.02ppm	.014
0.05ppm	.036
0.10ppm	.070
0.20ppm	.145
0.50ppm	.370
1.0ppm	.702

Correlation= 0.999619

CES ID:	Combined	Combined	Nitrite	Nitrite	Combined	Nitrite	Nitrate
	Dilution	Absorbance	Dilution	Absorbance	Result (ppm)	Result (ppm)	Result (ppm)
1 BLANK		.00		.00	240.5	20.02	
2 0.50 Std		.283		.374	488.6 = 97.61.526	105.22	
3 QC	50	.30	2t	.393	25.90 / 230 = 112.61.138	147.93.91	
4 LOQ	2.50	.065	50	.082	26.73 / 230 = 116.21.138	147.0	
5 NO2 (column)		.327		—	535.0 = 113.62	—	—
6 634 699	10	.433		—	7.51	—	—
7 634 719	2	.403	1	.000	1.41	20.02	1.41
8 634 749	2	.305	1	.000	1.05	—	1.05
9 634 780	2	.280	1	.000	0.97	—	0.97
10 634 759	2	.463	1	.000	1.68	—	1.68
11 634 760	25	.364	1	.000	15.7	—	15.7
12 634 761	1	.030	1	.000	1.7 20.05	↓	20.05
13 634 761-ms	1	.260	1	.290	431.6 = 107.82	40.46 = 101.82	1.7
14 634 761-mj0	1	.247	1	.285	425.425 = 103.32	40.46 = 100.62	1.7
15 634 762	1	.014	1	.002	20.05	20.02	20.05
16 634 764	1	.000	1	.000	↓	↓	↓
17 634 806	1	.152		.001	0.26	↓	0.26
18 AC-2	50	.301	2t	.395	25.99 / 230 = 113.07	139 / 147 = 94.61	
19 0.50-NO2-std		.310		—	535.0 = 107.02	—	—
20 CLJ		.000		.001	20.05	20.02	

DOCUMENT ID: NO3NO2051312 APPROVED BY: RRB

Data Reviewed By: CJMBalance ID: MCH14 08-160# Added to run at 1530
8/24/12

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CERTIFIED ENVIRONMENTAL SERVICES, INC.

Page 1 of 2

ANALYSIS DATE: 8/29/12
ANALYSIS TIME: 1500ELAP #11246
ANALYZED BY: JBLBATCH NO: 110037QC ID: QA 250 240 695 - NO₂
QA P199-J05-NO₂NITRATE/NITRITE
SM18 4500E/SM18 4500B
QC Mean = 23.0 mg/lNO₃ Spike Conc. = 0.10 mg/l
NO₂ Spike Conc. = 0.40 mg/l

Date Curve Run: <u>8/31/12</u>	
NO ₃ STD'S	Absorbance
0.05ppm	.028
0.10ppm	.058
0.20ppm	.123
0.50ppm	.296
1.0ppm	.572

Correlation= 0.999742

1.47 - 54

Date Curve Run: <u>8/31/12</u>	
NO ₂ STD'S	Absorbance
0.02ppm	.019
0.05ppm	.036
0.10ppm	.070
0.20ppm	.145
0.50ppm	.370
1.0ppm	.702

Correlation= 0.999619

237 329 - NO₃
237 330 - NO₃
237 331 - NO₂
237 332 - NO₂
237 333 - NO₂

CES ID:	Combined Dilution	Combined Absorbance	Nitrite Dilution	Nitrite Absorbance	Combined Result (ppm)	Nitrite Result (ppm)	Nitrate Result (ppm)
1 BLANK		.000		.000	0.00	0.00	
2 0.50 Std		.289		.331	.488 / 0.97 = 5.05	4.65 / 0.97 = 4.65	93.62
3 QC	50	.295	2L	.404	25.46 / 23.0 = 1.10.72	1.42 / 1.47 = 96.67	
4 LOQ	4P	.063	50	.020	25.86 / 23.0 = 1.12.42	1.22 / 1.47 = 83.61	
5 NO ₂ (column)		.339		-	.586 / 0.97 = 117.21	-	-
6 634823	2	.078		-	0.26	-	-
7 634843	2	.233	1	.000	0.80	0.02	0.80
8 634845	2	.390	1	.005	1.35	-	1.35
9 634848	1	.014	1	.001	0.00	-	0.00
10 634850	1	.000	1	.000	-	-	-
11 634851	1	.002	1	.000	2.1	-	-
12 634851-m5	1	.245	1	.282	4.22 / 4.0 = 105.51	.398 / 4.0 = 99.81	2.3
13 634851-m10	1	.200	1	.288	.431 / 4.0 = 107.82	.404 / 4.0 = 101.06	100
14 634854	1	.094	1	.000	0.16	0.02	0.16
15 634926	1	.004	1	.000	0.00	-	0.00
16 634927	1	.078	1	.001	0.13	-	0.13
17 634928	1	.008	1	.000	0.00	-	0.00
18 262	50	.282	2L	.90	24.32 / 23.0 = 105.72	1.11 / 1.47 = 95.92	
19 0.80-NO ₂		.294		-	.50 / 1.0 = 101.42	-	-
20 C-L		.001		.000	0.00	0.02	

DOCUMENT ID: NO3NO2051312 APPROVED BY: RRB

Data Reviewed By: MW

Balance ID: Mettler No 160

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CERTIFIED ENVIRONMENTAL SERVICES, INC.

Page 1 of 2

ANALYSIS DATE: 8/30/11
ANALYSIS TIME: 12:55

ELAP #11246
ANALYZED BY: JBL BATCH NO: 100038

600 2P 400gJ. NO₂
QC ID: 600- P199- f05- NO₂

**NITRATE/NITRITE
SM18 4500E/SM18 4500B**

NO₃ Spike Conc.= 0.40 mg/l

NO₂ Spike Conc. = 0.40 ppm

Date Curve Run: 8/3/11	
NO3 STD'S	Absorbance
0.05ppm	.028
0.10ppm	.059
0.20ppm	.123
0.50ppm	.296
1.0ppm	.572

647-ylb nor

Date	Curve Run:	8/31/11
NO2 STD'S	Absorbance	
0.02ppm	.019	
0.05ppm	.036	
0.10ppm	.070	
0.20ppm	.145	
0.50ppm	.370	
1.0ppm	.702	
Correlation=	0.999619	

237378-VU
237379-VU/M
237380-VU/M

CES ID:	Combined	Combined	Nitrite	Nitrite	Combined	Nitrite	Nitrate
	Dilution	Absorbance	Dilution	Absorbance	Result (ppm)	Result (ppm)	Result (ppm)
1 BLANK		.000		.000	200.05	20.02	
2 0.50 Std		.301		.376	.520 / 0 - 104.02	.529 / 0 = 105.81	
3 QC	.50	.293	21	.408	25.29 / 230 = 110.06	1.43 / 1.43 = 97.31	
4 LOQ	250	.064	50	.023	26.29 / 230 = 114.31	1.43 / 1.43 = 97.31	
5 NO ₂ (column)		.341		- .592	/ 0 = 118.66	-	-
6 634 929	1	.009		-	< 0.05	-	-
7 634 930	1	.084		-	0.14	-	-
8 634 931	1	.009		-	< 0.05	-	-
9 634 936	5	.018		-	< 0.25	-	-
10 634 937	5	.003		-		-	-
11 634 938	5	.007		-		-	-
12 634 939	5	.010		-		-	-
13 634 940	5	.012		-		-	-
14 634 951	1	.006	1	.02	< 0.05	< 0.02	< 0.05
15 634 952	1	.142	1	.01	20.02	20.02	0.24
16 634 952-0p	1	.138	1	.280	0.235	.393 / 4.5 = 98.34	
17 634 952-5p	1	.386	1	.286	(66.68 - 242) / 4.0 = 106.51	4.01 / 4.0 = 10.031	
18 2E-L	50	.288	21	.410	29.85 / 230 = 108.02	1.44 / 1.44 = 99.00	
19 0.10-NH ₃ N		.305		- .527	/ 0 = 105.41	-	-
20 CLO		.000	1/6	.001	< 0.05	< 0.02	

DOCUMENT ID: NO3NO2051312

APPROVED BY: RRB

Data Reviewed By: ✓ ✓

Balance ID: MCHS A€ 160

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CERTIFIED ENVIRONMENTAL SERVICES, INC.

Page 1 of 2

ANALYSIS DATE: 8/31/12
ANALYSIS TIME: 1535ELAP #11246
ANALYZED BY: J02 BATCH NO: C-0034QA: 210 210 (95.40)
QC ID: CAA- P188-505-N02NITRATE/NITRITE
SM18 4500E/SM18 4500B
QC Mean = 0.30 mgL NO₃NO3 Spike Conc. = 0.40 mg/L
NO2 Spike Conc. = 0.40 mg/L

Date Curve Run: <u>8/31/12</u>	
NO3 STD'S	Absorbance
0.05ppm	.028
0.10ppm	.058
0.20ppm	.123
0.50ppm	.296
1.0ppm	.572

Correlation= 0.999142

Date Curve Run: <u>8/31/12</u>	
NO2 STD'S	Absorbance
0.02ppm	.014
0.05ppm	.036
0.10ppm	.070
0.20ppm	.145
0.50ppm	.370
1.0ppm	.702

Correlation= 0.999619

CES ID:	Combined	Combined	Nitrite	Nitrite	Combined	Nitrite	Nitrate
	Dilution	Absorbance	Dilution	Absorbance	Result (ppm)	Result (ppm)	Result (ppm)
1 BLANK		.00		.00	22.05	<0.02	
2 0.50 Std		.295		.35	0.509 / 0.70	0.182 / 0.2493	0.05062
3 QC	50	.295	2t	.394	25.46 / 23.0	110.71 / 139	147 / 94.62
4 LOQ	250	.065	50	.020	26.73 / 23.0	116.21 / 122	147 / 83.02
5 NO2 (column)		.325		—	.562 / 0.112.42	—	—
6 63508	25	.350	1	.001	15.1	<0.02	15.1
7 635071	1	.034	1	.001	3.2	0.053	<0.02
8 635011-mg	1	.248	1	.276	(42) - 0.53 / 4.6	93.51 / 38	140 / 96.81
9 635011 -m50	1	.256	1	.272	(44) - 0.53 / 4.6	97.06 / 381	140 / 95.37
10 635034	1	.016	1	.001	<0.05	<0.02	<0.05
11 QC-2	50	.295	2t	.399	25.46 / 23.0	110.71 / 140	147 / 95.22
12 0.50 NO ₂ /N		.30		—	.535 / 0.107.67	—	—
13 CCB		.00		.001	20.05	<0.02	
14							
15							
16							
17							
18							
19							
20							

8/31/12-04

DOCUMENT ID: NO3NO2051312 APPROVED BY: RRB

Data Reviewed By: ✓ MBalance ID: M-114 & AC-160

CERTIFIED ENVIRONMENTAL SERVICES, INC.

23749L
237493-SANALYSIS DATE: 9/4/12
ANALYSIS TIME: 1330ELAP #11246
ANALYZED BY: JBLBATCH NO: C-9007(WC-248)
C.L. 4000SULFATE
SM15-426CQC ID: CAS-061211 QC Mean = 1000 µg/L

Correlation = _____

Spike Conc.: 10 µg/L

TIME	CES ID:	DILUTION FACTOR	ABSORBANCE READING	RESULT	
				ppm	X DILUTION ppm
0 - 5	BLANK		.000	4.52	
2 - 7	5.0ppm		.025	6.38	
4 - 9	10.0ppm		.054	8.54	
6 - 11	20.0ppm		.209	20.08	
8 - 13	30.0ppm		.334	29.38	
10 - 15	40.0ppm		.485	40.62	
1 12 - 17	QC- LOQ	100	.076	10.179	101.72
2 14 - 19		100	.023	6.234	124.7 / 1000 = 124.72
3 16 - 21	634806	10	.117	13.430	
4 18 - 23	634926	10	.102	12.114	121.
5 20 - 25	634927	5	.090	11.221	56.1
6 22 - 27	634927	5	.086	10.923	54.6 X 100 = 2.7
7 24 - 29	634927	5	.205	(19.78 - 11.22) / 10 = 85.67	
8 26 - 31	634928	10	.136	14.644	146.
9 28 - 33	634995	35.7100	.06	< 5.	< 100.
10 30 - 35	634995	10	.076	10.18 / 10 = 101.82	
11 32 - 37	634995	10	.069	9.66 / 10 = 96.61	X 100 = 5.2
12 34 - 39	Filter Blank		.000	< 5.	< 5.
13 36 - 41	2C-2	100	.072	9.881 / 100 = 98.82	
14					
15					
16					
17					
18					
19					
20					

DOCUMENT ID: SO4051312

APPROVED BY: RRB

Reagents and/or Standards Associated with this analysis, See Standard Preparation Book:

Reagent Name: _____ Page(s): _____ Line(s): _____

Conditioning Reagent

Sulfate Standard

Data Reviewed By: VJWBalance ID: MCHW 10 & 160

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

WorkOrder: L1835

Client ID: STANTEC
Project: Genesee Street
WO Name: Genesee Street
Location: GENESEE,
Comments: N/A

Case:
SDG:
PO: 190500696

HC Due: 09/05/12
Fax Due: 09/05/12
Fax Report:

Special Program:
EDD: EQUIIS_4

Lab Samp ID	Client Sample ID	Collection Date	Date Rec'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
L1835-01A	MW-11-W	08/28/2012 09:00	08/30/2012	Aqueous	SW/8260_W	/ TCL/STARS, 1ppb ICAL, +TICs	Y		VOA		
L1835-01B	MW-11-W	08/28/2012 09:00	08/30/2012	Aqueous	SW/6010_W	/ Se only	Y		Y	M6	
L1835-01C	MW-11-W	08/28/2012 09:00	08/30/2012	Aqueous	E300IC_W	/ CESNO2,NO3,SO4,NO2-NO3	Y		Y	SUB	
L1835-02A	MW-3-W	08/28/2012 09:18	08/30/2012	Aqueous	SW/8260_W	/ TCL/STARS, 1ppb ICAL, +TICs	Y		Y	VOA	
L1835-02B	MW-3-W	08/28/2012 09:18	08/30/2012	Aqueous	SW/6010_W	/ Se only	Y		Y	VOA	
L1835-02C	MW-3-W	08/28/2012 09:18	08/30/2012	Aqueous	TPH_W	/ plus Fuel ID	C2				
L1835-02D	MW-3-W	08/28/2012 09:18	08/30/2012	Aqueous	E300IC_W	/ CESNO2,NO3,SO4,NO2-NO3	Y		Y	SUB	
L1835-03A	MW-7-W	08/28/2012 12:50	08/30/2012	Aqueous	SW/8260_W	/ CESNO2,NO3,SO4,NO2-NO3	Y		Y	VOA	
L1835-03B	MW-7-W	08/28/2012 12:50	08/30/2012	Aqueous	SW/6010_W	/ Se only	Y		Y	M6	
L1835-04A	MW-18-W	08/28/2012 15:45	08/30/2012	Aqueous	SW/8260_W	/ TCL/STARS, 1ppb ICAL, +TICs	Y		Y	VOA	
L1835-04B	MW-18-W	08/28/2012 15:45	08/30/2012	Aqueous	SW/6010_W	/ Se only	Y		Y	M6	
L1835-05A	MW-14-W	08/28/2012 13:55	08/30/2012	Aqueous	SW/8260_W	/ TCL/STARS, 1ppb ICAL, +TICs	Y		Y	VOA	
L1835-05B	MW-14-W	08/28/2012 13:55	08/30/2012	Aqueous	SW/6010_W	/ Se only	Y		Y	M6	
L1835-05C	MW-14-W	08/28/2012 13:55	08/30/2012	Aqueous	TPH_W	/ plus Fuel ID	C2				
L1835-05D	MW-14-W	08/28/2012 13:55	08/30/2012	Aqueous	E300IC_W	/ CESNO2,NO3,SO4,NO2-NO3	Y		Y	SUB	
L1835-06A	TB-082812	08/28/2012 08:30	08/30/2012	Aqueous	SW/8260_W	/ TCL/STARS, 1ppb ICAL, +TICs	Y		Y	VOA	

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Spectrum Analytical, Inc. Featuring Hanibal Technology -- Rhode Island Division

Received By:	<i>Veronica Bryner</i>					Page 01 of 00				
Reviewed By:						Log-in Date 08/30/2012				
Work Order#:	L1835 Client Name: Stantec Consulting									
Project Name/Event: Genesee Street										
Remarks: (1/2) Please see associated sample/extract transfer logbook pages submitted with this data package.		Lab Sample ID	Preservation (pH)				Soil HeadSpace or Air Bubble > or equal to 1/4"			
1. Custody Seal(s)		HN03	H2SO4	HCl	NaOH	H3PO4	VOA Matrix			
Present / Absent		L1835-01	<2				H			
Intact / Broken		L1835-02	<2				H			
2. Custody Seal Nos.		N/A	L1835-03	<2			H			
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists		Present / Absent	L1835-04	<2			H			
			L1835-05	<2			H			
			L1835-06				H			
4. Airbill		AirBill / Sticker								
		Present / Absent								
5. Airbill No.		Courier N/A								
6. Sample Tags		Present / Absent								
Sample Tag Numbers		Listed /								
		Not Listed on Chain-of-Custody								
7. Sample Condition		Intact / Broken / Leaking								
8. Cooler Temperature Indicator Bottle		Present / Absent								
9. Cooler Temperature		3 °C								
10. Does information on TR/COCs and sample tags agree?		Yes / No								
11. Date Received at Laboratory		08/30/2012								
12. Time Received		11:40								
Sample Transfer										
Fraction (1) TVOA/VOA	Fraction (2) SVOA/PEST/ARO									
Area #	Area #									
By	By									
On	On									
IR Temp Gun ID:MT-1		VOA Matrix Key:								
CoolantCondition: ICE							US = Unpreserved Soil	A= Air		
Preservative Name/Lot No.:							UA = Unpreserved Aqueous	H = HCl		
		M = MeOH	E = Encore							
		N = NaHSO4	F = Freeze							
		See Sample Condition Notification/Corrective Action Form Yes / No								
		Rad OK Yes / No								

Last Page of Data Report