PERIODIC REVIEW REPORT
FORMER CARRIAGE FACTORY
NYSDEC SITE NUMBER: C828184

33 LITCHFIELD STREET
ROCHESTER, MONROE COUNTY, NEW YORK

Prepared for:
New York State Department of Environmental Conservation
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Avon, New York 14414

Prepared on behalf of:
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1.0 INTRODUCTION AND OVERVIEW

Stantec Consulting Services Inc. (Stantec) has prepared this Periodic Review Report (PRR) and the attached Institutional Control/Engineering Control (IC/EC) forms (see Appendix A) to summarize Site Management (SM) activities at The Former Carriage Factory located at 33 Litchfield Street, Rochester, New York (Site) for the period December 23, 2014 to March 16, 2016.

This PRR is prepared on behalf of Carriage Factory Special Needs Apartments, L.P. (CFSNA), the current owner of the Site, to fulfill the PRR requirements of the Brownfield Cleanup Agreement (BCA) as part of the Brownfield Cleanup Program (BCP) of the New York State Department of Environmental Conservation (Department). The Site is identified by the Department as BCA Site Number C828184.

The Site is a 1.5±-acre parcel bounded by Wiley Street and DeVault Storage Services, Inc. to the north, a parking lot to the south, Litchfield Street and a warehouse to the east, and Clark Alley and residences to the west. A Site Location Map is presented on Figure 1.

1.1 SUMMARY OF SITE CONTAMINATION AND REMEDIAL HISTORY

The building was originally built in 1900 for the production of horse-drawn carriages, and is one of the oldest former manufacturing plants in Rochester. Historical Site operations included manufacture of wood trim/accent-related products for the automobile industry, other automotive parts, and clothing washers and dryers. Operations at the site ceased in approximately 1993.

Beginning in 2010, a series of Phase I and Phase II Environmental Site Assessments (ESAs) were performed by Development and Environmental Consultants, Inc. (DECI) in association with real estate due diligence by CFSNA prior to its potential purchase of the property. Results of these investigations indicated the presence of chlorinated volatile organic compounds (CVOCs) in soil and in groundwater throughout the site at concentrations above the applicable NYSDEC's soil cleanup objectives (SCOs) and groundwater standards. Additionally, urban fill consisting of ash, slag, cinders, bricks, concrete, and varying amounts of silt, sand, and gravel was encountered at most exterior locations with thicknesses ranging from 1.8 to 4.4 feet.

Based on the results of the ESAs, CFSNA entered the NYSDEC's BCP in February, 2013. Soon thereafter, construction began to renovate the building for use as apartments and Stantec concurrently performed a Remedial Investigation (RI) to further identify and delineate contamination at the Site. Details of the RI activities and methodology are presented in the Remedial Investigation Report dated August, 2014. The RI further characterized the extent of contamination at the site: a soil gas survey identified the areal extent of CVOC impacts in the soil; a geophysical survey inside the building indicated numerous buried pipe runs; surface soil samples in urban fill material exhibited concentrations of several metals, including lead, mercury,

arsenic, and barium, at levels in excess of NYSDEC Restricted Residential (RR) SCOs; groundwater monitoring well installation and subsequent gauging showed that groundwater levels were highest beneath the building and flow direction was radially away from the building; groundwater sampling showed that samples from thirteen of the sixteen monitoring wells on and near the Site exceeded groundwater standards for one or more CVOC; and the types and concentration distribution of CVOCs were indicative that reductive dechlorination of these contaminants was occurring naturally.

Based on the results of the RI, an Interim Remedial Measures Work Plan (IRMWP) was submitted to the NYSDEC in May, 2013 and was approved on August 30, 2013. To accomplish the objectives of the IRMWP, Stantec performed the following primary activities:

- Observed and documented construction activities that involved soil excavation, grading, handling, stockpiling and disposal;
- Arranged for and documented pumping, containerizing, treatment and/or discharge of groundwater entering excavations;
- Performed visual and instrument screening of excavated and in-situ soils;
- Obtained permits on behalf of CFSNA from the Monroe County Department of Environmental Services (MCDES) for temporary and long-term discharge of impacted groundwater to the sanitary sewer;
- Developed a Contained-In Demonstration Work Plan (CIDWP) to address the characterization and disposal of chlorinated solvent-impacted soils;
- Collected samples of known, suspected, or potentially-impacted media for laboratory analysis, including:
    - Soils in interior and exterior excavations to confirm contaminant levels in remaining soils;
    - Stockpiles of impacted and non-impacted materials in accordance with CIDWP requirements and to obtain landfill disposal approval or to demonstrate acceptability for onsite reuse;
    - Soil from supplemental exterior test borings performed in areas of known CVOC impacts, in accordance with the CIDWP;
    - Waters entering interior excavations or the elevator pit for characterization to obtain sewer discharge approval; and
    - Groundwater from monitoring wells for remedial program monitoring.
- Designed and oversaw installation of a piping system beneath the building to facilitate injection of a carbon substrate material as part of the enhanced reductive dechlorination (ERD) groundwater remediation program;
- Designed and oversaw installation of a vapor barrier and a sub-slab depressurization system (SSDS) to mitigate the potential for sub-slab vapors to enter the building;

- Facilitated waste profile preparation and landfill approval for disposal of impacted soils; and
- Performed injection of a sodium lactate solution to provide the carbon substrate for the ERD groundwater remediation program.

Based on observations and sampling data from the RI and IRM programs, contamination remained in subsurface soils and groundwater at the site:

- Interior Soils - Although the majority of impacted soils was removed from the basement during several phases of excavation, occasional indications of remaining contamination, specifically in the atrium area, in the form of minor staining or low-level PID readings were observed. Accordingly, the potential for impacted soil to be encountered in the basement still existed. As noted above, a SSDS has been installed to mitigate the potential for sub-slab vapors to enter the building.

- Exterior Soils - Virtually all of the exterior areas south of the building were excavated for driveway and parking lot construction, sidewalk and landscape area development or utility installation. In all of these areas, a demarcation layer (filter fabric or Geogrid) was placed at the base of the excavations prior to placing backfill soils or other materials (clean backfill soil/topsoil, concrete, paving stones or asphalt).

- Groundwater – Groundwater monitoring events conducted after the sodium lactate injection described above indicated that the parent VOCs of tetrachloroethylene (PCE) and trichloroethylene (TCE) were degrading into the daughter compounds of the cis- and trans- isomers of 1,2-dichloroethylene (1,2-DCE) and vinyl chloride (VC); however, concentrations remained above groundwater standards for some wells.

1.2 SITE MANAGEMENT REQUIREMENTS

Site Management activities were implemented in accordance with the SMP for the Site. The SMP includes the following required Institutional Controls (ICs) and Engineering Controls (ECs):

- The property uses are limited to *Restricted Residential* as described in 6 NYCRR Part 375-1.8(g)(2)(ii), *Commercial* as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and *Industrial* as described in 6 NYCRR Part 375-1.8(g)(2)(iv) as long as the following long-term controls are employed:
    - The SSDS is operated continuously to mitigate the potential for soil vapor intrusion (SVI).
    - Operation of the elevator pit sump pump and pumping to a sanitary sewer for treatment at an approved POTW (groundwater extraction and ex-situ treatment).
    - The soil cover system, building floor slabs, and sub-slab vapor barrier are maintained. Department approval must be obtained in advance for activities

which breach impervious surfaces or disturb soils on the Site, and those activities must be performed in accordance with the SMP.

- Components of the in-situ groundwater remediation system which includes piping installed beneath the building slab and access points located immediately to the south of the building remain intact and undisturbed.

- Other than sampling for monitoring purposes, the use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Monroe County Department of Health to render it safe for use for its intended, non-potable industrial purpose, and the user must first notify and obtain written approval to do so from the NYSDEC. Groundwater is prohibited from use as a potable water supply within the City of Rochester limits.

- The Site may not be used for purposes with a higher level of use, such as *Unrestricted* or *Residential,* without additional remediation and amendment of the Environmental Easement, as approved by the NYSDEC.

- Deed Restrictions have been implemented to restrict land use to *Restricted Residential, Commercial, and Industrial* uses, restrict the use of groundwater, and prevent future exposure to any contaminants of concern remaining at the Site.

- Vegetable gardens and farming on the property are prohibited.

- Annually (or as otherwise directed by the Department), CFSNA must certify to the Department as to the continued presence and effectiveness of the ICs/ECs described above.

The SMP for the Site specifies a program for monthly system performance monitoring of the SSDS. The employees of CFSNA (owner's employees) perform routine monitoring including:

- Verifying normal system operating conditions and making observations of any abnormalities, whether visual, olfactory or auditory, with respect to the SSDS; and

- Recording of vacuum levels at fan manometers located in the fifth floor utility room.

Data is recorded on the Monthly Monitoring Form provided in Appendix I of the SMP and is included here as Table 1 and field logs are provided in Appendix B.

1.3 EFFECTIVENESS OF THE REMEDIAL PROGRAM

1.3.1 Groundwater Sampling

During the reporting period covered by this PRR, four groundwater sampling events were completed: three post-injection events (February 2015 – 9 months post-injection, May 2015 – 12 months post-injection, and August 2015 – 15 months post-injection) and one post-supplemental-injection event (February 2016). As per the SMP, the following wells have been included in each sampling event: RW-1, RW-2, RW-3, RW-4, RW-5, RW-6, RW-7, RW-9, RW-12, B102-MW, B106-MW, and B108-MW. Well locations are provided on Figure 2. Analytical results from these four events, in addition to previous groundwater sampling results, are included as Table 2, and laboratory analytical reports are included in Appendix C. As specified in the SMP, all groundwater monitoring analytical results have been validated by a qualified professional (Data Validation Services of North Creek, NY) and Data Usability Summary Reports (DUSRs) for the groundwater sampling data are provided in Appendix D. Figure 3 shows concentrations of CVOCs at the wells listed above over time. Table 3 displays water quality parameters recorded during each of the groundwater sampling events that have occurred during this reporting period as well as previous events.

One Year Post-Injection

Analytical results from the groundwater sampling event performed on May 4 and 5, 2015 reflect groundwater conditions one year following the initial injection of sodium lactate. Results indicate that the parent volatile organic compounds (VOCs) of tetrachloroethylene (PCE), and trichloroethylene (TCE) continued to degrade into the daughter compounds of the cis and trans isomers of 1,2-dichloroethylene (1,2-DCE) and vinyl chloride (VC), before proceeding to complete degradation. Of the twelve wells sampled, nine had both PCE and TCE concentrations below groundwater standards (5 ug/L). The parent compounds were also not detected at RW-6, but due to an elevated concentration of cis-1,2-DCE, the laboratory detection limits for PCE and TCE were slightly elevated at 10.0 ug/L which may have masked the potential presence of PCE and TCE between 5 and 10 ug/L. PCE concentrations above 5 ug/L were detected at B108-MW (14.4 ug/L) and RW-4 (18.7 ug/L), while RW-4 also had TCE concentrations greater than groundwater standards at 8.94 ug/L.

In general, daughter compound concentrations continued to decline at all wells from peak levels observed within the first six months of the remediation program. The highest groundwater concentrations of daughter compounds were observed at well RW-6 (373 ug/L cis-1,2-DCE, 6.18 ug/L trans-1,2-DCE, and 367 ug/L VC), but levels still represented a decline from previous sampling events.

Decreasing total organic carbon (TOC) concentrations at all well locations indicated that the injected sodium lactate continued to be consumed. Groundwater TOC concentrations ranged between 1.5 mg/L (B106-MW) and 6.2 mg/L (RW-12). Gene-trac assay results from the groundwater samples obtained from B102-MW and B108-MW during the May, 2015 sampling

event are included in Appendix C. Results indicated that moderate population levels of dehalococcoides had been maintained, despite a slight decline since the previous sampling event.

Fifteen Months Post-Injection

Analytical results from the quarterly groundwater sampling event performed on August 12 and 13, 2015 reflected groundwater conditions 15 months following the initial injection of sodium lactate. Results indicated that the parent volatile organic compounds PCE and TCE continued to degrade into the daughter compounds of the 1,2-DCE and VC, before proceeding to complete destruction. Five of the wells, however, exhibited increases in either cis-1,2-DCE or VC at concentrations above their respective groundwater standards, and one well, RW-5, exhibited increases for both compounds. At RW-5, cis-1,2-DCE increased from 4.52 ug/L in May to 56.7 ug/L in August, while VC increased from non-detect to 16.0 ug/L.

Total organic carbon (TOC) increased from the previous quarter in all wells except at RW-6, RW-7, and RW-12, although TOC concentrations remained one to two orders of magnitude below the levels observed following injection in 2014. TOC levels over time displayed an overall decreasing trend, indicating that the injected sodium lactate was being consumed. Groundwater TOC concentrations ranged between 2.2 mg/L (RW-9) and 15.0 mg/L (RW-4). These lower levels, combined with less reducing ORP values, suggested the need to consider an additional sodium lactate injection event. As a result, a supplemental enhanced reductive dechlorination (ERD) injection program was performed from October 29 to November 5, 2015. A summary of injection activities is provided in Section 1.3.2 below.

Three Months Post-Supplemental Injection

Analytical results from groundwater sampling performed on February 1 and 2, 2016 reflect groundwater conditions three months following the supplemental injection of the sodium lactate solution. The parent volatile organic compounds PCE and TCE continued to degrade into the daughter compounds of 1,2-DCE and VC, before proceeding to complete destruction. Of the twelve wells sampled, eleven had both PCE and TCE concentrations below groundwater standards (5 ug/L). The parent compounds were not detected at RW-6, but slightly elevated detection limits of 20.0 ug/L, due to elevated concentrations of cis-1,2-DCE and VC, may have masked the potential presence of PCE and TCE between 5 and 20 ug/L. PCE and TCE concentrations slightly above the groundwater standard of 5 ug/L were only detected at B108-MW (5.17 ug/L and 6.57 ug/L, respectively).

Daughter compound concentrations also continued to decline at most wells from peak levels observed within the first six months of the remediation program. Seven of the twelve monitoring wells (B102-MW, B106-MW, RW-2, RW-3, RW-5, RW-9, and RW-12) were below groundwater standards for all VOCs. Note that the increase in daughter products observed in RW-5 during the August 2015 event was reversed and VC was the only CVOC detected (below groundwater standards at 1.52 ug/L) during the February 2016 sampling event. Two wells, RW-1 and RW-7, only contained VC at concentrations slightly above the groundwater standard of 2 ug/L at 2.84

ug/L and 2.27 ug/L, respectively. Therefore, nine of the twelve wells were either below groundwater standards or only slightly above groundwater standards.

Of the three remaining wells, the highest concentrations of daughter compounds were observed at off-site well RW-6 (1,520 ug/L cis-1,2-DCE, 11.5 ug/L trans-1,2-DCE, and 1,120 ug/L VC). These concentrations represent an increase from the previous sampling event, but given the absence of the PCE and TCE parent compounds which were historically present at maximum concentrations of 3,380 and 752 ug/L, respectively, these results are indicative of ongoing reductive degradation.

The groundwater parameters collected during the February, 2016 sampling event indicated anaerobic, reducing conditions [dissolved oxygen concentrations (DO) lower than 0.5 mg/L and oxidation-reduction potential (ORP) values generally lower than -175 mV] in the on-site wells that either received injections of sodium lactate solution or are within the source area. The conditions are noticeably more reducing than during the August 2015 sampling event with the average ORP value for all wells having decreased from -88 mV to -212 mV. As a result, the supplemental injection improved the groundwater geochemistry conditions needed to continue the ERD process.

1.3.2 In-Situ Groundwater Remediation

Based on the August 2015 groundwater monitoring results discussed in Section 1.3.1 above, Stantec prepared an Enhanced Reductive Dechlorination Supplemental Injection Work Plan which was approved by the NYSDEC on October 27, 2015 and an Underground Injection Control Submittal requesting use of two monitoring wells for injection purposes which was approved by the USEPA on October 26, 2015. The supplemental ERD injection program was performed from October 29 to November 5, 2015. Over 16,500 gallons of a 20,000 mg/L sodium lactate and water solution were injected into the nine horizontal sub-slab injection legs and into groundwater monitoring wells RW-4 and B102-MW located south of the building. The injection was intended to supplement the original ERD injection program that occurred at the Site in April-May 2014. A report of the supplemental injection activities titled Supplemental Injection Program Summary Report was submitted to the NYSDEC on November 20, 2015.

All accessible components of the groundwater remediation system were found to be intact and in working order during the supplemental injection. The underground portions of the piping are presumed to have remained intact as the February 2016 round of groundwater sampling results (discussed in Section 1.3.1 above) suggest that the injection materials were distributed as designed.

All injection materials and supplies were removed from the Site within days of completion of the supplemental injection program on November 5, 2015.

1.3.3 Sub-Slab Depressurization System Monitoring

The SSDS active parameters are monitored monthly by CFSNA staff. This includes collecting vacuum readings from the manometers located in the fifth floor utility room and checking to see that the pilot lights indicating that the fans are powered on are lit. These observations are presented on Table 1 and copies of the field sheets are presented in Appendix B. The fans remained powered on for the duration of this reporting period and vacuum measured at the manometers in the fifth floor utility room remained consistently between 1.95 and 2.40 inches of water column (IWC) for all three fans. The frequency of monitoring as performed by CFSNA was incomplete as no SSDS readings were recorded during April, September, November, or December of 2015, though some effort was made to record extra readings when a month was missed. Since CFSNA began accepting tenants in November 2014, several staff changes at the facility, including three different maintenance managers, were made during the reporting period. This partially explains why SSDS monitoring was allowed to lapse during certain months. Moving forward, Stantec will coordinate with CFSNA to remind the staff to record monthly observations.

An annual SSDS monitoring event was conducted on February 2, 2016 to assess the influence of the SSDS in the building. A micro-manometer was used to measure the vacuum at the required vacuum monitoring points (VMP) installed throughout the building. The vacuum was also measured at the three extraction wells just below their respective fans in the fifth floor utility room. VOC readings were taken with a PID from the exhaust pipes from each of the fans installed as part of the SSDS. The data collected during this monitoring event are included in Table 4 and illustrated on Figure 4.

In addition to the data collected during the annual SSDS monitoring event in February, 2016, the system components and building floor were inspected for any unusual sounds or visible cracks. No cracks or leaks were observed in any accessible system components or in the building floor. No new penetrations were observed in the building floor. A slight gurgling sound was observed on March 17, 2016 in SSDS Riser Pipes 1 and 2 (Riser Pipe 3 is currently inaccessible as it is located behind a wall) suggesting that condensate or groundwater may have been present in the lower portions of the riser pipes. VMP-2 was observed to be damaged at the time of sampling and will need to be repaired due to a broken connection between the brass sampling manifold and the PVC riser pipe. A temporary seal was constructed to collect the vacuum reading.

Based on the monitoring event that took place during this reporting period, the SSDS has maintained its area of influence beneath the building, and all vacuum readings comfortably satisfy the minimum negative pressure differential of 0.002 IWC required by the NYSDOH and ranged from 0.014 in VMP-1 to 0.123 IWC in VMP-5. However, all VMPs exhibited lower sub-slab vacuum levels during the February 2016 annual inspection than when the SSDS was initially installed in 2014. This condition may be related to condensate accumulating in the base portions of the three extraction wells. A recommendation for draining the condensate is proposed in Section 1.5.

1.3.4 Intrusive Activities

During the current reporting period, no intrusive work that disturbed the building slab or the Site cover was undertaken.

1.3.5 Sump Sampling

On a quarterly basis Stantec collected a sample from the groundwater sump located in the elevator pit which drains to the building sanitary plumbing discharge. These samples were analyzed for Halogenated VOCs and metals Cd, Cu, Pb, and Zn as required by Monroe County Department of Environmental Services (MCDES) under sewer use permit SUP-996. The analytical results were well below MCDES discharge limits and VOCs went undetected in sump samples since September, 2014. Analytical results for the sump samples are presented on Table 5.

In addition to the water pumped from the sump, Stantec also discharged all groundwater purged during groundwater sampling activities to the building sanitary discharge as outlined under MCDES permit SUP-996. Prior to discharging purge water, it was sampled and results were approved by MCDES. Analytical results for the purge water are presented on Table 5.

As of February 19, 2016, a total of 4,905 gallons of water has been discharged to the sanitary sewer from the elevator sump pump and the groundwater sampling purge water combined.

1.4 COMPLIANCE

Compliance with the SMP for the Site was maintained throughout the reporting period.

1.5 RECOMMENDATIONS

Based on the sampling results from the 2015 and 2016 groundwater sampling events, it is proposed to continue sampling the on-site wells in accordance with the methodology and schedules set out in the SMP and the Enhanced Reductive Dechlorination – Supplemental Injection Work Plan.

The manifold at VMP-2 should be repaired at the connection between the brass valve and the PVC riser pipe.

Due to the reduction in vacuum levels measured at the sub-slab VMPs during the February annual SSDS inspection, it is recommended that an effort be made to drain condensate from the extraction wells. An initial effort could be made by shutting down the fans for approximately two hours during the summer (when adequate first-floor ventilation could be maintained) to allow any condensate to drain back into the sub-base material. This would be a temporary remedy as the condensate would collect in the base portions of the extraction wells over time. If this is found to occur within a period of one quarter, a secondary effort could be made by installing drain ports near the base of the extraction wells. Therefore, we recommend that the

schedule of SSDS inspections (including VMP measurements) be increased to quarterly and be performed in conjunction with groundwater sampling events.

Coordination between CFSNA staff and Stantec will continue to ensure effective implementation of the SMP, including monthly reminders to record SSDS readings from the fifth floor utility room.

No change to the currently approved frequency of PRR (currently annual) is recommended at this time.

2.0 REMEDY PERFORMANCE, EFFECTIVENESS, AND PROTECTIVENESS

Based upon the data obtained and observations made, the ECs appear to be performing well, and the ECs and ICs have been effective at maintaining conditions protective of human health and the environment for the continued *Restricted Residential* use of the Site. Furthermore, based on the four groundwater and one SSDS monitoring events and related observations that took place during this reporting period, it appears that the SSDS has maintained its area of influence beneath the building.

It is, therefore, proposed to continue in accordance with the methodology and schedule set out in the SMP and the Enhance Reductive Dechlorination – Supplemental Injection Work Plan for groundwater sampling: (i) the quarterly sampling and analysis of the elevator sump; and (ii) the quarterly sampling the groundwater until August 2016, when groundwater conditions will be re-assessed. As discussed in Section 1.5 above, we recommend that the SSDS monitoring events increase in frequency to quarterly. This continued sampling and monitoring will generate a larger dataset and allow trends to be interpreted with more certainty.

3.0 COMPLIANCE WITH IC/EC REQUIREMENTS AND THE OM&M PLAN

During the reporting period, compliance with required ICs and ECs has been maintained.

- Use of the Site has been limited to *Restricted Residential* uses.
- The SSDS has been operated continuously and is currently achieving adequate sub-slab depressurization.
- The elevator sump pump was operated during the reporting period and pumped water to a sanitary sewer for treatment at an approved POTW.
- No groundwater use has occurred at the Site.

- Deed Restrictions are in place to restrict land use to *Restricted Residential, Commercial, and Industrial* uses, restrict the use of groundwater, and prevent future exposure to any contaminants of concern remaining at the Site.

IC/EC forms certifying to the Department the continued presence and effectiveness of the controls described above are presented in Appendix A.

Except where noted herein, monthly monitoring has been performed by the employees of CFSNA (owner's employees), including:

- Verifying normal system operating conditions and making observations of any abnormalities, visual, olfactory, or auditory, with respect to the system; and
- Recording of vacuum levels at fan manometers located in the fifth floor utility room.

4.0 OVERALL CONCLUSIONS AND RECOMMENDATIONS

Based on the sampling results and observations from the 2015 and 2016 groundwater sampling events, it is proposed to continue sampling the on- and off-site wells and the elevator sump in accordance with the methodology and quarterly schedules set out in the SMP and the Enhanced Reductive Dechlorination – Supplemental Injection Work Plan.

Based on the 2016 annual SSDS monitoring event, it is recommended to repair VMP-2, to drain expected condensate from the extraction wells as discussed in Section 1.5 above, and to increase monitoring of the sub-slab vacuum levels at the six VMPs to a quarterly schedule.

CFSNA employees will continue their monthly monitoring of the fan manometers and SSDS system operating conditions and submit this data to Stantec for review. Stantec will provide monthly reminders to CFSNA to make sure the data is recorded as specified in the SMP.

No change to the currently approved frequency of PRR (currently annual) is recommended at this time.

Tables

Table 1
Monthly Monitoring of the Sub-Slab Depressurization System
Former Carriage Factory
33 Litchfield Street, Rochester, NY

Date	Operator	Vacuum (inches Water Column)			Pilot Light ON (Y or N)*			Additional Notes (Abnormal conditions such as hot fan housings, vibrations, unusual noises, etc)
		FAN-1 (west)	FAN-2 (center)	FAN-3 (east)	FAN-1	FAN-2	FAN-3	
1/6/15	DePaul	2.40	2.30	2.10	Y	Y	Y	
1/21/15	DePaul	2.40	2.40	2.10	Y	Y	Y	
2/15/15	DePaul	2.40	2.30	2.00	Y	Y	Y	
3/27/15	DePaul	2.40	2.30	2.00	Y	Y	Y	
5/5/15	Stantec	2.20	2.20	2.00	Y	Y	Y	
6/1/15	DePaul	2.20	2.20	2.00	Y	Y	Y	
7/24/15	DePaul	2.20	2.20	2.00	Y	Y	Y	
8/13/15	Stantec	2.10	2.15	1.95	Y	Y	Y	
10/14/15	DePaul	2.20	2.20	2.00	Y	Y	Y	
10/21/15	DePaul	2.20	2.20	2.00	Y	Y	Y	
1/13/16	DePaul	2.20	2.20	2.20	Y	Y	Y	
2/1/16	Stantec	2.30	2.30	2.00	Y	Y	Y	
3/17/16	DePaul	2.30	2.30	2.10	Y	Y	Y	

* If one or more pilot lights are OFF, contact Stantec immediately at 585-475-1440.

Table 2
Summary of Analytical Results in Groundwater
Former Carriage Factory
33 Litchfield Street, Rochester, New York

Area			On-Site Parking Lot															
Sample Location			B101MW		B102MW													
Sample Date			21-May-13	21-May-13	22-May-13	27-Mar-14	27-Mar-14	28-May-14	2-Jul-14	6-Aug-14	28-Oct-14	3-Feb-15	3-Feb-15	4-May-15	4-May-15	12-Aug-15	12-Aug-15	1-Feb-16
Sample ID			LI-B101MW-GW1	LI-B101MW-GW1DUP	LI-B102MW-GW1	LI-B102-MW	LI-DUP-MW	LI-B102-MW-PI1	LI-B102-MW-PI2	LI-B102-MW-PI3	LI-B102-MW-PI6	LI-B102-MW-PI9	LI-DUP-PI9	LI-B102-MW-PI12	LI-DUP-PI12	LI-B102-MW-PI15	LI-DUP-PI15	LI-B102-MW-PS3
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			CCGE	CCGE	CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH
Laboratory Work Order			E2314	E2314	E2342	141138	141138	142196	142794	143439	144730	150382	150382	151696	151696	153411	153411	160464
Laboratory Sample ID			E2314-01	E2314-02	E2342-04	141138-11	141138-14	142196-07	142794-09	143439-10	144730-10	150382-05	150382-13	151696-11	151696-10	153411-06	153411-07	160464-06
Sample Type	Units	TOGS		Field Duplicate			Field Duplicate						Field Duplicate		Field Duplicate		Field Duplicate	
General Chemistry																		
Total Organic Carbon	µg/L	n/v	-	-	-	6000	4600	15200	146000	24600	7300	6500	6000	5400	5300	7500 J-	7400 J-	39400
Metals																		
Aluminum	µg/L	n/v	36.9	32.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	µg/L	3[B]	***12.5 U***	***12.5 U***	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	25[B]	5.000 U	5.000 U	-	10 U	10 U	10 U	10 U	10 UJ	10 U	5.98 J	6.89 J	7.92 J	10.4	19.5 J-	23.5 J-	-
Barium	µg/L	1000[B]	62	69.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	3[A]	1.500 U	1.500 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	5[B]	1.500 U	1.500 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	µg/L	n/v	121000	132000	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	50[B]	2.500 U	2.500 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	n/v	7.500 U	7.500 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	200[B]	5.000 U	5.000 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	µg/L	300.[B]	25.0 U	25.0 U	-	100 U	100 U	**4330[B]**	**9940[B]**	**6480[B]**	**10700[B]**	**13900[B]**	**13600[B]**	**10000[B]**	**10100[B]**	**17000 J-[B]**	**18400 J-[B]**	-
Lead	µg/L	25[B]	12.6	12.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	µg/L	35000[A]	30600	33100	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	µg/L	300.[B]	5.42 J	5.53 J	-	**694[B]**	**675[B]**	**1070[B]**	**2280[B]**	**1200[B]**	**1060[B]**	**844[B]**	**838[B]**	**945[B]**	**949[B]**	**1980 J-[B]**	**2010 J-[B]**	-
Mercury	µg/L	0.7[B]	0.200 U	0.200 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	100[B]	2.52 J	10.0 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	µg/L	n/v	9810	11100	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	10[B]	5.92	4.23 J	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	50[B]	2.500 U	2.500 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	20000[B]	**24700[B]**	**27600[B]**	-	18500	18100	**41100[B]**	**169000[B]**	**83100 M[B]**	**63800[B]**	**58000[B]**	**58900[B]**	**49800[B]**	**50300[B]**	**450000 J-[B]**	**455000 J-[B]**	-
Thallium	µg/L	0.5[A]	***10.0 U***	***10.0 U***	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	n/v	10.0 U	10.0 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	2000[A]	12.4	10.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds																		
Acetone	µg/L	50[A]	25 U	25 U	25 U	10.0 U	10.0 U	10.0 U	6.54 J	10.0 U	10.0 U	10.0 UJ	10.0 UJ	10.0 U	10.0 U	10.0 UJ	10.0 UJ	10.0 U
Benzene	µg/L	1[B]	***5 U***	***5 U***	***5 U***	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.00 UJ	1.00 UJ	1.00 U
Bromodichloromethane	µg/L	50[A]	5 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U
Bromoform (Tribromomethane)	µg/L	50[A]	5 U	5 U	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 UJ	5.00 U
Bromomethane (Methyl bromide)	µg/L	5..[B]	5 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U
Butylbenzene, n-	µg/L	5..[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butylbenzene, sec- (2-Phenylbutane)	µg/L	5..[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butylbenzene, tert-	µg/L	5..[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	µg/L	60[A]	5 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	5 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U
Chlorobenzene (Monochlorobenzene)	µg/L	5..[B]	5 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U
Chlorobromomethane	µg/L	5..[B]	5 U	5 U	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 UJ	5.00 U
Chloroethane (Ethyl Chloride)	µg/L	5..[B]	5 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U
Chloroethyl Vinyl Ether, 2-	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	7[B]	5 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U
Chloromethane	µg/L	5..[B]	5 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U
Cyclohexane	µg/L	n/v	5 U	5 U	5 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 UJ	10.0 UJ	10.0 U
Dibromo-3-Chloropropane, 1,2- (DBCP)	µg/L	0.04[B]	***5 U***	***5 U***	***5 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 UJ***	***10.0 UJ***	***10.0 U***
Dibromochloromethane	µg/L	50[A]	5 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U
Dichlorobenzene, 1,2-	µg/L	3[B]	***5 U***	***5 U***	***5 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U
Dichlorobenzene, 1,3-	µg/L	3[B]	***5 U***	***5 U***	***5 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U
Dichlorobenzene, 1,4-	µg/L	3[B]	***5 U***	***5 U***	***5 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U
Dichlorodifluoromethane (Freon 12)	µg/L	5..[B]	5 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U
Dichloroethane, 1,1-	µg/L	5..[B]	5 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U
Dichloroethane, 1,2-	µg/L	0.6[B]	***5 U***	***5 U***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 UJ***	***2.00 U***
Dichloroethene, 1,1-	µg/L	5..[B]	5 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U
Dichloroethene, cis-1,2-	µg/L	5..[B]	5 U	5 U	**7.5[B]**	4.45	4.44	4.61	**7.04[B]**	**68.7[B]**	**7.01[B]**	2.00 U	2.00 U	4.10	4.11	2.75 J-	2.74 J-	2.00 U
Dichloroethene, trans-1,2-	µg/L	5..[B]	5 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U
Dichloropropane, 1,2-	µg/L	1[B]	***5 U***	***5 U***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 UJ***	***2.00 U***
Dichloropropene, cis-1,3-	µg/L	0.4$_p$[B]	***5 U***	***5 U***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 UJ***	***2.00 U***
Dichloropropene, trans-1,3-	µg/L	0.4$_p$[B]	***5 U***	***5 U***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 UJ***	***2.00 U***
Dioxane, 1,4-	µg/L	n/v	100 U	100 U	100 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U	20.0 U	20.0 U	20.0 UJ	20.0 UJ	20.0 U R	20.0 U R	20.0 U R

Table 2
Summary of Analytical Results in Groundwater
Former Carriage Factory
33 Litchfield Street, Rochester, New York

Area			On-Site Parking Lot															
Sample Location			B101MW		B102MW													
Sample Date			21-May-13	21-May-13	22-May-13	27-Mar-14	27-Mar-14	28-May-14	2-Jul-14	6-Aug-14	28-Oct-14	3-Feb-15	3-Feb-15	4-May-15	4-May-15	12-Aug-15	12-Aug-15	1-Feb-16
Sample ID			LI-B101MW-GW1	LI-B101MW-GW1DUP	LI-B102MW-GW1	LI-B102-MW	LI-DUP-MW	LI-B102-MW-PI1	LI-B102-MW-PI2	LI-B102-MW-PI3	LI-B102-MW-PI6	LI-B102-MW-PI9	LI-DUP-PI9	LI-B102-MW-PI12	LI-DUP-PI12	LI-B102-MW-PI15	LI-DUP-PI15	LI-B102-MW-PS3
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			CCGE	CCGE	CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH
Laboratory Work Order			E2314	E2314	E2342	141138	141138	142196	142794	143439	144730	150382	150382	151696	151696	153411	153411	160464
Laboratory Sample ID			E2314-01	E2314-02	E2342-04	141138-11	141138-14	142196-07	142794-09	143439-10	144730-10	150382-05	150382-13	151696-11	151696-10	153411-06	153411-07	160464-06
Sample Type	Units	TOGS		Field Duplicate			Field Duplicate						Field Duplicate		Field Duplicate		Field Duplicate	
Volatile Organic Compounds (cont'd)																		
Ethylbenzene	µg/L	5..[B]	5 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.0006[B]	***5 U***	***5 U***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 UJ***	***2.00 U***
Hexanone, 2- (Methyl Butyl Ketone)	µg/L	50[A]	25 U	25 U	25 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 UJ	5.00 U
Isopropylbenzene	µg/L	5..[B]	5 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U
Isopropyltoluene, p- (Cymene)	µg/L	5..[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Acetate	µg/L	n/v	5 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	50[A]	25 U	25 U	25 U	10.0 UJ	10.0 UJ	10.0 U	27.8 J	10.0 U	10.0 UJ	10.0 UJ	10.0 UJ	10.0 U	10.0 U	10.0 UJ	10.0 UJ	9.98 J
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	25 U	25 U	25 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 UJ	5.00 U
Methyl tert-butyl ether (MTBE)	µg/L	10[A]	5 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U
Methylcyclohexane	µg/L	n/v	5 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U
Methylene Chloride (Dichloromethane)	µg/L	5..[B]	5 U	5 U	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 UJ	5.00 U
Naphthalene	µg/L	10[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propylbenzene, n-	µg/L	5..[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	5..[B]	5 U	5 U	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 UJ	5.00 U
Tetrachloroethane, 1,1,2,2-	µg/L	5..[B]	5 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U
Tetrachloroethene (PCE)	µg/L	5..[B]	1.6 J	1.2 J	**20.9[B]**	**24.4[B]**	**25.4[B]**	**20.6[B]**	**26.4[B]**	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U
Toluene	µg/L	5..[B]	5 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U
Trichlorobenzene, 1,2,3-	µg/L	5..[B]	5 U	5 U	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 UJ	5.00 U
Trichlorobenzene, 1,2,4-	µg/L	5..[B]	5 U	5 U	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 UJ	5.00 U
Trichloroethane, 1,1,1-	µg/L	5..[B]	5 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U
Trichloroethane, 1,1,2-	µg/L	1[B]	***5 U***	***5 U***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 UJ***	***2.00 U***
Trichloroethene (TCE)	µg/L	5..[B]	0.51 J	5 U	**14.9[B]**	**9.78[B]**	**10.2[B]**	**7.72[B]**	**15.3[B]**	2.09	2.00 U	2.00 U	2.00 U	2.38	2.42	2.00 UJ	2.00 UJ	2.00 U
Trichlorofluoromethane (Freon 11)	µg/L	5..[B]	5 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U
Trichlorotrifluoroethane (Freon 113)	µg/L	5..[B]	5 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U
Trimethylbenzene, 1,2,4-	µg/L	5..[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trimethylbenzene, 1,3,5-	µg/L	5..[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Acetate	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	µg/L	2[B]	***5 U***	***5 U***	0.53 J	2.00 U	2.00 U	2.00 U	1.45 J	**4.49[B]**	**20.8[B]**	**11.7 NJ[B]**	**11.9[B]**	**11.0[B]**	**11.3[B]**	**8.78 J-[B]**	**8.78 J-[B]**	2.00 U
Xylene, m & p-	µg/L	5..[B]	***10 U***	***10 U***	***10 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U
Xylene, o-	µg/L	5..[B]	5 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U
Total VOC	µg/L	n/v	2.11	1.2	43.83	38.63	40.04	32.93	84.53	75.28	27.81	11.7	11.9	17.48	17.83	11.53 J-	11.52 J-	9.98
Volatile Organic Tentatively Identified Compounds																		
Total VOC TICs	µg/L	n/v	2.5 U	2.5 U	2.5 U	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 2
Summary of Analytical Results in Groundwater
Former Carriage Factory
33 Litchfield Street, Rochester, New York

Area			On-Site Parking Lot														On-Site Building									
Sample Location			RW-4											RW-11			B106MW									
Sample Date			25-Apr-12	22-May-13	26-Mar-14	29-May-14	2-Jul-14	6-Aug-14	29-Oct-14	4-Feb-15	4-May-15	13-Aug-15	1-Feb-16	14-Jun-12	22-May-13	27-Mar-14	23-May-13	26-Mar-14	28-May-14	2-Jul-14	7-Aug-14	28-Oct-14	3-Feb-15	5-May-15	12-Aug-15	2-Feb-16
Sample ID			RW-4	LI-RW-4-GW1	LI-RW-4	LI-RW-4-PI1	LI-RW-4-PI2	LI-RW-4-PI3	LI-RW4-PI6	LI-RW-4-PI9	LI-RW-4-PI12	LI-RW-4-PI15	LI-RW-4-PS3	RW-11	LI-RW-11-GW1	LI-RW-11	LI-B106MW-GW1	LI-B106MW	LI-B106-MW-PI1	LI-B106-MW-PI2	LI-B106-MW-PI3	LI-B106-MW-PI6	LI-B106-MW-PI9	LI-B106-MW-PI12	LI-B106-MW-PI15	LI-B106-MW-PS3
Sampling Company			DECI	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	DECI	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			PARAROCH	CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	CCGE	PARAROCH	CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH
Laboratory Work Order			12:1770	E2342	141138	142196	142794	143439	144730	150382	151696	153411	160464	12:2523	E2342	141138	E2363	141138	142196	142794	143439	144730	150382	151696	153411	160464
Laboratory Sample ID			12:1770-01	E2342-03	141138-04	142196-13	142794-10	143439-04	144730-04	150382-11	151696-04	153411-13	160464-07	12:2523-03	E2342-02	141138-09	E2363-03	141138-12	142196-06	142794-11	143439-11	144730-11	150382-06	151696-12	153411-05	160464-12
Sample Type	Units	TOGS																								
General Chemistry																										
Total Organic Carbon	µg/L	n/v	-	-	-	8200	339000	63000	6900	5900	5400	15000 J-	234000	-	-	-	-	-	188000	514000	77600	4000 J-	3100 J+	1500	3200 J-	18900
Metals																										
Aluminum	µg/L	n/v	-	43.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	µg/L	3[B]	-	***12.5 U***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	25[B]	-	5.000 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	1000[B]	-	151	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	3[A]	-	1.500 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	5[B]	-	1.500 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	µg/L	n/v	-	141000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	50[B]	-	2.500 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	n/v	-	7.500 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	200[B]	-	5.000 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	µg/L	300.[B]	-	11.7 J	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	25[B]	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	µg/L	35000[A]	-	29800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	µg/L	300.[B]	-	**667 J[B]**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	0.7[B]	-	0.200 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	100[B]	-	6.32 J	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	µg/L	n/v	-	17800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	10[B]	-	5.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	50[B]	-	2.500 U N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	20000[B]	-	8750	-	**22300[B]**	**298000[B]**	**222000[B]**	**43500[B]**	**110000[B]**	**86900[B]**	**395000 J-[B]**	-	-	-	-	-	-	**162000[B]**	**375000[B]**	**185000[B]**	**59200[B]**	**50200[B]**	**40100[B]**	**42100 J-[B]**	-
Thallium	µg/L	0.5[A]	-	***10.0 U***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	n/v	-	10.0 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	2000[A]	-	18.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds																										
Acetone	µg/L	50[A]	10.0 UJ	25 U	10.0 U	6.72 J	10.0 U	12.7 J	10.0 U	10.0 UJ	10.0 U	10.0 UJ	9.92 J+	-	25 U	10.0 U	25 U	10.0 U	10.0 U	12.9	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 UJ	10.0 U
Benzene	µg/L	1[B]	0.700 UJ	***5 U***	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.00 UJ	1.00 U	-	***5 U***	1 U	***5 U***	1 U	1 U	0.842 J	0.391 J	1 U	1 U	1 U	1.00 UJ	1.00 U
Bromodichloromethane	µg/L	50[A]	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Bromoform (Tribromomethane)	µg/L	50[A]	5.00 UJ	5 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5 U	5.00 U	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U
Bromomethane (Methyl bromide)	µg/L	5..[B]	2.00 UJ	5 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 UJ	5 U	2.00 U	5 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Butylbenzene, n-	µg/L	5..[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butylbenzene, sec- (2-Phenylbutane)	µg/L	5..[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butylbenzene, tert-	µg/L	5..[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	µg/L	60[A]	2.00 UJ	5 U	2.00 U	2.00 U	3.04	3.64	2.00 U	2.00 U	2.00 U	2.00 UJ	1.26 J	-	5 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 UJ	5 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Chlorobenzene (Monochlorobenzene)	µg/L	5..[B]	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Chlorobromomethane	µg/L	5..[B]	-	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	-	5 U Q	5.00 U	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U
Chloroethane (Ethyl Chloride)	µg/L	5..[B]	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Chloroethyl Vinyl Ether, 2-	µg/L	n/v	10.0 U R	-	-	-	-	-	-	-	-	-	-	10.0 U R	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	7[B]	2.00 UJ	5 U	2.00 U	2.00 U	1.91 J	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Chloromethane	µg/L	5..[B]	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Cyclohexane	µg/L	n/v	-	5 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 UJ	10.0 U	-	5 U	10.0 U	0.69 J	10.0 U	10.0 U	15.8	7.47 J	10.0 U	10.0 U	10.0 U	10.0 UJ	10.0 U
Dibromo-3-Chloropropane, 1,2- (DBCP)	µg/L	0.04[B]	-	***5 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 UJ***	***10.0 U***	-	***5 U***	***10.0 U***	***5 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 UJ***	***10.0 U***
Dibromochloromethane	µg/L	50[A]	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Dichlorobenzene, 1,2-	µg/L	3[B]	2.00 UJ	***5 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	***5 U***	2.00 U	***5 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Dichlorobenzene, 1,3-	µg/L	3[B]	2.00 UJ	***5 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	***5 U***	2.00 U	***5 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Dichlorobenzene, 1,4-	µg/L	3[B]	2.00 UJ	***5 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	***5 U***	2.00 U	***5 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Dichlorodifluoromethane (Freon 12)	µg/L	5..[B]	-	5 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	-	5 U	2.00 U	5 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Dichloroethane, 1,1-	µg/L	5..[B]	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Dichloroethane, 1,2-	µg/L	0.6[B]	***2.00 UJ***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***	***2.00 UJ***	***5 U***	***2.00 U***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***
Dichloroethene, 1,1-	µg/L	5..[B]	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Dichloroethene, cis-1,2-	µg/L	5..[B]	**23.1 J[B]**	**14.9[B]**	**6.41[B]**	**9.56[B]**	**13.4[B]**	**87.9[B]**	**47.3[B]**	**23.7[B]**	**14.8[B]**	**21.8 J-[B]**	**14.0[B]**	2.00 U	5 U	2.00 U	**16.9[B]**	**6.89[B]**	**8.67[B]**	**28.4[B]**	**16.3[B]**	**40.4[B]**	**26.0[B]**	**10.2[B]**	**8.52 J-[B]**	2.00 U
Dichloroethene, trans-1,2-	µg/L	5..[B]	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	1.11 J	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	1.4 J	2.00 U	2.00 U	3.84	1.61 J	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Dichloropropane, 1,2-	µg/L	1[B]	***2.00 UJ***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***	***2.00 U***	***5 U***	***2.00 U***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***
Dichloropropene, cis-1,3-	µg/L	0.4_p[B]	***2.00 UJ***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***	***2.00 U***	***5 U***	***2.00 U***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***
Dichloropropene, trans-1,3-	µg/L	0.4_p[B]	***2.00 UJ***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***	***2.00 U***	***5 U***	***2.00 U***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***
Dioxane, 1,4-	µg/L	n/v	-	100 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U	20.0 U	20.0 UJ	20.0 U R	20.0 U R	-	100 U R	20.0 U R	100 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U	20.0 U	20.0 UJ	20.0 U R	20.0 U R

Table 2
Summary of Analytical Results in Groundwater
Former Carriage Factory
33 Litchfield Street, Rochester, New York

Area			On-Site Parking Lot														On-Site Building									
Sample Location			RW-4											RW-11			B106MW									
Sample Date			25-Apr-12	22-May-13	26-Mar-14	29-May-14	2-Jul-14	6-Aug-14	29-Oct-14	4-Feb-15	4-May-15	13-Aug-15	1-Feb-16	14-Jun-12	22-May-13	27-Mar-14	23-May-13	26-Mar-14	28-May-14	2-Jul-14	7-Aug-14	28-Oct-14	3-Feb-15	5-May-15	12-Aug-15	2-Feb-16
Sample ID			RW-4	LI-RW-4-GW1	LI-RW-4	LI-RW-4-PI1	LI-RW-4-PI2	LI-RW-4-PI3	LI-RW4-PI6	LI-RW-4-PI9	LI-RW-4-PI12	LI-RW-4-PI15	LI-RW-4-PS3	RW-11	LI-RW-11-GW1	LI-RW-11	LI-B106MW-GW1	LI-B106MW	LI-B106-MW-PI1	LI-B106-MW-PI2	LI-B106-MW-PI3	LI-B106-MW-PI6	LI-B106-MW-PI9	LI-B106-MW-PI12	LI-B106-MW-PI15	LI-B106-MW-PS3
Sampling Company			DECI	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	DECI	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			PARAROCH	CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	CCGE	PARAROCH	CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH
Laboratory Work Order			12:1770	E2342	141138	142196	142794	143439	144730	150382	151696	153411	160464	12:2523	E2342	141138	E2363	141138	142196	142794	143439	144730	150382	151696	153411	160464
Laboratory Sample ID			12:1770-01	E2342-03	141138-04	142196-13	142794-10	143439-04	144730-04	150382-11	151696-04	153411-13	160464-07	12:2523-03	E2342-02	141138-09	E2363-03	141138-12	142196-06	142794-11	143439-11	144730-11	150382-06	151696-12	153411-05	160464-12
Sample Type	Units	TOGS																								
Volatile Organic Compounds (cont'd)																										
Ethylbenzene	µg/L	5[B]	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	-	5 U	2.00 U	5 U	2.00 U	2.00 U	1.79 J	1.20 J	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.0006[B]	-	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***	-	***5 U***	***2.00 U***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***
Hexanone, 2- (Methyl Butyl Ketone)	µg/L	50[A]	5.00 UJ	25 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	-	25 U	5.00 U	25 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U
Isopropylbenzene	µg/L	5[B]	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	-	5 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Isopropyltoluene, p- (Cymene)	µg/L	5[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Acetate	µg/L	n/v	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	5.93	2.00 U	2.00 U	2.00 UJ	2.00 U	-	5 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	50[A]	10.0 UJ	25 U	10.0 UJ	10.0 U	20.8 J	15.8	10.0 UJ	10.0 UJ	10.0 U	10.0 UJ	**58.1[A]**	-	25 U	10.0 UJ	25 U	10.0 UJ	10.7	**151 J[A]**	31.6	10.0 UJ	10.0 UJ	10.0 U	10.0 UJ	36.6
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	5.00 UJ	25 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	-	25 U	5.00 U	25 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U
Methyl tert-butyl ether (MTBE)	µg/L	10[A]	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	-	5 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Methylcyclohexane	µg/L	n/v	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	-	5 U	2.00 U	0.77 J	2.00 U	2.03	11.7	6.30	1.21 J	2.00 U	2.00 U	2.00 UJ	2.00 U
Methylene Chloride (Dichloromethane)	µg/L	5[B]	5.00 UJ	5 U	4.35 JB	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5 U	5.00 U	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U
Naphthalene	µg/L	10[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propylbenzene, n-	µg/L	5[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	5[B]	5.00 UJ	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	-	5 U	5.00 U	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U
Tetrachloroethane, 1,1,2,2-	µg/L	5[B]	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Tetrachloroethene (PCE)	µg/L	5[B]	**62.6 J[B]**	**55.8[B]**	**62.7[B]**	**76.0[B]**	**73.0[B]**	**54.5[B]**	**10.3[B]**	**9.17[B]**	**18.7[B]**	**9.40 J-[B]**	2.00 U	2.00 U	1.3 J	1.11 J	**14.8[B]**	**21.7[B]**	**9.51[B]**	**11.7[B]**	**7.73[B]**	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Toluene	µg/L	5[B]	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	-	5 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Trichlorobenzene, 1,2,3-	µg/L	5[B]	-	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	-	5 U	5.00 U	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U
Trichlorobenzene, 1,2,4-	µg/L	5[B]	-	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	-	5 U	5.00 U	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U
Trichloroethane, 1,1,1-	µg/L	5[B]	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Trichloroethane, 1,1,2-	µg/L	1[B]	***2.00 UJ***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***	***2.00 U***	***5 U***	***2.00 U***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***
Trichloroethene (TCE)	µg/L	5[B]	**21.4 J[B]**	**19.8[B]**	**10.3[B]**	**18.0[B]**	**20.4[B]**	**34.3[B]**	**13.7[B]**	**5.85[B]**	**8.94[B]**	**6.51 J-[B]**	2.00 U	2.00 U	5 U	2.00 U	**12[B]**	**8.27[B]**	**5.11[B]**	**9.44[B]**	**16.6[B]**	2.23	2.00 U	2.12	1.62 J-	2.00 U
Trichlorofluoromethane (Freon 11)	µg/L	5[B]	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 UJ	5 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Trichlorotrifluoroethane (Freon 113)	µg/L	5[B]	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	-	5 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Trimethylbenzene, 1,2,4-	µg/L	5[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trimethylbenzene, 1,3,5-	µg/L	5[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Acetate	µg/L	n/v	5.00 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	µg/L	2[B]	**3.86 J[B]**	1.8 J	1.72 J	2.00 U	**3.07[B]**	2.00 U	**28.4[B]**	**4.58 NJ[B]**	2.00 U	1.42 J-	**7.98[B]**	2.00 U	***5 U***	2.00 U	**2.1 J[B]**	2.00 U	**2.84[B]**	**15.2[B]**	**7.60[B]**	**15.2[B]**	**12.8[B]**	**4.89 NJ[B]**	**5.37 J-[B]**	1.32 J
Xylene, m & p-	µg/L	5[B]	2.00 UJ	***10 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	-	***10 U***	2.00 U	***10 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Xylene, o-	µg/L	5[B]	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	-	5 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Total VOC	µg/L	n/v	110.96	92.3	85.48	110.28	135.62	209.95	105.63	43.3	47.59	39.13 J-	91.26	ND	1.3	1.11	48.66	36.86	38.86	262.612	96.801	59.04	38.8	17.21	15.51 J-	37.92
Volatile Organic Tentatively Identified Compounds																										
Total VOC TICs	µg/L	n/v	-	2.5 U	-	-	-	-	-	-	-	-	-	-	2.5 U	-	2.5 U	-	-	-	-	-	-	-	-	-

Table 2
Summary of Analytical Results in Groundwater
Former Carriage Factory
33 Litchfield Street, Rochester, New York

Area			On-Site Building																					
Sample Location			B108MW											RW-1										
Sample Date			23-May-13	26-Mar-14	28-May-14	28-May-14	2-Jul-14	8-Aug-14	29-Oct-14	3-Feb-15	5-May-15	12-Aug-15	2-Feb-16	23-Mar-12	23-May-13	26-Mar-14	29-May-14	1-Jul-14	8-Aug-14	29-Oct-14	3-Feb-15	5-May-15	12-Aug-15	2-Feb-16
Sample ID			LI-B108MW-GW1	LI-B108-MW	LI-B108-MW-PI1	LI-MW-DUP-PI1	LI-B108-MW-PI2	LI-B108-MW-PI3	LI-B108-MW-PI6	LI-B108-MW-PI9	LI-B108-MW-PI12	LI-B108-MW-PI15	LI-B108-MW-PS3	RW-1	LI-RW-1-GW1	LI-RW-1	LI-RW-1-PI1	LI-RW-1-PI2	LI-RW-1-PI3	LI-RW1-PI6	LI-RW-1-PI9	LI-RW-1-PI12	LI-RW-1-PI15	LI-RW-1-PS3
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	DECI	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH
Laboratory Work Order			E2363	141138	142196	142196	142794	143439	144730	150382	151696	153411	160464	12:1239	E2363	141138	142196	142794	143439	144730	150382	151696	153411	160464
Laboratory Sample ID			E2363-02	141138-13	142196-04	142196-05	142794-12	143439-12	144730-12	150382-07	151696-13	153411-04	160464-08	12:1239-01	E2363-01	141138-01	142196-09	142794-08	143439-01	144730-01	150382-01	151696-01	153411-01	160464-11
Sample Type	Units	TOGS				Field Duplicate																		
General Chemistry																								
Total Organic Carbon	µg/L	n/v	-	3300	60300	60200	86100	72200	45000	18100 J	1700	3400 J-	101000	-	-	-	1060000	415000	43500	103000	9900	4500	7900	4960
Metals																								
Aluminum	µg/L	n/v	66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	µg/L	3[B]	***12.5 U***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	25[B]	6.2	10 U	10 U	10 U	10 U	10 U	10 U	5.92 J	10.0 U	9.02 J-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	1000[B]	54.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	3[A]	1.500 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	5[B]	0.7 J	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	µg/L	n/v	97000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	50[B]	2.500 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	n/v	7.500 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	200[B]	4.16 J	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	µg/L	300.[B]	45.3	100 U	**1400[B]**	**978[B]**	**3520[B]**	**2480[B]**	**2350[B]**	**2660[B]**	**999[B]**	**3540 J-[B]**	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	25[B]	4.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	µg/L	35000[A]	23200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	µg/L	300.[B]	46.4 J	187	184	179	217	158	106	87.6	81.8	131 J-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	0.7[B]	0.200 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	100[B]	2.1 J	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	µg/L	n/v	10500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	10[B]	5.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	50[B]	2.500 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	20000[B]	**26300[B]**	**33000[B]**	**103000[B]**	**101000[B]**	**100000 M[B]**	**115000[B]**	**82900[B]**	**130000[B]**	**42400[B]**	**72000 J-[B]**	-	-	-	-	**146000[B]**	**331000[B]**	**137000[B]**	**146000[B]**	**85700[B]**	**175000[B]**	**668000[B]**	-
Thallium	µg/L	0.5[A]	***10.0 U***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	n/v	10.0 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	2000[A]	8.94 J	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds																								
Acetone	µg/L	50[A]	25 U	10.0 U	10.0 U	10.0 U	6.04 J	8.49 J	10.0 U	6.51 J	10.0 U	10.0 UJ	10.0 U	10.0 U	25 U	10.0 U	10.0 U	10.0 U	10.0 U	15.2	10.0 UJ	10.0 U	10.0 U	10.0 U
Benzene	µg/L	1[B]	***5 U***	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.00 UJ	1.00 U	0.700 U	0.49 NJ	1 U	1 U	1 U	1 U	0.561 J	1 U	1 U	1.00 U	1.00 U
Bromodichloromethane	µg/L	50[A]	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U M	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Bromoform (Tribromomethane)	µg/L	50[A]	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Bromomethane (Methyl bromide)	µg/L	5..[B]	5 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U M	2.00 U	5 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Butylbenzene, n-	µg/L	5..[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butylbenzene, sec- (2-Phenylbutane)	µg/L	5..[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butylbenzene, tert-	µg/L	5..[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	µg/L	60[A]	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Chlorobenzene (Monochlorobenzene)	µg/L	5..[B]	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Chlorobromomethane	µg/L	5..[B]	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	-	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Chloroethane (Ethyl Chloride)	µg/L	5..[B]	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Chloroethyl Vinyl Ether, 2-	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	10.0 U R	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	7[B]	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Chloromethane	µg/L	5..[B]	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Cyclohexane	µg/L	n/v	5 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 UJ	10.0 U	-	4.5 NJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Dibromo-3-Chloropropane, 1,2- (DBCP)	µg/L	0.04[B]	***5 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 UJ***	***10.0 U***	-	***5 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***
Dibromochloromethane	µg/L	50[A]	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	10.4	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Dichlorobenzene, 1,2-	µg/L	3[B]	***5 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	***5 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Dichlorobenzene, 1,3-	µg/L	3[B]	***5 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	***5 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Dichlorobenzene, 1,4-	µg/L	3[B]	***5 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	***5 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Dichlorodifluoromethane (Freon 12)	µg/L	5..[B]	5 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	-	5 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Dichloroethane, 1,1-	µg/L	5..[B]	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Dichloroethane, 1,2-	µg/L	0.6[B]	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***	***2.00 U***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***
Dichloroethene, 1,1-	µg/L	5..[B]	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Dichloroethene, cis-1,2-	µg/L	5..[B]	**5.7[B]**	2.00 U	**11.0[B]**	**10.9[B]**	**23.2[B]**	4.99	1.96 J	1.87 J	1.49 J	2.10 J-	**11.8[B]**	**6.88[B]**	**14.5[B]**	**5.57[B]**	4.53	4.71	**8.12[B]**	2.00 U	2.00 U	2.00 U	1.09 J	2.00 U
Dichloroethene, trans-1,2-	µg/L	5..[B]	5 U	2.00 U	2.00 U	2.00 U	2.04	1.37 J	2.00 U	1.42 J	2.00 U	2.00 UJ	2.00 U	2.00 U	4.2 J	2.00 U	2.00 U	1.03 J	2.00 U	1.34 J	2.00 U	2.00 U	1.22 J	2.00 U
Dichloropropane, 1,2-	µg/L	1[B]	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***	***2.00 U***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***
Dichloropropene, cis-1,3-	µg/L	0.4_p[B]	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U M***	***2.00 U***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***
Dichloropropene, trans-1,3-	µg/L	0.4_p[B]	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***	***2.00 U***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***
Dioxane, 1,4-	µg/L	n/v	100 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U	20.0 U	20.0 UJ	20.0 U R	20.0 U R	-	100 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U	20.0 U	20.0 UJ	20.0 U R	20.0 U R

Table 2
Summary of Analytical Results in Groundwater
Former Carriage Factory
33 Litchfield Street, Rochester, New York

Area			On-Site Building																				
Sample Location			B108MW											RW-1									
Sample Date			23-May-13	26-Mar-14	28-May-14	28-May-14	2-Jul-14	8-Aug-14	29-Oct-14	3-Feb-15	5-May-15	12-Aug-15	2-Feb-16	23-Mar-12	23-May-13	26-Mar-14	29-May-14	1-Jul-14	8-Aug-14	29-Oct-14	3-Feb-15	5-May-15	12-Aug-15	2-Feb-16
Sample ID			LI-B108MW-GW1	LI-B108-MW	LI-B108-MW-PI1	LI-MW-DUP-PI1	LI-B108-MW-PI2	LI-B108-MW-PI3	LI-B108-MW-PI6	LI-B108-MW-PI9	LI-B108-MW-PI12	LI-B108-MW-PI15	LI-B108-MW-PS3	RW-1	LI-RW-1-GW1	LI-RW-1	LI-RW-1-PI1	LI-RW-1-PI2	LI-RW-1-PI3	LI-RW1-PI6	LI-RW-1-PI9	LI-RW-1-PI12	LI-RW-1-PI15	LI-RW-1-PS3
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	DECI	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH
Laboratory Work Order			E2363	141138	142196	142196	142794	143439	144730	150382	151696	153411	160464	12:1239	E2363	141138	142196	142794	143439	144730	150382	151696	153411	160464
Laboratory Sample ID			E2363-02	141138-13	142196-04	142196-05	142794-12	143439-12	144730-12	150382-07	151696-13	153411-04	160464-08	12:1239-01	E2363-01	141138-01	142196-09	142794-08	143439-01	144730-01	150382-01	151696-01	153411-01	160464-11
Sample Type	Units	TOGS				Field Duplicate																		
Volatile Organic Compounds (cont'd)																								
Ethylbenzene	µg/L	5..[B]	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.0006[B]	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***	-	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***
Hexanone, 2- (Methyl Butyl Ketone)	µg/L	50[A]	25 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	25 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Isopropylbenzene	µg/L	5..[B]	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Isopropyltoluene, p- (Cymene)	µg/L	5..[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Acetate	µg/L	n/v	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	50[A]	25 U	10.0 UJ	13.9	12.8	41.5 J	**63.8[A]**	22.9 J	23.0 J	10.0 U	10.0 UJ	16.3	10.0 U	25 U	10.0 UJ	6.42 J	**87.3 J[A]**	9.42 NJ	**57.3 J[A]**	10.0 UJ	10.0 U	10.0 U	10.0 U
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	25 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	25 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Methyl tert-butyl ether (MTBE)	µg/L	10[A]	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Methylcyclohexane	µg/L	n/v	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	-	3.1 J	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Methylene Chloride (Dichloromethane)	µg/L	5..[B]	5 U	4.93 JB	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5 U	2.84 JB	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Naphthalene	µg/L	10[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propylbenzene, n-	µg/L	5..[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	5..[B]	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Tetrachloroethane, 1,1,2,2-	µg/L	5..[B]	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Tetrachloroethene (PCE)	µg/L	5..[B]	**15.9[B]**	**6.45[B]**	**10.1[B]**	**9.75[B]**	**10.7[B]**	**9.63[B]**	**10.4[B]**	**6.73[B]**	**14.4[B]**	**9.41 J-[B]**	**5.17[B]**	**6.72[B]**	3.6 J	**5.35[B]**	**10.1[B]**	**6.14[B]**	2.65	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Toluene	µg/L	5..[B]	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Trichlorobenzene, 1,2,3-	µg/L	5..[B]	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	-	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Trichlorobenzene, 1,2,4-	µg/L	5..[B]	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	-	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Trichloroethane, 1,1,1-	µg/L	5..[B]	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Trichloroethane, 1,1,2-	µg/L	1[B]	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***	***2.00 U***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***
Trichloroethene (TCE)	µg/L	5..[B]	**8.5[B]**	1.05 J	4.17	4.15	4.21	1.65 J	4.04	2.93	2.72	2.12 J-	**6.57[B]**	**7.15[B]**	**8.1[B]**	4.02	**6.09[B]**	4.52	**5.49[B]**	2.00 U	2.00 U	2.00 U	1.36 J	2.00 U
Trichlorofluoromethane (Freon 11)	µg/L	5..[B]	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Trichlorotrifluoroethane (Freon 113)	µg/L	5..[B]	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Trimethylbenzene, 1,2,4-	µg/L	5..[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trimethylbenzene, 1,3,5-	µg/L	5..[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Acetate	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	5.00 U	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	µg/L	2[B]	***5 U***	2.00 U	**2.75[B]**	**2.61[B]**	**10.2[B]**	**14.6[B]**	**4.23[B]**	2.00 U	2.00 U	**2.37 J-[B]**	**9.05[B]**	**3.99[B]**	**7.7[B]**	2.00 U	1.45 NJ	**4.61 NJ[B]**	**5.29 NJ[B]**	2.00 U	2.00 U	**2.98 NJ[B]**	2.00 U	**2.84[B]**
Xylene, m & p-	µg/L	5..[B]	***10 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	***10 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Xylene, o-	µg/L	5..[B]	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Total VOC	µg/L	n/v	30.1	12.43	41.92	40.21	97.89	104.53	53.93	42.46	18.61	16 J-	48.89	24.74	46.19	17.78	28.59	108.31	30.97	74.40	1.43	2.98	3.67	2.84
Volatile Organic Tentatively Identified Compounds																								
Total VOC TICs	µg/L	n/v	2.5 U	-	-	-	-	-	-	-	-	-	-	-	4.900 J	-	-	-	-	-	-	-	-	-

Table 2
Summary of Analytical Results in Groundwater
Former Carriage Factory
33 Litchfield Street, Rochester, New York

Area			On-Site Building																				
Sample Location			RW-2											RW-3									
Sample Date			23-Mar-12	21-May-13	26-Mar-14	29-May-14	1-Jul-14	8-Aug-14	29-Oct-14	3-Feb-15	5-May-15	12-Aug-15	2-Feb-16	23-Mar-12	22-May-13	26-Mar-14	29-May-14	1-Jul-14	7-Aug-14	29-Oct-14	3-Feb-15	5-May-15	12-Aug-15	2-Feb-16
Sample ID			RW-2	LI-RW-2-GW1	LI-RW-2	LI-RW-2-PI1	LI-RW-2-PI2	LI-RW-2-PI3	LI-RW2-PI6	LI-RW-2-PI9	LI-RW-2-PI12	LI-RW-2-PI15	LI-RW-2-PS3	RW-3	LI-RW-3-GW1	LI-RW-3	LI-RW-3-PI1	LI-RW-3-PI2	LI-RW-3-PI3	LI-RW3-PI6	LI-RW-3-PI9	LI-RW-3-PI12	LI-RW-3-PI15	LI-RW-3-PS3
Sampling Company			DECI	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	DECI	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			PARAROCH	CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH
Laboratory Work Order			12:1239	E2314	141138	142196	142794	143439	144730	150382	151696	153411	160464	12:1239	E2342	141138	142196	142794	143439	144730	150382	151696	153411	160464
Laboratory Sample ID			12:1239-02	E2314-03	141138-02	142196-10	142794-07	143439-02	144730-02	150382-02	151696-02	153411-02	160464-10	12:1239-03	E2342-01	141138-03	142196-11	142794-06	143439-03	144730-03	150382-03	151696-03	153411-03	160464-09
Sample Type	Units	TOGS																					
General Chemistry																							
Total Organic Carbon	µg/L	n/v	-	-	3200	553000	150000	259000	23900	9800	2700	10100	81100	-	-	-	229000	87900	12700	11000	10300	6100	7600 J-	218000
Metals																							
Aluminum	µg/L	n/v	-	64.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	µg/L	3[B]	-	***12.5 U***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	25[B]	-	5.000 U	10 U	10 U	10 U	10 U	10 U	10 U	10.0 U	5.33 J	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	1000[B]	-	59.7 N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	3[A]	-	1.500 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	5[B]	-	1.500 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	µg/L	n/v	-	87300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	50[B]	-	2.500 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	n/v	-	7.500 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	200[B]	-	5.000 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	µg/L	300.[B]	-	169	300	**2220[B]**	**1210[B]**	**937[B]**	**1430[B]**	**498[B]**	**1850[B]**	**4060[B]**	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	25[B]	-	9.61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	µg/L	35000[A]	-	29500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	µg/L	300.[B]	-	**305 J[B]**	120	233	60.8	108	187	47.5	66.3	118	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	0.7[B]	-	0.200 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	100[B]	-	10.0 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	µg/L	n/v	-	22600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	10[B]	-	5.000 U N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	50[B]	-	2.500 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	20000[B]	-	**35600[B]**	**39100[B]**	**370000[B]**	**290000[B]**	**197000[B]**	**152000[B]**	**129000[B]**	**60600[B]**	**114000[B]**	-	-	-	-	**252000[B]**	**199000[B]**	**103000[B]**	**125000[B]**	**120000[B]**	**85300[B]**	**91100 J-[B]**	-
Thallium	µg/L	0.5[A]	-	***10.0 U***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	n/v	-	10.0 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	2000[A]	-	14.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds																							
Acetone	µg/L	50[A]	10.0 U	**160[A]**	10.0 U	32.4	19.4	9.47 J	10.0 U	10.0 UJ	10.0 U	10.0 U	7.44 J+	10.0 U	25 U	10.0 U	**132[A]**	43.2 J	47.6 J	10.0 U	10.0 UJ	10.0 U	10.0 UJ	20.2 J+
Benzene	µg/L	1[B]	0.700 U	***5 U***	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.00 U	1.00 U	0.700 U	***5 U***	1 U	***5 U***	1 U	1 U	1 U	1 U	1 U	1.00 UJ	1.00 U
Bromodichloromethane	µg/L	50[A]	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U	10.0 U	10.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Bromoform (Tribromomethane)	µg/L	50[A]	5.00 U	5 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5 U	5.00 U	25.0 U	25.0 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U
Bromomethane (Methyl bromide)	µg/L	5..[B]	2.00 U	5 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U	***10.0 U***	***10.0 UJ***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Butylbenzene, n-	µg/L	5..[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butylbenzene, sec- (2-Phenylbutane)	µg/L	5..[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butylbenzene, tert-	µg/L	5..[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	µg/L	60[A]	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U	10.0 U	10.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U	***10.0 U***	***10.0 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Chlorobenzene (Monochlorobenzene)	µg/L	5..[B]	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U	***10.0 U***	***10.0 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Chlorobromomethane	µg/L	5..[B]	-	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	-	5 U	5.00 U	***25.0 U***	***25.0 U***	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U
Chloroethane (Ethyl Chloride)	µg/L	5..[B]	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U	***10.0 U***	***10.0 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Chloroethyl Vinyl Ether, 2-	µg/L	n/v	10.0 U R	-	-	-	-	-	-	-	-	-	-	10.0 U R	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	7[B]	2.00 U	0.67 J	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	3.78	3.9 J	2.00 U	***10.0 U***	***10.0 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Chloromethane	µg/L	5..[B]	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U	***10.0 U***	***10.0 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Cyclohexane	µg/L	n/v	-	5 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	-	5 U	10.0 U	50.0 U	50.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 UJ	10.0 U
Dibromo-3-Chloropropane, 1,2- (DBCP)	µg/L	0.04[B]	-	***5 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	-	***5 U***	***10.0 U***	***50.0 U***	***50.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 UJ***	***10.0 U***
Dibromochloromethane	µg/L	50[A]	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U	10.0 U	10.0 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Dichlorobenzene, 1,2-	µg/L	3[B]	2.00 U	***5 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	***5 U***	2.00 U	***10.0 U***	***10.0 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Dichlorobenzene, 1,3-	µg/L	3[B]	2.00 U	***5 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	***5 U***	2.00 U	***10.0 U***	***10.0 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Dichlorobenzene, 1,4-	µg/L	3[B]	2.00 U	***5 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	***5 U***	2.00 U	***10.0 U***	***10.0 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Dichlorodifluoromethane (Freon 12)	µg/L	5..[B]	-	5 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	-	5 U	2.00 U	***10.0 U***	***10.0 UJ***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Dichloroethane, 1,1-	µg/L	5..[B]	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U	***10.0 U***	***10.0 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Dichloroethane, 1,2-	µg/L	0.6[B]	***2.00 U***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***5 U***	***2.00 U***	***10.0 U***	***10.0 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***
Dichloroethene, 1,1-	µg/L	5..[B]	2.00 U	1 J	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U	***10.0 U***	***10.0 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Dichloroethene, cis-1,2-	µg/L	5..[B]	**26.6[B]**	**360 D[B]**	**38.8[B]**	**55.7[B]**	**51.3[B]**	**23.6[B]**	**87.7[A]**	4.37	2.00 U	**7.61[B]**	2.00 U	**81.8[B]**	**130[B]**	3.77	**30.1[B]**	**90.5[B]**	**143[B]**	3.35	1.40 J	1.23 J	2.00 UJ	2.00 U
Dichloroethene, trans-1,2-	µg/L	5..[B]	2.43	**11.4[B]**	2.39	3.06	2.50	3.57	**12.8[B]**	2.00 U	1.17 J	1.32 J	2.00 U	**10.2[B]**	**18.8[B]**	2.00 U	***10.0 U***	**7.12 J[B]**	3.16	4.47	**6.02[B]**	3.63	4.29 J-	2.77
Dichloropropane, 1,2-	µg/L	1[B]	***2.00 U***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***5 U***	***2.00 U***	***10.0 U***	***10.0 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***
Dichloropropene, cis-1,3-	µg/L	0.4_p[B]	***2.00 U***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***5 U***	***2.00 U***	***10.0 U***	***10.0 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***
Dichloropropene, trans-1,3-	µg/L	0.4_p[B]	***2.00 U***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***5 U***	***2.00 U***	***10.0 U***	***10.0 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***
Dioxane, 1,4-	µg/L	n/v	-	100 U	20.0 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U	20.0 U	20.0 UJ	20.0 U R	20.0 U R	-	100 U R	20.0 U R	100 U R	100 U R	20.0 U R	20.0 U	20.0 U	20.0 UJ	20.0 U R	20.0 U R

Table 2
Summary of Analytical Results in Groundwater
Former Carriage Factory
33 Litchfield Street, Rochester, New York

Area			On-Site Building																			
Sample Location			RW-2										RW-3									
Sample Date			23-Mar-12	21-May-13	26-Mar-14	29-May-14	1-Jul-14	8-Aug-14	29-Oct-14	3-Feb-15	5-May-15	12-Aug-15	2-Feb-16	23-Mar-12	22-May-13	26-Mar-14	29-May-14	1-Jul-14	7-Aug-14	29-Oct-14	3-Feb-15	5-May-15	12-Aug-15	2-Feb-16
Sample ID			RW-2	LI-RW-2-GW1	LI-RW-2	LI-RW-2-PI1	LI-RW-2-PI2	LI-RW-2-PI3	LI-RW2-PI6	LI-RW-2-PI9	LI-RW-2-PI12	LI-RW-2-PI15	LI-RW-2-PS3	RW-3	LI-RW-3-GW1	LI-RW-3	LI-RW-3-PI1	LI-RW-3-PI2	LI-RW-3-PI3	LI-RW3-PI6	LI-RW-3-PI9	LI-RW-3-PI12	LI-RW-3-PI15	LI-RW-3-PS3
Sampling Company			DECI	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	DECI	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			PARAROCH	CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH
Laboratory Work Order			12:1239	E2314	141138	142196	142794	143439	144730	150382	151696	153411	160464	12:1239	E2342	141138	142196	142794	143439	144730	150382	151696	153411	160464
Laboratory Sample ID			12:1239-02	E2314-03	141138-02	142196-10	142794-07	143439-02	144730-02	150382-02	151696-02	153411-02	160464-10	12:1239-03	E2342-01	141138-03	142196-11	142794-06	143439-03	144730-03	150382-03	151696-03	153411-03	160464-09
Sample Type	Units	TOGS																						
Volatile Organic Compounds (cont'd)																								
Ethylbenzene	µg/L	5[B]	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U	***10.0 U***	***10.0 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.0006[B]	-	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	-	***5 U***	***2.00 U***	***10.0 U***	***10.0 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***
Hexanone, 2- (Methyl Butyl Ketone)	µg/L	50[A]	5.00 U	25 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	25 U	5.00 U	25.0 U	25.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U
Isopropylbenzene	µg/L	5[B]	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	-	5 U	2.00 U	***10.0 U***	***10.0 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Isopropyltoluene, p- (Cymene)	µg/L	5[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Acetate	µg/L	n/v	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	3.03 NJ	2.00 U	2.00 U	2.00 U	2.00 U	-	5 U	2.00 U	10.0 U	10.0 U	2.00 U	2.87	2.00 U	2.00 U	2.00 UJ	2.00 U
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	50[A]	10.0 U	**110[A]**	10.0 UJ	**175 NJ[A]**	29.3 J	38.1	10.2 J	10.0 UJ	10.0 U	10.0 U	27.0	10.0 U	25 U	10.0 UJ	**404[A]**	**139 J[A]**	**60.0[A]**	10.0 UJ	10.0 UJ	10.0 U	10.0 UJ	27.7
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	5.00 U	25 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	25 U	5.00 U	25.0 U	25.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U
Methyl tert-butyl ether (MTBE)	µg/L	10[A]	-	2.4 J	1.08 J	1.61 NJ	2.00 U	1.92 J	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	-	7.1	2.00 U	10.0 U	10.0 U	2.00 U	2.00 U	3.43	2.12	2.04 J-	2.26
Methylcyclohexane	µg/L	n/v	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	-	5 U	2.00 U	10.0 U	10.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Methylene Chloride (Dichloromethane)	µg/L	5[B]	5.00 U	5 U	3.76 JB	5.00 U	5.00 U	5.00 U	**7.55[B]**	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5 U	4.04 JB	***25.0 U***	***25.0 U***	5.00 U	**6.12[B]**	5.00 U	5.00 U	5.00 UJ	5.00 U
Naphthalene	µg/L	10[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propylbenzene, n-	µg/L	5[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	5[B]	5.00 U	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5 U	5.00 U	***25.0 U***	***25.0 U***	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U
Tetrachloroethane, 1,1,2,2-	µg/L	5[B]	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U	***10.0 U***	***10.0 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Tetrachloroethene (PCE)	µg/L	5[B]	2.00 U	**110[B]**	4.44	3.08	1.42 J	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.81	**7.8[B]**	2.36	***10.0 U***	***10.0 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Toluene	µg/L	5[B]	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U	***10.0 U***	***10.0 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Trichlorobenzene, 1,2,3-	µg/L	5[B]	-	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	-	5 U	5.00 U	***25.0 U***	***25.0 U***	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U
Trichlorobenzene, 1,2,4-	µg/L	5[B]	-	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	-	5 U	5.00 U	***25.0 U***	***25.0 U***	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U
Trichloroethane, 1,1,1-	µg/L	5[B]	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U	***10.0 U***	***10.0 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Trichloroethane, 1,1,2-	µg/L	1[B]	***2.00 U***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***5 U***	***2.00 U***	***10.0 U***	***10.0 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***
Trichloroethene (TCE)	µg/L	5[B]	**9.19[B]**	**76.4[B]**	**27.6[B]**	**21.5[B]**	**6.31[B]**	2.39	1.05 J	2.00 U	2.00 U	3.85	2.00 U	**125[B]**	**320 D[B]**	**10.5[B]**	**83.9[B]**	**36.6[B]**	2.00 U	2.00 U	2.00 U	1.04 J	2.00 UJ	2.00 U
Trichlorofluoromethane (Freon 11)	µg/L	5[B]	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U	***10.0 U***	***10.0 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Trichlorotrifluoroethane (Freon 113)	µg/L	5[B]	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	-	5 U	2.00 U	***10.0 U***	***10.0 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Trimethylbenzene, 1,2,4-	µg/L	5[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trimethylbenzene, 1,3,5-	µg/L	5[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Acetate	µg/L	n/v	5.00 U	-	-	-	-	-	-	-	-	-	-	5.00 U	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	µg/L	2[B]	2.00 U	**5.9[B]**	1.24 J	1.64 NJ	**7.48[B]**	**56.4[B]**	**23.9 NJ[B]**	1.17 NJ	2.00 U	1.33 J	2.00 U	2.00 U	**3 J[B]**	2.00 U	***10.0 U***	**18.1[B]**	**10.1 NJ[B]**	**22.5[B]**	**4.14 NJ[B]**	2.00 U	1.65 J-	2.00 U
Xylene, m & p-	µg/L	5[B]	2.00 U	***10 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	***10 U***	2.00 U	***10.0 U***	***10.0 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Xylene, o-	µg/L	5[B]	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U	***10.0 U***	***10.0 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U
Total VOC	µg/L	n/v	38.22	837.77	79.31	293.99	117.71	135.45	146.23	5.54	2.43	14.11	34.44	223.59	490.6	20.67	650	334.52	263.86	39.31	14.99	12.43	7.98 J-	52.93
Volatile Organic Tentatively Identified Compounds																								
Total VOC TICs	µg/L	n/v	-	770.000 J	-	-	-	-	-	-	-	-	-	-	2.5 U	-	-	-	-	-	-	-	-	-

Table 2
Summary of Analytical Results in Groundwater
Former Carriage Factory
33 Litchfield Street, Rochester, New York

Area			Off-Site Locations																						
Sample Location			RW-5																RW-6						
Sample Date			25-Apr-12	21-May-13	27-Mar-14	29-May-14	2-Jul-14	7-Aug-14	28-Oct-14	3-Feb-15	4-May-15	13-Aug-15	1-Feb-16	25-Apr-12	4-May-12	20-May-13	27-Mar-14	28-May-14	1-Jul-14	7-Aug-14	7-Aug-14	28-Oct-14	4-Feb-15	4-May-15	13-Aug-15	1-Feb-16
Sample ID			RW-5	LI-RW-5-GW1	LI-RW-5	LI-RW-5-PI1	LI-RW-5-PI2	LI-RW-5-PI3	LI-RW5-PI6	LI-RW-5-PI9	LI-RW-5-PI12	LI-RW-5-PI15	LI-RW-5-PS3	RW-6	RW-6	LI-RW-6-GW1	LI-RW-6	LI-RW-6-PI1	LI-RW-6-PI2	LI-RW-6-PI3	LI-FD-PI3	LI-RW6-PI6	LI-RW-6-PI9	LI-RW-6-PI12	LI-RW-6-PI15	LI-RW-6-PS3
Sampling Company			DECI	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	DECI	DECI	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			PARAROCH	CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH
Laboratory Work Order			12:1770	E2314	141138	142196	142794	143439	144730	150382	151696	153411	160464	12:1770	12:1927	E2301	141138	142196	142794	143439	143439	144730	150382	151696	153411	160464
Laboratory Sample ID			12:1770-02	E2314-06	141138-05	142196-14	142794-13	143439-05	144730-05	150382-04	151696-05	153411-09	160464-05	12:1770-03	12:1927-01	E2301-01	141138-06	142196-02	142794-03	143439-06	143439-13	144730-06	150382-09	151696-06	153411-10	160464-02
Sample Type	Units	TOGS																			Field Duplicate					
General Chemistry																										
Total Organic Carbon	µg/L	n/v	-	-	3300	141000	299000	86700	8700	4600 J+	2200	2800 J-	4990	-	-	-	3400	360000	96600	99700	102000	62900	14000	3000	2800 J-	120000
Metals																										
Aluminum	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	µg/L	3[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	25[B]	-	-	10 U	10 U	10 U	10 U	10 U	10 U	10.0 U	10.0 UJ	-	-	-	-	10 U	10 U	10 U	10 U	-	10 U	10 U	10.0 U	10.0 UJ	-
Barium	µg/L	1000[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	3[A]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	5[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	50[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	200[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	µg/L	300.[B]	-	-	100 U	**2500[B]**	**6250[B]**	**6000[B]**	**4420[B]**	**4760[B]**	**9910[B]**	**7480 J-[B]**	-	-	-	-	**318[B]**	**1140[B]**	**1740[B]**	**850[B]**	-	**1820[B]**	**1480[B]**	**864[B]**	**1240 J-[B]**	-
Lead	µg/L	25[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	µg/L	35000[A]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	µg/L	300.[B]	-	-	69.2	69.1	102	60.4 B	47.8	25.7	29.8	38.9 J-	-	-	-	-	25.9	66.9	53.5	35.9	-	38.7	34.7	30.9	32.2 J-	-
Mercury	µg/L	0.7[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	100[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	10[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	50[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	20000[B]	-	-	**39500[B]**	**242000[B]**	**312000[B]**	**164000[B]**	**85200[B]**	**66600[B]**	**44600[B]**	**50500 J-[B]**	-	-	-	-	**37800[B]**	**266000[B]**	**167000[B]**	**163000[B]**	**178000[B]**	**149000[B]**	**91700[B]**	**68800[B]**	**63200 J-[B]**	-
Thallium	µg/L	0.5[A]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	2000[A]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds																										
Acetone	µg/L	50[A]	10.0 UJ	2.6 J	10.0 U	10.0 U	7.44 J	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 UJ	10.0 U	10.0 UJ	***100 UJ***	4.2 J	***200 U***	***200 U***	10.0 U	***500 U***	***500 U***	***500 U***	50.0 UJ	50.0 U	50.0 UJ	***100 U***
Benzene	µg/L	1[B]	**1.13 J[B]**	***5 U***	1 U	0.737 J	0.358 J	1 U	0.507 J	1 U	1 U	0.509 J-	1.00 U	0.700 UJ	***7.00 U***	***5 U***	***20 U***	***20 U***	1 U	***50 U***	***50 U***	***50 U***	***5 U***	***5 U***	***5.00 UJ***	***10.0 U***
Bromodichloromethane	µg/L	50[A]	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 UJ	20.0 U	5 U	40.0 U	40.0 U	2.00 U	***100 U***	***100 U***	***100 U***	10.0 U	10.0 U	10.0 UJ	20.0 U
Bromoform (Tribromomethane)	µg/L	50[A]	5.00 UJ	5 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 UJ	50.0 U	5 U	***100 U***	***100 U***	5.00 U	***250 UJ***	***250 UJ***	***250 U***	25.0 U	25.0 U	25.0 UJ	50.0 U
Bromomethane (Methyl bromide)	µg/L	5..[B]	2.00 UJ	5 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 UJ	***20.0 U***	5 U	***40.0 U***	***40.0 U***	2.00 U	***100 U***	***100 U***	***100 U***	***10.0 U***	***10.0 U***	***10.0 UJ***	***20.0 U***
Butylbenzene, n-	µg/L	5..[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butylbenzene, sec- (2-Phenylbutane)	µg/L	5..[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butylbenzene, tert-	µg/L	5..[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	µg/L	60[A]	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 UJ	20.0 U	5 U	40.0 U	40.0 U	2.00 U	***100 U***	***100 U***	***100 U***	10.0 U	10.0 U	10.0 UJ	20.0 U
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 UJ	***20.0 U***	5 U	***40.0 U***	***40.0 U***	2.00 U	***100 U***	***100 U***	***100 U***	***10.0 U***	***10.0 U***	***10.0 UJ***	***20.0 U***
Chlorobenzene (Monochlorobenzene)	µg/L	5..[B]	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 UJ	***20.0 U***	5 U	***40.0 U***	***40.0 U***	2.00 U	***100 U***	***100 U***	***100 U***	***10.0 U***	***10.0 U***	***10.0 UJ***	***20.0 U***
Chlorobromomethane	µg/L	5..[B]	-	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	-	-	5 U	***100 U***	***100 U***	5.00 U	***250 U***	***250 U***	***250 U***	***25.0 U***	***25.0 U***	***25.0 UJ***	***50.0 U***
Chloroethane (Ethyl Chloride)	µg/L	5..[B]	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 UJ	***20.0 U***	5 U	***40.0 U***	***40.0 U***	2.00 U	***100 U***	***100 U***	***100 U***	***10.0 U***	***10.0 U***	***10.0 UJ***	***20.0 U***
Chloroethyl Vinyl Ether, 2-	µg/L	n/v	10.0 U R	-	-	-	-	-	-	-	-	-	-	10.0 U R	100 U R	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	7[B]	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 UJ	***20.0 U***	5 U	***40.0 U***	***40.0 U***	2.00 U	***100 U***	***100 U***	***100 U***	***10.0 U***	***10.0 U***	***10.0 UJ***	***20.0 U***
Chloromethane	µg/L	5..[B]	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 UJ	***20.0 U***	5 U	***40.0 U***	***40.0 U***	2.00 U	***100 U***	***100 U***	***100 U***	***10.0 U***	***10.0 U***	***10.0 UJ***	***20.0 U***
Cyclohexane	µg/L	n/v	-	5 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 UJ	10.0 U	-	-	5 UJ	200 U	200 U	10.0 U	500 U	500 U	500 U	50.0 U	50.0 U	50.0 UJ	100 U
Dibromo-3-Chloropropane, 1,2- (DBCP)	µg/L	0.04[B]	-	***5 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 UJ***	***10.0 U***	-	-	***5 U***	***200 U***	***200 U***	***10.0 U***	***500 U***	***500 U***	***500 U***	***50.0 U***	***50.0 U***	***50.0 UJ***	***100 U***
Dibromochloromethane	µg/L	50[A]	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 UJ	20.0 U	5 U	40.0 U	40.0 U	2.00 U	***100 UJ***	***100 UJ***	***100 U***	10.0 U	10.0 U	10.0 UJ	20.0 U
Dichlorobenzene, 1,2-	µg/L	3[B]	2.00 UJ	***5 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 UJ	***20.0 U***	***5 U***	***40.0 U***	***40.0 U***	2.00 U	***100 U***	***100 U***	***100 U***	***10.0 U***	***10.0 U***	***10.0 UJ***	***20.0 U***
Dichlorobenzene, 1,3-	µg/L	3[B]	2.00 UJ	***5 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 UJ	***20.0 U***	***5 U***	***40.0 U***	***40.0 U***	2.00 U	***100 U***	***100 U***	***100 U***	***10.0 U***	***10.0 U***	***10.0 UJ***	***20.0 U***
Dichlorobenzene, 1,4-	µg/L	3[B]	2.00 UJ	***5 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 UJ	***20.0 U***	***5 U***	***40.0 U***	***40.0 U***	2.00 U	***100 U***	***100 U***	***100 U***	***10.0 U***	***10.0 U***	***10.0 UJ***	***20.0 U***
Dichlorodifluoromethane (Freon 12)	µg/L	5..[B]	-	5 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	-	-	5 U	***40.0 U***	***40.0 U***	2.00 U	***100 U***	***100 U***	***100 U***	***10.0 U***	***10.0 U***	***10.0 UJ***	***20.0 U***
Dichloroethane, 1,1-	µg/L	5..[B]	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 UJ	***20.0 U***	5 U	***40.0 U***	***40.0 U***	2.00 U	***100 U***	***100 U***	***100 U***	***10.0 U***	***10.0 U***	***10.0 UJ***	***20.0 U***
Dichloroethane, 1,2-	µg/L	0.6[B]	***2.00 UJ***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***	***2.00 UJ***	***20.0 U***	***5 U***	***40.0 U***	***40.0 U***	***2.00 U***	***100 U***	***100 U***	***100 U***	***10.0 U***	***10.0 U***	***10.0 UJ***	***20.0 U***
Dichloroethene, 1,1-	µg/L	5..[B]	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 UJ	***20.0 U***	5 U	***40.0 U***	***40.0 U***	2.00 U	***100 U***	***100 U***	***100 U***	***10.0 U***	***10.0 U***	***10.0 UJ***	***20.0 U***
Dichloroethene, cis-1,2-	µg/L	5..[B]	**49.5 J[B]**	**18.2[B]**	**7.64[B]**	**32.7[B]**	**45.7[B]**	**46.0[B]**	**132[B]**	**8.81[B]**	4.52	**56.7 J-[B]**	2.00 U	**59.8 J[B]**	**63.1[B]**	**47.3[B]**	**81.9[B]**	**670[B]**	**86.7[B]**	**3980[B]**	**4070[B]**	**2730[B]**	**687[B]**	**373[B]**	**164 J-[B]**	**1520[B]**
Dichloroethene, trans-1,2-	µg/L	5..[B]	**5.63 J[B]**	2.2 J	1.10 J	2.92	1.89 J	1.32 J	3.78	2.00 U	2.00 U	2.09 J-	2.00 U	2.00 UJ	***20.0 U***	1.1 J	***40.0 U***	**76.1[B]**	3.31	**76.6 J[B]**	**77.6 J[B]**	***100 U***	**6.64 J[B]**	**6.18 J[B]**	***10.0 UJ***	**11.5 J[B]**
Dichloropropane, 1,2-	µg/L	1[B]	***2.00 UJ***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***	***2.00 UJ***	***20.0 U***	***5 U***	***40.0 U***	***40.0 U***	***2.00 U***	***100 U***	***100 U***	***100 U***	***10.0 U***	***10.0 U***	***10.0 UJ***	***20.0 U***
Dichloropropene, cis-1,3-	µg/L	0.4_p[B]	***2.00 UJ***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***	***2.00 UJ***	***20.0 U***	***5 U***	***40.0 U***	***40.0 U***	***2.00 U***	***100 U***	***100 U***	***100 U***	***10.0 U***	***10.0 U***	***10.0 UJ***	***20.0 U***
Dichloropropene, trans-1,3-	µg/L	0.4_p[B]	***2.00 UJ***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***	***2.00 UJ***	***20.0 U***	***5 U***	***40.0 U***	***40.0 U***	***2.00 U***	***100 U***	***100 U***	***100 U***	***10.0 U***	***10.0 U***	***10.0 UJ***	***20.0 U***
Dioxane, 1,4-	µg/L	n/v	-	100 U	20.0 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U	20.0 U	20.0 UJ	20.0 U R	20.0 U R	-	-	100 U R	400 U R	400 U R	20.0 U R	1000 U R	1000 U R	1000 U	100 U	100 UJ	100 U R	200 U R

Table 2
Summary of Analytical Results in Groundwater
Former Carriage Factory
33 Litchfield Street, Rochester, New York

Area			Off-Site Locations																					
Sample Location			RW-5															RW-6						
Sample Date			25-Apr-12	21-May-13	27-Mar-14	29-May-14	2-Jul-14	7-Aug-14	28-Oct-14	3-Feb-15	4-May-15	13-Aug-15	1-Feb-16	25-Apr-12	4-May-12	20-May-13	27-Mar-14	28-May-14	1-Jul-14	7-Aug-14	7-Aug-14	28-Oct-14	4-Feb-15	4-May-15	13-Aug-15	1-Feb-16
Sample ID			RW-5	LI-RW-5-GW1	LI-RW-5	LI-RW-5-PI1	LI-RW-5-PI2	LI-RW-5-PI3	LI-RW5-PI6	LI-RW-5-PI9	LI-RW-5-PI12	LI-RW-5-PI15	LI-RW-5-PS3	RW-6	RW-6	LI-RW-6-GW1	LI-RW-6	LI-RW-6-PI1	LI-RW-6-PI2	LI-RW-6-PI3	LI-FD-PI3	LI-RW6-PI6	LI-RW-6-PI9	LI-RW-6-PI12	LI-RW-6-PI15	LI-RW-6-PS3
Sampling Company			DECI	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	DECI	DECI	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			PARAROCH	CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH
Laboratory Work Order			12:1770	E2314	141138	142196	142794	143439	144730	150382	151696	153411	160464	12:1770	12:1927	E2301	141138	142196	142794	143439	143439	144730	150382	151696	153411	160464
Laboratory Sample ID			12:1770-02	E2314-06	141138-05	142196-14	142794-13	143439-05	144730-05	150382-04	151696-05	153411-09	160464-05	12:1770-03	12:1927-01	E2301-01	141138-06	142196-02	142794-03	143439-06	143439-13	144730-06	150382-09	151696-06	153411-10	160464-02
Sample Type	Units	TOGS																			Field Duplicate					
Volatile Organic Compounds (cont'd)																										
Ethylbenzene	µg/L	5[B]	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 UJ	***20.0 U***	5 U	***40.0 U***	***40.0 U***	2.00 U	***100 U***	***100 U***	***100 U***	***10.0 U***	***10.0 U***	***10.0 UJ***	***20.0 U***
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.0006[B]	-	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***	-	-	***5 U***	***40.0 U***	***40.0 U***	***2.00 U***	***100 U***	***100 U***	***100 U***	***10.0 U***	***10.0 U***	***10.0 UJ***	***20.0 U***
Hexanone, 2- (Methyl Butyl Ketone)	µg/L	50[A]	5.00 UJ	25 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 UJ	50.0 U	25 U	***100 U***	***100 U***	5.00 U	***250 U***	***250 U***	***250 U***	25.0 U	25.0 U	25.0 UJ	50.0 U
Isopropylbenzene	µg/L	5[B]	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	-	-	5 U	***40.0 U***	***40.0 U***	2.00 U	***100 U***	***100 U***	***100 U***	***10.0 U***	***10.0 U***	***10.0 UJ***	***20.0 U***
Isopropyltoluene, p- (Cymene)	µg/L	5[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Acetate	µg/L	n/v	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	-	-	5 U	40.0 U	40.0 U	2.00 U	100 U	100 U	100 U	10.0 U	10.0 U	10.0 UJ	20.0 U
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	50[A]	10.0 UJ	25 U	10.0 UJ	10.0 U	43.1 J	10.8	10.0 UJ	10.0 UJ	10.0 U	10.0 UJ	26.1	10.0 UJ	***100 U***	25 U	***200 UJ***	***200 U***	13.3 J	***500 U***	***500 U***	***500 UJ***	50.0 UJ	50.0 U	50.0 UJ	***200 U***
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	5.00 UJ	25 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 UJ	50.0 U	25 U	100 U	100 U	5.00 U	250 U	250 U	250 U	25.0 U	25.0 U	25.0 UJ	50.0 U
Methyl tert-butyl ether (MTBE)	µg/L	10[A]	-	1.3 J	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	-	-	2.1 J	***40.0 U***	***40.0 U***	1.03 J	***100 U***	***100 U***	***100 U***	10.0 U	10.0 U	10.0 UJ	***20.0 U***
Methylcyclohexane	µg/L	n/v	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	-	-	5 U	40.0 U	40.0 U	2.00 U	100 U	100 U	100 U	10.0 U	10.0 U	10.0 UJ	20.0 U
Methylene Chloride (Dichloromethane)	µg/L	5[B]	5.00 UJ	5 U	4.53 JB	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 UJ	***50.0 UJ***	5 U	***100 U***	**56.8 J[B]**	5.00 U	***250 U***	***250 U***	***250 U***	***25.0 U***	***25.0 U***	***25.0 UJ***	***50.0 U***
Naphthalene	µg/L	10[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propylbenzene, n-	µg/L	5[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	5[B]	5.00 UJ	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 UJ	***50.0 U***	5 U	***100 U***	***100 U***	5.00 U	***250 U***	***250 U***	***250 U***	***25.0 U***	***25.0 U***	***25.0 UJ***	***50.0 U***
Tetrachloroethane, 1,1,2,2-	µg/L	5[B]	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 UJ	***20.0 U***	5 U	***40.0 U***	***40.0 U***	2.00 U	***100 U***	***100 U***	***100 U***	***10.0 U***	***10.0 U***	***10.0 UJ***	***20.0 U***
Tetrachloroethene (PCE)	µg/L	5[B]	**12.2 J[B]**	**5.6[B]**	2.75	**11.2[B]**	2.44	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	**881 J[B]**	**732[B]**	**880 D[B]**	**3380[B]**	**84.6[B]**	3.26	***100 U***	***100 U***	***100 U***	***10.0 U***	***10.0 U***	***10.0 UJ***	***20.0 U***
Toluene	µg/L	5[B]	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 UJ	***20.0 U***	5 U	***40.0 U***	***40.0 U***	2.00 U	***100 U***	***100 U***	***100 U***	***10.0 U***	***10.0 U***	***10.0 UJ***	***20.0 U***
Trichlorobenzene, 1,2,3-	µg/L	5[B]	-	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	-	-	5 U	***100 U***	***100 U***	5.00 U	***250 U***	***250 U***	***250 U***	***25.0 U***	***25.0 U***	***25.0 UJ***	***50.0 U***
Trichlorobenzene, 1,2,4-	µg/L	5[B]	-	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	-	-	5 U	***100 U***	***100 U***	5.00 U	***250 U***	***250 U***	***250 U***	***25.0 U***	***25.0 U***	***25.0 UJ***	***50.0 U***
Trichloroethane, 1,1,1-	µg/L	5[B]	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 UJ	***20.0 U***	5 U	***40.0 U***	***40.0 U***	2.00 U	***100 U***	***100 U***	***100 U***	***10.0 U***	***10.0 U***	***10.0 UJ***	***20.0 U***
Trichloroethane, 1,1,2-	µg/L	1[B]	***2.00 UJ***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***	***2.00 UJ***	***20.0 U***	***5 U***	***40.0 U***	***40.0 U***	***2.00 U***	***100 U***	***100 U***	***100 U***	***10.0 U***	***10.0 U***	***10.0 UJ***	***20.0 U***
Trichloroethene (TCE)	µg/L	5[B]	**48.5 J[B]**	**25.2[B]**	**6.65[B]**	**40.0[B]**	**14.2[B]**	1.10 J	2.76	2.00 U	2.00 U	2.00 UJ	2.00 U	**112 J[B]**	**93.2[B]**	**140[B]**	**283[B]**	**752[B]**	**35.8[B]**	***100 U***	***100 U***	***100 U***	***10.0 U***	***10.0 U***	***10.0 UJ***	***20.0 U***
Trichlorofluoromethane (Freon 11)	µg/L	5[B]	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 UJ	***20.0 U***	5 U	***40.0 U***	***40.0 U***	2.00 U	***100 U***	***100 U***	***100 U***	***10.0 U***	***10.0 U***	***10.0 UJ***	***20.0 U***
Trichlorotrifluoroethane (Freon 113)	µg/L	5[B]	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	-	-	5 U	***40.0 U***	***40.0 U***	2.00 U	***100 U***	***100 U***	***100 U***	***10.0 U***	***10.0 U***	***10.0 UJ***	***20.0 U***
Trimethylbenzene, 1,2,4-	µg/L	5[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trimethylbenzene, 1,3,5-	µg/L	5[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Acetate	µg/L	n/v	5.00 UJ	-	-	-	-	-	-	-	-	-	-	5.00 UJ	50.0 U	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	µg/L	2[B]	**2.93 J[B]**	0.6 J	2.00 U	2.00 U	1.28 NJ	**3.76[B]**	**12.8[B]**	**2.30 NJ[B]**	2.00 U	**16.0 J-[B]**	1.52 J	2.00 UJ	***20.0 U***	0.52 NJ	***40.0 U***	***40.0 U***	2.00 U	**115[B]**	**116[B]**	**868[B]**	**455[B]**	**367[B]**	**259 J-[B]**	**1120[B]**
Xylene, m & p-	µg/L	5[B]	2.00 UJ	***10 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 UJ	***20.0 U***	***10 U***	***40.0 U***	***40.0 U***	2.00 U	***100 U***	***100 U***	***100 U***	***10.0 U***	***10.0 U***	***10.0 UJ***	***20.0 U***
Xylene, o-	µg/L	5[B]	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 UJ	***20.0 UJ***	5 U	***40.0 U***	***40.0 U***	2.00 U	***100 U***	***100 U***	***100 U***	***10.0 U***	***10.0 U***	***10.0 UJ***	***20.0 U***
Total VOC	µg/L	n/v	119.89	55.7	22.67	87.557	116.408	62.98	151.85	11.11	6.13	75.299 J-	27.62	1052.8	888.3	1075.22	3744.9	1639.5	143.4	4171.6	4263.6	3598	1148.64	746.18	423 J-	2651.5
Volatile Organic Tentatively Identified Compounds																										
Total VOC TICs	µg/L	n/v	-	5.500 J	-	-	-	-	-	-	-	-	-	-	-	5.800 J	-	-	-	-	-	-	-	-	-	-

Table 2
Summary of Analytical Results in Groundwater
Former Carriage Factory
33 Litchfield Street, Rochester, New York

Area			Off-Site Locations																				
Sample Location			RW-7										RW-8		RW-9								
Sample Date			12-Jun-12	20-May-13	27-Mar-14	28-May-14	1-Jul-14	7-Aug-14	28-Oct-14	4-Feb-15	4-May-15	13-Aug-15	1-Feb-16	14-Jun-12	20-May-13	8-Jun-12	21-May-13	27-Mar-14	29-May-14	1-Jul-14	1-Jul-14	7-Aug-14	28-Oct-14	28-Oct-14
Sample ID			RW-7	LI-RW-7-GW1	LI-RW-7	LI-RW-7-PI1	LI-RW-7-PI2	LI-RW-7-PI3	LI-RW7-PI6	LI-RW-7-PI9	LI-RW-7-PI12	LI-RW-7-PI15	LI-RW-7-PS3	RW-8	LI-RW-8-GW1	RW-9	LI-RW-9-GW1	LI-RW-9	LI-RW-9-PI1	LI-RW-9-PI2	LI-RW-DUP-PI2	LI-RW-9-PI3	LI-RW9-PI6	LI-DUP-PI6
Sampling Company			DECI	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	DECI	STANTEC	DECI	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			PARAROCH	CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	CCGE	PARAROCH	CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH
Laboratory Work Order			12:2486	E2301	141138	142196	142794	143439	144730	150382	151696	153411	160464	12:2523	E2301	12:2431	E2314	141138	142196	142794	142794	143439	144730	144730
Laboratory Sample ID			12:2486-02	E2301-02	141138-07	142196-01	142794-02	143439-07	144730-07	150382-10	151696-07	153411-11	160464-03	12:2523-01	E2301-03	12:2431-01	E2314-07	141138-08	142196-12	142794-04	142794-05	143439-08	144730-08	144730-13
Sample Type	Units	TOGS																			Field Duplicate			Field Duplicate
General Chemistry																								
Total Organic Carbon	µg/L	n/v	-	-	-	86900	7500	11500	8800	2500 J+	3100	2600 J-	21100	-	-	-	-	2000	2000	2500	2100	2100	2000 J-	2000 J-
Metals																								
Aluminum	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	µg/L	3[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	25[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Barium	µg/L	1000[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	3[A]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	5[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	50[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	200[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	µg/L	300.[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100 U	91.9 J	129	91.0 J	86.4 J	100 U	100 U
Lead	µg/L	25[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	µg/L	35000[A]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	µg/L	300.[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15 U	19.8	98.1	94.4	220	153	161
Mercury	µg/L	0.7[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	100[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	10[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	50[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	20000[B]	-	-	-	**126000[B]**	**85200[B]**	**85600[B]**	**77500[B]**	**67100[B]**	**49900[B]**	**64400 J-[B]**	-	-	-	-	-	**38100[B]**	**25200[B]**	**29000[B]**	**28800[B]**	**27700[B]**	**39100[B]**	**38600[B]**
Thallium	µg/L	0.5[A]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	2000[A]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds																								
Acetone	µg/L	50[A]	-	25 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 UJ	10.0 U	-	25 U	-	25 U	10.0 U	6.70 J	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Benzene	µg/L	1[B]	-	***5 U***	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.00 UJ	1.00 U	-	***5 U***	-	***5 U***	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	µg/L	50[A]	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Bromoform (Tribromomethane)	µg/L	50[A]	5.00 U	5 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5 U	5.00 U	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U
Bromomethane (Methyl bromide)	µg/L	5..[B]	2.00 U	5 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 UJ	5 U	2.00 U	5 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U
Butylbenzene, n-	µg/L	5..[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butylbenzene, sec- (2-Phenylbutane)	µg/L	5..[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butylbenzene, tert-	µg/L	5..[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	µg/L	60[A]	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	-	5 U	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 UJ	5 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Chlorobenzene (Monochlorobenzene)	µg/L	5..[B]	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Chlorobromomethane	µg/L	5..[B]	-	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	-	5 U	-	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Chloroethane (Ethyl Chloride)	µg/L	5..[B]	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Chloroethyl Vinyl Ether, 2-	µg/L	n/v	10.0 U R	-	-	-	-	-	-	-	-	-	-	10.0 U R	-	10.0 U R	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	7[B]	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Chloromethane	µg/L	5..[B]	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Cyclohexane	µg/L	n/v	-	5 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 UJ	10.0 U	-	5 UJ	-	5 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Dibromo-3-Chloropropane, 1,2- (DBCP)	µg/L	0.04[B]	-	***5 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 UJ***	***10.0 U***	-	***5 U***	-	***5 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***
Dibromochloromethane	µg/L	50[A]	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U
Dichlorobenzene, 1,2-	µg/L	3[B]	2.00 U	***5 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	***5 U***	2.00 U	***5 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Dichlorobenzene, 1,3-	µg/L	3[B]	2.00 U	***5 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	***5 U***	2.00 U	***5 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Dichlorobenzene, 1,4-	µg/L	3[B]	2.00 U	***5 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	***5 U***	2.00 U	***5 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Dichlorodifluoromethane (Freon 12)	µg/L	5..[B]	-	5 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	-	5 U	-	5 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U
Dichloroethane, 1,1-	µg/L	5..[B]	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Dichloroethane, 1,2-	µg/L	0.6[B]	***2.00 U***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***	***2.00 UJ***	***5 U***	***2.00 U***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***
Dichloroethene, 1,1-	µg/L	5..[B]	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Dichloroethene, cis-1,2-	µg/L	5..[B]	4.28	**8.2[B]**	2.35	2.65	2.43	2.96	4.44	1.33 J	2.00 U	2.00 UJ	2.00 U	**6.50[B]**	**17.8[B]**	2.00 U	1.2 J	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	1.35 J	1.37 J
Dichloroethene, trans-1,2-	µg/L	5..[B]	2.00 U	0.92 J	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.1 J	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Dichloropropane, 1,2-	µg/L	1[B]	***2.00 U***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***	***2.00 U***	***5 U***	***2.00 U***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***
Dichloropropene, cis-1,3-	µg/L	0.4$_p$[B]	***2.00 U***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***	***2.00 U***	***5 U***	***2.00 U***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***
Dichloropropene, trans-1,3-	µg/L	0.4$_p$[B]	***2.00 U***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***	***2.00 U***	***5 U***	***2.00 U***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***
Dioxane, 1,4-	µg/L	n/v	-	100 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U	20.0 U	20.0 UJ	20.0 U R	20.0 U R	-	100 U R	-	100 U	20.0 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U	20.0 U

Table 2
Summary of Analytical Results in Groundwater
Former Carriage Factory
33 Litchfield Street, Rochester, New York

Area			Off-Site Locations																			
Sample Location			RW-7										RW-8		RW-9							
Sample Date			12-Jun-12	20-May-13	27-Mar-14	28-May-14	1-Jul-14	7-Aug-14	28-Oct-14	4-Feb-15	4-May-15	13-Aug-15	1-Feb-16	14-Jun-12	20-May-13	8-Jun-12	21-May-13	27-Mar-14	29-May-14	1-Jul-14	1-Jul-14	7-Aug-14	28-Oct-14	28-Oct-14
Sample ID			RW-7	LI-RW-7-GW1	LI-RW-7	LI-RW-7-PI1	LI-RW-7-PI2	LI-RW-7-PI3	LI-RW7-PI6	LI-RW-7-PI9	LI-RW-7-PI12	LI-RW-7-PI15	LI-RW-7-PS3	RW-8	LI-RW-8-GW1	RW-9	LI-RW-9-GW1	LI-RW-9	LI-RW-9-PI1	LI-RW-9-PI2	LI-RW-DUP-PI2	LI-RW-9-PI3	LI-RW9-PI6	LI-DUP-PI6
Sampling Company			DECI	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	DECI	STANTEC	DECI	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			PARAROCH	CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	CCGE	PARAROCH	CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH
Laboratory Work Order			12:2486	E2301	141138	142196	142794	143439	144730	150382	151696	153411	160464	12:2523	E2301	12:2431	E2314	141138	142196	142794	142794	143439	144730	144730
Laboratory Sample ID			12:2486-02	E2301-02	141138-07	142196-01	142794-02	143439-07	144730-07	150382-10	151696-07	153411-11	160464-03	12:2523-01	E2301-03	12:2431-01	E2314-07	141138-08	142196-12	142794-04	142794-05	143439-08	144730-08	144730-13
Sample Type	Units	TOGS																			Field Duplicate			Field Duplicate
Volatile Organic Compounds (cont'd)																								
Ethylbenzene	µg/L	5[B]	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	-	5 U	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.0006[B]	-	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***	-	***5 U***	-	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***
Hexanone, 2- (Methyl Butyl Ketone)	µg/L	50[A]	-	25 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	-	25 U	-	25 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Isopropylbenzene	µg/L	5[B]	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	-	5 U	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Isopropyltoluene, p- (Cymene)	µg/L	5[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Acetate	µg/L	n/v	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	-	5 U	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	50[A]	-	25 U	10.0 UJ	10.0 U	10.0 UJ	10.0 U	10.0 UJ	10.0 UJ	10.0 U	10.0 UJ	25.2	-	25 U	-	25 U	10.0 UJ	10.0 U	10.0 UJ	10.0 UJ	10.0 U	10.0 UJ	10.0 UJ
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	-	25 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	-	25 U	-	25 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Methyl tert-butyl ether (MTBE)	µg/L	10[A]	-	1.8 J	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	1.16 J-	1.43 J	-	3.3 J	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Methylcyclohexane	µg/L	n/v	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	-	5 U	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Methylene Chloride (Dichloromethane)	µg/L	5[B]	5.00 U	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5 U	5.00 U	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Naphthalene	µg/L	10[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propylbenzene, n-	µg/L	5[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	5[B]	-	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	-	5 U	-	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Tetrachloroethane, 1,1,2,2-	µg/L	5[B]	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Tetrachloroethene (PCE)	µg/L	5[B]	2.00 U	0.76 J	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	4.3 J	**11.3[B]**	**8.5[B]**	3.04	3.58	4.10	4.11	3.20	3.28	3.40
Toluene	µg/L	5[B]	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	-	5 U	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Trichlorobenzene, 1,2,3-	µg/L	5[B]	-	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	-	5 U	-	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Trichlorobenzene, 1,2,4-	µg/L	5[B]	-	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	-	5 U	-	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Trichloroethane, 1,1,1-	µg/L	5[B]	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Trichloroethane, 1,1,2-	µg/L	1[B]	***2.00 U***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***	***2.00 U***	***5 U***	***2.00 U***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***
Trichloroethene (TCE)	µg/L	5[B]	2.00 U	**5.8[B]**	2.85	2.99	3.05	3.12	2.00 U	2.00 U	1.29 J	2.00 UJ	2.00 U	**7.59[B]**	**20.7[B]**	2.00 U	1.5 J	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Trichlorofluoromethane (Freon 11)	µg/L	5[B]	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 UJ	5 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Trichlorotrifluoroethane (Freon 113)	µg/L	5[B]	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	-	5 U	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Trimethylbenzene, 1,2,4-	µg/L	5[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trimethylbenzene, 1,3,5-	µg/L	5[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Acetate	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	µg/L	2[B]	2.00 U	***5 U***	2.00 U	2.00 U	2.00 U	2.00 U	**4.58 NJ[B]**	**5.43[B]**	**2.87[B]**	**2.84 J-[B]**	**2.27[B]**	2.00 U	0.63 NJ	2.00 U	***5 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Xylene, m & p-	µg/L	5[B]	-	***10 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	-	***10 U***	-	***10 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Xylene, o-	µg/L	5[B]	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	-	5 U	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Total VOC	µg/L	n/v	4.28	17.48	5.2	5.64	5.48	6.08	9.02	6.76	4.16	4 J-	28.9	14.09	48.83	11.3	11.2	3.04	10.28	4.1	4.11	3.2	4.63	4.77
Volatile Organic Tentatively Identified Compounds																								
Total VOC TICs	µg/L	n/v	-	2.5 U	-	-	-	-	-	-	-	-	-	-	2.5 U	-	2.5 U	-	-	-	-	-	-	-

Table 2
Summary of Analytical Results in Groundwater
Former Carriage Factory
33 Litchfield Street, Rochester, New York

Area			Off-Site Locations																	
Sample Location			RW-9									RW-12						RW-13		
Sample Date			4-Feb-15	4-May-15	13-Aug-15	1-Feb-16	8-Jun-12	20-May-13	28-May-14	2-Jul-14	7-Aug-14	29-Oct-14	4-Feb-15	4-May-15	12-Aug-15	1-Feb-16	1-Feb-16	12-Jun-12	20-May-13	27-Mar-14
Sample ID			LI-RW-9-PI9	LI-RW-9-PI12	LI-RW-9-PI15	LI-RW-9-PS3	RW-12	LI-RW-12-GW1	LI-RW-12-PI1	LI-RW-12-PI2	LI-RW-12-PI3	LI-RW12-PI6	LI-RW-12-PI9	LI-RW-12-PI12	LI-RW-12-PI15	LI-RW-12-PS3	LI-DUP-PS3	RW-13	LI-RW-13-GW1	LI-RW-13
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	DECI	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	DECI	STANTEC	STANTEC
Laboratory			PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	CCGE	PARAROCH
Laboratory Work Order			150382	151696	153411	160464	12:2431	E2301	142196	142794	143439	144730	150382	151696	153411	160464	160464	12:2486	E2301	141138
Laboratory Sample ID			150382-12	151696-08	153411-12	160464-04	12:2431-02	E2301-04	142196-03	142794-14	143439-09	144730-09	150382-08	151696-09	153411-08	160464-01	160464-13	12:2486-01	E2301-05	141138-10
Sample Type	Units	TOGS															Field Duplicate			
General Chemistry																				
Total Organic Carbon	µg/L	n/v	2400 J+	1700	2200 J-	1910	-	-	103000	186000	44800	5700	33900	6200	3200 J-	1740	1990	-	-	-
Metals																				
Aluminum	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	µg/L	3[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	25[B]	10 U	10.0 U	10.0 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	1000[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	3[A]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	5[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	50[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	200[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	µg/L	300.[B]	68.3 J	76.5 J	118 J-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	25[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	µg/L	35000[A]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	µg/L	300.[B]	284	214	**691 J-[B]**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	0.7[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	100[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	10[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	50[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	20000[B]	**41600[B]**	**32000[B]**	**49000 J-[B]**	-	-	-	**200000[B]**	**255000[B]**	**282000[B]**	**193000[B]**	**167000[B]**	**213000[B]**	**155000 J-[B]**	-	-	-	-	-
Thallium	µg/L	0.5[A]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	2000[A]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds																				
Acetone	µg/L	50[A]	10.0 UJ	10.0 U	10.0 UJ	10.0 U	-	25 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 UJ	10.0 U	10.0 U	-	25 U	10.0 U
Benzene	µg/L	1[B]	1 U	1 U	1.00 UJ	1.00 U	-	***5 U***	1 U	1 U	1 U	1 U	1 U	1 U	1.00 UJ	1.00 U	1.00 U	-	***5 U***	1 U
Bromodichloromethane	µg/L	50[A]	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	5 U	2.00 U
Bromoform (Tribromomethane)	µg/L	50[A]	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5 U	5.00 U
Bromomethane (Methyl bromide)	µg/L	5..[B]	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	5 U	2.00 U
Butylbenzene, n-	µg/L	5..[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butylbenzene, sec- (2-Phenylbutane)	µg/L	5..[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butylbenzene, tert-	µg/L	5..[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	µg/L	60[A]	2.00 U	2.00 U	2.00 UJ	2.00 U	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	-	5 U	2.00 U
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	5 U	2.00 U
Chlorobenzene (Monochlorobenzene)	µg/L	5..[B]	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	5 U	2.00 U
Chlorobromomethane	µg/L	5..[B]	5.00 U	5.00 U	5.00 UJ	5.00 U	-	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	-	5 U	5.00 U
Chloroethane (Ethyl Chloride)	µg/L	5..[B]	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	5 U	2.00 U
Chloroethyl Vinyl Ether, 2-	µg/L	n/v	-	-	-	-	10.0 U R	-	-	-	-	-	-	-	-	-	-	10.0 U R	-	-
Chloroform (Trichloromethane)	µg/L	7[B]	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	5 U	2.00 U
Chloromethane	µg/L	5..[B]	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	5 U	2.00 U
Cyclohexane	µg/L	n/v	10.0 U	10.0 U	10.0 UJ	10.0 U	-	5 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	-	5 UJ	10.0 U
Dibromo-3-Chloropropane, 1,2- (DBCP)	µg/L	0.04[B]	***10.0 U***	***10.0 U***	***10.0 UJ***	***10.0 U***	-	***5 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 UJ***	***10.0 U***	***10.0 U***	-	***5 U***	***10.0 U***
Dibromochloromethane	µg/L	50[A]	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	5 U	2.00 U
Dichlorobenzene, 1,2-	µg/L	3[B]	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	***5 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	***5 U***	2.00 U
Dichlorobenzene, 1,3-	µg/L	3[B]	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	***5 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	***5 U***	2.00 U
Dichlorobenzene, 1,4-	µg/L	3[B]	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	***5 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	***5 U***	2.00 U
Dichlorodifluoromethane (Freon 12)	µg/L	5..[B]	2.00 U	2.00 U	2.00 UJ	2.00 U	-	5 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	-	5 U	2.00 U
Dichloroethane, 1,1-	µg/L	5..[B]	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	5 U	2.00 U
Dichloroethane, 1,2-	µg/L	0.6[B]	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***	***2.00 U***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***	***2.00 U***	***2.00 U***	***5 U***	***2.00 U***
Dichloroethene, 1,1-	µg/L	5..[B]	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	5 U	2.00 U
Dichloroethene, cis-1,2-	µg/L	5..[B]	1.66 J	2.00 U	2.00 UJ	2.00 U	**24.5[B]**	**26.5[B]**	**79.5[B]**	**118[B]**	**36.2[B]**	**6.01[B]**	**20.9[B]**	**5.24[B]**	**9.47 J-[B]**	3.65	3.89	2.00 U	5 U	2.00 U
Dichloroethene, trans-1,2-	µg/L	5..[B]	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	1.2 J	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	5 U	2.00 U
Dichloropropane, 1,2-	µg/L	1[B]	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***	***2.00 U***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***	***2.00 U***	***2.00 U***	***5 U***	***2.00 U***
Dichloropropene, cis-1,3-	µg/L	0.4_p[B]	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***	***2.00 U***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***	***2.00 U***	***2.00 U***	***5 U***	***2.00 U***
Dichloropropene, trans-1,3-	µg/L	0.4_p[B]	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***	***2.00 U***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***	***2.00 U***	***2.00 U***	***5 U***	***2.00 U***
Dioxane, 1,4-	µg/L	n/v	20.0 U	20.0 UJ	20.0 U R	20.0 U R	-	100 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U	20.0 U	20.0 UJ	20.0 U R	20.0 U R	20.0 U R	-	100 U R	20.0 U R

Table 2
Summary of Analytical Results in Groundwater
Former Carriage Factory
33 Litchfield Street, Rochester, New York

Area			Off-Site Locations																		
Sample Location			RW-9				RW-12											RW-13			
Sample Date			4-Feb-15	4-May-15	13-Aug-15	1-Feb-16	8-Jun-12	20-May-13	28-May-14	2-Jul-14	7-Aug-14	29-Oct-14	4-Feb-15	4-May-15	12-Aug-15	1-Feb-16	1-Feb-16	12-Jun-12	20-May-13	27-Mar-14
Sample ID			LI-RW-9-PI9	LI-RW-9-PI12	LI-RW-9-PI15	LI-RW-9-PS3	RW-12	LI-RW-12-GW1	LI-RW-12-PI1	LI-RW-12-PI2	LI-RW-12-PI3	LI-RW12-PI6	LI-RW-12-PI9	LI-RW-12-PI12	LI-RW-12-PI15	LI-RW-12-PS3	LI-DUP-PS3	RW-13	LI-RW-13-GW1	LI-RW-13
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	DECI	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	DECI	STANTEC	STANTEC
Laboratory			PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	CCGE	PARAROCH
Laboratory Work Order			150382	151696	153411	160464	12:2431	E2301	142196	142794	143439	144730	150382	151696	153411	160464	160464	12:2486	E2301	141138
Laboratory Sample ID			150382-12	151696-08	153411-12	160464-04	12:2431-02	E2301-04	142196-03	142794-14	143439-09	144730-09	150382-08	151696-09	153411-08	160464-01	160464-13	12:2486-01	E2301-05	141138-10
Sample Type	Units	TOGS															Field Duplicate			
Volatile Organic Compounds (cont'd)																				
Ethylbenzene	µg/L	5[B]	2.00 U	2.00 U	2.00 UJ	2.00 U	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	-	5 U	2.00 U
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.0006[B]	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***	-	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***	***2.00 U***	-	***5 U***	***2.00 U***
Hexanone, 2- (Methyl Butyl Ketone)	µg/L	50[A]	5.00 U	5.00 U	5.00 UJ	5.00 U	-	25 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	-	25 U	5.00 U
Isopropylbenzene	µg/L	5[B]	2.00 U	2.00 U	2.00 UJ	2.00 U	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	-	5 U	2.00 U
Isopropyltoluene, p- (Cymene)	µg/L	5[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Acetate	µg/L	n/v	2.00 U	2.00 U	2.00 UJ	2.00 U	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	-	5 U	2.00 U
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	50[A]	10.0 UJ	10.0 U	10.0 UJ	10.0 U	-	25 U	10.0 U	10.0 UJ	10.0 U	10.0 UJ	10.0 UJ	10.0 U	10.0 UJ	10.0 U	10.0 U	-	25 U	10.0 UJ
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	5.00 U	5.00 U	5.00 UJ	5.00 U	-	25 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	-	25 U	5.00 U
Methyl tert-butyl ether (MTBE)	µg/L	10[A]	2.00 U	2.00 U	2.00 UJ	2.00 U	-	0.85 J	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	-	5 U	2.00 U
Methylcyclohexane	µg/L	n/v	2.00 U	2.00 U	2.00 UJ	2.00 U	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	-	5 U	2.00 U
Methylene Chloride (Dichloromethane)	µg/L	5[B]	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5 U	5.00 U
Naphthalene	µg/L	10[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propylbenzene, n-	µg/L	5[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	5[B]	5.00 U	5.00 U	5.00 UJ	5.00 U	-	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	-	5 U	5.00 U
Tetrachloroethane, 1,1,2,2-	µg/L	5[B]	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	5 U	2.00 U
Tetrachloroethene (PCE)	µg/L	5[B]	2.67	2.13	4.48 J-	3.62	2.71	4.9 J	**5.52[B]**	4.37	2.78	4.74	**7.82[B]**	2.79	**6.13 J-[B]**	1.68 J	1.83 J	2.00 U	2.8 J	2.00
Toluene	µg/L	5[B]	2.00 U	2.00 U	2.00 UJ	2.00 U	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	-	5 U	2.00 U
Trichlorobenzene, 1,2,3-	µg/L	5[B]	5.00 U	5.00 U	5.00 UJ	5.00 U	-	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	-	5 U	5.00 U
Trichlorobenzene, 1,2,4-	µg/L	5[B]	5.00 U	5.00 U	5.00 UJ	5.00 U	-	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	-	5 U	5.00 U
Trichloroethane, 1,1,1-	µg/L	5[B]	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	5 U	2.00 U
Trichloroethane, 1,1,2-	µg/L	1[B]	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***	***2.00 U***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 U***	***2.00 U***	***2.00 U***	***5 U***	***2.00 U***
Trichloroethene (TCE)	µg/L	5[B]	2.45	2.00 U	2.00 UJ	2.00 U	**6.80[B]**	**15[B]**	**25.1[B]**	**29.8[B]**	4.38	**7.10[B]**	**14.5[B]**	4.85	**9.90 J-[B]**	2.92	3.09	2.00 U	0.99 J	2.00 U
Trichlorofluoromethane (Freon 11)	µg/L	5[B]	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	5 U	2.00 U
Trichlorotrifluoroethane (Freon 113)	µg/L	5[B]	2.00 U	2.00 U	2.00 UJ	2.00 U	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	-	5 U	2.00 U
Trimethylbenzene, 1,2,4-	µg/L	5[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trimethylbenzene, 1,3,5-	µg/L	5[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Acetate	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	µg/L	2[B]	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	0.55 J	2.00 U	1.17 J	**2.27[B]**	2.00 U	**2.28 NJ[B]**	2.00 U	1.49 J-	2.00 U	2.00 U	2.00 U	***5 U***	2.00 U
Xylene, m & p-	µg/L	5[B]	2.00 U	2.00 U	2.00 UJ	2.00 U	-	***10 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	-	***10 U***	2.00 U
Xylene, o-	µg/L	5[B]	2.00 U	2.00 U	2.00 UJ	2.00 U	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	-	5 U	2.00 U
Total VOC	µg/L	n/v	6.78	2.13	4.48 J-	3.62	34.01	49	110.12	153.34	45.63	17.85	45.5	12.88	26.99 J-	8.25	8.81	ND	3.79	2.00
Volatile Organic Tentatively Identified Compounds																				
Total VOC TICs	µg/L	n/v	-	-	-	-	-	2.5 U	-	-	-	-	-	-	-	-	-	-	2.5 U	-

Table 2
Summary of Analytical Results in Groundwater
Former Carriage Factory
33 Litchfield Street, Rochester, New York

Area			QA/QC											
Sample Location			Trip Blank											
Sample Date			12-Jun-12	20-May-13	21-May-13	27-Mar-14	29-May-14	1-Jul-14	8-Aug-14	28-Oct-14	3-Feb-15	4-May-15	12-Aug-15	1-Feb-16
Sample ID			Trip Blank 7346	Trip Blank	Trip Blank	Trip Blank	LI-Trip Blank-PI1	LI-TRIPBLANK-PI2	Trip Blank (T-532)	Trip Blank (T-570)	LI-TRIPBLANK-PI9 (T-586)	Trip Blank (T-614)	Trip Blank (T-644)	Trip Blank T-691
Sampling Company			DECI	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			PARAROCH	CCGE	CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH
Laboratory Work Order			12:2486	E2301	E2314	141138	142196	142794	143439	144730	150382	151696	153411	160464
Laboratory Sample ID			12:2486-03	E2301-07	E2314-08	141138-15	142196-08	142794-01	143439-14	144730-14	150382-14	151696-14	153411-14	160464-14
Sample Type	Units	TOGS	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
General Chemistry														
Total Organic Carbon	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-
Metals														
Aluminum	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	µg/L	3[B]	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	25[B]	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	1000[B]	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	3[A]	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	5[B]	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	50[B]	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	200[B]	-	-	-	-	-	-	-	-	-	-	-	-
Iron	µg/L	300.[B]	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	25[B]	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	µg/L	35000[A]	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	µg/L	300.[B]	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	0.7[B]	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	100[B]	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	10[B]	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	50[B]	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	20000[B]	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	0.5[A]	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	2000[A]	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds														
Acetone	µg/L	50[A]	-	25 U	25 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 UJ	10.0 UJ
Benzene	µg/L	1[B]	-	***5 U***	***5 U***	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.00 UJ	1.00 UJ
Bromodichloromethane	µg/L	50[A]	2.00 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ
Bromoform (Tribromomethane)	µg/L	50[A]	5.00 U	5 U	5 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 UJ
Bromomethane (Methyl bromide)	µg/L	5..[B]	2.00 U	5 U	5 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ
Butylbenzene, n-	µg/L	5..[B]	-	-	-	-	-	-	-	-	-	-	-	-
Butylbenzene, sec- (2-Phenylbutane)	µg/L	5..[B]	-	-	-	-	-	-	-	-	-	-	-	-
Butylbenzene, tert-	µg/L	5..[B]	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	µg/L	60[A]	-	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	2.00 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ
Chlorobenzene (Monochlorobenzene)	µg/L	5..[B]	2.00 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ
Chlorobromomethane	µg/L	5..[B]	-	5 U	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 UJ
Chloroethane (Ethyl Chloride)	µg/L	5..[B]	2.00 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ
Chloroethyl Vinyl Ether, 2-	µg/L	n/v	10.0 U R	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	7[B]	2.00 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ
Chloromethane	µg/L	5..[B]	2.00 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ
Cyclohexane	µg/L	n/v	-	5 UJ	5 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 UJ	10.0 UJ
Dibromo-3-Chloropropane, 1,2- (DBCP)	µg/L	0.04[B]	-	***5 U***	***5 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 UJ***	***10.0 UJ***
Dibromochloromethane	µg/L	50[A]	2.00 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ
Dichlorobenzene, 1,2-	µg/L	3[B]	2.00 U	***5 U***	***5 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ
Dichlorobenzene, 1,3-	µg/L	3[B]	2.00 U	***5 U***	***5 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ
Dichlorobenzene, 1,4-	µg/L	3[B]	2.00 U	***5 U***	***5 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ
Dichlorodifluoromethane (Freon 12)	µg/L	5..[B]	-	5 U	5 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ
Dichloroethane, 1,1-	µg/L	5..[B]	2.00 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ
Dichloroethane, 1,2-	µg/L	0.6[B]	***2.00 U***	***5 U***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 UJ***
Dichloroethene, 1,1-	µg/L	5..[B]	2.00 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ
Dichloroethene, cis-1,2-	µg/L	5..[B]	2.00 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ
Dichloroethene, trans-1,2-	µg/L	5..[B]	2.00 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ
Dichloropropane, 1,2-	µg/L	1[B]	***2.00 U***	***5 U***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 UJ***
Dichloropropene, cis-1,3-	µg/L	0.4$_p$[B]	***2.00 U***	***5 U***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 UJ***
Dichloropropene, trans-1,3-	µg/L	0.4$_p$[B]	***2.00 U***	***5 U***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 UJ***
Dioxane, 1,4-	µg/L	n/v	-	100 U R	100 U	20.0 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U	20.0 U	20.0 UJ	20.0 U R	20.0 U R

Table 2
Summary of Analytical Results in Groundwater
Former Carriage Factory
33 Litchfield Street, Rochester, New York

Area			QA/QC											
Sample Location			Trip Blank											
Sample Date			12-Jun-12	20-May-13	21-May-13	27-Mar-14	29-May-14	1-Jul-14	8-Aug-14	28-Oct-14	3-Feb-15	4-May-15	12-Aug-15	1-Feb-16
Sample ID			Trip Blank 7346	Trip Blank	Trip Blank	Trip Blank	LI-Trip Blank-PI1	LI-TRIPBLANK-PI2	Trip Blank (T-532)	Trip Blank (T-570)	LI-TRIPBLANK-PI9 (T-586)	Trip Blank (T-614)	Trip Blank (T-644)	Trip Blank T-691
Sampling Company			DECI	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			PARAROCH	CCGE	CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH
Laboratory Work Order			12:2486	E2301	E2314	141138	142196	142794	143439	144730	150382	151696	153411	160464
Laboratory Sample ID			12:2486-03	E2301-07	E2314-08	141138-15	142196-08	142794-01	143439-14	144730-14	150382-14	151696-14	153411-14	160464-14
Sample Type	Units	TOGS	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Volatile Organic Compounds (cont'd)														
Ethylbenzene	µg/L	5..[B]	-	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.0006[B]	-	***5 U***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 UJ***
Hexanone, 2- (Methyl Butyl Ketone)	µg/L	50[A]	-	25 U	25 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 UJ
Isopropylbenzene	µg/L	5..[B]	-	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ
Isopropyltoluene, p- (Cymene)	µg/L	5..[B]	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Acetate	µg/L	n/v	-	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	50[A]	-	25 U	25 U	10.0 UJ	10.0 U	10.0 UJ	10.0 U	10.0 UJ	10.0 UJ	10.0 U	10.0 UJ	10.0 UJ
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	-	25 U	25 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 UJ
Methyl tert-butyl ether (MTBE)	µg/L	10[A]	-	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ
Methylcyclohexane	µg/L	n/v	-	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ
Methylene Chloride (Dichloromethane)	µg/L	5..[B]	5.00 U	5 U	3.4 J	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 UJ
Naphthalene	µg/L	10[B]	-	-	-	-	-	-	-	-	-	-	-	-
Propylbenzene, n-	µg/L	5..[B]	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	5..[B]	-	5 U	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 UJ
Tetrachloroethane, 1,1,2,2-	µg/L	5..[B]	2.00 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ
Tetrachloroethene (PCE)	µg/L	5..[B]	2.00 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ
Toluene	µg/L	5..[B]	-	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ
Trichlorobenzene, 1,2,3-	µg/L	5..[B]	-	5 U	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 UJ
Trichlorobenzene, 1,2,4-	µg/L	5..[B]	-	5 U	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 UJ
Trichloroethane, 1,1,1-	µg/L	5..[B]	2.00 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ
Trichloroethane, 1,1,2-	µg/L	1[B]	***2.00 U***	***5 U***	***5 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 UJ***	***2.00 UJ***
Trichloroethene (TCE)	µg/L	5..[B]	2.00 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ
Trichlorofluoromethane (Freon 11)	µg/L	5..[B]	2.00 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ
Trichlorotrifluoroethane (Freon 113)	µg/L	5..[B]	-	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ
Trimethylbenzene, 1,2,4-	µg/L	5..[B]	-	-	-	-	-	-	-	-	-	-	-	-
Trimethylbenzene, 1,3,5-	µg/L	5..[B]	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Acetate	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	µg/L	2[B]	2.00 U	***5 U***	***5 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ
Xylene, m & p-	µg/L	5..[B]	-	***10 U***	***10 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ
Xylene, o-	µg/L	5..[B]	-	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ
Total VOC	µg/L	n/v	ND	ND	3.4	ND	ND	ND	ND	ND	ND	ND	ND UJ-	ND UJ
Volatile Organic Tentatively Identified Compounds														
Total VOC TICs	µg/L	n/v	-	2.5 U	2.5 U	-	-	-	-	-	-	-	-	-

Table 2
Summary of Analytical Results in Groundwater
Former Carriage Factory
33 Litchfield Street, Rochester, New York

Notes:

TOGS	NYSDEC TOGS 1.1.1 (Reissued June 1998 with errata in January 1999 and addenda in April 2000 and June 2004)
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
B	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); Standards
6.5[A]	Concentration exceeds the indicated standard.
15.2	Measured concentration did not exceed the indicated standard.
0.50 U	Laboratory reporting limit was greater than the applicable standard.
0.03 U	Analyte was not detected at a concentration greater than the laboratory reporting limit.
n/v	No standard/guideline value.
-	Parameter not analyzed / not available.
*	The standard for Iron and Manganese is 500 ug/L, which applies to the sum of these substances. As individual standards, the standard is 300 ug/L.
**	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.
B	Indicates analyte was found in associated blank, as well as in the sample.
D	Indicates reanalysis of sample with additional dilution to address exceedance of instrument calibration range.
J	The reported result is an estimated value.
J-	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
J+	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
M	Denotes matrix spike recoveries outside QC limits. Matrix bias indicated.
N	Indicates presumptive evidence of a compound. Identification of tentatively identified compound is based on a mass spectral library search.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
Q	Indicates LCS control criteria did not meet requirements
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control critera. The presence or absence of the analyte cannot be verified.
U	Indicates that the analyte was analyzed but not detected.
UJ	Indicates estimated non-detect.

Table 3
Summary of Groundwater Field Parameters
Former Carriage Factory
33 Litchfield Street, Rochester, NY

Sample Location		B101-MW	B102-MW										B106-MW									
Purge Date		21-May-13	22-May-13	27-Mar-14	28-May-14	2-Jul-14	6-Aug-14	28-Oct-14	3-Feb-15	4-May-15	12-Aug-15	1-Feb-16	23-May-13	26-Mar-14	28-May-14	2-Jul-14	7-Aug-14	28-Oct-14	3-Feb-15	5-May-15	12-Aug-15	2-Feb-16
Purge Methodology		Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow
Purge Method		Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic
Sample Date		21-May-13	22-May-13	27-Mar-14	28-May-14	2-Jul-14	6-Aug-14	28-Oct-14	3-Feb-15	4-May-15	12-Aug-15	1-Feb-16	23-May-13	26-Mar-14	28-May-14	2-Jul-14	7-Aug-14	28-Oct-14	3-Feb-15	5-May-15	12-Aug-15	2-Feb-16
Sampling Method		Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic
Field Parameters	**Units**																					
Conductivity	mS/cm	0.99	0.86	0.90	0.92	1.41	1.03	1.15	1.19	1.28	4.16	3.37	0.92	1.08	1.29	2.20	1.30	1.09	1.06	1.03	1.12	1.25
Dissolved Oxygen	mg/L	1.34	0.10	0.12	0.19	0.14	0.03	1.09	0.00	0.20	0.15	0.11	0.13	0.07	0.08	0.17	0.11	0.40	0.00	0.06	0.12	0.32
Oxidation Reduction Potential	mV	-25.0	13.3	73.6	-49.7	-271.6	-284.0	-118.9	-154.7	-233.3	-128.2	-213.0	17.8	90.8	-96.3	-231.4	-274.4	-138.8	-172.9	-241.4	-22.9	-255.6
pH	S.U.	7.02	6.87	7.02	7.15	7.26	7.04	7.06	7.17	7.00	6.90	7.18	6.99	7.05	7.15	6.96	7.07	7.02	7.09	6.98	7.00	7.05
Temperature	deg C	13.4	20.5	3.7	18.4	16.2	20.4	15.9	7.7	10.9	17.2	11.4	16.1	3.0	18.3	15.7	16.5	15.4	16.2	16.7	17.6	17.6
Turbidity	NTU	0.68	4.07	11.71	1.87	1.79	1.45	2.75	2.28	0.76	1.62	4.73	4.77	1.84	1.48	1.46	2.1	2.46	0.99	0.48	3.39	1.34
Volume Purged	gal	0.8	1.2	0.5	2.6	2.0	2.0	0.7	0.5	1.8	0.65	2.10	1.1	0.7	1.8	1.5	1.7	1.4	1.1	1.7	0.7	1.9

Sample Location		B108-MW										RW-1									
Purge Date		23-May-13	26-Mar-14	28-May-14	2-Jul-14	8-Aug-14	29-Oct-14	3-Feb-15	5-May-15	12-Aug-15	2-Feb-16	23-May-13	26-Mar-14	29-May-14	1-Jul-14	8-Aug-14	29-Oct-14	3-Feb-15	5-May-15	12-Aug-15	2-Feb-16
Purge Methodology		Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow
Purge Method		Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic
Sample Date		23-May-13	26-Mar-14	28-May-14	2-Jul-14	8-Aug-14	29-Oct-14	3-Feb-15	5-May-15	12-Aug-15	2-Feb-16	23-May-13	26-Mar-14	29-May-14	1-Jul-14	8-Aug-14	29-Oct-14	3-Feb-15	5-May-15	12-Aug-15	2-Feb-16
Sampling Method		Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic
Field Parameters	**Units**																				
Conductivity	mS/cm	0.95	1.06	1.05	1.27	1.22	1.22	1.49	1.04	1.39	1.52	0.74	1.07	1.22	2.12	1.15	1.23	1.13	1.82	4.99	2.56
Dissolved Oxygen	mg/L	0.13	0.13	0.10	0.18	0.13	0.31	0.00	0.06	0.11	0.11	0.13	0.01	0.11	0.08	0.14	0.70	0.00	0.01	0.13	0.19
Oxidation Reduction Potential	mV	29.1	137.1	-69.9	-216.0	-293.4	-354.1	-327.4	-241.5	-105.3	-330.3	-94.3	179.0	-147.8	-252.9	-313.0	-297.2	-321.0	-266.7	-114.9	-243.9
pH	S.U.	7.15	7.04	7.21	7.04	7.02	7.08	7.68	7.01	7.10	7.00	7.19	7.05	7.16	6.75	7.05	7.36	7.17	7.03	7.18	7.11
Temperature	deg C	13.6	10.6	19.5	16.1	15.4	16.0	16.7	16.1	17.6	17.4	12.5	8.6	18.8	16.5	15.0	15.3	15.2	15.3	17.4	16.1
Turbidity	NTU	0.62	0.28	3.54	0.86	3.78	3.24	1.11	1.56	2.41	1.35	10.55	12.37	1.66	6.31	3.19	4.41	2.97	2.15	4.37	0.96
Volume Purged	gal	0.5	0.7	1.8	1.1	1.55	1.7	0.7	1.8	0.8	2.7	0.7	0.7	1.5	1.4	1.8	0.9	1.2	2.3	2.25	2.00

Sample Location		RW-2										RW-3									
Purge Date		21-May-13	26-Mar-14	29-May-14	1-Jul-14	8-Aug-14	29-Oct-14	3-Feb-15	5-May-15	12-Aug-15	2-Feb-16	22-May-13	26-Mar-14	29-May-14	1-Jul-14	7-Aug-14	29-Oct-14	3-Feb-15	5-May-15	12-Aug-15	2-Feb-16
Purge Methodology		Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow
Purge Method		Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic
Sample Date		21-May-13	26-Mar-14	29-May-14	1-Jul-14	8-Aug-14	29-Oct-14	3-Feb-15	5-May-15	12-Aug-15	2-Feb-16	22-May-13	26-Mar-14	29-May-14	1-Jul-14	7-Aug-14	29-Oct-14	3-Feb-15	5-May-15	12-Aug-15	2-Feb-16
Sampling Method		Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic
Field Parameters	**Units**																				
Conductivity	mS/cm	0.85	1.08	2.34	1.70	1.68	1.27	1.27	1.03	1.23	1.50	0.87	1.09	1.79	1.31	1.00	1.05	1.23	1.22	1.37	1.62
Dissolved Oxygen	mg/L	0.28	0.03	0.20	0.11	0.16	0.65	0.11	0.08	0.17	0.20	0.15	0.06	0.08	0.06	0.23	0.37	0.00	0.10	0.18	0.15
Oxidation Reduction Potential	mV	-30.3	156.8	-171.5	-172.0	-292.5	-286.4	-152.2	-326.1	-111.8	-284.7	87.3	157.6	-132.8	-213.0	-216.8	-242.2	-192.4	-320.7	-116.4	-297.3
pH	S.U.	7.36	7.11	6.94	7.56	6.93	7.52	7.61	7.09	7.31	7.12	7.39	7.07	7.45	7.67	7.35	7.71	7.48	7.20	7.40	7.07
Temperature	deg C	12.7	7.2	16.8	16.8	14.9	16.0	15.6	16.2	18.1	16.8	12.4	9.3	17.7	15.3	15	15.7	16.3	17.2	17.6	17.9
Turbidity	NTU	5.23	3.81	7.53	2.34	1.71	3.71	2.92	1.45	6.71	4.97	0.88	1.29	1.24	1.72	1.62	2.42	2.62	0.48	2.59	2.73
Volume Purged	gal	1.2	0.8	1.4	0.3	1.15	0.6	1.0	1.0	1.0	1.8	0.5	0.7	1.5	1.8	0.5	0.6	0.7	1.6	0.7	3.0

Sample Location		RW-4										RW-5									
Purge Date		22-May-13	26-Mar-14	29-May-14	2-Jul-14	6-Aug-14	29-Oct-14	4-Feb-15	4-May-15	13-Aug-15	1-Feb-16	21-May-13	27-Mar-14	29-May-14	2-Jul-14	7-Aug-14	28-Oct-14	3-Feb-15	4-May-15	13-Aug-15	1-Feb-16
Purge Methodology		Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Volumetric[d]	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow
Purge Method		Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Bailer[d]	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic
Sample Date		22-May-13	26-Mar-14	29-May-14	2-Jul-14	6-Aug-14	29-Oct-14	4-Feb-15	4-May-15	13-Aug-15	1-Feb-16	21-May-13	27-Mar-14	29-May-14	2-Jul-14	7-Aug-14	28-Oct-14	3-Feb-15	4-May-15	13-Aug-15	1-Feb-16
Sampling Method		Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Bailer[d]	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic
Field Parameters	**Units**																				
Conductivity	mS/cm	0.91	0.88	0.89	1.94	1.67	1.00	1.48	1.77	3.30	3.18	0.89	1.08	1.40	1.86	1.20	1.01	1.00	1.02	1.08	1.27
Dissolved Oxygen	mg/L	0.11	0.17	0.06	0.15	0.04	0.44	0.24	3.04	0.20	0.18	0.28	0.00	0.06	0.19	0.08	0.43	0.00	0.39	0.22	0.09
Oxidation Reduction Potential	mV	38.6	132.4	29.3	-180.2	-347	-130.3	-278.2	-175.5	-57.8	-311.9	-2.3	74.7	-95.6	-137.8	-170.0	-164.1	-269.2	-230.4	-142.5	-179.1
pH	S.U.	6.91	7.08	7.10	6.90	7.05	6.95	7.17	7.10	6.86	6.99	7.07	7.29	7.27	7.03	7.07	7.23	7.31	7.19	7.10	7.36
Temperature	deg C	20.0	2.4	25.5	17.4	19.2	14.8	7.4	9.8	21.2	10.3	16.2	5.7	22.8	17.3	19.9	17.5	5.2	11.6	17.1	10.5
Turbidity	NTU	5.68	5.81	1.72	3.18	1.93	1.06	2.01	10.25	9.56	1217[e]	2.98	1.22	7.10	1.88	3.89	1.77	3.60	6.21	6.10	6.25
Volume Purged	gal	0.8	1.8	0.9	1.9	1.1	2.1	2.7	5.4	0.9	1.4	1.1	3.2	0.5	1.2	1.5	0.8	1.4	0.9	2.0	1.8

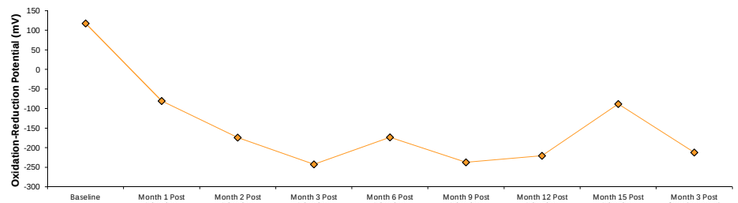
See last page for Notes.

Table 3
Summary of Groundwater Field Parameters
Former Carriage Factory
33 Litchfield Street, Rochester, NY

Sample Location		RW-6										RW-7									
Purge Date		20-May-13	27-Mar-14	28-May-14	1-Jul-14	7-Aug-14	28-Oct-14	4-Feb-15	4-May-15	13-Aug-15	1-Feb-16	20-May-13	27-Mar-14	28-May-14	1-Jul-14	7-Aug-14	28-Oct-14	4-Feb-15	4-May-15	13-Aug-15	1-Feb-16
Purge Methodology		Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow
Purge Method		Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic
Sample Date		20-May-13	27-Mar-14	28-May-14	1-Jul-14	7-Aug-14	28-Oct-14	4-Feb-15	4-May-15	13-Aug-15	1-Feb-16	20-May-13	27-Mar-14	28-May-14	1-Jul-14	7-Aug-14	28-Oct-14	4-Feb-15	4-May-15	13-Aug-15	1-Feb-16
Sampling Method		Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic
Field Parameters	**Units**																				
Conductivity	mS/cm	0.93	1.07	1.72	1.34	1.30	1.21	1.08	1.01	1.03	1.94	1.02	1.21	1.30	1.17	1.07	0.96	1.16	1.08	1.11	1.39
Dissolved Oxygen	mg/L	0.08	0.01	0.07	0.10	0.14	0.42	0.28	0.08	0.20	0.12	0.08	0.38	0.31	0.13	0.11	0.44	0.39	0.07	0.26	0.05
Oxidation Reduction Potential	mV	-10.6	138.3	-69.0	-136.7	-306.1	-134.8	-304.1	-252.4	-143.6	-117.7	29.4	92.6	-37.6	-104.6	-303.6	-168.2	-224.3	-208.5	-88.0	-217.8
pH	S.U.	7.13	7.33	7.03	6.91	7.00	7.06	7.22	7.14	7.15	6.96	7.06	7.27	7.08	6.99	7.07	7.11	7.12	6.99	7.11	7.07
Temperature	deg C	19.0	6.1	17.6	21.2	17.2	16.7	6.8	10.4	18.8	9.9	16.8	6.7	20.3	18.4	16.3	17.5	7.9	10.6	17.9	10.3
Turbidity	NTU	7.08[a]	5.46	7.48	4.83	4.79	1.03	4.76	4.62	3.01	4.68	10.38	1.36	3.12	1.12	1.53	4.74	0.67	1.77	3.13	1.72
Volume Purged	gal	1.3	1.1	1.2	0.7	1.0	0.7	1.2	2.0	1.8	1.5	1.2	0.9	1.8	1.2	1.5	1.3	2.0	1.8	2.0	2.2

Sample Location		RW-8	RW-9									RW-11	
Purge Date		20-May-13	21-May-13	27-Mar-14	29-May-14	1-Jul-14	7-Aug-14	28-Oct-14	4-Feb-15	4-May-15	13-Aug-15	1-Feb-16	22-May-13	27-Mar-14
Purge Methodology		Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow
Purge Method		Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic
Sample Date		20-May-13	21-May-13	27-Mar-14	29-May-14	1-Jul-14	7-Aug-14	28-Oct-14	4-Feb-15	4-May-15	13-Aug-15	1-Feb-16	22-May-13	27-Mar-14
Sampling Method		Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic
Field Parameters	**Units**													
Conductivity	mS/cm	1.04	0.94	1.05	0.68	0.74	0.85	0.98	1.03	0.97	1.29	1.51	0.79	0.82
Dissolved Oxygen	mg/L	1.06	2.48	2.45	5.52	2.37	2.43	0.50	0.45	0.61	1.61	1.46	2.36	1.62
Oxidation Reduction Potential	mV	77.0	49.4	104.6	28.1	33.9	51.0	4.1	-166.7	-34.3	50.5	-31.3	94.5	88.8
pH	S.U.	7.05	7.13	7.29	7.44	7.12	7.06	7.04	7.12	6.99	7.03	7.07	7.15	7.33
Temperature	deg C	14.4	14.0	9.4	20.7	19.0	15.5	16.8	10.5	15.2	16.9	13.1	14.6	5.1
Turbidity	NTU	2.54	0.33	0.50	3.62	1.80	1.06	1.61	0.71	2.88	3.18	1.50	0.11[b]	1.31
Volume Purged	gal	1.0	0.8	1.2	0.7	0.35	0.7	2.9	1.5	1.6	1.0	1.5	0.4	0.7

Sample Location		RW-12									RW-13	
Purge Date		20-May-13	28-May-14	2-Jul-14	7-Aug-14	29-Oct-14	4-Feb-15	4-May-15	12-Aug-15	1-Feb-16	20-May-13	27-Mar-14
Purge Methodology		Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow
Purge Method		Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic
Sample Date		20-May-13	28-May-14	2-Jul-14	7-Aug-14	29-Oct-14	4-Feb-15	4-May-15	12-Aug-15	1-Feb-16	20-May-13	27-Mar-14
Sampling Method		Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic
Field Parameters	**Units**											
Conductivity	mS/cm	1.02	1.76	2.09	2.00	1.60	1.37	1.49	1.23	1.60	1.08	1.12
Dissolved Oxygen	mg/L	0.06	0.06	0.24	0.45	1.02	0.34	0.09	0.12	0.12	1.96	2.13
Oxidation Reduction Potential	mV	20.0	-149.5	-204.6	-159.7	-44.7	-284.1	-113.1	-76.9	-62.4	48.6	101.8
pH	S.U.	7.10	7.25	7.11	7.17	7.30	7.36	7.40	7.34	7.32	7.21	7.25
Temperature	deg C	16.0	24.1	17.4	18.1	14.8	6.8	12.4	17.7	10.5	17.2	6.0
Turbidity	NTU	...[c]	1.10	5.55	2.82	2.45	1.40	0.61	3.66	2.27	5.10	1.86
Volume Purged	gal	1.0	2.0	0.9	1.3	0.6	1.7	2.9	1.1	1.3	2.3	2.0



Notes:

deg c	degrees Celsius
gal	gallons
mg/l	milligrams per liter
mS/cm	milliSiemens per centimeter
mV	millivolts
NTU	nephelometric turbidity unit
AU	attenuation unit (equivalent to NTU)
S.U.	standard units
[a]	Sample turbidity measured approximately 10 minutes prior to sampling; subsequent measurements (-126 NTU) indicated that the turbidity meter was not functioning.
[b]	Sample turbidity measured approximately 5 minutes prior to sampling; subsequent measurement (-0.02 NTU) indicated that the turbidity meter was not functioning.
[c]	Turbidity meter was not functioning; groundwater was clear and did not have an odor.
[d]	Due to a large drop in water level, RW-4 was purged and sampled by bailer (during the May 2015 event); parameters provided were not measured downhole.
[e]	Turbidity measured in AU. Water was not becoming sufficiently clearer with purge activities.

Parameter Average for All Wells
Pre - Post Injection Comparison

Parameter	Mar-14	May-14	Jul-14	Aug-14	Oct-14	Feb-15	May-15	Aug-15	Feb-16
Conductivity	1.04	1.36	1.60	1.29	1.15	1.21	1.23	1.94	1.89
Dissolved Oxygen	0.55	0.57	0.33	0.34	0.56	0.15	0.40	0.29	0.26
ORP	117.55	-80.19	-173.91	-242.46	-172.97	-237.27	-220.33	-88.15	-212.08
pH	7.17	7.19	7.11	7.07	7.20	7.29	7.09	7.12	7.11
Temperature	6.45	20.04	17.28	16.95	16.03	11.03	13.53	17.93	13.48
Turbidity	3.76	3.46	2.74	2.49	2.64	2.17	2.77	4.14	104.13
Volume Purged	1.15	1.48	1.20	1.32	1.19	1.31	2.07	1.24	1.93
	Baseline	*Month 1 Post Injection*	*Month 2 Post Injection*	*Month 3 Post Injection*	*Month 6 Post Injection*	*Month 9 Post Injection*	*Month 12 Post Injection*	*Month 15 Post Injection*	*Month 3 Post Supplemental Injection*

Table 4
Annual Monitoring of the Sub-Slab Depressurization System
Former Carriage Factory
33 Litchfield Street, Rochester, NY

Date	Photoionization Detector Reading * (parts per million)			Vacuum Monitoring Points (inches Water Column)						Basement inspected for cracks, new penetrations, other potential leaks? If necessary, perform smoke testing to assess the leakage potential of suspect locations.)	Fans, pilot lights inspected in the attic? Any abnormal conditions such as hot fan housings, vibrations, or unusual noises?	Any condensation occuring on SSDS exhaust piping?
	FAN-1	FAN-2	FAN-3	VMP-1	VMP-2	VMP-3	VMP-4	VMP-5	VMP-6			
12/14/2014	Not Collected	Not Collected	Not Collected	-0.042	-0.075	-0.107	-0.099	-0.142	-0.084	None observed	None observed	None Observed
2/2/2016	0.1	0	0	-0.014	-0.043	-0.084	-0.086	-0.123	-0.073	None observed	None observed	Yes**

* Fans 1,2, and 3 are the western, central, and eastern fans, respectively.
** Based on 3/17/2016 site visit

Table 5
Summary of Analytical Results in Post-Construction Purge Water and Discharge Permit Samples
Former Carriage Factory
33 Litchfield Street, Rochester, New York

Sample Date			15-Sep-14	4-Nov-14	4-Feb-15	17-Feb-15	5-May-15		13-Aug-15		24-Nov-15	2-Feb-16	
Sample ID			LI-EL-W11	LI-EL-W12	LI-EL-W13	LI-EL-W14	LI-EL-W15	LI-EL-W16	LI-EL-W17	LI-EL-W18	LI-EL-W19	LI-EL-W20	LI-EL-W21
Sample Type		County of	Composite	GWS Purge	GWS Purge	Elevator Sump	GWS Purge	Elevator Sump	Elevator Sump	GWS Purge	Elevator Sump	Elevator Sump	GWS Purge
Sampling Company		Monroe	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory		Sewer Use	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH
Laboratory Work Order		Permit	144025	144818	150381	150502	151695	151695	153410	153410	155061	160463	160463
Laboratory Sample ID	Units	Enclosure	144025-01	144818-01	150381-01	150502-01	151695-01	151695-02	153410-01	153410-02	155061-01	160463-01	160463-02
Metals													
Aluminum	mg/L	n/v	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/L	n/v	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	0.5[A]	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/L	n/v	-	-	-	-	-	-	-	-	-	-	-
Beryllium	mg/L	n/v	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	1.0[A]	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U
Calcium	mg/L	n/v	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/L	3.0[A]	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/L	n/v	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	3.0[A]	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U
Iron	mg/L	n/v	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/L	1.0[A]	0.0239	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Magnesium	mg/L	n/v	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	n/v	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/L	n/v	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	3.0[A]	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/L	n/v	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/L	n/v	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/L	2.0[A]	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	n/v	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/L	n/v	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/L	n/v	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/L	5.0[A]	0.214	0.0600 U	0.0600 U	0.0600 U	0.0600 U	0.177	0.0600 U	0.0600 U	1.15	0.319	0.0600 U
Volatile Organic Compounds													
Acetone	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-
Benzene	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	n/v	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Bromoform (Tribromomethane)	µg/L	n/v	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Bromomethane (Methyl bromide)	µg/L	n/v	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Carbon Disulfide	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-
Carbon Tetrachloride (Tetrachloromethane)	µg/L	n/v	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Chlorobenzene (Monochlorobenzene)	µg/L	n/v	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Chloroethane (Ethyl Chloride)	µg/L	n/v	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Chloroethyl Vinyl Ether, 2-	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-

See last page for notes.

Table 5
Summary of Analytical Results in Post-Construction Purge Water and Discharge Permit Samples
Former Carriage Factory
33 Litchfield Street, Rochester, New York

Sample Date			15-Sep-14	4-Nov-14	4-Feb-15	17-Feb-15	5-May-15		13-Aug-15		24-Nov-15	2-Feb-16	
Sample ID			LI-EL-W11	LI-EL-W12	LI-EL-W13	LI-EL-W14	LI-EL-W15	LI-EL-W16	LI-EL-W17	LI-EL-W18	LI-EL-W19	LI-EL-W20	LI-EL-W21
Sample Type		County of	Composite	GWS Purge	GWS Purge	Elevator Sump	GWS Purge	Elevator Sump	Elevator Sump	GWS Purge	Elevator Sump	Elevator Sump	GWS Purge
Sampling Company		Monroe	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory		Sewer Use	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH
Laboratory Work Order		Permit	144025	144818	150381	150502	151695	151695	153410	153410	155061	160463	160463
Laboratory Sample ID	Units	Enclosure	144025-01	144818-01	150381-01	150502-01	151695-01	151695-02	153410-01	153410-02	155061-01	160463-01	160463-02
Volatile Organic Compounds (cont'd)													
Chloroform (Trichloromethane)	µg/L	n/v	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Chloromethane	µg/L	n/v	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Dibromochloromethane	µg/L	n/v	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Dichlorobenzene, 1,2-	µg/L	n/v	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Dichlorobenzene, 1,3-	µg/L	n/v	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Dichlorobenzene, 1,4-	µg/L	n/v	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Dichloroethane, 1,1-	µg/L	n/v	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Dichloroethane, 1,2-	µg/L	n/v	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Dichloroethene, 1,1-	µg/L	n/v	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Dichloroethene, cis-1,2-	µg/L	n/v	98.8	107	12.5	2.00 U	19.2	2.00 U	2.00 U	11.1	2.00 U	2.00 U	2.00 U
Dichloroethene, trans-1,2-	µg/L	n/v	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Dichloropropane, 1,2-	µg/L	n/v	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Dichloropropene, cis-1,3-	µg/L	n/v	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Dichloropropene, trans-1,3-	µg/L	n/v	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Ethylbenzene	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-
Hexanone, 2- (Methyl Butyl Ketone)	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-
Methyl Ethyl Ketone (MEK)	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-
Methyl tert-butyl ether (MTBE)	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-
Methylene Chloride (Dichloromethane)	µg/L	n/v	5.00 U	6.88	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Styrene	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethane, 1,1,2,2-	µg/L	n/v	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Tetrachloroethene (PCE)	µg/L	n/v	2.00 U	2.00 U	2.00 U	2.00 U	2.25	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Toluene	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-
Trichloroethane, 1,1,1-	µg/L	n/v	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Trichloroethane, 1,1,2-	µg/L	n/v	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Trichloroethene (TCE)	µg/L	n/v	2.00 U	2.14	2.86	2.00 U	2.62	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Trichlorofluoromethane (Freon 11)	µg/L	n/v	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Vinyl Acetate	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	µg/L	n/v	10.1	33.0	4.96	2.00 U	10.3	2.00 U	2.00 U	9.14	2.00 U	2.00 U	2.00 U
Xylene, m & p-	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-
Xylene, o-	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-
Total VOC	µg/L	2130[A]	108.9	149.02	20.32	ND	34.37	ND	ND	20.24	ND	ND	ND

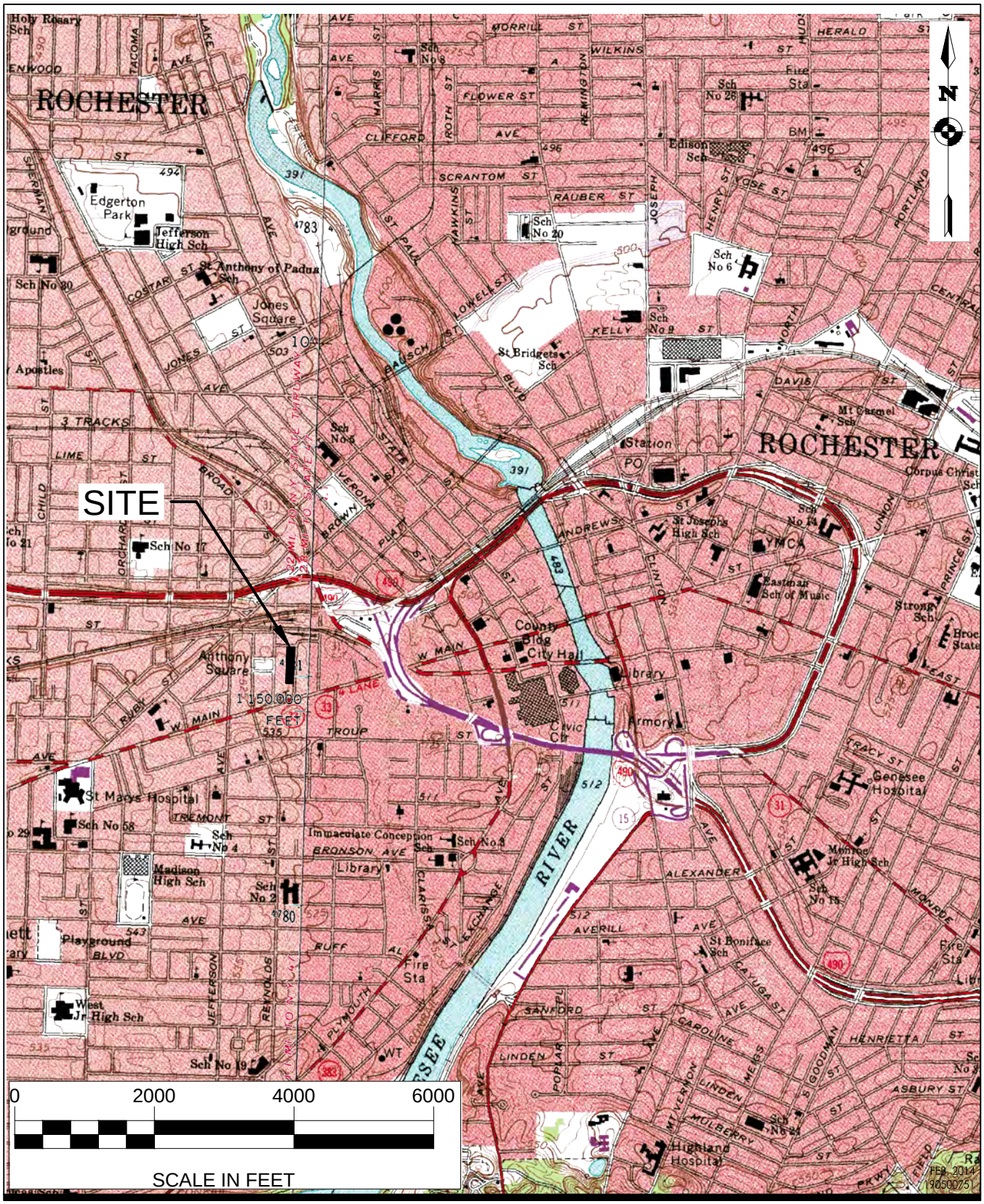
See last page for notes.

Table 5
Summary of Analytical Results in Post-Construction Purge Water and Discharge Permit Samples
Former Carriage Factory
33 Litchfield Street, Rochester, New York

Notes:

County of Monroe Sewer Use Permit Enclosure	County of Monroe Sewer Use Permit Enclosure (Permit Number: ST-256, District Number: 8575)
[A]	Site Specific Requirements
6.5[A]	Concentration exceeds the indicated standard.
15.2	Measured concentration was less than the applicable standard.
0.03 U	Analyte was not detected at a concentration greater than the laboratory reportable detection limit.
n/v	No standard/guideline value.
-	Parameter not analyzed / not available.
B	Indicates analyte was found in associated blank, as well as in the sample.
D	Indicates reanalysis of sample with additional dilution to address exceedance of instrument calibration range.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control critera. The presence or absence of the analyte cannot be verified.
U	Indicates that the analyte was analyzed but not detected.
UJ	Indicates estimated non-detect.

Figures



ORIGINAL SHEET - ANSI A
U:\190500751\drawing\CAD\PRR\April 2016\Figure 1 - Site Location Map.dwg

Stantec

61 Commercial Street, Suite 100
Rochester, New York USA 14614
585.475.1440 www.stantec.com

Client/Project

CARRIAGE FACTORY SPECIAL NEEDS APARTMENTS, L.P.

BROWNFIELD CLEANUP PROGRAM

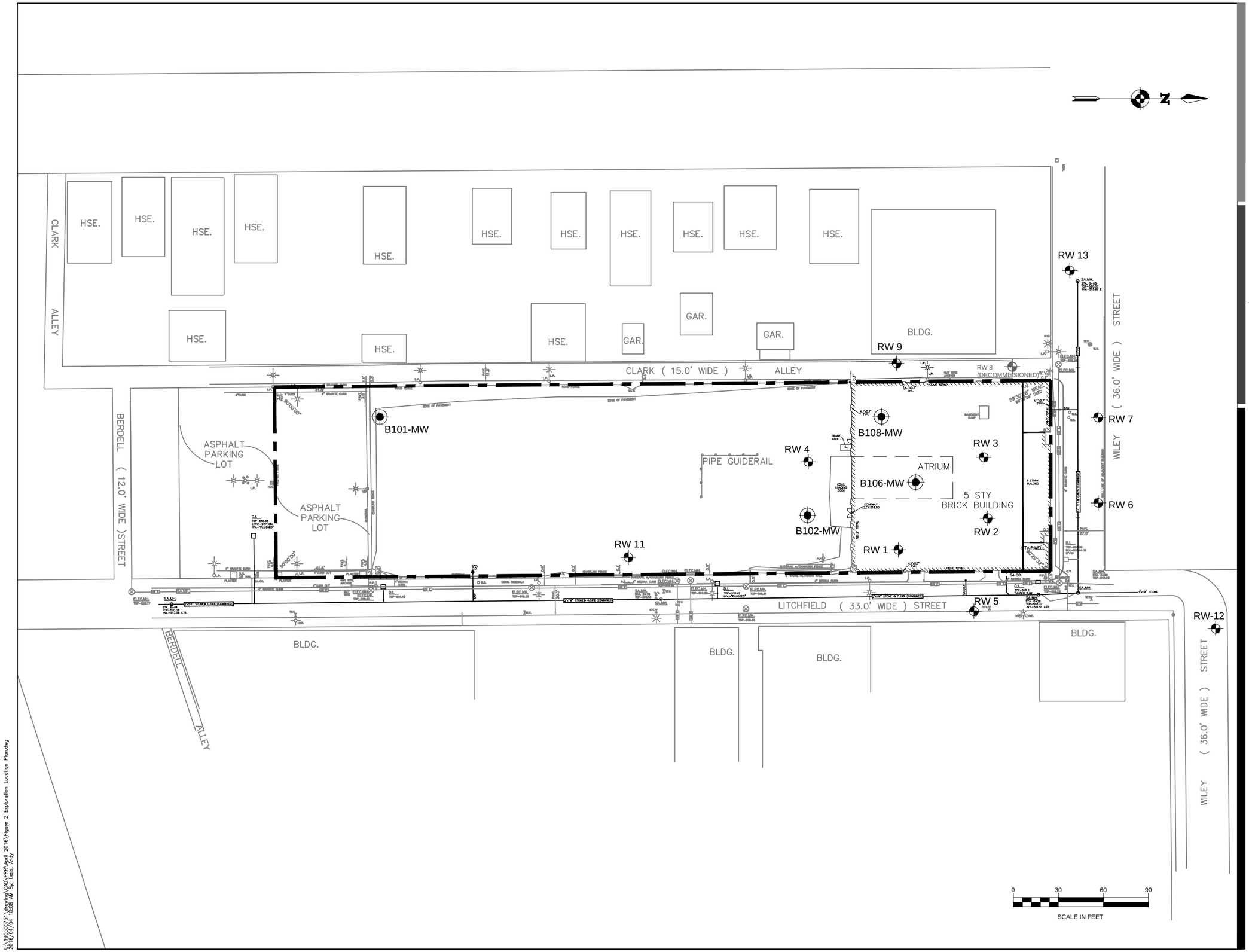
33 LITCHFIELD STREET, ROCHESTER , NY 14608

Figure No.

1

Title

PERIODIC REVIEW REPORT
SITE LOCATION MAP



Stantec
Stantec
61 COMMERCIAL STREET
ROCHESTER, NY
14641
Tel. 585-475-1440
Fax. 585-424-5951
www.stantec.com

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Consultants

Legend

33 LITCHFIELD STREET BUILDING LIMITS

RW 3 LOCATIONS OF EXISTING GROUNDWATER MONITORING WELL

B101-MW MONITORING WELL LOCATION (APPROX)

PROPERTY LINE

SANITARY SEWER (SA MH=MANHOLE)

Notes

1. PLAN ADAPTED FROM BASE PLAN BY PARRONE ENGINEERING.

2. GROUND SURFACE ELEVATION CONTOURS OBTAINED FROM DRAWING ENTITLED "BORING LOCATION PLAN" BY FOUNDATION DESIGN, P.C., DATED JANUARY 26, 2011.

Revision	By	Appd.	YY.MM.DD
ERD & GROUNDWATER WORK PLAN	AG	MPS	14.01

Issued	By	Appd.	YY.MM.DD
File Name:	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Permit-Seal

Client/Project
THE CARRIAGE FACTORY

BROWNFIELD CLEANUP PROGRAM
FORMER CARRIAGE FACTORY
33 LITCHFIELD STREET, ROCHESTER , NY

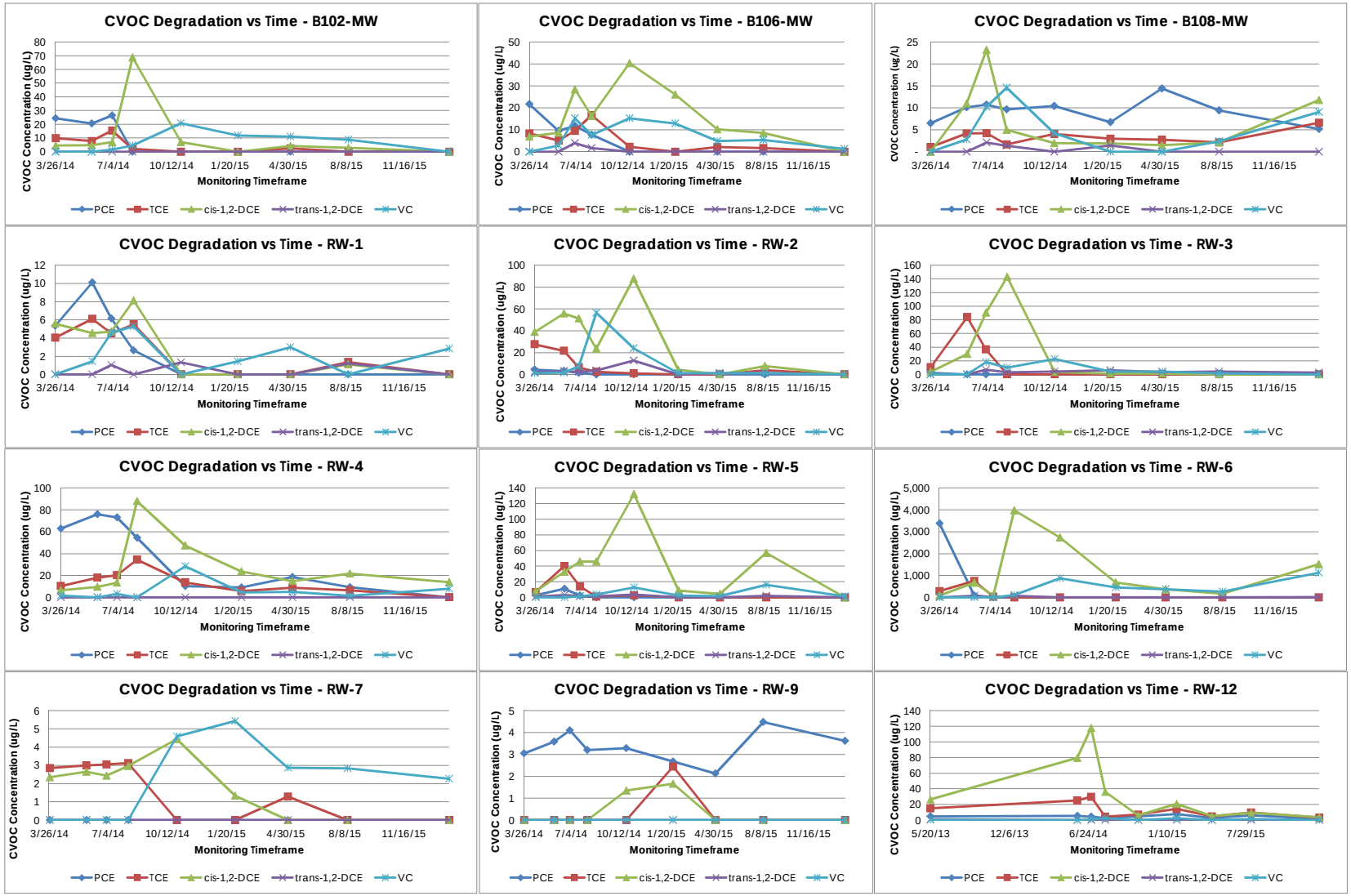
Title
PERIODIC REVIEW REPORT
GROUNDWATER MONITORING WELLS

Project No.	Scale	
190500751	AS SHOWN	
Drawing No.	Sheet	Revision
FIGURE 2	of	0

I:\1905\00751\Drawing\CAD\PRR\April 2016\Figure 2 Exploration Location Plan.dwg
2016/04/04 10:08 AM By: Lewis, Andy

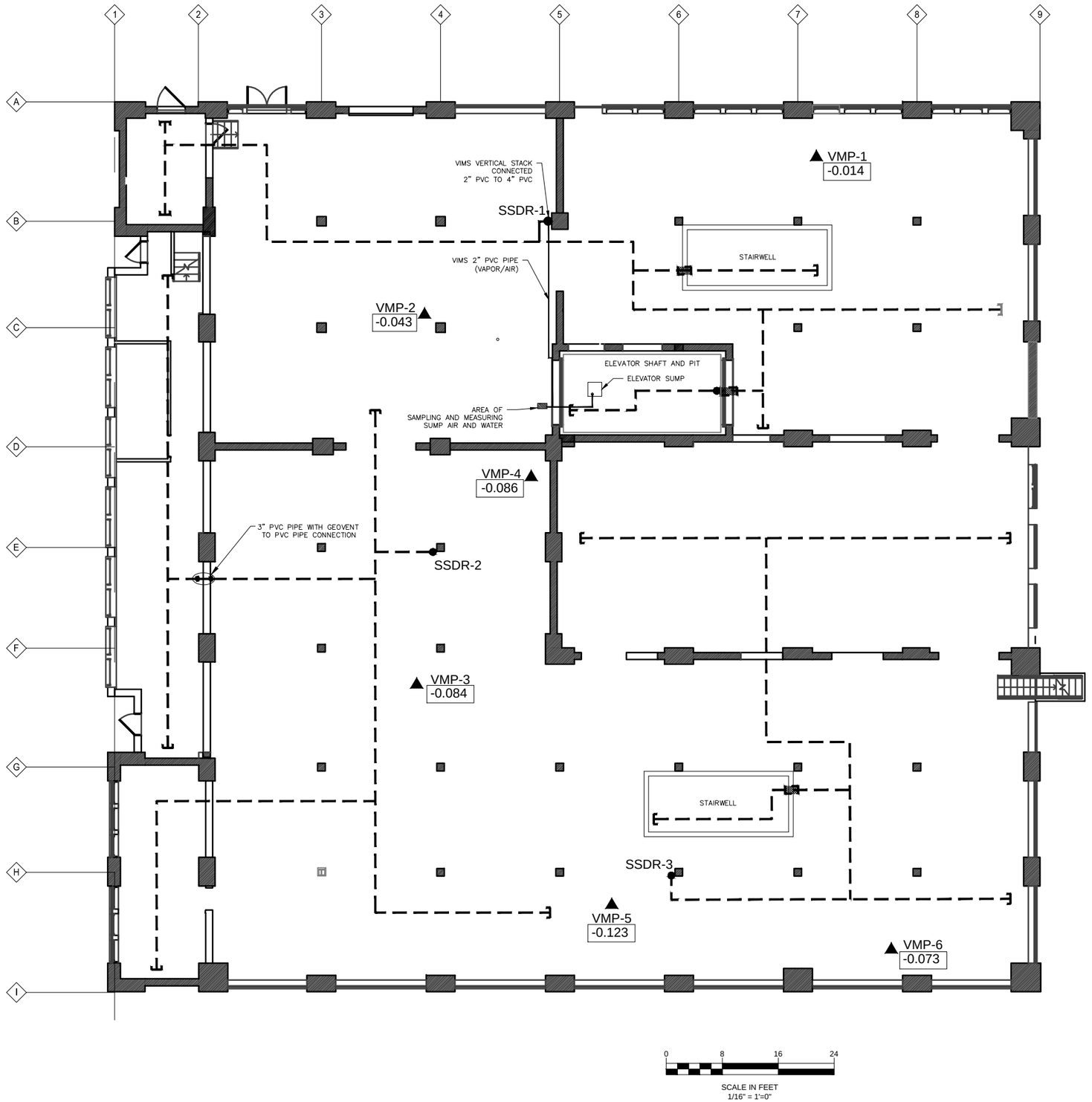
ORIGINAL SHEET – ANSI D

Figure 3
Summary of CVOC Degradation Over Time - All Wells
Former Carriage Factory
33 Litchfield Street, Rochester, NY



Stantec

U:\190500751\report\PRR\April 2016\Figures\[Former Carriage Factory ERD Application - Groundwater Monitoring Data February 2016.xlsx]Monitoring Data



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Legend

- VACUUM MONITORING POINTS (VM)
- RISER PIPE (SSDR-1)
- GEOVENT WITH CAP
- SOLID PVC PIPE
- 3" PVC PIPE WITH GEOVENT TO PVC PIPE CONNECTION
- METAL SLEEVES
- -0.123 SUB-SLAB VACUUM READING ON 2/1/2016. UNITS : INCHES OF WATER COLUMN

Notes

1.) VIMS (LIQUID BOOT MEMBRANE SECTION) APPLICATION UNDER ALL CONCRETE SLAB HORIZONTAL APPLICATION

Revision	By	Appd.	YY.MM.DD

Issued	By	Appd.	YY.MM.DD
AS-BUILT DRAWINGS	BH/AL	PN	14.12.05

File Name:	Dwn.	Chkd.	Dsgn.	YY.MM.DD

Permit-Seal

Client/Project
CARRIAGE FACTORY
PERIODIC REVIEW REPORT

BROWNFIELD CLEANUP PROGRAM
FORMER CARRIAGE FACTORY
33 LITCHFIELD STREET, ROCHESTER , NY

Title
ANNUAL SUB-SLAB VACUUM MONITORING OF THE SSDS

Project No.	Scale	
190500751	AS SHOWN	
Drawing No.	Sheet	Revision
FIGURE 4	of	0

J:\190500751\Drawing\CAD\PRR\April 2016\Figure 4 Sub-Slab Depressurization System Layout.dwg
20/06/2016 10:44 AM By: Kaes, Andy

ORIGINAL SHEET – ANSI D

Appendix A

IC/EC Certification Forms

Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. C828184

Site Name Carriage Factory

Site Address: 33 Litchfield Street Zip Code: 14608
City/Town: Rochester
County: Monroe
Site Acreage: 1.5

Reporting Period: December 23, 2014 to March 16, 2016

	YES	NO
1. Is the information above correct?	☒	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☒	☐
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	☒

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	☒	☐
7. Are all ICs/ECs in place and functioning as designed?	☒	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

_____ _____
Signature of Owner, Remedial Party or Designated Representative Date

Box 2A

	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	☒

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	☒	☐

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C828184 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
120.36-2-20	Carriage Factory Special Needs Apts, LP	Ground Water Use Restriction Landuse Restriction Site Management Plan IC/EC Plan Monitoring Plan O&M Plan

A Site Management Plan which includes a soil excavation plan and IC/EC plan.

An environmental easement that requires compliance with SMP; provides for periodic certification; limits site use to restricted residential, commercial or industrial uses; and restricts the use of groundwater as a potable source.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
120.36-2-20	Groundwater Treatment System Vapor Mitigation Cover System

Cover System: The site-wide cover system consists either of the on-site buildings, pavement, sidewalks or two feet of clean soil.

Sub-slab Depressurization system: Continued operation of the SSDS in the main occupied building is required.

Groundwater Remediation System: Continued monitoring and operation of the groundwater treatment system.

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
☒	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
☒	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

_____ _____

Signature of Owner, Remedial Party or Designated Representative Date

IC CERTIFICATIONS
SITE NO. C828184

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I James M. Whalen (print name) at 1931 Buffalo Road, Rochester, NY (print business address),

am certifying as Owner (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

4/14/16
Date

IC/EC CERTIFICATIONS

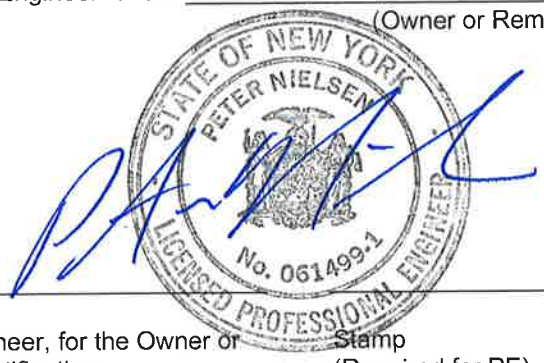
Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Peter Nielsen (print name) at Stantec, 61 Commercial St, Rochester, NY 14614 (print business address),

am certifying as a Professional Engineer for the Remedial Party (Owner or Remedial Party)



Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

4/12/16

Date

Attachments

Federal and Local Permits

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 2
290 BROADWAY
NEW YORK, NY 10007-1866

OCT 30 2015

Jim Whalen
Carriage Factory Special Needs Apts. L.P.
1931 Buffalo Road
Rochester, NY 14624

Re: Underground Injection Control (UIC) Program Regulation
former Carriage Factory (**Reference UICID: 14NY05599024**)
33 Litchfield Street
Rochester, NY 14608
Monroe County
Authorization to Inject

Dear Mr. Whalen:

This letter serves to inform you that the U.S. Environmental Protection Agency is in receipt of inventory information addressing wells authorized by rule located at the above-referenced facility in accordance with 40 Code of Federal Regulations (CFR) §144.26. The continued operation of Underground Injection Control wells (three separate runs of horizontal groundwater treatment piping each divided into three separate sections, making nine screened intervals, installed beneath the building and two wells that were formerly used as monitoring wells) to introduce a second round of electron donor material (sodium lactate/water solution) to the subsurface to remediate chlorinated volatile organic compounds at NYSDEC Brownfield Site No. C828184 is authorized by rule, pursuant to 40 CFR §144.24.

Should any conditions change in the operation of any of the wells listed above (such as injectate composition, closure of the well, injection of cooling water greater than 150 degrees Fahrenheit, construction of additional wells, etc.) you are required to notify this office within five (5) days. Any accidental spills into a well should be reported within twenty-four (24) hours after the event. Change in operation information should be addressed to:

Nicole Foley Kraft, Chief
Groundwater Compliance Section
United States Environmental Protection Agency
290 Broadway, 20th Floor
New York, NY 10007-1866
Re: 14NY05599024
Attn: Robert Ferri

Should you own or operate **other** facilities using underground injection wells, please use the enclosed inventory form (EPA Form 7520-16) and instructions, copy for multiple facilities, and submit them to the address listed above. These documents can also be found on the internet at:

http://www.epa.gov/safewater/uic/pdfs/7520-16.pdf
http://www.epa.gov/region02/water/compliance/supplemental_instructions_inventory.pdf
http://www.epa.gov/region02/water/compliance/wellclasstypetable_inventoryc_form

Failure to respond to this letter truthfully and accurately within the time provided may subject you to sanctions authorized by federal law. Please also note that all information submitted by you may be used in an administrative, civil judicial, or criminal action. In addition, making a knowing submission of materially false information to the U.S. Government may be a criminal offense.

Should you have any questions, please contact Robert Ferri of my staff at (212) 637-4227 or ferri.robert@epa.gov.

Sincerely,

Nicole Foley Kraft, Chief
Groundwater Compliance Section

Enclosure

cc: Dixon Rollins,
NYSDEC, Region 8
6247 E. Avon-Lima Road
Avon, NY 14414

John Frazer
Monroe County Dept. of Health
111 Westfall Road, Room 976
Rochester, NY 14620

Mike Storonsky
Stantec Consulting Services, Inc.
61 Commercial Street, Suite 100
Rochester, NY 14614

COUNTY OF MONROE
SEWER USE PERMIT ENCLOSURE

Carriage Factory Special Needs Apartments
33 Litchfield Street
Rochester, NY

PERMIT NUMBER: 996
DISTRICT NUMBER: 8575

TYPE OF BUSINESS: Living Facilities

SAMPLE POINT: IWC- 996.1 – Elevator Sump

REQUIRED MONITORING & EFFLUENT LIMITS

SAMPLE POINT: IWC- 996.1 – Elevator Sump

SELF MONITORING FREQUENCY: 1. QUARTERLY

SAMPLING PROTOCOL: Sampling and analysis shall be performed in accordance with the techniques prescribed in 40 CFR Part 136 and amendments thereto. In the absence of 40 CFR Part 136 testing methodology, a New York State Department of Health, approved method is acceptable. All analysis must be performed using wastewater testing methods. A grab sample, collected from the above noted sample point, must be analyzed for the following:

Metals	**Limit mg/l**
Cadmium(Cd)	1.0
Copper(Cu)	3.0
Lead(Pb)	1.0
Zinc(Zn)	5.0

*Halogenated Volatile Organic Compounds (VOC's)

***The summation of the VOC's that are detected at or greater than 10 µg/L cannot exceed 2.13 mg/L.**

SPECIAL CONDITIONS:

1. Quarterly flow summaries shall be submitted to keep track of the volume of water being discharged. It is imperative these summaries are submitted in a timely manner.

7-16-2014

TERMS AND CONDITIONS

GENERAL REQUIREMENTS:

A. The permittee agrees to accept and abide by all provisions of the Sewer Use Law of Monroe County(MCSUL) and of all pertinent rules or regulations now in force or shall be adopted in the future.

B.1 In addition to the parameters/limits outlined, the total facility discharge shall meet all other concentration values as described in Article II, Section 10e of the Monroe County Pure Waters Districts, Rules and Regulations-Sewer Use Law of the County of Monroe.

B.2 Included in Article II, Section 10e, is the definition of "Normal Sewage". "Normal Sewage" may be discharged to the sewer system in excess of the concentrations outlined in the Joint Rules and Regulations, however, the facility will be subject to the imposition of a sewer surcharge and possible self monitoring requirements as a result. Surcharging procedures are outlined in Article X of the MCSUL.

B.3 Regulatory sampling for analytes not specified under "required monitoring" shall be conducted by the Industrial Waste Section at a minimum frequency of once every three (3) years.

C. This permit is not assignable or transferable. The permit is issued to a specific user and location.

D. Per Article VIII, Section 8.11 of the MCSUL, a violation by the permittee of the permit conditions may be cause for revocation or suspension of the permit after a Hearing by the Administrative Board, or if the violation is found to be within the emergency powers of the Director under Sections 4.5 or 5.5. The revocation is immediate upon receipt of notice to the Industrial User, however a Hearing shall be held as soon as possible.

E. As provided under Article VIII, Section 8.1, the Director and his duly authorized representatives shall gain entry on to private lands by permission or duly issued warrant for the purpose of inspection, observation, measurement sampling and testing in accordance with the provisions of this law and its implementing Rules and Regulations. The Director or his representatives shall not have authority to inquire into any processes used in any industrial operation beyond that information having a direct bearing on the kind and source of discharge to the sewers or the on-site facilities for waste treatment. While performing the necessary work on private lands, referred to above, the Director or his duly authorized representative shall observe all safety rules applicable to the premises as established by the owner and/or occupant.

SPECIAL CONDITION:

A. All required monitoring shall be analyzed by a New York State Department of Health certified laboratory. All sampling and analysis must be performed in accordance with Title 40 Code of Federal Regulations Part 136.

B. The pH range for this permit is 5.0 – 12.0 su. This range is specifically permitted by the Director as allowed under Article IV, Section 4.2 of the Monroe County Sewer Use Law. PH must be analyzed immediately.

C. The summation of all Total Toxic Organics(TTO) Compounds as defined in the Code of Federal Regulations (40 CFR part 433.11(e)) with detection levels above 10 ug/l shall not exceed 2.13 mg/l as imposed by the Director under Article IV, Section 4.3 of the Monroe County Sewer Use Law unless Federal limits are more stringent under which the Federal limits will apply.

D. Petroleum Oil and Grease shall not exceed 100 mg/l as imposed by the Director under Article IV, Section 4.3 of the Monroe County Sewer Use Law.

E. Discharges containing Phenolic compounds shall not exceed 2.13 mg/l as imposed by the Director under Article IV, Section 4.3 of the Monroe County Sewer Use Law unless otherwise specified in the permit. These limits are applicable unless Federal limits are more stringent under which Federal limits will apply.

SURCHARGE CONCENTRATIONS:

Concentration and/or characteristics of normal sewage:
"Normal Sewage" shall mean sewage, industrial wastes or other wastes, which when analyzed, show

concentration values with the following characteristics based on daily maximum limits:

a. B. O. D.	300 mg/l
b. Total Suspended Solids	300 mg/l
c. Total Phosphorus, as P	10 mg/l

Annual average concentrations above normal sewage are subject to surcharge as defined in Article X of the sewer use law.

DISCHARGE LIMITATIONS (SEWER USE LIMITS)

Permissible concentrations of toxic substances and/or substances the Department wishes to control:
The concentration in sewage of any of the following toxic substances and/or substances the Department wishes to control shall not exceed the concentration limits specified when discharged into the County Sewer System; metal pollutants are expressed as <u>total</u> metals in mg/l (ppm): the following pollutant limits are based on daily maximum values:

a. Antimony (Sb)	1.0 mg/l
b. Arsenic (As)	0.5 mg/l
c. Barium (Ba)	2.0 mg/l
d. Beryllium (Be)	5.0 mg/l
e. Cadmium (Cd)	1.0 mg/l
f. Chromium (Cr)	3.0 mg/l
g. Copper (Cu)	3.0 mg/l
h. Cyanide (CN)	1.0 mg/l
i. Iron (Fe)	5.0 mg/l
j. Lead (Pb)	1.0 mg/l
k. Manganese (Mn)	5.0 mg/l
l. Mercury (Hg)	0.05 mg/l
m. Nickel (Ni)	3.0 mg/l
n. Selenium (Se)	2.0 mg/l
o. Silver (Ag)	2.0 mg/l
p. Thallium (Tl)	1.0 mg/l
q. Zinc (Zn)	5.0 mg/l

REPORTING REQUIREMENTS:

A. Per the requirements of 40 CFR, Part 403.5, Significant Industrial Users must submit Periodic Reports on Continued Compliance to the Control Authority on a biannual (2/yr) basis. Deadline dates of submission for these reports will be August 15 and February 15, respectively.

B. Discharge monitoring reports shall be submitted to the Control Authority upon receipt from the permittee's testing laboratory.

C. Any Industrial User subject to the reporting requirements of the General Pretreatment Regulations shall maintain records of all information resulting from any monitoring activities required by 403.12 for a minimum of three (3) years. These records shall be available for inspection and copying by the Control Authority. This period of retention shall be extended during the course of any unresolved litigation regarding the discharge of pollutants by the Industrial User or the operation of the POTW Pretreatment Program or when requested by the Director or the Regional Administrator.

NOTIFICATION REQUIREMENTS:

A. Pursuant to Article VIII, Section 8.4K, the permittee shall notify the Department within 24 hours of becoming aware that discharge monitoring is in violation of any permit limit. This notification shall be

directed to the Industrial Waste Section at 585-753-7600 Option 4. The User shall also repeat sampling and analysis for the analyte in non-compliance and submit the results of the repeat analysis to Monroe County within 30 days after becoming aware of the violation.

B. Notify the Director in writing when considering a revision to the plant sewer system or any change in industrial waste discharges to the public sewers. The later encompasses either an increase or decrease in average daily volume or strength of waste or new wastes.

C. Notify the Director immediately of any accident, negligence, breakdown of pretreatment equipment or other occurrence that occasions discharge to the public sewer of any waste or process waters not covered by this permit.

SLUG CONTROL

An Industrial User shall be required to report any/all slug discharges to the Monroe County sewer system by calling 585-753-7600 option 4. For the purpose of this permit enclosure, a slug discharge shall be identified as any discharge of a non-routine, episodic nature, including but not limited to an accidental spill or a non-customary batch discharge. Following a review process, the Control Authority (Monroe County) shall determine the applicability of a facility slug control plan. If the Control Authority decides that a slug control plan is needed, the plan shall contain, at a minimum, the following elements:

1. Description of discharge practices, including non-routine batch discharges.
2. Description of stored chemicals.
3. Procedures for immediately notifying the Control Authority of slug discharges, including any discharge that would violate a prohibition under 40 CFR 403.5 (b), with procedures for follow up written notification within five (5) days.
4. If necessary, procedures to prevent adverse impact from accidental spills, including, but not limited to, inspection and maintenance of storage areas, handling and transfer of materials, loading and unloading operations, control of plant site run-off, worker training, building of containment structures or equipment, measures for containing toxic organic pollutants (including solvents) and/or measures and equipment for emergency purposes.

SNC DEFINITION:

In accordance with 40 CFR 403.8 (f) (vii), an Industrial User is in significant noncompliance (SNC) if its violations meet one or more of the following criteria:

A. Chronic violations of wastewater discharge limits – defined as those which 66% or more of all the measurements taken during a six-month period exceed (by any magnitude) the daily maximum limit or the average limit for the same pollutant parameter. This criteria does NOT apply to the following Monroe County surchargeable parameters: Biochemical Oxygen Demand, Total Suspended Solids, Chlorine Demand and Total Phosphorus (ref. Article X – Monroe County Sewer Use Law).

B. Technical review criteria (TRC) violations – defined as those in which 33% or more of all the measurements for each pollutant parameter taken during a six month period equal or exceed the product of the daily maximum limit or the average limit times the applicable TRC. This criteria does NOT apply to the following Monroe County surchargeable parameters: Biochemical Oxygen Demand, Total Suspended Solids, Chlorine Demand and Total Phosphorus (ref. Article X – Monroe County Sewer Use Law).

C. Any other violation of a pretreatment effluent limit (daily maximum or longer-term average) that the Control Authority determines has caused, alone or in combination with other discharges, interference or pass-through (including endangering the health or POTW personnel or the general public).

D. Any discharge of a pollutant that has caused imminent endangerment to human health, welfare or the environment or has resulted in the POTW's exercise of its emergency authority under paragraph (t)(1)(vi)(8) of 40 CFR part 403 to prevent such a discharge.

E. Failure to meet, within 90 days after the scheduled date, a compliance schedule milestone contained in a local control mechanism or enforcement order, for starting construction, completing construction or attaining final compliance.

F. Failure to provide, within 30 days after the due date, required reports such as BMRs, 90 day compliance reports, period reports on continued compliance.

G. Failure to accurately report noncompliance.

H. Any other violation or group of violations that the Control Authority determines will adversely affect the operation and implementation of the local Pretreatment Program.

PENALTIES

Should the facility be considered in Significant Non-Compliance (SNC), based on the above mentioned criteria, the minimum enforcement response by Monroe County will be the publication of the company name in the Gannett Rochester newspaper. The company will be published as an Industrial User in Significant Non-Compliance (SNC). Fines and criminal penalties may follow this publication (ref. Article XII – Monroe County Sewer Use Law).

Nothing in this permit shall be construed to relieve the permittees from civil/criminal penalties for noncompliance under Article XII, Section 12.1(D) of the Sewer Use Law of the County of Monroe. Article XII, Section 12.1(D) provides that any person who violates a permit condition is subject to a civil penalty not to exceed $10,000 for any one case and an additional penalty not to exceed $10,000 for each day of continued violation.

Appendix B

Field Monitoring Logs

NYSDEC Brownfield Site # C828184

Monthly Monitoring - Sub-Slab Depressurization System

Date	Operator	Vacuum (inches Water Column)				Pilot Light ON (Y or N)*				Additional Notes (Abnormal conditions such as hot fan housings, vibrations, unusual noises, etc)
		FAN-1	FAN-2	FAN-3		FAN-1	FAN-2	FAN-3		
1-6-15	Marc	2.4	2.3	2.1		✓	✓	✓		
1-21-15	Marc	2.4	2.4	2.1		✓	✓	✓		
2-15-15	Marc	2.4	2.3	2.0		✓	✓	✓		
3-7-15	Marc	2.4	2.3	2.0		✓	✓	✓		
6-1	MARC	2.2	2.2	2.0		✓	✓	✓		
7-24	MAR	2.2	2.2	2.0		✓	✓	✓		
10-14	MA	2.2	2.2	2.0		✓	✓	✓		
10-21	MA	2.2	2.2	2.0		✓	✓	✓		



Monthly monitoring – sub –slab depressurization system

date	name	Vacuum inches water column				Pilot light on			
		Fan-1	Fan-2	Fan-3		Fan-1	Fan-2	Fan-3	
1/13/16	MA	2.2	2.2	2.2		✓	✓	✓	
2/1/16	SANTOC	2.3	2.3	2.0		✓	✓	✓	
3/17/16	MARIA	2.3	2.3	2.1		✓	✓	✓	

Appendix C

Laboratory Analytical Reports

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report Cover Page

Stantec

For Lab Project # 150382
Issued March 6, 2015
This report contains a total of 270 pages

The reported results relate only to the samples as they have been received by the laboratory.

Each page of this document is part of a multipage report. This document may not be reproduced except in its entirety, without the prior consent of Paradigm Environmental Services, Inc.

All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of frequently used data flags and their meaning:

"<" = analyzed for but not detected at or above the reporting limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = Please refer to included Case Narrative for explanation.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L"= Laboratory Control Sample recovery outside accepted QC limits.
"P"= Concentration differs by more than 40% between primary and secondary analytical columns.
"NC"=Not calculableApplicable to RPD if sample or duplicate result is non-detect or estimated(see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"*"=Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.
"(1)"= Indicates data from primary column used for QC calculation.

LAB PROJECT NARRATIVE: 150382
PROJECT NAME: Carriage Factory
SDG: 0382-01
CLIENT: Stantec

Thirteen water samples and one Trip Blank were collected by Stantec personnel on 02/03-04/2015 and received at the Paradigm laboratory on 02/04/2015. Container and holding times were acceptable at time of receipt; the samples were received at 4° Centigrade and were on ice. The samples were submitted with the Chains-of-Custody requesting the TCL list for VOCs, TOC, and a site specific Metal's list. All analyses were performed using EPA SW-846 methods and holding times.

The items noted in this case narrative address compliance with the referenced methods, NYSDOH ELAP rules, and any project specific data quality requirements. These may be different from the usability criteria referenced in any "Functional Guidelines" or other data review standards used by data validators.

GENERAL NOTES

ALL ANALYSES

The initial and continuing calibration reports are only evaluated for compounds that are on the sample summary report.

Regarding results on QC summary forms versus included raw data, due to calculations made at the instrument where many significant figures may be used, there may be slight discrepancies between the summary report result and that recorded on the raw data. This does not affect data usability.

VOLATILES

Regarding initial calibrations, it should be noted that the Quantitation Report concentrations supplied for the initial calibration reflect the calibration prior to updating. The response factors and areas are correct.

Regarding Quantitation Reports, it should be noted that the "#" symbol that appears on some of the Quantitation Reports is a software artifact and should be disregarded.

VOLATILES

Holding times were met for all samples.

The surrogate recoveries for the samples and the associated QC were within acceptable limits.

Site specific QC was requested and analyzed on LI-B108-MW-PI9. The Matrix Spike and Matrix Spike Duplicate Recoveries and RPDs were within acceptance limits, except Chloroethane was out high in the MS and MSD. It has been flagged with an "*""on the QC Summary form, but, as the sample was Non-Detect for this analyte, did not require any flagging on the sample report. The Laboratory Control Sample recovered within acceptance limits.

The method blank was free from contamination within the reportable ranges.

The instrument tunes passed all criteria.

The internal standards areas and retention times were within acceptance ranges.

All data for the initial calibration was within acceptance limits. Compounds flagged with an "*" on the summary table have been calibrated using a non-average Response Factor calibration curve. The supporting curves are located after the initial calibration table. (see method 8000B, section 7.5.1.2.1).

All continuing calibration data for the requested analyte list was within acceptance limits.

METALS

ICP-AES interelement and background corrections were applied. Raw data was not generated before application of background corrections.

Holding times were met for the sample.

Site specific QC was requested and analyzed on sample LI-B108-MW-PI9. The Matrix Spikes recovered within acceptance limits. The Sample Duplicate Percent Differences were within QC limits. Any metals with a Relative % Difference reported as "NC" on the QC summary form indicates that the metal results were Non-Detect or estimated and could not be calculated. The Laboratory Control Samples recovered within acceptable limits. All LCS % differences were within acceptance limits.

The method blank was free from contamination within the reportable ranges.

All data for the initial calibrations was within acceptance limits.

All continuing calibrations data was within acceptance limits.

SUB-CONTRACTED ANALYSES

Total Organic Carbon by method SM 5310C was subcontracted to Adirondack Environmental Services, Inc. of Albany, New York. Their report is provided in its entirety as a separate entity after the Paradigm Environmental Services, Inc. report. A separate case narrative addressing the above parameter is included with their report. Results were comparable but reported in different units between the Summary and Final reports.

(signed) _____ (date) 3/9/2015

Bruce Hoogesteger- Technical Director

SDG# : 0382-01
LAB PROJECT #: 150382
CLIENT: Stantec
PROJECT NAME: Carriage Factory

BATCH COMPLETE: 2/19/2015
DATE: 2/19/2015
DATE DUE: 3/4/2015
PROTOCOL: SW846

LAB.SAMPLE#	FIELD ID	MATRIX	REQUESTED ANALYSIS	DATE SAMPLED	DATE REC'D
150382-01	LI-RW-1-PI9	Water	VOAs, Mets, TOC	2/3/2015	2/4/2015
150382-02	LI-RW-2-PI9	Water	VOAs, Mets, TOC	2/3/2015	2/4/2015
150382-03	LI-RW-3-PI9	Water	VOAs, Mets, TOC	2/3/2015	2/4/2015
150382-04	LI-RW-5-PI9	Water	VOAs, Mets, TOC	2/3/2015	2/4/2015
150382-05	LI-B102-MW-PI9	Water	VOAs, Mets, TOC	2/3/2015	2/4/2015
150382-06	LI-B106-MW-PI9	Water	VOAs, Mets, TOC	2/3/2015	2/4/2015
150382-07 QC	LI-B108-MW-PI9	Water	VOAs, Mets, TOC	2/3/2015	2/4/2015
150382-08	LI-RW-12-PI9	Water	VOAs, Mets, TOC	2/4/2015	2/4/2015
150382-09	LI-RW-6-PI9	Water	VOAs, Mets, TOC	2/4/2015	2/4/2015
150382-10	LI-RW-7-PI9	Water	VOAs, Mets, TOC	2/4/2015	2/4/2015
150382-11	LI-RW-4-PI9	Water	VOAs, Mets, TOC	2/4/2015	2/4/2015
150382-12	LI-RW-9-PI9	Water	VOAs, Mets, TOC	2/4/2015	2/4/2015
150382-13	LI-DUP-PI9	Water	VOAs, Mets, TOC	2/3/2015	2/4/2015
150382-14	LI-TRIP BLANK-P19 T-586	Water	VOAs	2/3/2015	2/4/2015

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179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

1 of 2

CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:	INVOICE TO:	LAB PROJECT ID
CLIENT: Stantec	CLIENT: Stantec	150382
ADDRESS: 61 Commercial St.	ADDRESS:	Quotation #:
CITY: Rochester STATE: NY ZIP: 14614	CITY: STATE: ZIP:	
PHONE: 413-5266	PHONE: 978-5248	Email:
ATTN: Mike Staransky	ATTN: Ben Haravitch	Mike.Staransky@stantec.com

PROJECT REFERENCE

Carriage Factory

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

	DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	VOCs (8260) TCL	TOC (415.1)	Na+ (6010)	Fe2+, Mn2+ As (6010)	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	2/3/15	08:50		X	LI-RW-1-PI9	WG	5	X	X	X			01
2	2/3/15	09:45			LI-RW-2-PI9		5	X	X	X	X		02
3	2/3/15	10:40			LI-RW-3-PI9		5	X	X	X			03
4	2/3/15	16:20			LI-RW-5-PI9		5	X	X	X	X		04
5	2/3/15	14:45			LI-B102-MW-PI9		5	X	X	X	X		05
6	2/3/15	13:05			LI-B106-MW-PI9		5	X	X	X			06
7	2/3/15	11:35			LI-B108-MW-PI9 (MS/MSD)		15	X	X	X	X	MS/MSD	07
8	2/4/15	09:10			LI-RW-12-PI9		5	X	X	X			08
9	2/4/15	10:30			LI-RW-6-PI9		5	X	X	X	X		09
10	2/4/15	11:55			LI-RW-7-PI9		5	X	X	X		4°C iced 2/4 16:22 hrs rec'd by lab. 10 day turnaround TAT requested 2/4 client called	10

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☐	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☒
Rush 2 day	☐	Category B	☒		
Rush 1 day	☐				
Other	☒	Other	☐	Other EDD	☒
please indicate:	10 day	please indicate:		please indicate:	Stantec

Sampled By: Laura Best	Date/Time: 2/4/15	1530	Total Cost:
Relinquished By: Laura Best	Date/Time: 2/4/15	1550	
Received By:	Date/Time: 2/4/15	1550	P.I.F.
Received @ Lab By:	Date/Time: 2/4/15	16:46	

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT:	Stantec	CLIENT:	Stantec	150362
ADDRESS:	61 Commercial St	ADDRESS:		Quotation #:
CITY:	Rochester STATE: NY ZIP: 14614	CITY:	STATE: ZIP:	Email:
PHONE:	413-5266	PHONE:	978-5248	Mike.Staranskyj@stantec.com
ATTN:	Mike Staranskyj	ATTN:	Ben Haravitch	

PROJECT REFERENCE

Carriage Factory

Matrix Codes:

AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

6 of 2/5/15 per Mike S.

REQUESTED ANALYSIS

	DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	VOCs (8260) TCL	TOC (415.1)	Na+ (6010)	Fe, Mn, As (6010)	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	2/4/15	1505		X	LI - RW-4 - PI9	WG	5	X	X	X			1 1
2	2/4/15	1310		↓	LI - RW-9 - PI9	↓	5	X	X	X	X		1 2
3	2/3/15	14:50		↓	LI-DUP-PI9	↓	5	X	X	X	X		1 3
4				↓	LI-TRIPBLANK-PI9	WA	1	X					1 4
5					T-556 rec'd 2/4/15								
6													
7													
8													
9													
10												4°C iced 2/4 1622hrs rec'd by Douglas. Custody seals N/A client delivered	

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☐	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☒
Rush 2 day	☐	Category B	☒		
Rush 1 day	☐				
Other	☒	Other	☐	Other EDD	☒
please indicate:	10 day	please indicate:		please indicate:	Stantec

Sampled By	Laura Best	2/4/15	1550
Relinquished By	Laura Best	2/4/15	1550
Received By		2/4/15	1550
Received @ Lab By	DP	2/4/15	16:46

Total Cost:

P.I.F.

3 of 3

PARADIGM

Chain of Custody Supplement

Client: Stantec Completed by: Glenn Pezzulo

Lab Project ID: 150382 Date: 2/4/15

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	X		X metals
Comments			
Preservation	X		
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		X metals
Comments	4°C iced		
Sufficient Sample Quantity	X		
Comments			

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 Office: (585) 647-2530 Fax: (585) 647-3311

Lab Project #: 150382

Client : Stantec

# of Samples: 13

Internal Chain of Custody

Sign-Out Log for Refrigerator: B

Sample ID	Container Code	Initials	Purpose	Date/Time Out	Date/Time In
289-01	P3	JC	JMetl digest	1505 09-09-15	1630 A-9-15
↓	↓	↓	↓	↓	↓
-06	↓	↓	↓	↓	↓
-07	P3-1	↓	↓	↓	↓
-08	P3	↓	↓	↓	↓
↓	↓	↓	↓	↓	↓
-13	↓	↓	↓	↓	↓

PARADIGM
ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 Office: (585) 647-2530 Fax: (585) 647-3311

Lab Project #: 150382

Client : Stantec

# of Samples: 14

Internal Chain of Custody

Sign-Out Log for Refrigerator: E

Sample ID	Container Code	Initials	Purpose	Date/Time Out	Date/Time In
01	V1	BB	VOA analysis	2/5/15 12:10	2/5/15 13:00
02	↓	↓	↓	↓	↓
03	↓	↓	↓	↓	↓
04	↓	↓	↓	↓	↓
05	↓	↓	↓	↓	↓
06	↓	↓	↓	↓	↓
07	↓	↓	↓	↓	↓
07	V3	↓	↓	↓	↓
07	V5	↓	↓	↓	↓
08	V1	↓	↓	↓	↓
09	↓	↓	↓	↓	↓
10	↓	↓	↓	↓	↓
11	↓	↓	↓	↓	↓
12	↓	↓	↓	↓	↓
13	↓	↓	↓	↓	↓
14	V	↓	↓	↓	↓
09	V2	BB	VOA analysis	2/5/15 15:32	2/5/15 15:40

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term, or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB will use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

VOLATILE ORGANICS

QC SUMMARY

2B

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Paradigm Environmental Services Client Name: Stantec

Lab Project #: 150382 Client Project #: N/A SDG No.: 0382-01

Client Project Name: Carriage Factory

Level: (low/med) low

	SAMPLE NO.		SMC1 (PFB)	SMC2 (DCE)	SMC3 (TOL)	SMC4 (BFB)	TOT OUT
01	Blk 02/05		99.6	98.6	95.3	94.7	0
02	LCS 02/05		103	97.6	99.8	102	0
03	LI-RW-1-PI9	150382-01	100	106	93.6	90.6	0
04	LI-RW-2-PI9	150382-02	96.4	104	93.0	91.4	0
05	LI-RW-3-PI9	150382-03	103	105	93.6	92.6	0
06	LI-RW-5-PI9	150382-04	98.9	105	93.4	89.9	0
07	LI-B102-MW-PI9	150382-05	97.5	104	94.0	93.6	0
08	LI-B106-MW-PI9	150382-06	100	106	94.7	94.2	0
09	LI-B108-MW-PI9	150382-07	101	103	92.4	98.8	0
10	LI-B108-MW-PI9	150382-07MS	102	106	102	105	0
11	LI-B108-MW-PI9	150382-07MSD	103	102	102	102	0
12	LI-RW-12-PI9	150382-08	99.8	105	93.2	91.9	0
13	LI-RW-6-PI9	150382-09	101	105	93.4	87.5	0
14	LI-RW-7-PI9	150382-10	97.1	101	92.4	89.7	0
15	LI-RW-4-PI9	150382-11	100	102	92.4	87.6	0
16	LI-RW-9-PI9	150382-12	96.5	99.9	93.5	94.0	0
17	LI-DUP-PI9	150382-13	98.8	99.7	93.7	91.8	0
18	LI-TRIP BLANK-P19 T-586	150382-14	97.8	100	93.3	92.9	0
19							
20							
21							

	QC LIMITS %
SMC1 (PFB) = Pentafluorobenzene	(92.8-109)
SMC2 (DCE) = 1,2-Dichloroethane-d4	(80.4-116)
SMC3 (TOL) = Toluene-d8	(92.1-107)
SMC4 (BFB) = 4-Bromofluorobenzene	(87.0-109)

* Values outside of current required QC limits

D System Monitoring Compound diluted out

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client: Stantec
Project Reference: Carriage Factory
Lab Project ID: 150382
SDG #: 0382-01
Matrix: Groundwater

Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
1,1,1-Trichloroethane	20.0	ug/L	19.9	99.4	77.1 - 117		2/5/2015
1,1,2,2-Tetrachloroethane	20.0	ug/L	19.6	98.0	81.8 - 120		2/5/2015
1,1,2-Trichloroethane	20.0	ug/L	19.9	99.5	81.3 - 116		2/5/2015
1,1-Dichloroethane	20.0	ug/L	20.6	103	84.4 - 112		2/5/2015
1,1-Dichloroethene	20.0	ug/L	21.2	106	72.8 - 113		2/5/2015
1,2-Dichlorobenzene	20.0	ug/L	20.6	103	81.1 - 117		2/5/2015
1,2-Dichloroethane	20.0	ug/L	19.6	97.9	77.8 - 122		2/5/2015
1,2-Dichloropropane	20.0	ug/L	19.6	98.2	84.9 - 114		2/5/2015
1,3-Dichlorobenzene	20.0	ug/L	19.9	99.4	76.8 - 111		2/5/2015
1,4-Dichlorobenzene	20.0	ug/L	20.0	99.8	76.7 - 110		2/5/2015
Benzene	20.0	ug/L	21.0	105	87.4 - 118		2/5/2015
Bromodichloromethane	20.0	ug/L	18.3	91.5	79.2 - 119		2/5/2015
Bromoform	20.0	ug/L	15.7	78.7	69.3 - 105		2/5/2015
Bromomethane	20.0	ug/L	25.8	129	60.7 - 147		2/5/2015
Carbon Tetrachloride	20.0	ug/L	20.0	100	73.1 - 120		2/5/2015

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Report Prepared Tuesday, February 17, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC

QC Report for Laboratory Control Sample

Client: Stantec
Project Reference: Carriage Factory
Lab Project ID: 150382
SDG #: 0382-01
Matrix: Groundwater

Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
Chlorobenzene	20.0	ug/L	21.1	106	82.2 - 112		2/5/2015
Chloroethane	20.0	ug/L	24.0	120	77.1 - 122		2/5/2015
Chloroform	20.0	ug/L	20.0	99.8	82.8 - 115		2/5/2015
Chloromethane	20.0	ug/L	22.0	110	76 - 132		2/5/2015
cis-1,3-Dichloropropene	20.0	ug/L	21.0	105	91.2 - 121		2/5/2015
Dibromochloromethane	20.0	ug/L	17.4	86.9	76.9 - 119		2/5/2015
Ethylbenzene	20.0	ug/L	20.0	99.8	84.3 - 115		2/5/2015
Methylene chloride	20.0	ug/L	20.5	103	71 - 124		2/5/2015
Tetrachloroethene	20.0	ug/L	20.0	99.8	69.6 - 132		2/5/2015
Toluene	20.0	ug/L	19.7	98.7	86.1 - 114		2/5/2015
trans-1,2-Dichloroethene	20.0	ug/L	18.8	94.0	69.2 - 130		2/5/2015
trans-1,3-Dichloropropene	20.0	ug/L	18.6	92.8	73 - 116		2/5/2015
Trichloroethene	20.0	ug/L	19.9	99.4	85.7 - 115		2/5/2015
Trichlorofluoromethane	20.0	ug/L	21.3	106	71.8 - 124		2/5/2015
Vinyl chloride	20.0	ug/L	23.4	117	78.1 - 129		2/5/2015

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Report Prepared Tuesday, February 17, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC

QC Report for Laboratory Control Sample

Client: Stantec
Project Reference: Carriage Factory
Lab Project ID: 150382
SDG #: 0382-01
Matrix: Groundwater

Volatile Organics

Analyte			Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
	Method Reference(s):	EPA 8260C EPA 5030							
	Data File:	x20328.D							
	QC Number:	1							
	QC Batch ID:	voaw020515							

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Matrix Spike and Matrix Spike Duplicate

SDG #: 0382-01
Lab Project ID: 150382

Client: Stantec
Project Reference: Carriage Factory

Lab Sample ID: 150382-07
Sample Identifier: LI-B108-MW-PI9
Matrix: Groundwater

Date Sampled: 2/3/2015
Date Received: 2/4/2015
Date Analyzed: 2/5/2015

Volatile Organics

Analyte	Sample Result	Result Units	MS Added	MS Result	MS % Recovery	MSD Added	MSD Result	MSD % Recovery	% Rec. Limits	MS Outlier	MSD Outlier	Relative % Diff.	RPD Limit	RPD Outlier
1,1,1-Trichloroethane	< 2.00	ug/L	50.0	51.0	102	50.0	53.7	107	77.1 - 117			5.09	17	
1,1,2,2-Tetrachloroethane	< 2.00	ug/L	50.0	52.8	106	50.0	55.5	111	81.8 - 120			5.00	14.8	
1,1,2-Trichloroethane	< 2.00	ug/L	50.0	52.7	105	50.0	54.2	108	81.3 - 116			2.82	15.9	
1,1-Dichloroethane	< 2.00	ug/L	50.0	50.2	100	50.0	52.5	105	84.4 - 112			4.51	13.5	
1,1-Dichloroethene	< 2.00	ug/L	50.0	51.8	104	50.0	53.8	108	72.8 - 113			3.88	17.2	
1,2-Dichlorobenzene	< 2.00	ug/L	50.0	49.3	98.7	50.0	51.5	103	81.1 - 117			4.21	9.5	
1,2-Dichloroethane	< 2.00	ug/L	50.0	52.1	104	50.0	53.7	107	77.8 - 122			3.12	17.8	
1,2-Dichloropropane	< 2.00	ug/L	50.0	49.7	99.5	50.0	51.6	103	84.9 - 114			3.58	14.7	
1,3-Dichlorobenzene	< 2.00	ug/L	50.0	47.0	94.0	50.0	49.2	98.4	76.8 - 111			4.59	9.73	
1,4-Dichlorobenzene	< 2.00	ug/L	50.0	46.7	93.5	50.0	49.6	99.2	76.7 - 110			5.93	8.88	
Benzene	< 0.700	ug/L	50.0	50.8	102	50.0	53.6	107	87.4 - 118			5.23	13.3	
Bromodichloromethane	< 2.00	ug/L	50.0	51.3	103	50.0	53.2	106	79.2 - 119			3.64	16.7	
Bromoform	< 5.00	ug/L	50.0	48.4	96.8	50.0	51.5	103	69.3 - 105			6.28	15.5	
Bromomethane	< 2.00	ug/L	50.0	33.3	66.5	50.0	35.2	70.3	60.7 - 147			5.51	36	

Any estimated values are displayed, and derived values calculated, based on numeric result only. See primary analytical report for data flags.

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Report Prepared Wednesday, March 04, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Matrix Spike and Matrix Spike Duplicate

SDG #: 0382-01
Lab Project ID: 150382

Client: Stantec
Project Reference: Carriage Factory

Lab Sample ID: 150382-07
Sample Identifier: LI-B108-MW-PI9
Matrix: Groundwater

Date Sampled: 2/3/2015
Date Received: 2/4/2015
Date Analyzed: 2/5/2015

Volatile Organics

Analyte	Sample Result	Result Units	MS Added	MS Result	MS % Recovery	MSD Added	MSD Result	MSD % Recovery	% Rec. Limits	MS Outlier	MSD Outlier	Relative % Diff.	RPD Limit	RPD Outlier
Carbon Tetrachloride	< 2.00	ug/L	50.0	52.4	105	50.0	53.8	108	73.1 - 120			2.60	19.1	
Chlorobenzene	< 2.00	ug/L	50.0	50.4	101	50.0	52.2	104	82.2 - 112			3.40	8.44	
Chloroethane	< 2.00	ug/L	50.0	66.1	132	50.0	69.4	139	77.1 - 122	*	*	4.85	16.1	
Chloroform	< 2.00	ug/L	50.0	50.8	102	50.0	52.5	105	82.8 - 115			3.20	13.7	
Chloromethane	< 2.00	ug/L	50.0	52.5	105	50.0	54.5	109	76 - 132			3.74	19.4	
cis-1,3-Dichloropropene	< 2.00	ug/L	50.0	56.3	113	50.0	59.0	118	91.2 - 121			4.63	11.4	
Dibromochloromethane	< 2.00	ug/L	50.0	51.3	103	50.0	53.0	106	76.9 - 119			3.43	15.8	
Ethylbenzene	< 2.00	ug/L	50.0	47.5	95.0	50.0	49.4	98.7	84.3 - 115			3.88	7.53	
Methylene chloride	< 5.00	ug/L	50.0	49.1	98.3	50.0	52.3	105	71 - 124			6.34	22.3	
Tetrachloroethene	6.73	ug/L	50.0	52.0	90.6	50.0	54.5	95.6	69.6 - 132			5.30	30.5	
Toluene	< 2.00	ug/L	50.0	48.1	96.1	50.0	50.2	100	86.1 - 114			4.27	13.8	
trans-1,2-Dichloroethene	1.42	ug/L	50.0	48.1	93.3	50.0	49.5	96.1	69.2 - 130			2.94	22.9	
trans-1,3-Dichloropropene	< 2.00	ug/L	50.0	52.1	104	50.0	55.7	111	73 - 116			6.71	12.5	
Trichloroethene	2.93	ug/L	50.0	52.1	98.4	50.0	54.7	103	85.7 - 115			5.04	14.9	

Any estimated values are displayed, and derived values calculated, based on numeric result only. See primary analytical report for data flags.

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Report Prepared Wednesday, March 04, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Matrix Spike and Matrix Spike Duplicate

SDG #: 0382-01
Lab Project ID: 150382

Client: Stantec
Project Reference: Carriage Factory

Lab Sample ID: 150382-07
Sample Identifier: LI-B108-MW-PI9
Matrix: Groundwater

Date Sampled: 2/3/2015
Date Received: 2/4/2015
Date Analyzed: 2/5/2015

Volatile Organics

Analyte	Sample Result	Result Units	MS Added	MS Result	MS % Recovery	MSD Added	MSD Result	MSD % Recovery	% Rec. Limits	MS Outlier	MSD Outlier	Relative % Diff.	RPD Limit	RPD Outlier
Trichlorofluoromethane	< 2.00	ug/L	50.0	54.2	108	50.0	56.3	113	71.8 - 124			3.84	19.5	
Vinyl chloride	< 2.00	ug/L	50.0	56.9	114	50.0	58.9	118	78.1 - 129			3.55	21.3	

Method Reference(s): EPA 8260C
EPA 5030
Data File(s): x20348.D
x20349.D
x20347.D
1
QC Batch ID: voaw020515

Any estimated values are displayed, and derived values calculated, based on numeric result only. See primary analytical report for data flags.

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Report Prepared Wednesday, March 04, 2015

4A

VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

Blk 02/05

Lab Name: Paradigm Environmental Services Client Name: Stantec

Lab Project #: 150382 Client Project #: N/A SDG No.: 0382-01

Client Project Name: Carriage Factory

Lab File ID: x20329.D Lab Sample ID: Blk 02/05

Date Analyzed: 2/5/2015 Time Analyzed: 13:48

GC Column: microbore ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: Instrument #1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	N/A	LCS 02/05	x20328.D	13:25
02	LI-RW-1-PI9	150382-01	x20346.D	20:32
03	LI-RW-2-PI9	150382-02	x20345.D	20:08
04	LI-RW-3-PI9	150382-03	x20344.D	19:45
05	LI-RW-5-PI9	150382-04	x20343.D	19:21
06	LI-B102-MW-PI9	150382-05	x20342.D	18:57
07	LI-B106-MW-PI9	150382-06	x20341.D	18:34
08	LI-B108-MW-PI9	150382-07	x20347.D	20:55
09	LI-B108-MW-PI9	150382-07MS	x20348.D	21:19
10	LI-B108-MW-PI9	150382-07MSD	x20349.D	21:43
11	LI-RW-12-PI9	150382-08	x20340.D	18:10
12	LI-RW-6-PI9	150382-09	x20339.D	17:46
13	LI-RW-7-PI9	150382-10	x20338.D	17:23
14	LI-RW-4-PI9	150382-11	x20337.D	16:59
15	LI-RW-9-PI9	150382-12	x20336.D	16:36
16	LI-DUP-PI9	150382-13	x20335.D	16:12
17	LI-TRIP BLANK-P19 T-586	150382-14	x20334.D	15:49
18				
19				
20				

COMMENTS:

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE(BFB)

Lab Name: Paradigm Environmental Services Client Name: Stantec

Lab Project #: 2E+05 Client Project #: N/A SDG#: 0382-01

Client Project Name: Carriage Factory

Lab File ID: x20252.D BFB Injection Date: 2/2/2015

Instrument ID: Instrument #1 BFB Injection Time: 11:23

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0-40.0% of mass 95	19.6
75	30.0-60.0% of mass 95	45.2
95	Base peak, 100%relative abundance	100.0
96	5.0-9.0% of mass 95	6.5
173	Less then 2.0% of mass 174	0.3 (0.4)1
174	50.0-100.0% of mass 95	81.7
175	5.0-9.0% of mass 174	5.6 (6.8)1
176	95.0-101.0% of mass 174	78.6 (96.2)1
177	5.0-9.0% of mass176	5.8 (7.4)2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following Samples, MS, MSD, Blanks & Standards

	Client Sample #	Lab Sample #	Lab File ID	Date Analyzed	Time Analyzed
1	N/A	1.0ppb mega Cal	x20253.D	2/2/2015	11:46
2	N/A	5.0ppb mega Cal	x20254.D	2/2/2015	12:10
3	N/A	20ppb mega Cal	x20255.D	2/2/2015	12:34
4	N/A	50ppb mega Cal	x20256.D	2/2/2015	12:58
5	N/A	100ppb mega Cal	x20257.D	2/2/2015	13:21
6	N/A	150ppb mega Cal	x20258.D	2/2/2015	13:45
7	N/A	200ppb mega Cal	x20259.D	2/2/2015	14:08
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE(BFB)

Lab Name: Paradigm Environmental Services Client Name: Stantec

Lab Project #: 150382 Client Project #: N/A SDG#: 0382-01

Client Project Name: Carriage Factory

Lab File ID: x20322.D BFB Injection Date: 2/5/2015

Instrument ID: Instrument #1 BFB Injection Time: 11:04

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0-40.0% of mass 95	18.6
75	30.0-60.0% of mass 95	48.6
95	Base peak, 100%relative abundance	100.0
96	5.0-9.0% of mass 95	6.7
173	Less then 2.0% of mass 174	0.0 (0.0)1
174	50.0-100.0% of mass 95	84.5
175	5.0-9.0% of mass 174	6.5 (7.7)1
176	95.0-101.0% of mass 174	83.6 (98.9)1
177	5.0-9.0% of mass176	5.4 (6.5)2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following Samples, MS, MSD, Blanks & Standards

	Client Sample #	Lab Sample #	Lab File ID	Date Analyzed	Time Analyzed
1	N/A	50ppb mega CC	x20323.D	2/5/2015	11:27
2	N/A	Blk 02/05	x20329.D	2/5/2015	13:48
3	N/A	LCS 02/05	x20328.D	2/5/2015	13:25
4	LI-RW-1-PI9	150382-01	x20346.D	2/5/2015	20:32
5	LI-RW-2-PI9	150382-02	x20345.D	2/5/2015	20:08
6	LI-RW-3-PI9	150382-03	x20344.D	2/5/2015	19:45
7	LI-RW-5-PI9	150382-04	x20343.D	2/5/2015	19:21
8	LI-B102-MW-PI9	150382-05	x20342.D	2/5/2015	18:57
9	LI-B106-MW-PI9	150382-06	x20341.D	2/5/2015	18:34
10	LI-B108-MW-PI9	150382-07	x20347.D	2/5/2015	20:55
11	LI-B108-MW-PI9	150382-07MS	x20348.D	2/5/2015	21:19
12	LI-B108-MW-PI9	150382-07MSD	x20349.D	2/5/2015	21:43
13	LI-RW-12-PI9	150382-08	x20340.D	2/5/2015	18:10
14	LI-RW-6-PI9	150382-09	x20339.D	2/5/2015	17:46
15	LI-RW-7-PI9	150382-10	x20338.D	2/5/2015	17:23
16	LI-RW-4-PI9	150382-11	x20337.D	2/5/2015	16:59
17	LI-RW-9-PI9	150382-12	x20336.D	2/5/2015	16:36
18	LI-DUP-PI9	150382-13	x20335.D	2/5/2015	16:12
19	LI-TRIP BLANK-P19 T-586	150382-14	x20334.D	2/5/2015	15:49
20					
21					
22					

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Paradigm Environmental Services Client Name: Stantec

Lab Project #: 150382 Client Project #: N/A SDG#: 0382-01

Client Project Name: Carriage Factory

Lab File ID: x20323.D Date Analyzed: 2/5/2015

Instrument ID: Instrument #1 Time Analyzed: 11:27

Heated Purge: Y

		IS1 AREA	FB RT	IS2 AREA	CB RT	IS3 AREA	1,4-DCB RT
	12 HOUR STD	166168	4.98	115301	7.92	59830	10.46
	UPPER LIMIT	332336	5.48	230602	8.42	119660	10.96
	LOWER LIMIT	83084	4.48	57651	7.42	29915	9.96
	LAB SAMPLE#						
1	Blk 02/05	160033	4.98	111625	7.92	57665	10.46
2	LCS 02/05	152244	4.98	106242	7.92	57502	10.46
3	150382-01	149017	4.98	105529	7.92	55055	10.46
4	150382-02	151511	4.98	106154	7.92	55590	10.46
5	150382-03	148592	4.98	105523	7.92	54816	10.46
6	150382-04	150219	4.98	104596	7.92	54080	10.46
7	150382-05	151661	4.98	107059	7.92	56168	10.46
8	150382-06	143652	4.98	102301	7.92	53338	10.46
9	150382-07	147889	4.98	104373	7.92	56456	10.46
10	150382-07MS	153173	4.98	111839	7.92	62041	10.46
11	150382-07MSD	150187	4.97	110407	7.92	60265	10.46
12	150382-08	150911	4.98	106201	7.92	56102	10.46
13	150382-09	147224	4.98	104171	7.92	52239	10.46
14	150382-10	151845	4.98	104939	7.92	54254	10.46
15	150382-11	152005	4.98	105895	7.92	52940	10.46
16	150382-12	155126	4.97	105133	7.93	54939	10.46
17	150382-13	158543	4.98	110404	7.92	56015	10.46
18	150382-14	154699	4.97	107586	7.92	55622	10.46
19							
20							
21							
22							

IS1=Fluorobenzene

IS2=Chlorobenzene-d5

IS3=1,4-Dichlorobenzene-d4

AREA UPPER LIMIT=+100% of internal standard area

AREA LOWER LIMIT=-50% of internal standard area

RT UPPER LIMIT=+.50 minutes of internal standard RT

RT LOWER LIMIT=-.50 minutes of internal standard RT

*Values outside of QC limits

Instrument:	73 VOA
Matrix:	Water
Date Run:	01/29/2015, 02/10/2015
Target (ug/L)	1
TBA, IPA	10
tert-Butyl Acetate	5
1,4-Dioxane	20.5
TCFM,CS2,CCl4, cis-1,3-DCP	0.5

	Compound	MDL1 Data File: x20216.D x20394.D	MDL2 Data File: x20217.D x20395.D	MDL3 Data File: x20218.D x20396.D	MDL4 Data File: x20219.D x20397.D	MDL5 Data File: x20220.D x20398.D	MDL6 Data File: x20221.D x20399.D	MDL7 Data File: x20222.D x20400.D	Standard Deviation	MDL	LOD QC Validation Sample
2	Dichlorodifluoromethane	1.10	1.24	1.11	1.18	1.12	1.23	1.15	0.0570	**0.179**	1.10
3	Chloromethane	1.17	1.14	1.22	1.13	1.14	1.24	1.23	0.0474	**0.149**	1.17
4	Vinyl chloride	0.96	1.07	1.11	0.99	1.05	1.13	1.07	0.0611	**0.192**	0.96
5	Bromomethane	1.19	1.38	1.34	1.30	1.27	1.27	1.46	0.0873	**0.275**	1.19
6	Chloroethane	1.05	1.63	1.43	1.66	1.54	1.56	1.12	0.2457	**0.772**	1.05
7	Trichlorofluoromethane	0.56	0.62	0.51	0.50	0.55	0.57	0.56	0.0399	**0.125**	1.17
8	Ethyl ether	1.08	1.03	1.15	1.06	1.11	1.15	1.07	0.0457	**0.144**	1.08
9	Freon 113	1.13	1.04	1.17	1.08	1.13	1.14	1.08	0.0447	**0.141**	1.13
10	1,1-Dichloroethene	1.06	1.15	1.08	1.15	1.07	1.14	1.23	0.0602	**0.189**	1.06
11	Acetone	1.82	1.88	1.77	1.93	1.84	1.67	2.00	0.1075	**0.338**	1.82
12	Isopropyl Alcohol	13.87	12.87	15.52	16.76	16.11	13.36	13.11	1.5824	**4.974**	13.87
13	Carbon disulfide	0.49	0.50	0.44	0.42	0.49	0.49	0.43	0.0341	**0.107**	0.87
14	Methyl acetate	1.30	1.27	1.42	1.37	1.22	1.42	1.47	0.0916	**0.288**	1.30
15	Methylene chloride	1.81	1.91	1.83	1.87	1.73	1.95	1.98	0.0865	**0.272**	1.81
16	Acrylonitrile	0.83	1.17	1.07	1.28	1.09	1.06	1.03	0.1376	**0.432**	0.83
17	tert-Butyl Alcohol	11.70	11.89	13.34	15.71	12.61	12.74	13.04	1.3293	**4.178**	11.70
18	Methyl tert-butyl Ether	1.02	1.14	1.05	1.06	1.03	1.00	1.06	0.0449	**0.141**	1.02
19	trans-1,2-Dichloroethene	0.97	1.08	1.06	0.98	1.01	1.06	1.08	0.0469	**0.147**	0.97
20	1,1-Dichloroethane	1.05	1.13	1.15	1.16	1.10	1.17	1.20	0.0496	**0.156**	1.05
21	Vinyl acetate	0.75	0.80	0.86	0.87	0.76	0.80	0.82	0.0456	**0.143**	0.75
22	2,2-Dichloropropane	0.89	0.85	0.85	0.85	0.84	0.85	0.94	0.0359	**0.113**	0.89
23	2-Butanone	0.55	0.99	0.69	0.68	0.79	0.39	0.60	0.1893	**0.595**	0.55
24	cis-1,2-Dichloroethene	1.01	1.11	1.05	0.98	1.02	0.99	1.04	0.0438	**0.138**	1.01
25	Bromochloromethane	1.11	1.06	1.27	1.23	1.19	1.21	1.04	0.0888	**0.279**	1.11
26	Chloroform	1.08	1.13	1.04	1.20	1.06	1.08	1.11	0.0532	**0.167**	1.08
28	Tetrahydrofuran	1.93	1.77	1.95	1.87	1.89	1.89	1.93	0.0600	**0.189**	1.93
29	1,1,1-Trichloroethane	0.91	0.96	0.96	1.02	0.94	0.95	1.03	0.0431	**0.135**	0.91
30	Cyclohexane	0.98	1.00	0.93	1.05	0.91	0.93	0.97	0.0486	**0.153**	0.98
32	Carbon Tetrachloride	0.39	0.41	0.37	0.40	0.48	0.39	0.39	0.0355	**0.112**	0.92
33	Benzene	1.11	1.13	1.13	1.15	1.07	1.18	1.14	0.0342	**0.107**	1.11
34	1,2-Dichloroethane	1.18	1.12	1.20	1.26	1.18	1.22	1.19	0.0427	**0.134**	1.18
35	Trichloroethene	0.98	1.04	1.11	1.12	1.02	1.08	1.01	0.0530	**0.167**	0.98
36	terty-Butyl Acetate	3.15	3.13	3.21	3.53	3.01	3.42	3.24	0.1782	**0.560**	3.15
37	Methylcyclohexane	0.83	0.93	0.79	0.81	0.83	0.84	0.86	0.0449	**0.141**	0.83
38	1,4-Dioxane	16.59	17.15	7.65	11.88	11.37	9.87	11.83	3.4329	**10.790**	14.25

40	1,2-Dichloropropane	1.05	1.07	1.20	1.18	1.07	1.16	1.10	0.0604	**0.190**	1.05
42	Dibromomethane	1.06	1.08	1.16	1.30	0.99	1.12	1.21	0.1027	**0.323**	1.06
43	Bromodichloromethane	0.90	0.97	0.90	0.91	0.86	0.95	0.90	0.0364	**0.114**	0.90
44	2-Chloroethyl vinyl Ether	0.05	0.05	0.10	0.05	0.05	0.17	0.05	0.0461	**0.145**	0.05
46	1,1-Dichloropropene	0.95	1.01	0.98	1.00	1.01	1.03	1.05	0.0326	**0.102**	0.95
47	cis-1,3-Dichloropropene	0.40	0.41	0.40	0.40	0.65	0.38	0.38	0.0970	**0.305**	0.68
48	4-Methyl-2-pentanone	0.62	0.71	0.60	0.76	0.60	0.54	0.62	0.0744	**0.234**	0.62
50	Toluene	1.05	1.20	1.12	1.16	1.07	1.15	1.15	0.0527	**0.166**	1.05
51	trans-1,3-Dichloropropene	0.61	0.65	0.65	0.74	0.62	0.67	0.62	0.0445	**0.140**	0.61
52	1,1,2-Trichloroethane	1.13	1.21	1.25	1.37	1.16	1.14	1.14	0.0868	**0.273**	1.13
53	1,3-Dichloropropane	0.99	1.02	1.04	1.18	0.99	1.03	1.06	0.0650	**0.204**	0.99
54	Tetrachloroethene	1.21	1.29	1.18	1.24	1.15	1.27	1.32	0.0610	**0.192**	1.21
55	2-Hexanone	0.69	0.71	0.59	0.80	0.58	0.67	0.67	0.0745	**0.234**	0.69
56	Dibromochloromethane	0.74	0.88	0.75	0.92	0.82	0.89	0.84	0.0692	**0.218**	0.74
57	1,2-Dibromoethane	0.90	0.98	0.99	1.08	0.95	1.06	1.04	0.0640	**0.201**	0.90
59	Chlorobenzene	1.13	1.17	1.13	1.34	1.18	1.21	1.18	0.0715	**0.225**	1.13
60	1,1,1,2-Tetrachloroethane	0.91	0.95	0.92	1.15	0.93	1.04	0.98	0.0860	**0.270**	0.91
61	Ethylbenzene	0.89	0.92	0.91	1.02	0.88	0.93	0.89	0.0476	**0.150**	0.89
62	m,p-Xylene	1.68	1.82	1.70	1.95	1.66	1.80	1.76	0.1008	**0.317**	1.68
63	o-Xylene	0.82	0.84	0.76	0.86	0.74	0.74	0.71	0.0579	**0.182**	0.82
64	Styrene	0.65	0.68	0.69	0.77	0.63	0.63	0.65	0.0491	**0.154**	0.65
65	Bromoform	0.60	0.83	0.81	0.94	0.79	0.81	0.80	0.1006	**0.316**	0.60
66	Isopropylbenzene	0.68	0.68	0.68	0.78	0.63	0.68	0.63	0.0500	**0.157**	0.68
67	1,2,3-Trichloropropane	1.06	1.15	1.09	1.36	1.00	1.11	1.12	0.1134	**0.356**	1.06
69	Bromobenzene	1.04	1.10	1.05	1.25	1.00	1.03	1.09	0.0825	**0.259**	1.04
70	1,1,2,2-Tetrachloroethane	1.15	1.13	1.18	1.40	1.07	1.21	1.14	0.1052	**0.330**	1.15
71	n-Propylbenzene	0.79	0.85	0.82	0.95	0.77	0.77	0.80	0.0634	**0.199**	0.79
72	2-Chlorotoluene	0.93	0.91	0.80	1.07	0.84	0.94	0.81	0.0942	**0.296**	0.93
73	4-Chlorotoluene	0.86	0.98	0.96	0.97	0.80	0.84	0.83	0.0758	**0.238**	0.86
74	1,3,5-Trimethylbenzene	0.68	0.76	0.73	0.85	0.66	0.75	0.72	0.0619	**0.194**	0.68
75	tert-Butylbenzene	0.67	0.72	0.72	0.87	0.64	0.76	0.70	0.0744	**0.234**	0.67
76	1,2,4-Trimethylbenzene	0.63	0.71	0.71	0.79	0.63	0.67	0.68	0.0555	**0.174**	0.63
77	sec-Butylbenzene	0.67	0.71	0.69	0.83	0.64	0.65	0.69	0.0634	**0.199**	0.67
78	p-Isopropyltoluene	0.66	0.72	0.67	0.80	0.61	0.69	0.67	0.0593	**0.186**	0.66
80	1,3-Dichlorobenzene	0.95	0.99	0.96	1.11	0.96	0.96	0.89	0.0670	**0.211**	0.95
81	1,4-Dichlorobenzene	1.18	1.21	1.18	1.38	1.13	1.19	1.17	0.0806	**0.253**	1.18
82	n-Butylbenzene	0.65	0.66	0.64	0.73	0.57	0.65	0.63	0.0472	**0.148**	0.65
83	1,2-Dichlorobenzene	0.97	1.00	1.06	1.26	0.99	1.07	0.99	0.1006	**0.316**	0.97
85	1,2-Dibromo-3-Chloropropane	0.48	0.64	0.51	0.61	0.40	0.49	0.61	0.0877	**0.276**	0.48
86	1,2,4-Trichlorobenzene	0.77	0.80	0.76	0.85	0.68	0.75	0.71	0.0560	**0.176**	0.77
87	1,2,3-Trichlorobenzene	0.77	0.82	0.86	0.89	0.76	0.77	0.77	0.0519	**0.163**	0.77
88	Hexachlorobutadiene	1.04	1.04	1.04	1.12	1.00	1.04	1.03	0.0364	**0.115**	1.04
89	Naphthalene	0.58	0.57	0.56	0.66	0.56	0.55	0.54	0.0399	**0.126**	0.58

VOLATILE ORGANICS

SAMPLE DATA

PARADIGM

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-RW-1-PI9
Lab Sample ID: 150382-01 **Date Sampled:** 2/3/2015
Matrix: Groundwater **Date Received:** 2/4/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/5/2015 20:32
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/5/2015 20:32
1,1,2-Trichloroethane	< 2.00	ug/L		2/5/2015 20:32
1,1-Dichloroethane	< 2.00	ug/L		2/5/2015 20:32
1,1-Dichloroethene	< 2.00	ug/L		2/5/2015 20:32
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/5/2015 20:32
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/5/2015 20:32
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/5/2015 20:32
1,2-Dibromoethane	< 2.00	ug/L		2/5/2015 20:32
1,2-Dichlorobenzene	< 2.00	ug/L		2/5/2015 20:32
1,2-Dichloroethane	< 2.00	ug/L		2/5/2015 20:32
1,2-Dichloropropane	< 2.00	ug/L		2/5/2015 20:32
1,3-Dichlorobenzene	< 2.00	ug/L		2/5/2015 20:32
1,4-Dichlorobenzene	< 2.00	ug/L		2/5/2015 20:32
1,4-dioxane	< 20.0	ug/L		2/5/2015 20:32
2-Butanone	< 10.0	ug/L		2/5/2015 20:32
2-Hexanone	< 5.00	ug/L		2/5/2015 20:32
4-Methyl-2-pentanone	< 5.00	ug/L		2/5/2015 20:32
Acetone	< 10.0	ug/L		2/5/2015 20:32
Benzene	< 0.700	ug/L		2/5/2015 20:32
Bromochloromethane	< 5.00	ug/L		2/5/2015 20:32
Bromodichloromethane	< 2.00	ug/L		2/5/2015 20:32
Bromoform	< 5.00	ug/L		2/5/2015 20:32
Bromomethane	< 2.00	ug/L		2/5/2015 20:32
Carbon disulfide	< 2.00	ug/L		2/5/2015 20:32
Carbon Tetrachloride	< 2.00	ug/L		2/5/2015 20:32
Chlorobenzene	< 2.00	ug/L		2/5/2015 20:32

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Wednesday, February 18, 2015

PARADIGM

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-RW-1-PI9
Lab Sample ID: 150382-01 **Date Sampled:** 2/3/2015
Matrix: Groundwater **Date Received:** 2/4/2015

Chloroethane	< 2.00	ug/L		2/5/2015	20:32
Chloroform	< 2.00	ug/L		2/5/2015	20:32
Chloromethane	< 2.00	ug/L		2/5/2015	20:32
cis-1,2-Dichloroethene	< 2.00	ug/L		2/5/2015	20:32
cis-1,3-Dichloropropene	< 2.00	ug/L		2/5/2015	20:32
Cyclohexane	< 10.0	ug/L		2/5/2015	20:32
Dibromochloromethane	< 2.00	ug/L		2/5/2015	20:32
Dichlorodifluoromethane	< 2.00	ug/L		2/5/2015	20:32
Ethylbenzene	< 2.00	ug/L		2/5/2015	20:32
Freon 113	< 2.00	ug/L		2/5/2015	20:32
Isopropylbenzene	< 2.00	ug/L		2/5/2015	20:32
m,p-Xylene	< 2.00	ug/L		2/5/2015	20:32
Methyl acetate	< 2.00	ug/L		2/5/2015	20:32
Methyl tert-butyl Ether	< 2.00	ug/L		2/5/2015	20:32
Methylcyclohexane	< 2.00	ug/L		2/5/2015	20:32
Methylene chloride	< 5.00	ug/L		2/5/2015	20:32
o-Xylene	< 2.00	ug/L		2/5/2015	20:32
Styrene	< 5.00	ug/L		2/5/2015	20:32
Tetrachloroethene	< 2.00	ug/L		2/5/2015	20:32
Toluene	< 2.00	ug/L		2/5/2015	20:32
trans-1,2-Dichloroethene	< 2.00	ug/L		2/5/2015	20:32
trans-1,3-Dichloropropene	< 2.00	ug/L		2/5/2015	20:32
Trichloroethene	< 2.00	ug/L		2/5/2015	20:32
Trichlorofluoromethane	< 2.00	ug/L		2/5/2015	20:32
Vinyl chloride	**1.43**	ug/L	J	2/5/2015	20:32

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Report Prepared Wednesday, February 18, 2015

PARADIGM

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-RW-1-PI9
Lab Sample ID: 150382-01 **Date Sampled:** 2/3/2015
Matrix: Groundwater **Date Received:** 2/4/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**106**	80.4 - 116		2/5/2015 20:32
4-Bromofluorobenzene	**90.6**	87 - 109		2/5/2015 20:32
Pentafluorobenzene	**100**	92.8 - 109		2/5/2015 20:32
Toluene-D8	**93.6**	92.1 - 107		2/5/2015 20:32

Method Reference(s): EPA 8260C
EPA 5030
Data File: x20346.D

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Wednesday, February 18, 2015

Quantitation Report (Not Reviewed)

Data File: C:\msdchem\1\DATA\150205\x20346.D
DataAcq Meth:8260RUN.M
Acq On : 5 Feb 2015 8:32 pm Operator: Bill Brew
Sample : 150382-01_5 Inst : Instrument #1
Misc : Water_JVASP08
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Feb 06 06:52:56 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.976	96	149017	50.00	ug/L	0.00
58) Chlorobenzene-d5	7.922	117	105529	50.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	10.457	152	55055	50.00	ug/L	0.00
System Monitoring Compounds						
27) Pentafluorobenzene	4.405	168	47345	30.09	ug/L	0.00
Spiked Amount 30.000	Range 93 - 109		Recovery = 100.30%			
31) 1,2-Dichloroethane-d4	4.672	65	23490	31.67	ug/L	0.00
Spiked Amount 30.000	Range 80 - 116		Recovery = 105.57%			
49) Toluene-D8	6.465	98	78701	28.07	ug/L	0.00
Spiked Amount 30.000	Range 92 - 107		Recovery = 93.57%			
68) 4-Bromofluorobenzene	9.181	95	27030	27.18	ug/L	0.00
Spiked Amount 30.000	Range 87 - 109		Recovery = 90.60%			
Target Compounds						Qvalue
3) Chloromethane	1.448	50	4332	3.40	ug/L #	50
4) Vinyl chloride	1.587	62	1375	1.43	ug/L #	55
11) Acetone	2.558	43	677	1.49	ug/L	100
13) Carbon disulfide	2.702	76	759	0.39	ug/L #	74
18) Methyl tert-butyl Ether	3.129	73	1314	0.66	ug/L #	58
19) trans-1,2-Dichloroethene	3.124	61	865	0.65	ug/L	92
23) 2-Butanone	3.983	72	362	3.72	ug/L #	67
28) Tetrahydrofuran	4.218	42	12368	52.27	ug/L	97
30) Cyclohexane	4.458	56	757	0.38	ug/L	87
48) 4-Methyl-2-pentanone	6.459	58	663	1.98	ug/L #	1
51) trans-1,3-Dichloropropene	6.934	75	773	0.66	ug/L #	29
67) 1,2,3-Trichloropropane	9.432	110	811	2.80	ug/L #	21

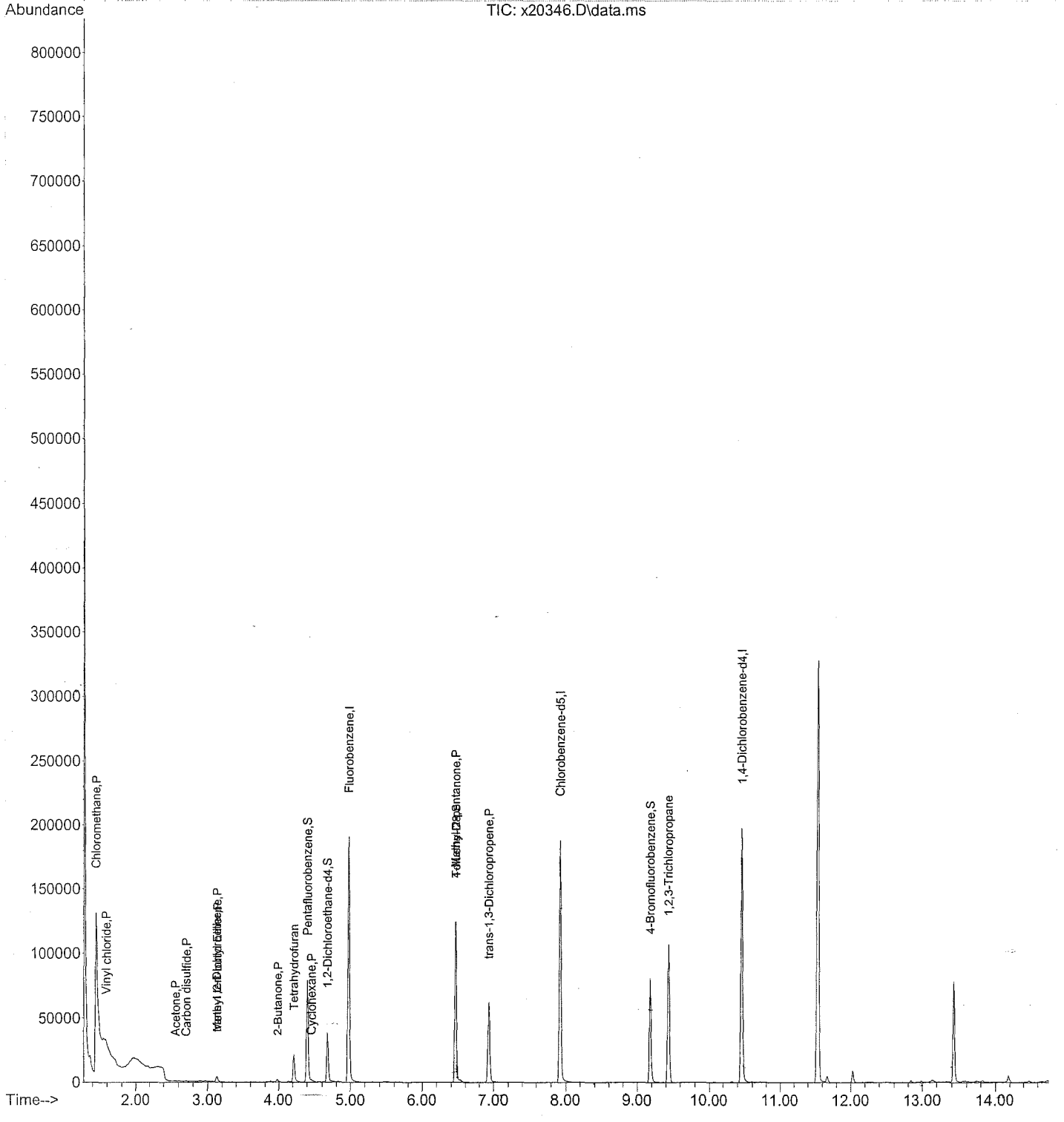
(#) = qualifier out of range (m) = manual integration (+) = signals summed

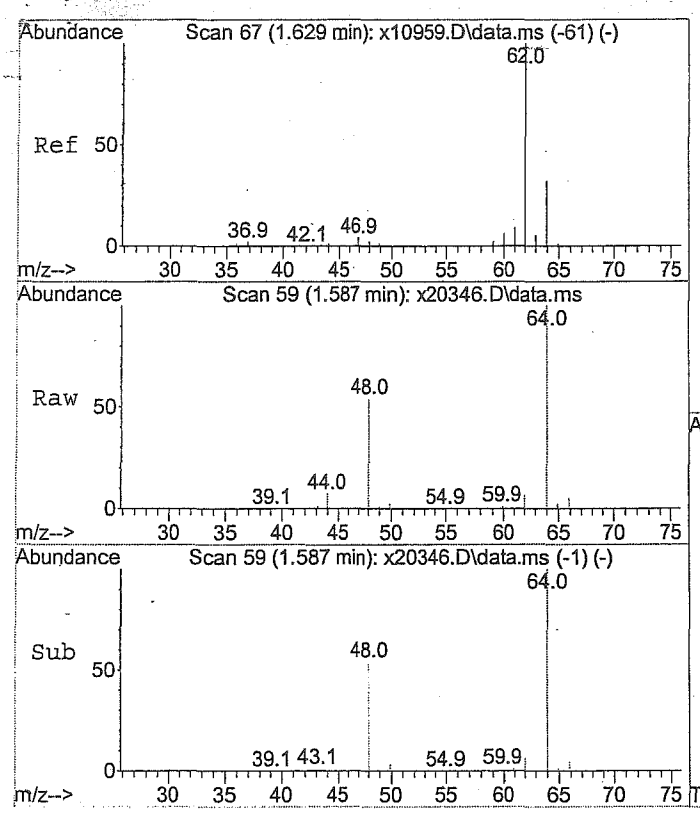
2/6/15

Quantitation Report (Not Reviewed)

Data File: C:\msdchem\1\DATA\150205\x20346.D
DataAcq Meth:8260RUN.M
Acq On : 5 Feb 2015 8:32 pm Operator: Bill Brew
Sample : 150382-01_5 Inst : Instrument #1
Misc : Water_JVASP08
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Feb 06 06:52:56 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE



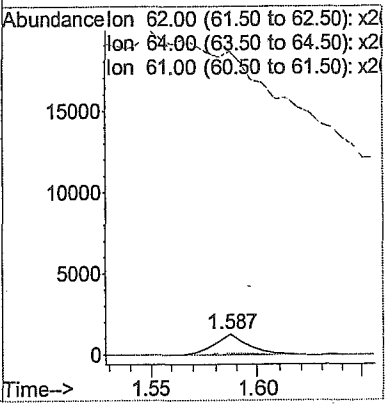


#4
Vinyl chloride
Concen: 1.43 ug/L
RT: 1.587 min Scan# 59
Delta R.T. -0.010 min
Lab File: x20346.D
Acq: 5 Feb 2015 8:32 pm

2/6 BB

Tgt Ion: 62 Resp: 1375

Ion	Ratio	Lower	Upper
62	100		
64	0.0	11.3	51.3#
61	8.7	0.0	28.3



PARADIGM

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-RW-2-PI9
Lab Sample ID: 150382-02 **Date Sampled:** 2/3/2015
Matrix: Groundwater **Date Received:** 2/4/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/5/2015 20:08
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/5/2015 20:08
1,1,2-Trichloroethane	< 2.00	ug/L		2/5/2015 20:08
1,1-Dichloroethane	< 2.00	ug/L		2/5/2015 20:08
1,1-Dichloroethene	< 2.00	ug/L		2/5/2015 20:08
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/5/2015 20:08
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/5/2015 20:08
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/5/2015 20:08
1,2-Dibromoethane	< 2.00	ug/L		2/5/2015 20:08
1,2-Dichlorobenzene	< 2.00	ug/L		2/5/2015 20:08
1,2-Dichloroethane	< 2.00	ug/L		2/5/2015 20:08
1,2-Dichloropropane	< 2.00	ug/L		2/5/2015 20:08
1,3-Dichlorobenzene	< 2.00	ug/L		2/5/2015 20:08
1,4-Dichlorobenzene	< 2.00	ug/L		2/5/2015 20:08
1,4-dioxane	< 20.0	ug/L		2/5/2015 20:08
2-Butanone	< 10.0	ug/L		2/5/2015 20:08
2-Hexanone	< 5.00	ug/L		2/5/2015 20:08
4-Methyl-2-pentanone	< 5.00	ug/L		2/5/2015 20:08
Acetone	< 10.0	ug/L		2/5/2015 20:08
Benzene	< 0.700	ug/L		2/5/2015 20:08
Bromochloromethane	< 5.00	ug/L		2/5/2015 20:08
Bromodichloromethane	< 2.00	ug/L		2/5/2015 20:08
Bromoform	< 5.00	ug/L		2/5/2015 20:08
Bromomethane	< 2.00	ug/L		2/5/2015 20:08
Carbon disulfide	< 2.00	ug/L		2/5/2015 20:08
Carbon Tetrachloride	< 2.00	ug/L		2/5/2015 20:08
Chlorobenzene	< 2.00	ug/L		2/5/2015 20:08

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Report Prepared Wednesday, February 18, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-RW-2-PI9
Lab Sample ID: 150382-02 **Date Sampled:** 2/3/2015
Matrix: Groundwater **Date Received:** 2/4/2015

Chloroethane	< 2.00	ug/L		2/5/2015	20:08
Chloroform	< 2.00	ug/L		2/5/2015	20:08
Chloromethane	< 2.00	ug/L		2/5/2015	20:08
cis-1,2-Dichloroethene	**4.37**	ug/L		2/5/2015	20:08
cis-1,3-Dichloropropene	< 2.00	ug/L		2/5/2015	20:08
Cyclohexane	< 10.0	ug/L		2/5/2015	20:08
Dibromochloromethane	< 2.00	ug/L		2/5/2015	20:08
Dichlorodifluoromethane	< 2.00	ug/L		2/5/2015	20:08
Ethylbenzene	< 2.00	ug/L		2/5/2015	20:08
Freon 113	< 2.00	ug/L		2/5/2015	20:08
Isopropylbenzene	< 2.00	ug/L		2/5/2015	20:08
m,p-Xylene	< 2.00	ug/L		2/5/2015	20:08
Methyl acetate	< 2.00	ug/L		2/5/2015	20:08
Methyl tert-butyl Ether	< 2.00	ug/L		2/5/2015	20:08
Methylcyclohexane	< 2.00	ug/L		2/5/2015	20:08
Methylene chloride	< 5.00	ug/L		2/5/2015	20:08
o-Xylene	< 2.00	ug/L		2/5/2015	20:08
Styrene	< 5.00	ug/L		2/5/2015	20:08
Tetrachloroethene	< 2.00	ug/L		2/5/2015	20:08
Toluene	< 2.00	ug/L		2/5/2015	20:08
trans-1,2-Dichloroethene	< 2.00	ug/L		2/5/2015	20:08
trans-1,3-Dichloropropene	< 2.00	ug/L		2/5/2015	20:08
Trichloroethene	< 2.00	ug/L		2/5/2015	20:08
Trichlorofluoromethane	< 2.00	ug/L		2/5/2015	20:08
Vinyl chloride	**1.17**	ug/L	J	2/5/2015	20:08

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Report Prepared Wednesday, February 18, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-RW-2-PI9
Lab Sample ID: 150382-02 **Date Sampled:** 2/3/2015
Matrix: Groundwater **Date Received:** 2/4/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**104**	80.4 - 116		2/5/2015	20:08
4-Bromofluorobenzene	**91.4**	87 - 109		2/5/2015	20:08
Pentafluorobenzene	**96.4**	92.8 - 109		2/5/2015	20:08
Toluene-D8	**93.0**	92.1 - 107		2/5/2015	20:08

Method Reference(s): EPA 8260C
EPA 5030
Data File: x20345.D

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Wednesday, February 18, 2015

Quantitation Report (Not Reviewed)

Data File: C:\msdchem\1\DATA\150205\x20345.D
DataAcq Meth:8260RUN.M
Acq On : 5 Feb 2015 8:08 pm Operator: Bill Brew
Sample : 150382-02_5 Inst : Instrument #1
Misc : Water_JVASP08
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Feb 06 06:52:53 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE

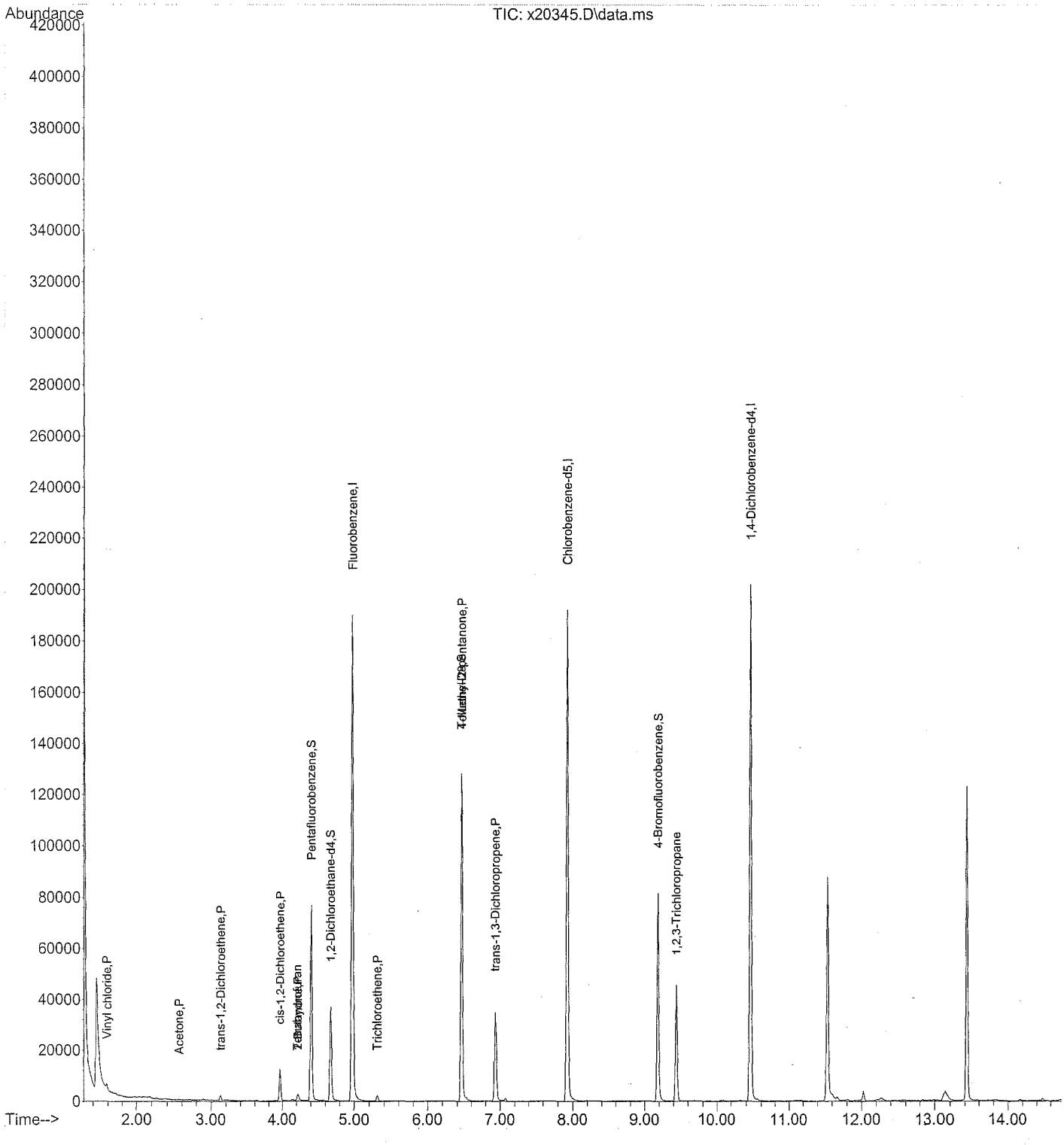
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.976	96	151511	50.00	ug/L	0.00
58) Chlorobenzene-d5	7.922	117	106154	50.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	10.457	152	55590	50.00	ug/L	0.00
System Monitoring Compounds						
27) Pentafluorobenzene	4.405	168	46263	28.92	ug/L	0.00
Spiked Amount 30.000	Range 93 - 109		Recovery = 96.40%			
31) 1,2-Dichloroethane-d4	4.672	65	23520	31.18	ug/L	0.00
Spiked Amount 30.000	Range 80 - 116		Recovery = 103.93%			
49) Toluene-D8	6.460	98	79549	27.91	ug/L	0.00
Spiked Amount 30.000	Range 92 - 107		Recovery = 93.03%			
68) 4-Bromofluorobenzene	9.182	95	27446	27.43	ug/L	0.00
Spiked Amount 30.000	Range 87 - 109		Recovery = 91.43%			
Target Compounds						Qvalue
4) Vinyl chloride	1.587	62	1144	1.17	ug/L #	55
11) Acetone	2.559	43	412	0.40	ug/L	88
19) trans-1,2-Dichloroethene	3.130	61	839	0.62	ug/L	92
23) 2-Butanone	4.218	72	425	4.29	ug/L #	1
24) cis-1,2-Dichloroethene	3.962	96	4744	4.37	ug/L	96
28) Tetrahydrofuran	4.213	42	1214	5.05	ug/L	92
35) Trichloroethene	5.307	130	738	0.67	ug/L	95
48) 4-Methyl-2-pentanone	6.460	58	652	1.92	ug/L #	1
51) trans-1,3-Dichloropropene	6.935	75	457	0.39	ug/L #	29
67) 1,2,3-Trichloropropane	9.432	110	377	1.29	ug/L #	5

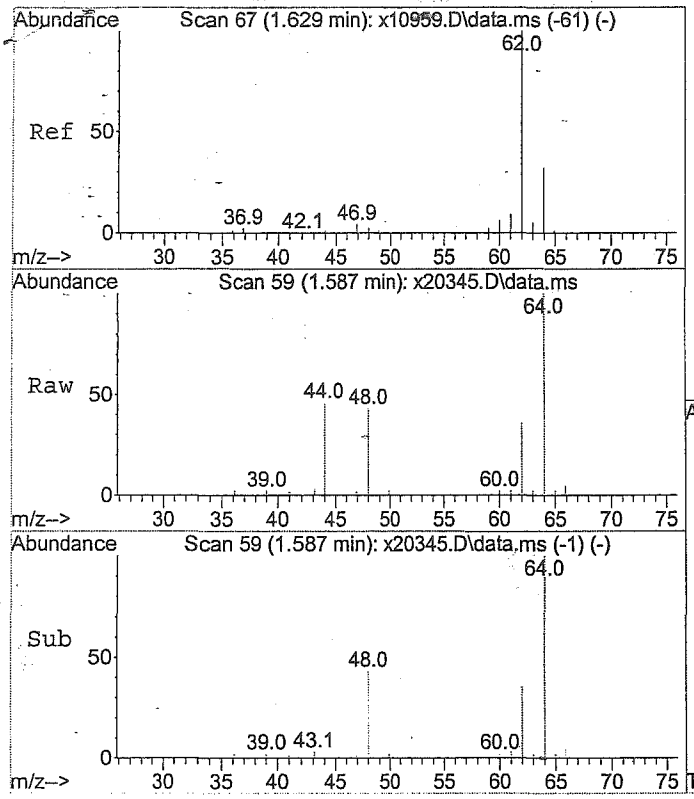
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File: C:\msdchem\1\DATA\150205\x20345.D
DataAcq Meth:8260RUN.M
Acq On : 5 Feb 2015 8:08 pm Operator: Bill Brew
Sample : 150382-02_5 Inst : Instrument #1
Misc : Water_JVASP08
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Feb 06 06:52:53 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE



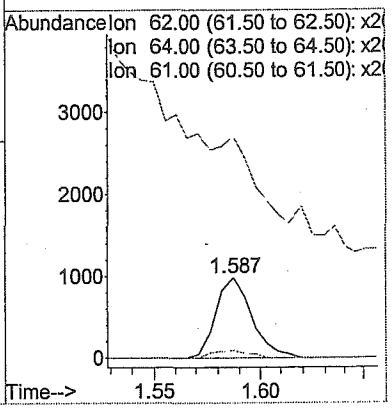


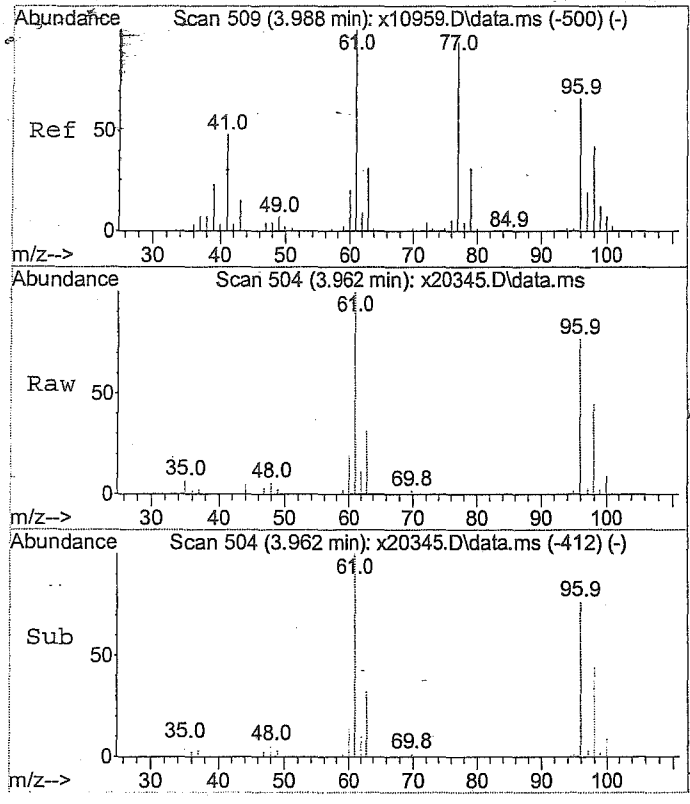
#4
Vinyl chloride
Concen: 1.17 ug/L
RT: 1.587 min Scan# 59
Delta R.T. -0.010 min
Lab File: x20345.D
Acq: 5 Feb 2015 8:08 pm

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Tgt Ion: 62 Resp: 1144

Ion	Ratio	Lower	Upper
62	100		
64	0.0	11.3	51.3#
61	9.1	0.0	28.3

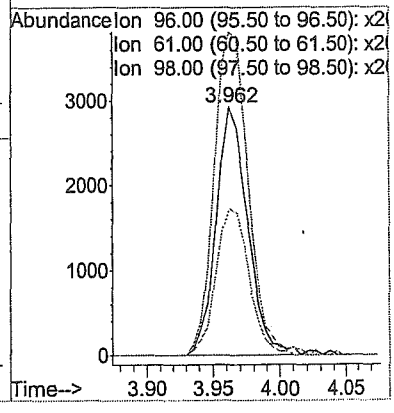




#24
cis-1,2-Dichloroethene
Concen: 4.37 ug/L
RT: 3.962 min Scan# 504
Delta R.T. -0.010 min
Lab File: x20345.D
Acq: 5 Feb 2015 8:08 pm

Tgt Ion: 96 Resp: 4744

Ion	Ratio	Lower	Upper
96	100		
61	140.4	125.2	165.2
98	61.6	45.7	85.7



PARADIGM

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-RW-3-PI9
Lab Sample ID: 150382-03 **Date Sampled:** 2/3/2015
Matrix: Groundwater **Date Received:** 2/4/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/5/2015 19:45
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/5/2015 19:45
1,1,2-Trichloroethane	< 2.00	ug/L		2/5/2015 19:45
1,1-Dichloroethane	< 2.00	ug/L		2/5/2015 19:45
1,1-Dichloroethene	< 2.00	ug/L		2/5/2015 19:45
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/5/2015 19:45
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/5/2015 19:45
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/5/2015 19:45
1,2-Dibromoethane	< 2.00	ug/L		2/5/2015 19:45
1,2-Dichlorobenzene	< 2.00	ug/L		2/5/2015 19:45
1,2-Dichloroethane	< 2.00	ug/L		2/5/2015 19:45
1,2-Dichloropropane	< 2.00	ug/L		2/5/2015 19:45
1,3-Dichlorobenzene	< 2.00	ug/L		2/5/2015 19:45
1,4-Dichlorobenzene	< 2.00	ug/L		2/5/2015 19:45
1,4-dioxane	< 20.0	ug/L		2/5/2015 19:45
2-Butanone	< 10.0	ug/L		2/5/2015 19:45
2-Hexanone	< 5.00	ug/L		2/5/2015 19:45
4-Methyl-2-pentanone	< 5.00	ug/L		2/5/2015 19:45
Acetone	< 10.0	ug/L		2/5/2015 19:45
Benzene	< 0.700	ug/L		2/5/2015 19:45
Bromochloromethane	< 5.00	ug/L		2/5/2015 19:45
Bromodichloromethane	< 2.00	ug/L		2/5/2015 19:45
Bromoform	< 5.00	ug/L		2/5/2015 19:45
Bromomethane	< 2.00	ug/L		2/5/2015 19:45
Carbon disulfide	< 2.00	ug/L		2/5/2015 19:45
Carbon Tetrachloride	< 2.00	ug/L		2/5/2015 19:45
Chlorobenzene	< 2.00	ug/L		2/5/2015 19:45

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Report Prepared Wednesday, February 18, 2015

PARADIGM

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-RW-3-PI9
Lab Sample ID: 150382-03
Matrix: Groundwater

Date Sampled: 2/3/2015
Date Received: 2/4/2015

Chloroethane	< 2.00	ug/L		2/5/2015	19:45
Chloroform	< 2.00	ug/L		2/5/2015	19:45
Chloromethane	< 2.00	ug/L		2/5/2015	19:45
cis-1,2-Dichloroethene	**1.40**	ug/L	J	2/5/2015	19:45
cis-1,3-Dichloropropene	< 2.00	ug/L		2/5/2015	19:45
Cyclohexane	< 10.0	ug/L		2/5/2015	19:45
Dibromochloromethane	< 2.00	ug/L		2/5/2015	19:45
Dichlorodifluoromethane	< 2.00	ug/L		2/5/2015	19:45
Ethylbenzene	< 2.00	ug/L		2/5/2015	19:45
Freon 113	< 2.00	ug/L		2/5/2015	19:45
Isopropylbenzene	< 2.00	ug/L		2/5/2015	19:45
m,p-Xylene	< 2.00	ug/L		2/5/2015	19:45
Methyl acetate	< 2.00	ug/L		2/5/2015	19:45
Methyl tert-butyl Ether	**3.43**	ug/L		2/5/2015	19:45
Methylcyclohexane	< 2.00	ug/L		2/5/2015	19:45
Methylene chloride	< 5.00	ug/L		2/5/2015	19:45
o-Xylene	< 2.00	ug/L		2/5/2015	19:45
Styrene	< 5.00	ug/L		2/5/2015	19:45
Tetrachloroethene	< 2.00	ug/L		2/5/2015	19:45
Toluene	< 2.00	ug/L		2/5/2015	19:45
trans-1,2-Dichloroethene	**6.02**	ug/L		2/5/2015	19:45
trans-1,3-Dichloropropene	< 2.00	ug/L		2/5/2015	19:45
Trichloroethene	< 2.00	ug/L		2/5/2015	19:45
Trichlorofluoromethane	< 2.00	ug/L		2/5/2015	19:45
Vinyl chloride	**4.14**	ug/L		2/5/2015	19:45

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PARADIGM
ENVIRONMENTAL SERVICES, INC

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-RW-3-PI9
Lab Sample ID: 150382-03 **Date Sampled:** 2/3/2015
Matrix: Groundwater **Date Received:** 2/4/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**105**	80.4 - 116		2/5/2015 19:45
4-Bromofluorobenzene	**92.6**	87 - 109		2/5/2015 19:45
Pentafluorobenzene	**103**	92.8 - 109		2/5/2015 19:45
Toluene-D8	**93.6**	92.1 - 107		2/5/2015 19:45

Method Reference(s): EPA 8260C
EPA 5030
Data File: x20344.D

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Wednesday, February 18, 2015

Quantitation Report (QT Reviewed)

Data File: C:\msdchem\1\DATA\150205\x20344.D
DataAcq Meth:8260RUN.M
Acq On : 5 Feb 2015 7:45 pm Operator: Bill Brew
Sample : 150382-03_5 Inst : Instrument #1
Misc : Water_JVASP08
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Feb 06 10:10:19 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.976	96	148592	50.00	ug/L	0.00
58) Chlorobenzene-d5	7.922	117	105523	50.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	10.457	152	54816	50.00	ug/L	0.00
System Monitoring Compounds						
27) Pentafluorobenzene	4.405	168	48388	30.84	ug/L	0.00
Spiked Amount 30.000	Range 93 - 109		Recovery = 102.80%			
31) 1,2-Dichloroethane-d4	4.672	65	23395	31.63	ug/L	0.00
Spiked Amount 30.000	Range 80 - 116		Recovery = 105.43%			
49) Toluene-D8	6.460	98	78538	28.09	ug/L	0.00
Spiked Amount 30.000	Range 92 - 107		Recovery = 93.63%			
68) 4-Bromofluorobenzene	9.181	95	27618	27.77	ug/L	0.00
Spiked Amount 30.000	Range 87 - 109		Recovery = 92.57%			
Target Compounds						Qvalue
4) Vinyl chloride	1.587	62	3969	4.14	ug/L #	55
11) Acetone	2.558	43	514	0.84	ug/L	86
18) Methyl tert-butyl Ether	3.129	73	6778	3.43	ug/L	99
19) trans-1,2-Dichloroethene	3.124	61	7950	6.02	ug/L	90
24) cis-1,2-Dichloroethene	3.962	96	1496	1.40	ug/L	98
28) Tetrahydrofuran	4.218	42	204211	865.56	ug/L	95
35) Trichloroethene	5.307	130	415	0.38	ug/L #	38

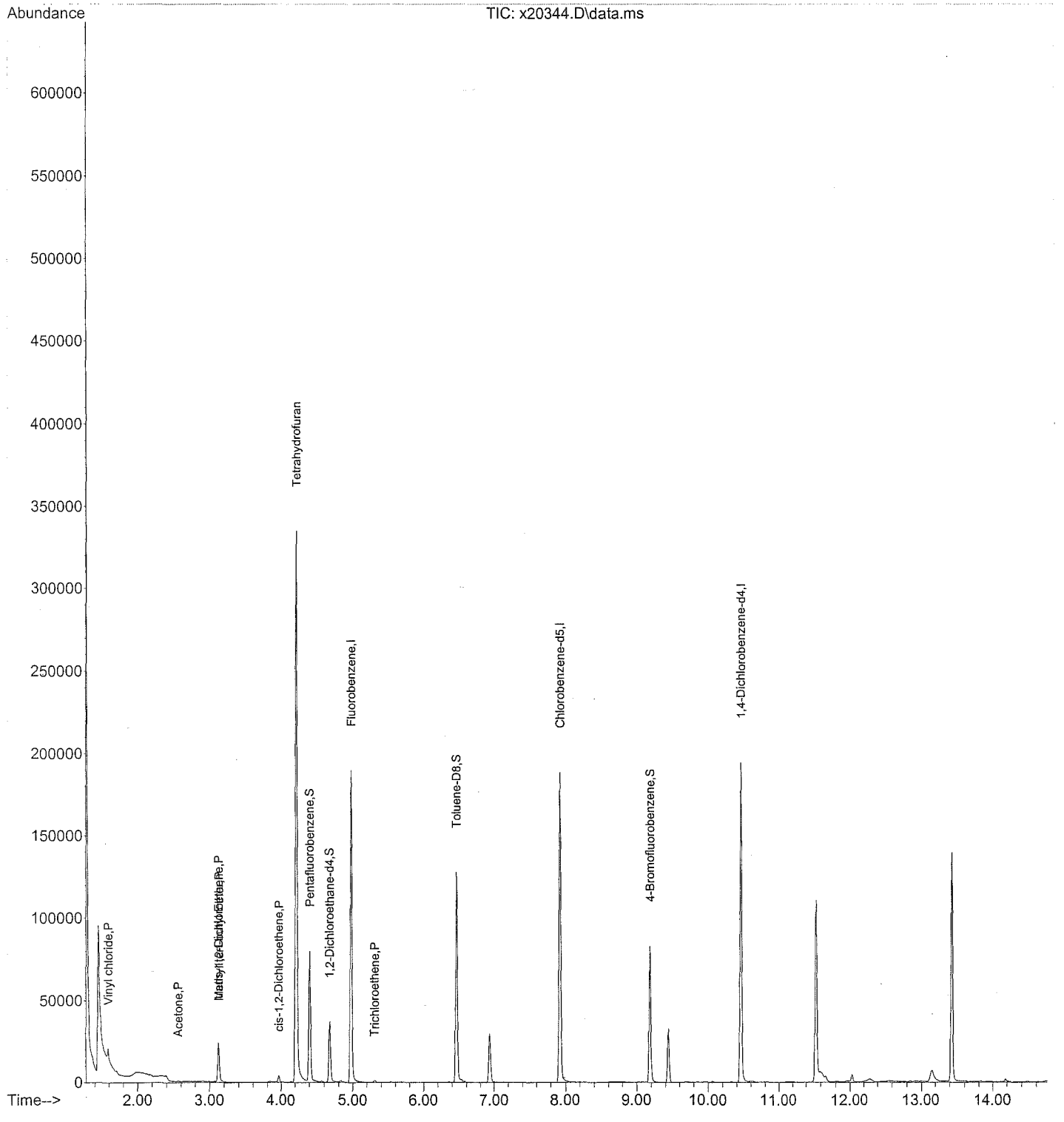
(#) = qualifier out of range (m) = manual integration (+) = signals summed

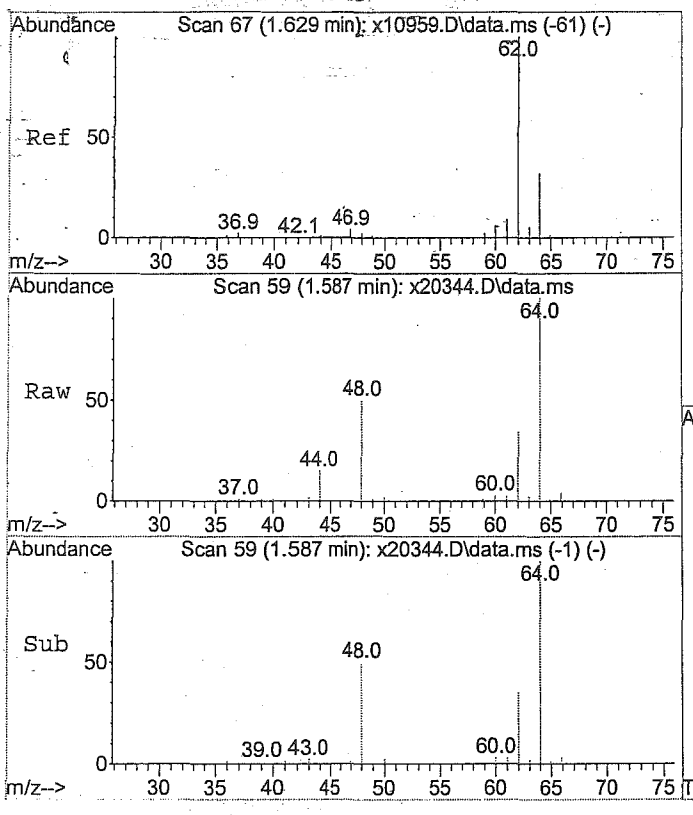
2/6/13

Quantitation Report (QT Reviewed)

Data File: C:\msdchem\1\DATA\150205\x20344.D
DataAcq Meth:8260RUN.M
Acq On : 5 Feb 2015 7:45 pm Operator: Bill Brew
Sample : 150382-03_5 Inst : Instrument #1
Misc : Water_JVASP08
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Feb 06 10:10:19 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE



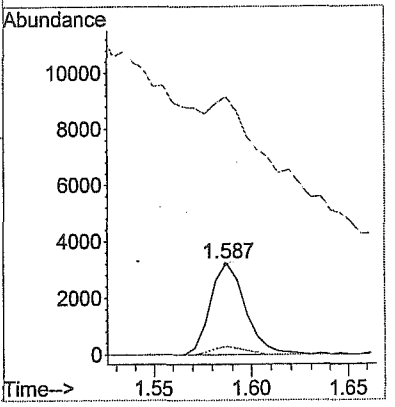


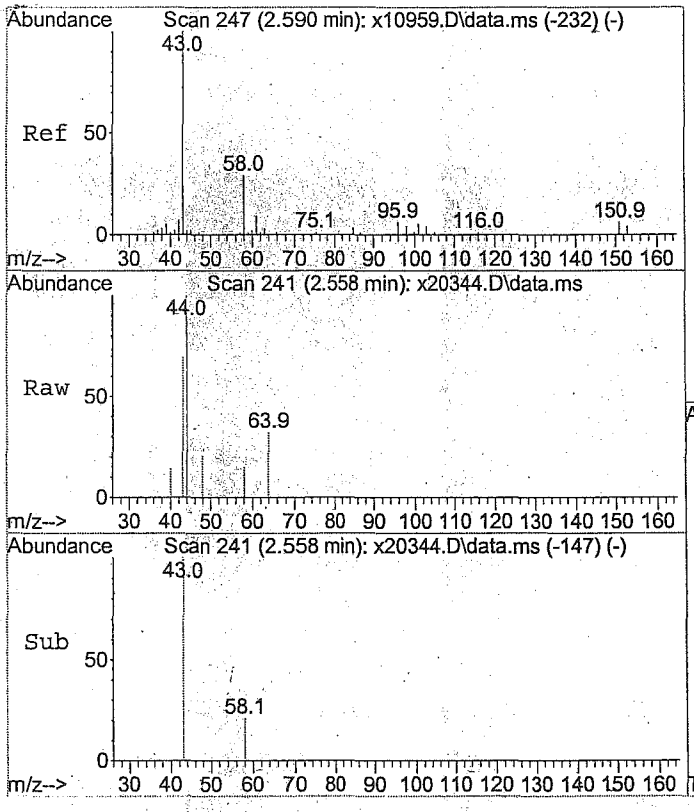
#4
Vinyl chloride
Concen: 4.14 ug/L
RT: 1.587 min Scan# 59
Delta R.T. -0.010 min
Lab File: x20344.D
Acq: 5 Feb 15 7:45 pm

Tgt Ion: 62 Resp: 3969

Ion	Ratio	Lower	Upper
62	100		
64	0.0	11.3	51.3#
61	8.2	0.0	28.3

2/6
313

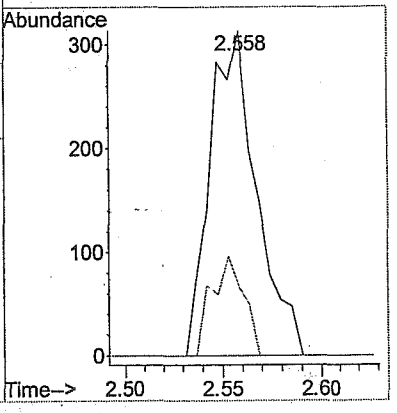


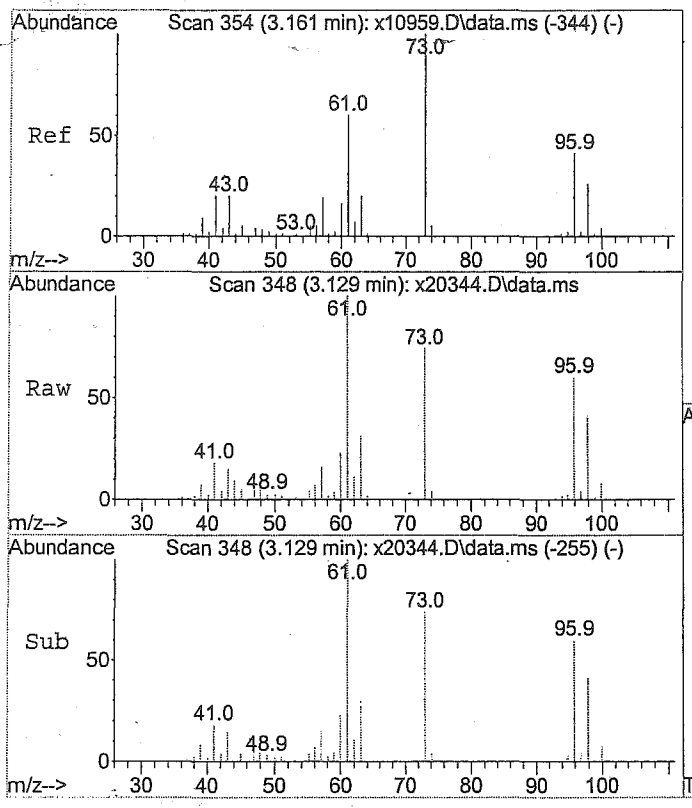


#11
Acetone
Concen: 0.84 ug/L
RT: 2.558 min Scan# 241
Delta R.T. 0.001 min
Lab File: x20344.D
Acq: 5 Feb 15 7:45 pm

Tgt Ion: 43 Resp: 514

Ion	Ratio	Lower	Upper
43	100		
58	21.2	8.8	48.8

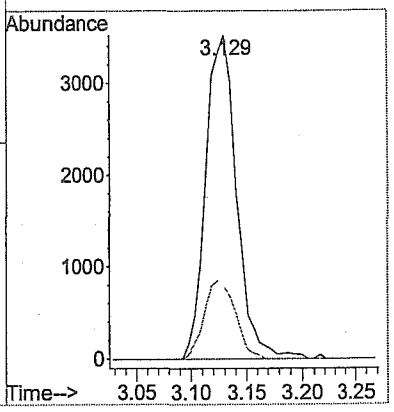


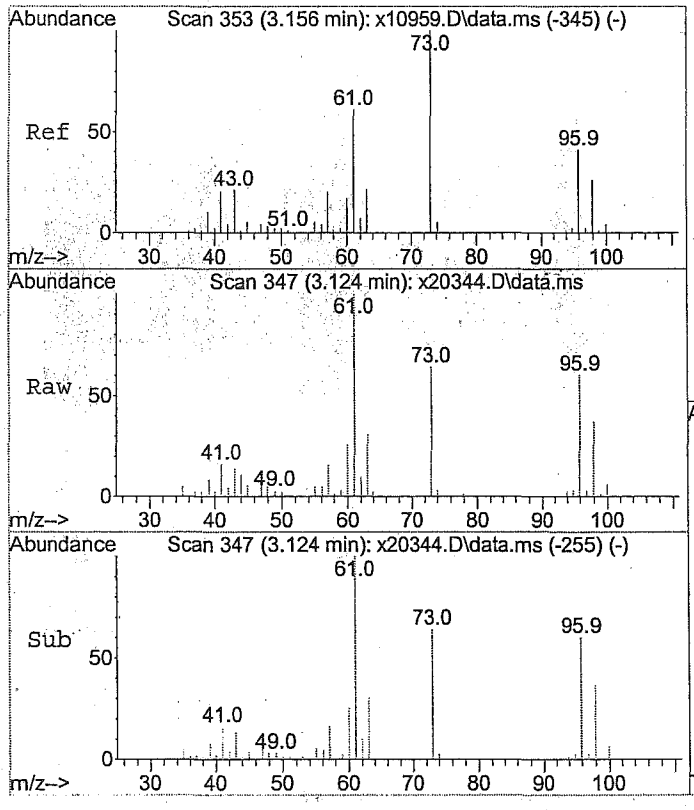


#18
Methyl tert-butyl Ether
Concen: 3.43 ug/L
RT: 3.129 min Scan# 348
Delta R.T. -0.005 min
Lab File: x20344.D
Acq: 5 Feb 15 7:45 pm

Tgt Ion: 73 Resp: 6778

Ion	Ratio	Lower	Upper
73	100		
57	24.3	4.6	44.6

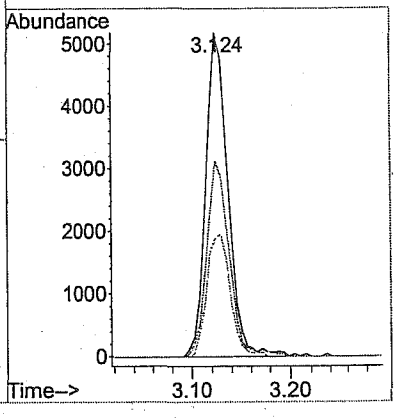


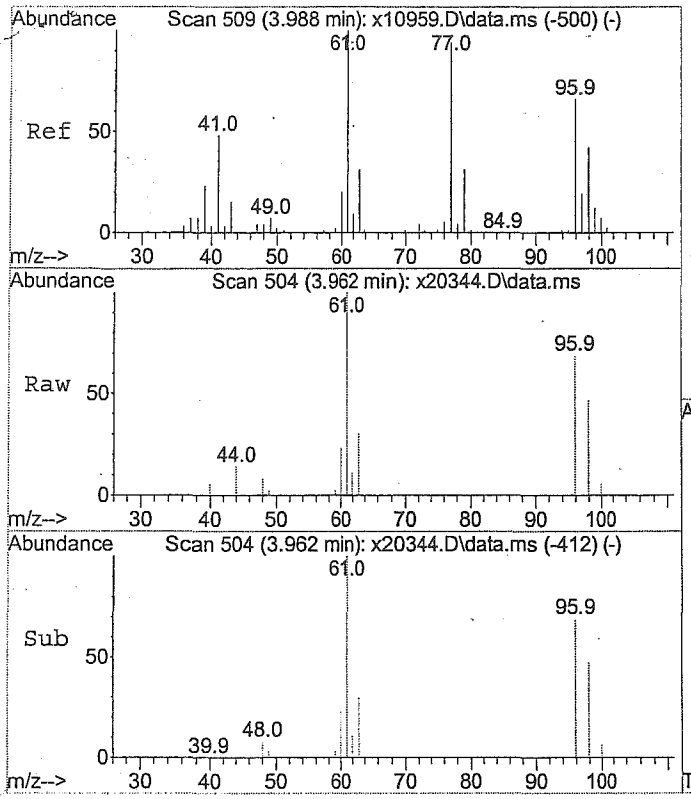


#19
trans-1,2-Dichloroethene
Concen: 6.02 ug/L
RT: 3.124 min Scan# 347
Delta R.T. -0.010 min
Lab File: x20344.D
Acq: 5 Feb 15 7:45 pm

Tgt Ion: 61 Resp: 7950

Ion	Ratio	Lower	Upper
61	100		
96	60.7	50.0	90.0
98	39.9	25.0	65.0

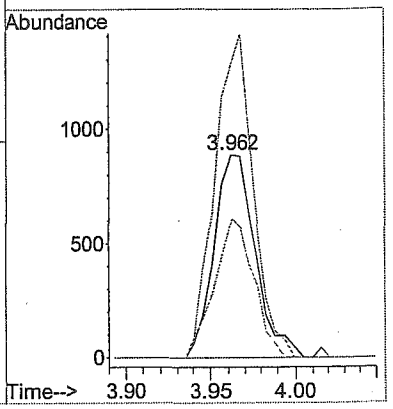


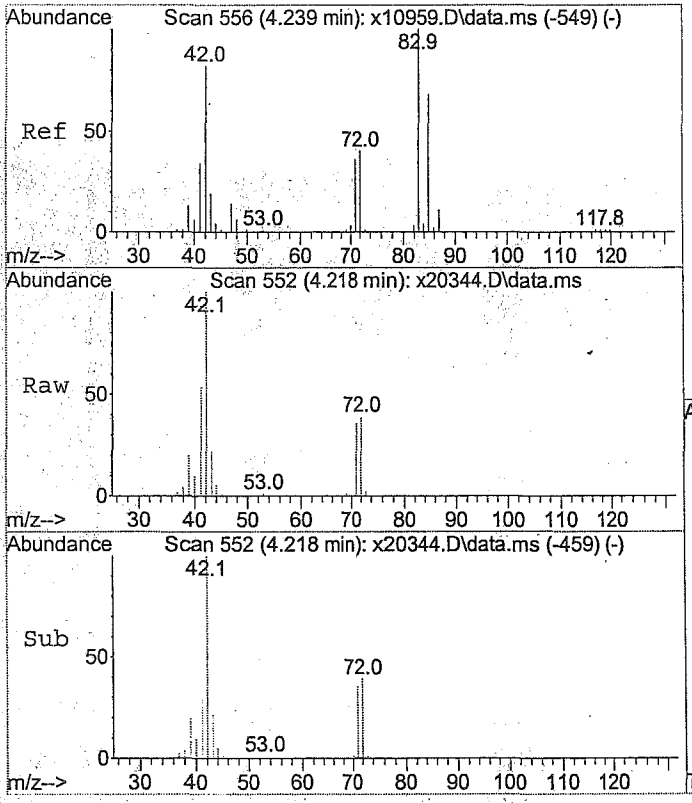


#24
cis-1,2-Dichloroethene
Concen: 1.40 ug/L
RT: 3.962 min Scan# 504
Delta R.T. -0.010 min
Lab File: x20344.D
Acq: 5 Feb 15 7:45 pm

Tgt Ion: 96 Resp: 1496

Ion	Ratio	Lower	Upper
96	100		
61	148.9	125.2	165.2
98	65.5	45.7	85.7

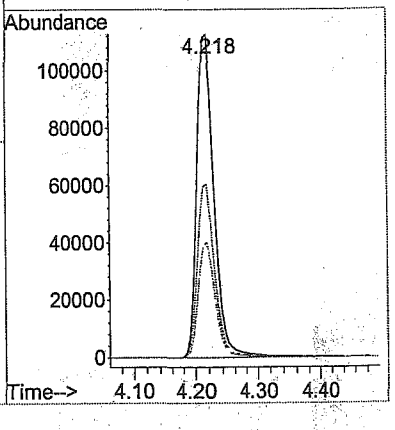




#28
Tetrahydrofuran
Concen: 865.56 ug/L
RT: 4.218 min Scan# 552
Delta R.T. -0.005 min
Lab File: x20344.D
Acq: 5 Feb 15 7:45 pm

Tgt Ion: 42 Resp: 204211

Ion	Ratio	Lower	Upper
42	100		
41	53.0	37.7	77.7
71	35.2	13.1	53.1



PARADIGM
ENVIRONMENTAL SERVICES, INC

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-RW-5-PI9
Lab Sample ID: 150382-04 **Date Sampled:** 2/3/2015
Matrix: Groundwater **Date Received:** 2/4/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/5/2015 19:21
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/5/2015 19:21
1,1,2-Trichloroethane	< 2.00	ug/L		2/5/2015 19:21
1,1-Dichloroethane	< 2.00	ug/L		2/5/2015 19:21
1,1-Dichloroethene	< 2.00	ug/L		2/5/2015 19:21
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/5/2015 19:21
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/5/2015 19:21
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/5/2015 19:21
1,2-Dibromoethane	< 2.00	ug/L		2/5/2015 19:21
1,2-Dichlorobenzene	< 2.00	ug/L		2/5/2015 19:21
1,2-Dichloroethane	< 2.00	ug/L		2/5/2015 19:21
1,2-Dichloropropane	< 2.00	ug/L		2/5/2015 19:21
1,3-Dichlorobenzene	< 2.00	ug/L		2/5/2015 19:21
1,4-Dichlorobenzene	< 2.00	ug/L		2/5/2015 19:21
1,4-dioxane	< 20.0	ug/L		2/5/2015 19:21
2-Butanone	< 10.0	ug/L		2/5/2015 19:21
2-Hexanone	< 5.00	ug/L		2/5/2015 19:21
4-Methyl-2-pentanone	< 5.00	ug/L		2/5/2015 19:21
Acetone	< 10.0	ug/L		2/5/2015 19:21
Benzene	< 0.700	ug/L		2/5/2015 19:21
Bromochloromethane	< 5.00	ug/L		2/5/2015 19:21
Bromodichloromethane	< 2.00	ug/L		2/5/2015 19:21
Bromoform	< 5.00	ug/L		2/5/2015 19:21
Bromomethane	< 2.00	ug/L		2/5/2015 19:21
Carbon disulfide	< 2.00	ug/L		2/5/2015 19:21
Carbon Tetrachloride	< 2.00	ug/L		2/5/2015 19:21
Chlorobenzene	< 2.00	ug/L		2/5/2015 19:21

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Report Prepared Wednesday, February 18, 2015

PARADIGM

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-RW-5-PI9
Lab Sample ID: 150382-04
Matrix: Groundwater
Date Sampled: 2/3/2015
Date Received: 2/4/2015

Chloroethane	< 2.00	ug/L	2/5/2015	19:21
Chloroform	< 2.00	ug/L	2/5/2015	19:21
Chloromethane	< 2.00	ug/L	2/5/2015	19:21
cis-1,2-Dichloroethene	**8.81**	ug/L	2/5/2015	19:21
cis-1,3-Dichloropropene	< 2.00	ug/L	2/5/2015	19:21
Cyclohexane	< 10.0	ug/L	2/5/2015	19:21
Dibromochloromethane	< 2.00	ug/L	2/5/2015	19:21
Dichlorodifluoromethane	< 2.00	ug/L	2/5/2015	19:21
Ethylbenzene	< 2.00	ug/L	2/5/2015	19:21
Freon 113	< 2.00	ug/L	2/5/2015	19:21
Isopropylbenzene	< 2.00	ug/L	2/5/2015	19:21
m,p-Xylene	< 2.00	ug/L	2/5/2015	19:21
Methyl acetate	< 2.00	ug/L	2/5/2015	19:21
Methyl tert-butyl Ether	< 2.00	ug/L	2/5/2015	19:21
Methylcyclohexane	< 2.00	ug/L	2/5/2015	19:21
Methylene chloride	< 5.00	ug/L	2/5/2015	19:21
o-Xylene	< 2.00	ug/L	2/5/2015	19:21
Styrene	< 5.00	ug/L	2/5/2015	19:21
Tetrachloroethene	< 2.00	ug/L	2/5/2015	19:21
Toluene	< 2.00	ug/L	2/5/2015	19:21
trans-1,2-Dichloroethene	< 2.00	ug/L	2/5/2015	19:21
trans-1,3-Dichloropropene	< 2.00	ug/L	2/5/2015	19:21
Trichloroethene	< 2.00	ug/L	2/5/2015	19:21
Trichlorofluoromethane	< 2.00	ug/L	2/5/2015	19:21
Vinyl chloride	**2.30**	ug/L	2/5/2015	19:21

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Report Prepared Wednesday, February 18, 2015

PARADIGM

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-RW-5-PI9
Lab Sample ID: 150382-04 **Date Sampled:** 2/3/2015
Matrix: Groundwater **Date Received:** 2/4/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**105**	80.4 - 116		2/5/2015 19:21
4-Bromofluorobenzene	**89.9**	87 - 109		2/5/2015 19:21
Pentafluorobenzene	**98.9**	92.8 - 109		2/5/2015 19:21
Toluene-D8	**93.4**	92.1 - 107		2/5/2015 19:21

Method Reference(s): EPA 8260C
EPA 5030
Data File: x20343.D

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Report Prepared Wednesday, February 18, 2015

Quantitation Report (Not Reviewed)

Data File: C:\msdchem\1\DATA\150205\x20343.D
DataAcq Meth:8260RUN.M
Acq On : 5 Feb 2015 7:21 pm
Sample : 150382-04_5
Misc : Water_JVASP08
ALS Vial : 23 Sample Multiplier: 1

Operator: Bill Brew
Inst : Instrument #1

Quant Time: Feb 06 06:52:47 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE

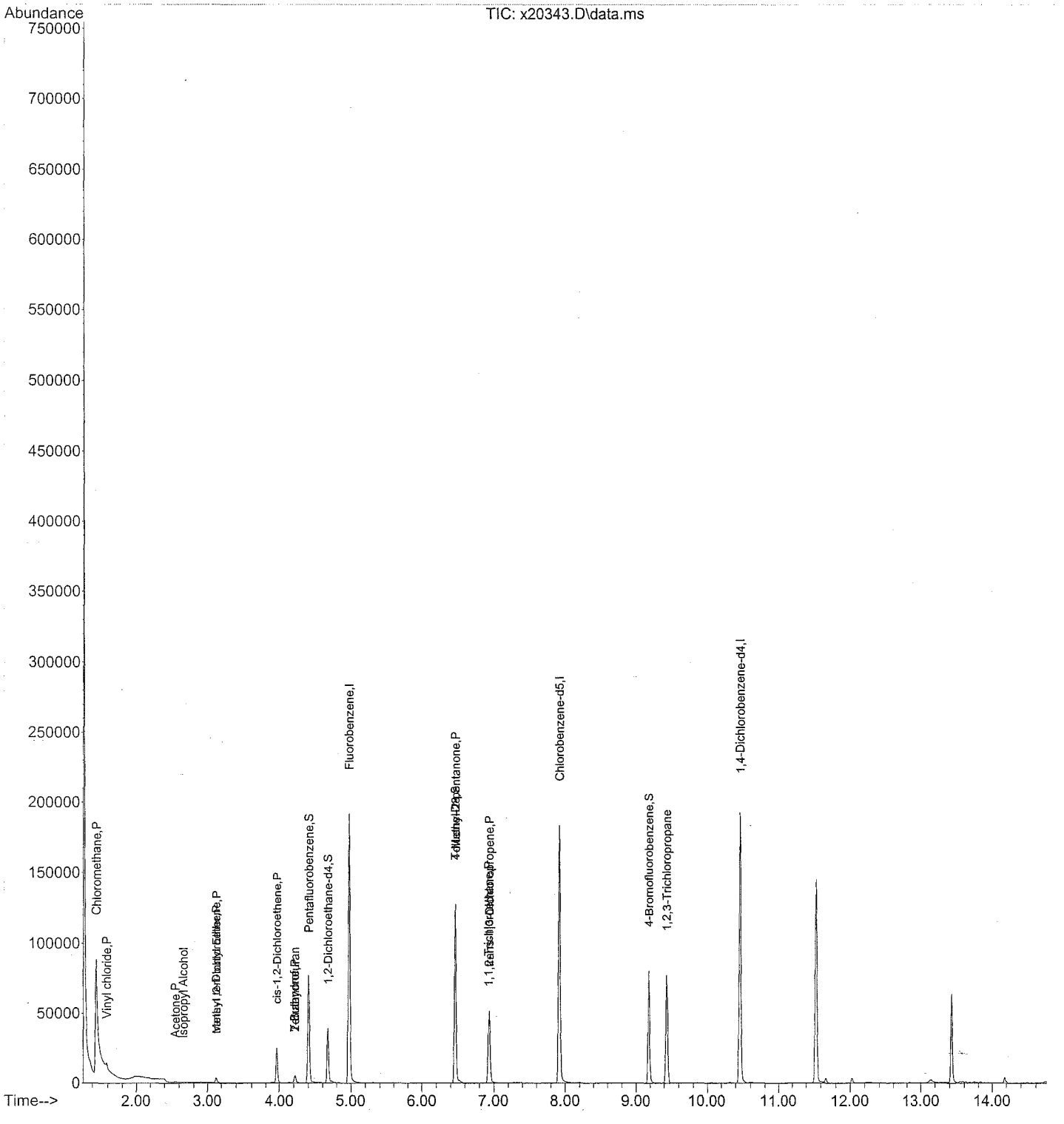
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.975	96	150219	50.00	ug/L	0.00
58) Chlorobenzene-d5	7.921	117	104596	50.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	10.461	152	54080	50.00	ug/L	0.00
System Monitoring Compounds						
27) Pentafluorobenzene	4.409	168	47068	29.68	ug/L	0.00
Spiked Amount 30.000	Range 93 - 109		Recovery = 98.93%			
31) 1,2-Dichloroethane-d4	4.676	65	23511	31.44	ug/L	0.00
Spiked Amount 30.000	Range 80 - 116		Recovery = 104.80%			
49) Toluene-D8	6.464	98	79174	28.01	ug/L	0.00
Spiked Amount 30.000	Range 92 - 107		Recovery = 93.37%			
68) 4-Bromofluorobenzene	9.180	95	26595	26.98	ug/L	0.00
Spiked Amount 30.000	Range 87 - 109		Recovery = 89.93%			
Target Compounds						Qvalue
3) Chloromethane	1.452	50	3189	2.49	ug/L # m	52
4) Vinyl chloride	1.586	62	2229	2.30	ug/L #	55
11) Acetone	2.552	43	654	1.38	ug/L	99
12) Isopropyl Alcohol	2.658	45	347	8.39	ug/L #	50
18) Methyl tert-butyl Ether	3.128	73	799	0.40	ug/L	96
19) trans-1,2-Dichloroethene	3.128	61	1099	0.82	ug/L	92
23) 2-Butanone	4.217	72	1026	10.45	ug/L #	1
24) cis-1,2-Dichloroethene	3.966	96	9488	8.81	ug/L	95
28) Tetrahydrofuran	4.217	42	2845	11.93	ug/L	98
48) 4-Methyl-2-pentanone	6.464	58	620	1.84	ug/L #	1
51) trans-1,3-Dichloropropene	6.939	75	687	0.59	ug/L #	29
52) 1,1,2-Trichloroethane	6.928	97	374	0.47	ug/L #	11
67) 1,2,3-Trichloropropane	9.436	110	615	2.14	ug/L #	14

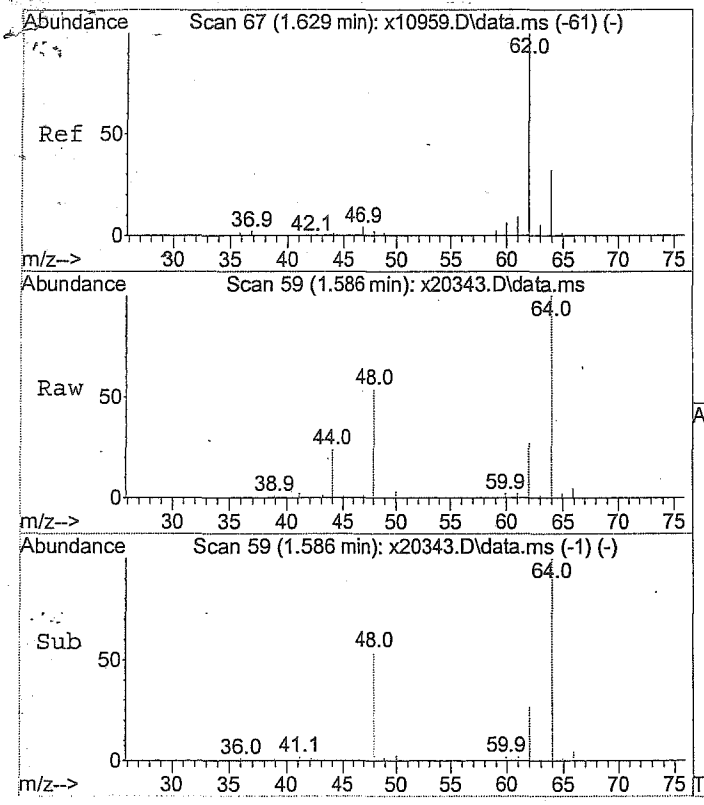
(#) = qualifier out of range (m) = manual integration (+) = signals summed

2/6/13

Data File: C:\msdchem\1\DATA\150205\x20343.D
DataAcq Meth:8260RUN.M
Acq On : 5 Feb 2015 7:21 pm Operator: Bill Brew
Sample : 150382-04_5 Inst : Instrument #1
Misc : Water_JVASP08
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 06 06:52:47 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE



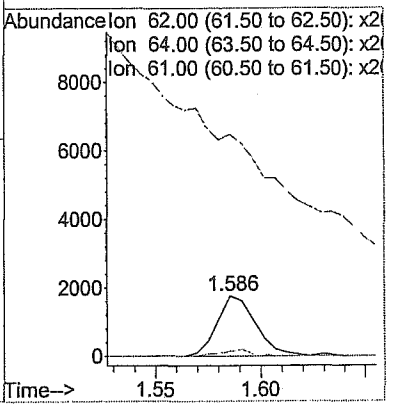


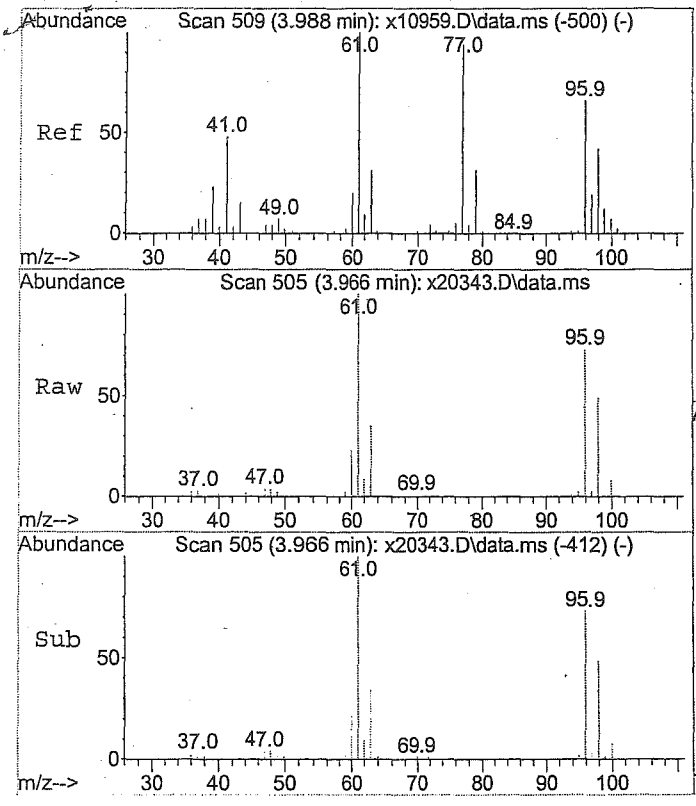
#4
Vinyl chloride
Concen: 2.30 ug/L
RT: 1.586 min Scan# 59
Delta R.T. -0.011 min
Lab File: x20343.D
Acq: 5 Feb 2015 7:21 pm

2/6 B/3

Tgt Ion: 62 Resp: 2229

Ion	Ratio	Lower	Upper
62	100		
64	0.0	11.3	51.3#
61	8.4	0.0	28.3

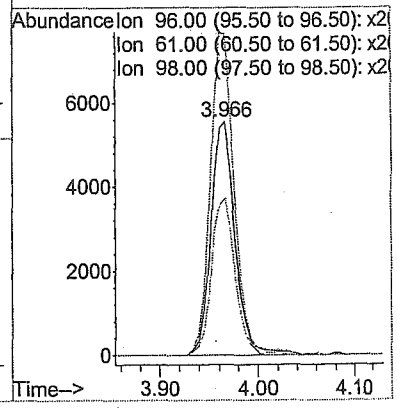




#24
cis-1,2-Dichloroethene
Concen: 8.81 ug/L
RT: 3.966 min Scan# 505
Delta R.T. -0.006 min
Lab File: x20343.D
Acq: 5 Feb 2015 7:21 pm

Tgt Ion: 96 Resp: 9488

Ion	Ratio	Lower	Upper
96	100		
61	136.0	125.2	165.2
98	65.2	45.7	85.7



PARADIGM

PARADIGM ENVIRONMENTAL SERVICES, INC

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-B102-MW-PI9
Lab Sample ID: 150382-05 **Date Sampled:** 2/3/2015
Matrix: Groundwater **Date Received:** 2/4/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/5/2015 18:57
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/5/2015 18:57
1,1,2-Trichloroethane	< 2.00	ug/L		2/5/2015 18:57
1,1-Dichloroethane	< 2.00	ug/L		2/5/2015 18:57
1,1-Dichloroethene	< 2.00	ug/L		2/5/2015 18:57
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/5/2015 18:57
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/5/2015 18:57
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/5/2015 18:57
1,2-Dibromoethane	< 2.00	ug/L		2/5/2015 18:57
1,2-Dichlorobenzene	< 2.00	ug/L		2/5/2015 18:57
1,2-Dichloroethane	< 2.00	ug/L		2/5/2015 18:57
1,2-Dichloropropane	< 2.00	ug/L		2/5/2015 18:57
1,3-Dichlorobenzene	< 2.00	ug/L		2/5/2015 18:57
1,4-Dichlorobenzene	< 2.00	ug/L		2/5/2015 18:57
1,4-dioxane	< 20.0	ug/L		2/5/2015 18:57
2-Butanone	< 10.0	ug/L		2/5/2015 18:57
2-Hexanone	< 5.00	ug/L		2/5/2015 18:57
4-Methyl-2-pentanone	< 5.00	ug/L		2/5/2015 18:57
Acetone	< 10.0	ug/L		2/5/2015 18:57
Benzene	< 0.700	ug/L		2/5/2015 18:57
Bromochloromethane	< 5.00	ug/L		2/5/2015 18:57
Bromodichloromethane	< 2.00	ug/L		2/5/2015 18:57
Bromoform	< 5.00	ug/L		2/5/2015 18:57
Bromomethane	< 2.00	ug/L		2/5/2015 18:57
Carbon disulfide	< 2.00	ug/L		2/5/2015 18:57
Carbon Tetrachloride	< 2.00	ug/L		2/5/2015 18:57
Chlorobenzene	< 2.00	ug/L		2/5/2015 18:57

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Report Prepared Wednesday, February 18, 2015

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-B102-MW-PI9
Lab Sample ID: 150382-05 **Date Sampled:** 2/3/2015
Matrix: Groundwater **Date Received:** 2/4/2015

Chloroethane	< 2.00	ug/L	2/5/2015	18:57
Chloroform	< 2.00	ug/L	2/5/2015	18:57
Chloromethane	< 2.00	ug/L	2/5/2015	18:57
cis-1,2-Dichloroethene	< 2.00	ug/L	2/5/2015	18:57
cis-1,3-Dichloropropene	< 2.00	ug/L	2/5/2015	18:57
Cyclohexane	< 10.0	ug/L	2/5/2015	18:57
Dibromochloromethane	< 2.00	ug/L	2/5/2015	18:57
Dichlorodifluoromethane	< 2.00	ug/L	2/5/2015	18:57
Ethylbenzene	< 2.00	ug/L	2/5/2015	18:57
Freon 113	< 2.00	ug/L	2/5/2015	18:57
Isopropylbenzene	< 2.00	ug/L	2/5/2015	18:57
m,p-Xylene	< 2.00	ug/L	2/5/2015	18:57
Methyl acetate	< 2.00	ug/L	2/5/2015	18:57
Methyl tert-butyl Ether	< 2.00	ug/L	2/5/2015	18:57
Methylcyclohexane	< 2.00	ug/L	2/5/2015	18:57
Methylene chloride	< 5.00	ug/L	2/5/2015	18:57
o-Xylene	< 2.00	ug/L	2/5/2015	18:57
Styrene	< 5.00	ug/L	2/5/2015	18:57
Tetrachloroethene	< 2.00	ug/L	2/5/2015	18:57
Toluene	< 2.00	ug/L	2/5/2015	18:57
trans-1,2-Dichloroethene	< 2.00	ug/L	2/5/2015	18:57
trans-1,3-Dichloropropene	< 2.00	ug/L	2/5/2015	18:57
Trichloroethene	< 2.00	ug/L	2/5/2015	18:57
Trichlorofluoromethane	< 2.00	ug/L	2/5/2015	18:57
Vinyl chloride	**11.7**	ug/L	2/5/2015	18:57

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Report Prepared Wednesday, February 18, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-B102-MW-PI9
Lab Sample ID: 150382-05 **Date Sampled:** 2/3/2015
Matrix: Groundwater **Date Received:** 2/4/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**104**	80.4 - 116		2/5/2015	18:57
4-Bromofluorobenzene	**93.6**	87 - 109		2/5/2015	18:57
Pentafluorobenzene	**97.5**	92.8 - 109		2/5/2015	18:57
Toluene-D8	**94.0**	92.1 - 107		2/5/2015	18:57

Method Reference(s): EPA 8260C
EPA 5030
Data File: x20342.D

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Report Prepared Wednesday, February 18, 2015

Quantitation Report (Not Reviewed)

Data File: C:\msdchem\1\DATA\150205\x20342.D
DataAcq Meth:8260RUN.M
Acq On : 5 Feb 2015 6:57 pm Operator: Bill Brew
Sample : 150382-05_5 Inst : Instrument #1
Misc : Water_JVASP08
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 06 06:52:43 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.976	96	151661	50.00	ug/L	0.00
58) Chlorobenzene-d5	7.922	117	107059	50.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	10.457	152	56168	50.00	ug/L	0.00
System Monitoring Compounds						
27) Pentafluorobenzene	4.405	168	46837	29.25	ug/L	0.00
Spiked Amount 30.000	Range 93 - 109		Recovery = 97.50%			
31) 1,2-Dichloroethane-d4	4.672	65	23653	31.33	ug/L	0.00
Spiked Amount 30.000	Range 80 - 116		Recovery = 104.43%			
49) Toluene-D8	6.465	98	80452	28.19	ug/L	0.00
Spiked Amount 30.000	Range 92 - 107		Recovery = 93.97%			
68) 4-Bromofluorobenzene	9.182	95	28333	28.08	ug/L	0.00
Spiked Amount 30.000	Range 87 - 109		Recovery = 93.60%			
Target Compounds						Qvalue
4) Vinyl chloride	1.588	62	11487	11.74	ug/L	# 1
11) Acetone	2.559	43	469	0.62	ug/L	10 97
19) trans-1,2-Dichloroethene	3.125	61	596	0.44	ug/L	2 92
23) 2-Butanone	4.219	72	896	9.04	ug/L	#m 1
24) cis-1,2-Dichloroethene	3.962	96	599	0.55	ug/L	2 97
28) Tetrahydrofuran	4.219	42	2658	11.04	ug/L	NT 97
48) 4-Methyl-2-pentanone	6.460	58	654	1.92	ug/L	#m 1
51) trans-1,3-Dichloropropene	6.940	75	595	0.50	ug/L	# 29
67) 1,2,3-Trichloropropane	9.433	110	500	1.70	ug/L	# 7

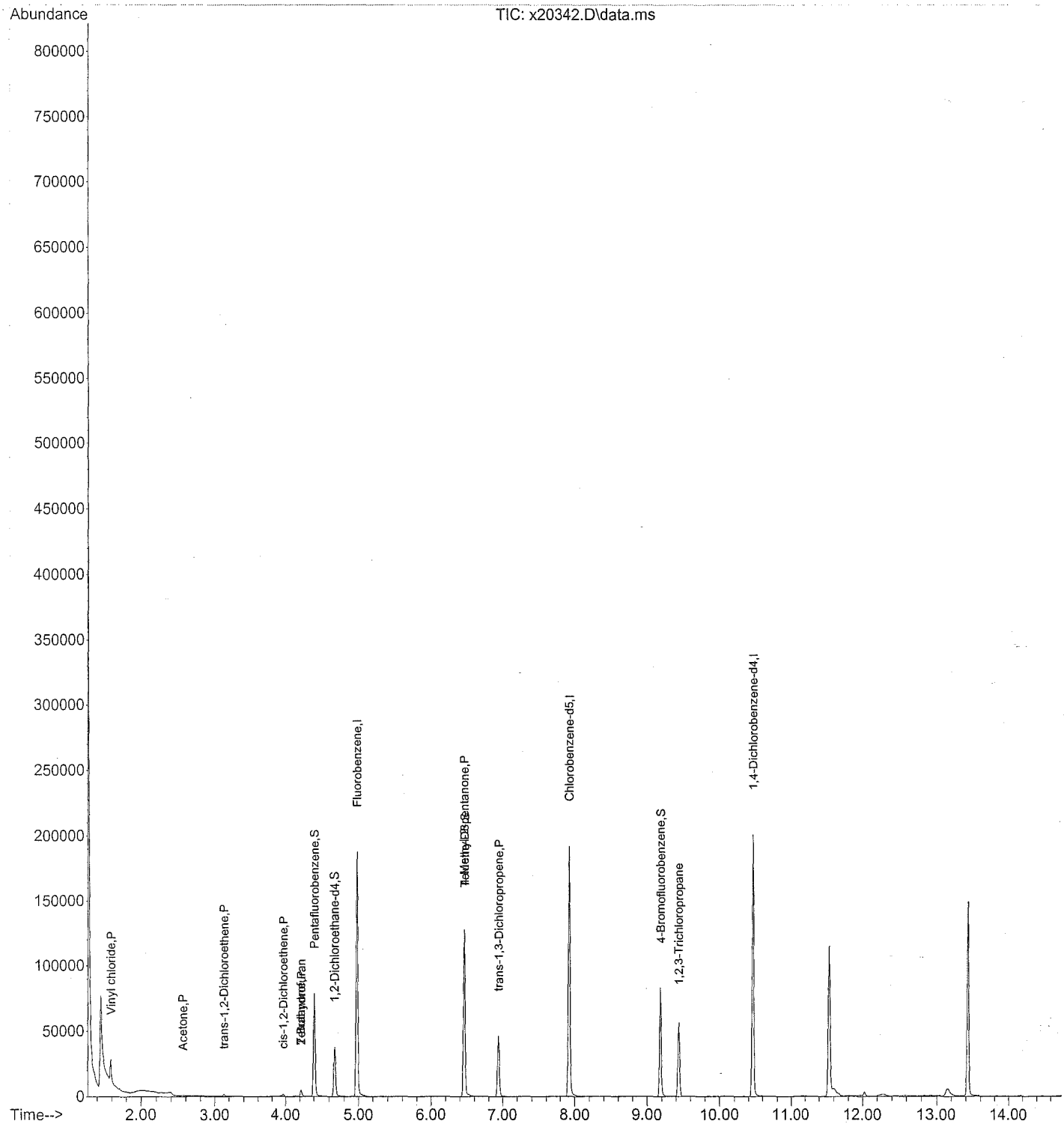
(#) = qualifier out of range (m) = manual integration (+) = signals summed

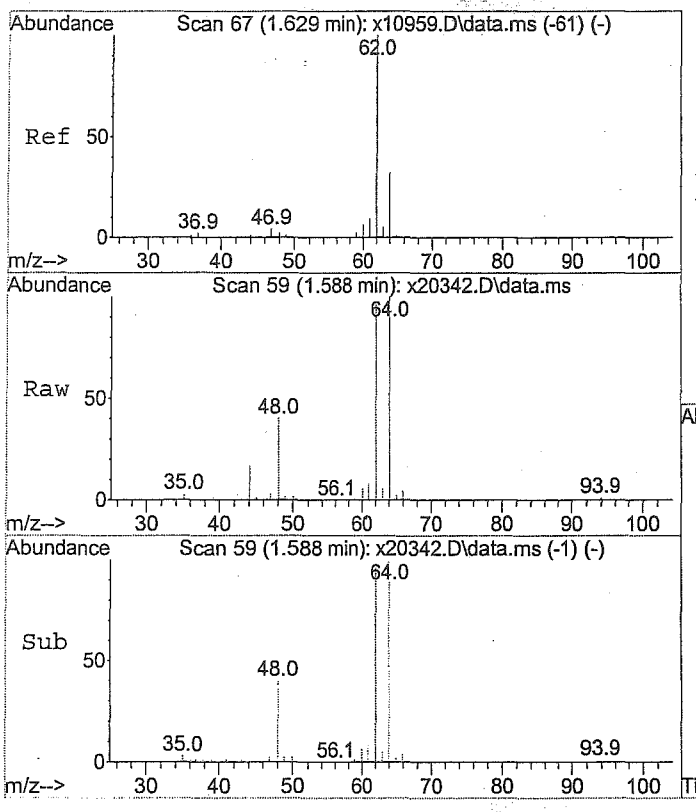
2/6 BB

Quantitation Report (Not Reviewed)

Data File: C:\msdchem\1\DATA\150205\x20342.D
DataAcq Meth:8260RUN.M
Acq On : 5 Feb 2015 6:57 pm Operator: Bill Brew
Sample : 150382-05_5 Inst : Instrument #1
Misc : Water_JVASP08
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 06 06:52:43 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE

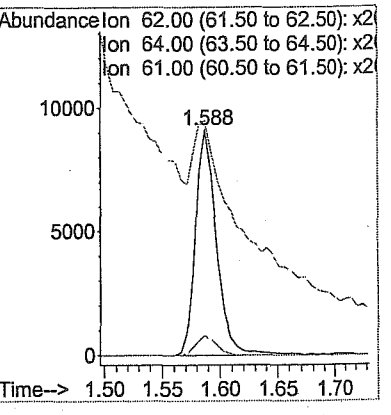




#4
Vinyl chloride
Concen: 11.74 ug/L
RT: 1.588 min Scan# 59
Delta R.T. -0.010 min
Lab File: x20342.D
Acq: 5 Feb 2015 6:57 pm

Tgt Ion: 62 Resp: 11487

Ion	Ratio	Lower	Upper
62	100		
64	311.0	11.3	51.3#
61	8.4	0.0	28.3



2/6 BB

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier:	LI-B106-MW-PI9		
Lab Sample ID:	150382-06	**Date Sampled:**	2/3/2015
Matrix:	Groundwater	**Date Received:**	2/4/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/5/2015 18:34
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/5/2015 18:34
1,1,2-Trichloroethane	< 2.00	ug/L		2/5/2015 18:34
1,1-Dichloroethane	< 2.00	ug/L		2/5/2015 18:34
1,1-Dichloroethene	< 2.00	ug/L		2/5/2015 18:34
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/5/2015 18:34
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/5/2015 18:34
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/5/2015 18:34
1,2-Dibromoethane	< 2.00	ug/L		2/5/2015 18:34
1,2-Dichlorobenzene	< 2.00	ug/L		2/5/2015 18:34
1,2-Dichloroethane	< 2.00	ug/L		2/5/2015 18:34
1,2-Dichloropropane	< 2.00	ug/L		2/5/2015 18:34
1,3-Dichlorobenzene	< 2.00	ug/L		2/5/2015 18:34
1,4-Dichlorobenzene	< 2.00	ug/L		2/5/2015 18:34
1,4-dioxane	< 20.0	ug/L		2/5/2015 18:34
2-Butanone	< 10.0	ug/L		2/5/2015 18:34
2-Hexanone	< 5.00	ug/L		2/5/2015 18:34
4-Methyl-2-pentanone	< 5.00	ug/L		2/5/2015 18:34
Acetone	< 10.0	ug/L		2/5/2015 18:34
Benzene	< 0.700	ug/L		2/5/2015 18:34
Bromochloromethane	< 5.00	ug/L		2/5/2015 18:34
Bromodichloromethane	< 2.00	ug/L		2/5/2015 18:34
Bromoform	< 5.00	ug/L		2/5/2015 18:34
Bromomethane	< 2.00	ug/L		2/5/2015 18:34
Carbon disulfide	< 2.00	ug/L		2/5/2015 18:34
Carbon Tetrachloride	< 2.00	ug/L		2/5/2015 18:34
Chlorobenzene	< 2.00	ug/L		2/5/2015 18:34

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-B106-MW-PI9
Lab Sample ID: 150382-06 **Date Sampled:** 2/3/2015
Matrix: Groundwater **Date Received:** 2/4/2015

Chloroethane	< 2.00	ug/L	2/5/2015 18:34
Chloroform	< 2.00	ug/L	2/5/2015 18:34
Chloromethane	< 2.00	ug/L	2/5/2015 18:34
cis-1,2-Dichloroethene	**26.0**	ug/L	2/5/2015 18:34
cis-1,3-Dichloropropene	< 2.00	ug/L	2/5/2015 18:34
Cyclohexane	< 10.0	ug/L	2/5/2015 18:34
Dibromochloromethane	< 2.00	ug/L	2/5/2015 18:34
Dichlorodifluoromethane	< 2.00	ug/L	2/5/2015 18:34
Ethylbenzene	< 2.00	ug/L	2/5/2015 18:34
Freon 113	< 2.00	ug/L	2/5/2015 18:34
Isopropylbenzene	< 2.00	ug/L	2/5/2015 18:34
m,p-Xylene	< 2.00	ug/L	2/5/2015 18:34
Methyl acetate	< 2.00	ug/L	2/5/2015 18:34
Methyl tert-butyl Ether	< 2.00	ug/L	2/5/2015 18:34
Methylcyclohexane	< 2.00	ug/L	2/5/2015 18:34
Methylene chloride	< 5.00	ug/L	2/5/2015 18:34
o-Xylene	< 2.00	ug/L	2/5/2015 18:34
Styrene	< 5.00	ug/L	2/5/2015 18:34
Tetrachloroethene	< 2.00	ug/L	2/5/2015 18:34
Toluene	< 2.00	ug/L	2/5/2015 18:34
trans-1,2-Dichloroethene	< 2.00	ug/L	2/5/2015 18:34
trans-1,3-Dichloropropene	< 2.00	ug/L	2/5/2015 18:34
Trichloroethene	< 2.00	ug/L	2/5/2015 18:34
Trichlorofluoromethane	< 2.00	ug/L	2/5/2015 18:34
Vinyl chloride	**12.8**	ug/L	2/5/2015 18:34

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Report Prepared Wednesday, February 18, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-B106-MW-PI9
Lab Sample ID: 150382-06 **Date Sampled:** 2/3/2015
Matrix: Groundwater **Date Received:** 2/4/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**106**	80.4 - 116		2/5/2015 18:34
4-Bromofluorobenzene	**94.2**	87 - 109		2/5/2015 18:34
Pentafluorobenzene	**100**	92.8 - 109		2/5/2015 18:34
Toluene-D8	**94.7**	92.1 - 107		2/5/2015 18:34

Method Reference(s): EPA 8260C
EPA 5030
Data File: x20341.D

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Wednesday, February 18, 2015

Quantitation Report (Not Reviewed)

Data File: C:\msdchem\1\DATA\150205\x20341.D
DataAcq Meth:8260RUN.M
Acq On : 5 Feb 2015 6:34 pm Operator: Bill Brew
Sample : 150382-06_5 Inst : Instrument #1
Misc : Water_JVASP08
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 06 06:52:40 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.975	96	143652	50.00	ug/L	0.00
58) Chlorobenzene-d5	7.921	117	102301	50.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	10.461	152	53338	50.00	ug/L	0.00
System Monitoring Compounds						
27) Pentafluorobenzene	4.409	168	45690	30.12	ug/L	0.00
Spiked Amount 30.000	Range 93 - 109		Recovery = 100.40%			
31) 1,2-Dichloroethane-d4	4.676	65	22715	31.76	ug/L	0.00
Spiked Amount 30.000	Range 80 - 116		Recovery = 105.87%			
49) Toluene-D8	6.464	98	76760	28.40	ug/L	0.00
Spiked Amount 30.000	Range 92 - 107		Recovery = 94.67%			
68) 4-Bromofluorobenzene	9.180	95	27252	28.26	ug/L	0.00
Spiked Amount 30.000	Range 87 - 109		Recovery = 94.20%			
Target Compounds						Qvalue
4) Vinyl chloride	1.586	62	11860	12.80	ug/L #	22
11) Acetone	2.557	43	586	1.22	ug/L	86
14) Methyl acetate	2.915	43	959	2.21	ug/L	56
19) trans-1,2-Dichloroethene	3.128	61	910	0.71	ug/L	85
23) 2-Butanone	3.961	72	232	2.47	ug/L	1
24) cis-1,2-Dichloroethene	3.966	96	26744	25.96	ug/L	98
28) Tetrahydrofuran	4.217	42	3974	17.42	ug/L	94
30) Cyclohexane	4.457	56	2083	1.08	ug/L #	80
35) Trichloroethene	5.311	130	456	0.43	ug/L	86
37) Methylcyclohexane	5.487	83	989	0.58	ug/L #	82
48) 4-Methyl-2-pentanone	6.458	58	669	2.08	ug/L	1
51) trans-1,3-Dichloropropene	6.939	75	667	0.59	ug/L #	29
67) 1,2,3-Trichloropropane	9.442	110	726	2.59	ug/L #	10

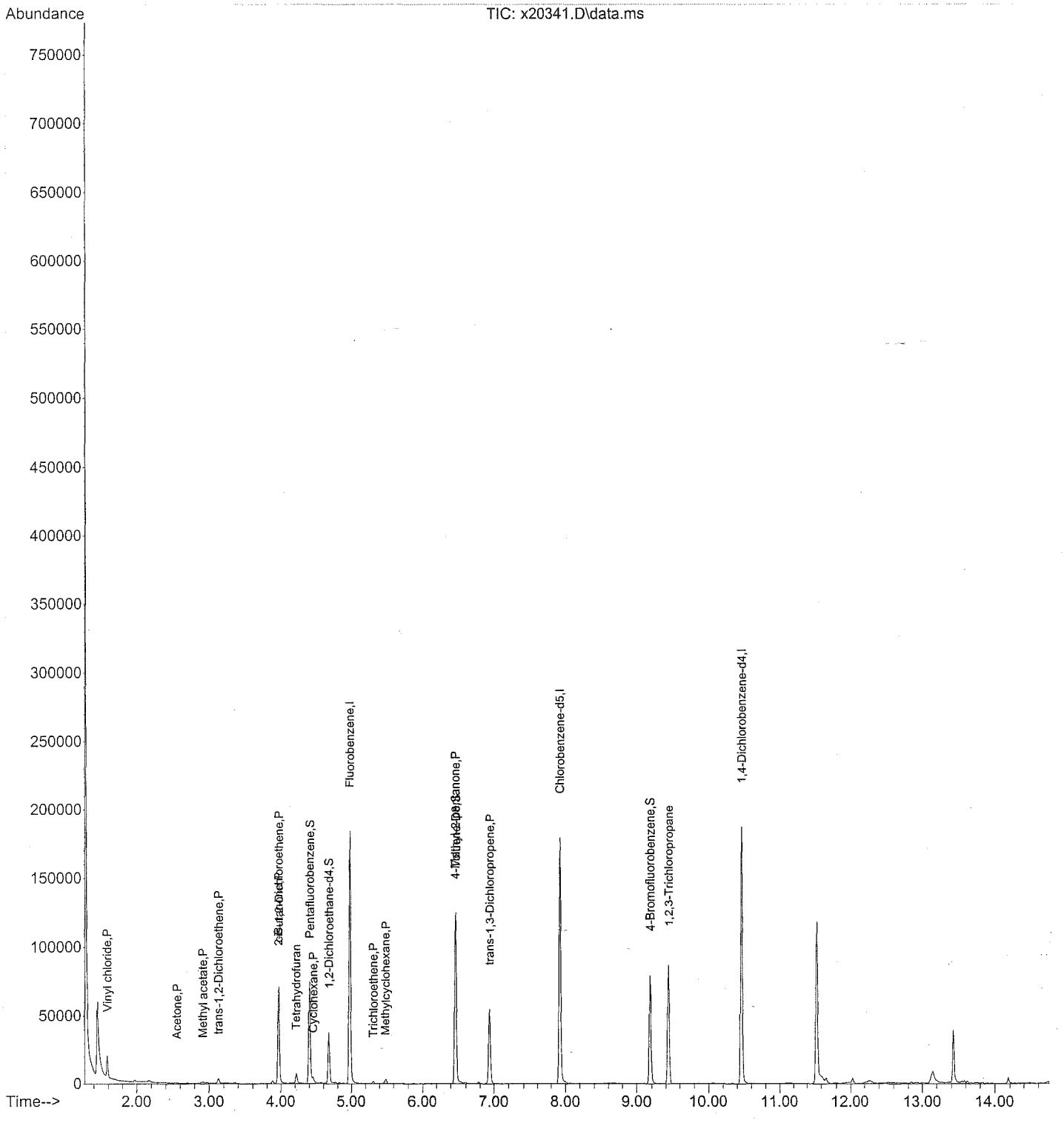
(#) = qualifier out of range (m) = manual integration (+) = signals summed

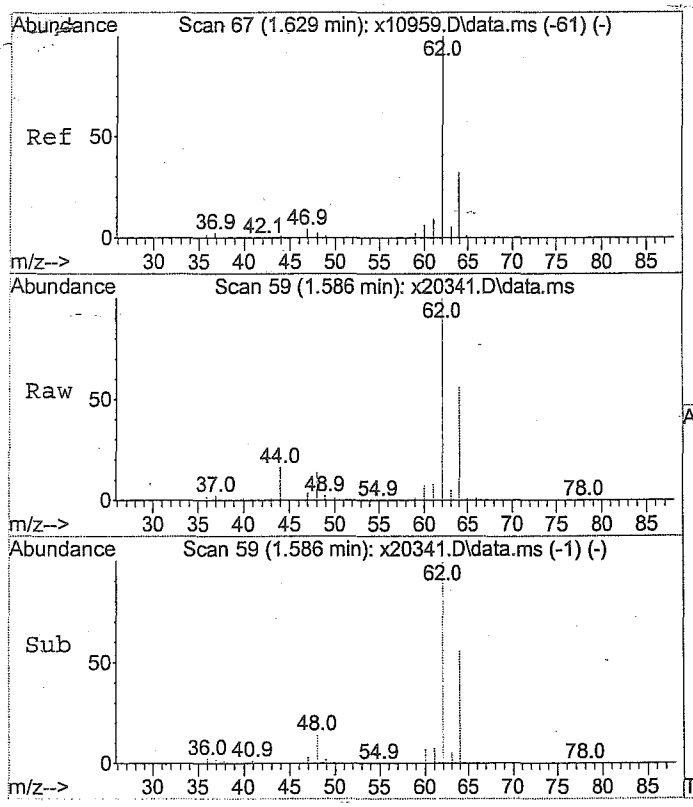
2/6/15

Quantitation Report (Not Reviewed)

Data File: C:\msdchem\1\DATA\150205\x20341.D
DataAcq Meth:8260RUN.M
Acq On : 5 Feb 2015 6:34 pm Operator: Bill Brew
Sample : 150382-06_5 Inst : Instrument #1
Misc : Water_JVASP08
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 06 06:52:40 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE



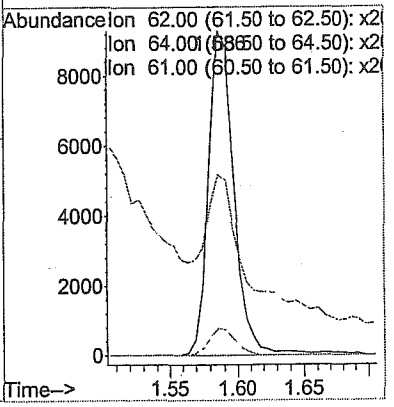


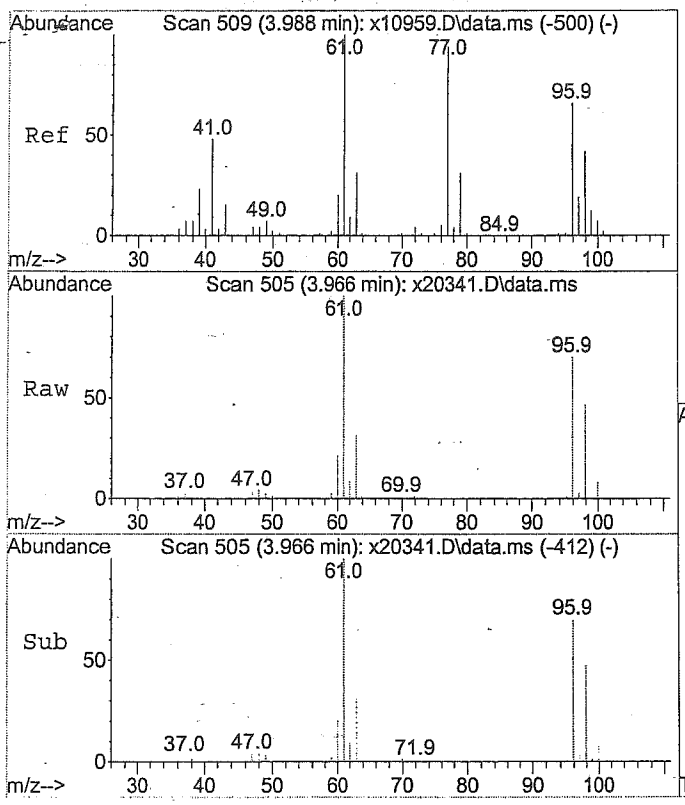
#4
Vinyl chloride
Concen: 12.80 ug/L
RT: 1.586 min Scan# 59
Delta R.T. -0.011 min
Lab File: x20341.D
Acq: 5 Feb 2015 6:34 pm

2/6 B3

Tgt Ion: 62 Resp: 11860

Ion	Ratio	Lower	Upper
62	100		
64	85.7	11.3	51.3#
61	8.6	0.0	28.3

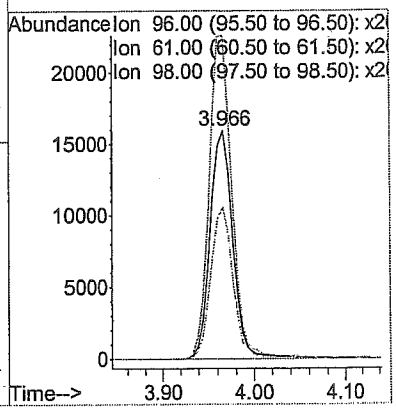




#24
cis-1,2-Dichloroethene
Concen: 25.96 ug/L
RT: 3.966 min Scan# 505
Delta R.T. -0.006 min
Lab File: x20341.D
Acq: 5 Feb 2015 6:34 pm

Tgt Ion: 96 Resp: 26744

Ion	Ratio	Lower	Upper
96	100		
61	142.6	125.2	165.2
98	64.6	45.7	85.7



PARADIGM

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier:	LI-B108-MW-PI9		
Lab Sample ID:	150382-07	**Date Sampled:**	2/3/2015
Matrix:	Groundwater	**Date Received:**	2/4/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/5/2015 20:55
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/5/2015 20:55
1,1,2-Trichloroethane	< 2.00	ug/L		2/5/2015 20:55
1,1-Dichloroethane	< 2.00	ug/L		2/5/2015 20:55
1,1-Dichloroethene	< 2.00	ug/L		2/5/2015 20:55
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/5/2015 20:55
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/5/2015 20:55
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/5/2015 20:55
1,2-Dibromoethane	< 2.00	ug/L		2/5/2015 20:55
1,2-Dichlorobenzene	< 2.00	ug/L		2/5/2015 20:55
1,2-Dichloroethane	< 2.00	ug/L		2/5/2015 20:55
1,2-Dichloropropane	< 2.00	ug/L		2/5/2015 20:55
1,3-Dichlorobenzene	< 2.00	ug/L		2/5/2015 20:55
1,4-Dichlorobenzene	< 2.00	ug/L		2/5/2015 20:55
1,4-dioxane	< 20.0	ug/L		2/5/2015 20:55
2-Butanone	**23.0**	ug/L		2/5/2015 20:55
2-Hexanone	< 5.00	ug/L		2/5/2015 20:55
4-Methyl-2-pentanone	< 5.00	ug/L		2/5/2015 20:55
Acetone	**6.51**	ug/L	J	2/5/2015 20:55
Benzene	< 0.700	ug/L		2/5/2015 20:55
Bromochloromethane	< 5.00	ug/L		2/5/2015 20:55
Bromodichloromethane	< 2.00	ug/L		2/5/2015 20:55
Bromoform	< 5.00	ug/L		2/5/2015 20:55
Bromomethane	< 2.00	ug/L		2/5/2015 20:55
Carbon disulfide	< 2.00	ug/L		2/5/2015 20:55
Carbon Tetrachloride	< 2.00	ug/L		2/5/2015 20:55
Chlorobenzene	< 2.00	ug/L		2/5/2015 20:55

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PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier:	LI-B108-MW-PI9		
Lab Sample ID:	150382-07	**Date Sampled:**	2/3/2015
Matrix:	Groundwater	**Date Received:**	2/4/2015

Chloroethane	< 2.00	ug/L		2/5/2015	20:55
Chloroform	< 2.00	ug/L		2/5/2015	20:55
Chloromethane	< 2.00	ug/L		2/5/2015	20:55
cis-1,2-Dichloroethene	**1.87**	ug/L	J	2/5/2015	20:55
cis-1,3-Dichloropropene	< 2.00	ug/L		2/5/2015	20:55
Cyclohexane	< 10.0	ug/L		2/5/2015	20:55
Dibromochloromethane	< 2.00	ug/L		2/5/2015	20:55
Dichlorodifluoromethane	< 2.00	ug/L		2/5/2015	20:55
Ethylbenzene	< 2.00	ug/L		2/5/2015	20:55
Freon 113	< 2.00	ug/L		2/5/2015	20:55
Isopropylbenzene	< 2.00	ug/L		2/5/2015	20:55
m,p-Xylene	< 2.00	ug/L		2/5/2015	20:55
Methyl acetate	< 2.00	ug/L		2/5/2015	20:55
Methyl tert-butyl Ether	< 2.00	ug/L		2/5/2015	20:55
Methylcyclohexane	< 2.00	ug/L		2/5/2015	20:55
Methylene chloride	< 5.00	ug/L		2/5/2015	20:55
o-Xylene	< 2.00	ug/L		2/5/2015	20:55
Styrene	< 5.00	ug/L		2/5/2015	20:55
Tetrachloroethene	**6.73**	ug/L		2/5/2015	20:55
Toluene	< 2.00	ug/L		2/5/2015	20:55
trans-1,2-Dichloroethene	**1.42**	ug/L	J	2/5/2015	20:55
trans-1,3-Dichloropropene	< 2.00	ug/L		2/5/2015	20:55
Trichloroethene	**2.93**	ug/L		2/5/2015	20:55
Trichlorofluoromethane	< 2.00	ug/L		2/5/2015	20:55
Vinyl chloride	< 2.00	ug/L		2/5/2015	20:55

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PARADIGM

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-B108-MW-PI9
Lab Sample ID: 150382-07 **Date Sampled:** 2/3/2015
Matrix: Groundwater **Date Received:** 2/4/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**103**	80.4 - 116		2/5/2015	20:55
4-Bromofluorobenzene	**98.8**	87 - 109		2/5/2015	20:55
Pentafluorobenzene	**101**	92.8 - 109		2/5/2015	20:55
Toluene-D8	**92.4**	92.1 - 107		2/5/2015	20:55

Method Reference(s): EPA 8260C
EPA 5030
Data File: x20347.D

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Wednesday, February 18, 2015

Quantitation Report (Not Reviewed)

Data File: C:\msdchem\1\DATA\150205\x20347.D
DataAcq Meth:8260RUN.M
Acq On : 5 Feb 2015 8:55 pm
Sample : 150382-07_5
Misc : Water_JVASP08
ALS Vial : 27 Sample Multiplier: 1

Operator: Bill Brew
Inst : Instrument #1

Quant Time: Feb 06 06:52:59 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE

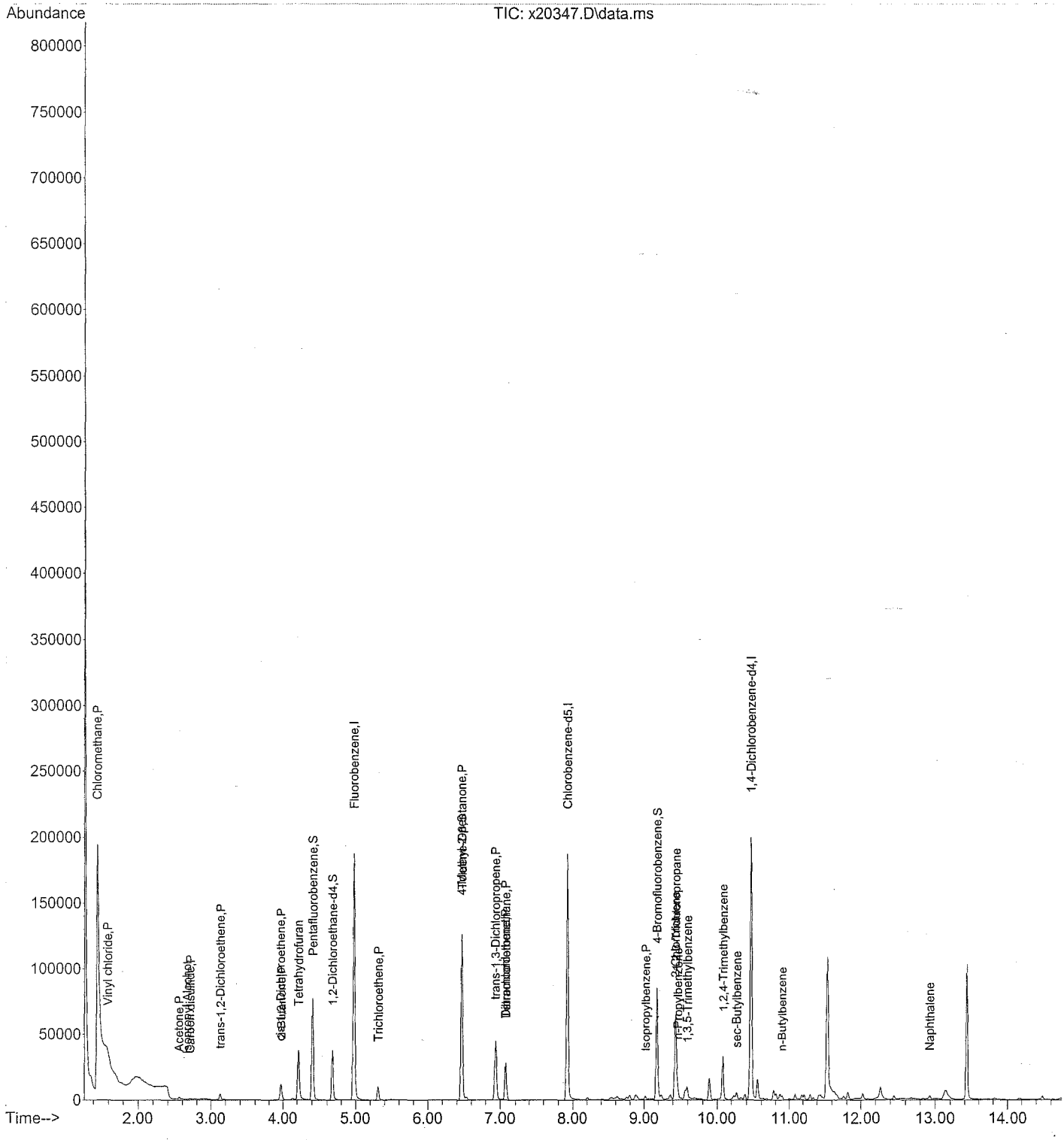
w/MS + MSD

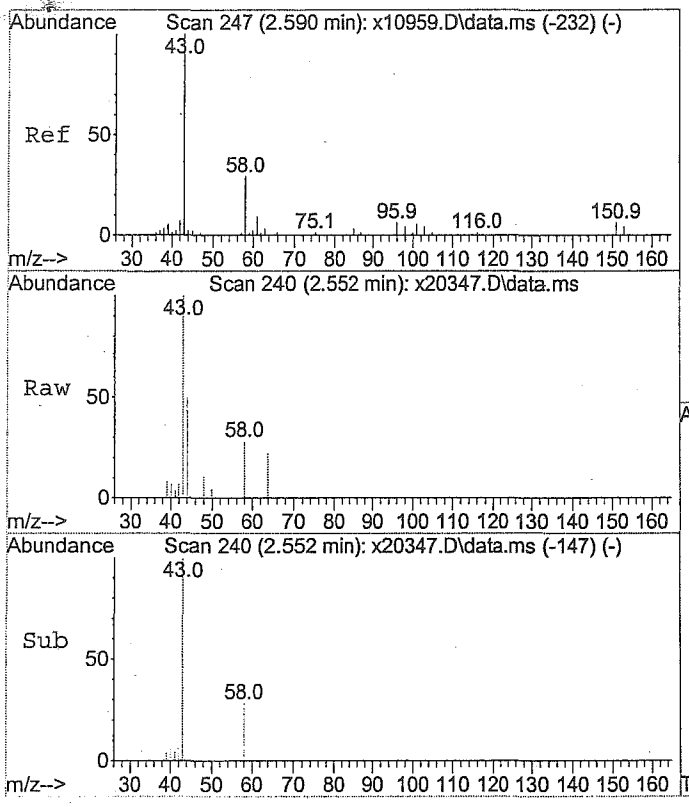
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.975	96	147889	50.00	ug/L	0.00
58) Chlorobenzene-d5	7.921	117	104373	50.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	10.456	152	56456	50.00	ug/L	0.00
System Monitoring Compounds						
27) Pentafluorobenzene	4.409	168	47139	30.19	ug/L	0.00
Spiked Amount 30.000	Range 93 - 109		Recovery = 100.63%			
31) 1,2-Dichloroethane-d4	4.676	65	22779	30.94	ug/L	0.00
Spiked Amount 30.000	Range 80 - 116		Recovery = 103.13%			
49) Toluene-D8	6.464	98	77159	27.73	ug/L	0.00
Spiked Amount 30.000	Range 92 - 107		Recovery = 92.43%			
68) 4-Bromofluorobenzene	9.180	95	29158	29.64	ug/L	0.00
Spiked Amount 30.000	Range 87 - 109		Recovery = 98.80%			
Target Compounds						Qvalue
3) Chloromethane	1.447	50	7668	6.07	ug/L #	50
4) Vinyl chloride	1.586	62	480	0.50	ug/L #	52
11) Acetone	2.552	43	1904	6.51	ug/L	96
12) Isopropyl Alcohol	2.664	45	363	8.91	ug/L #	50
13) Carbon disulfide	2.707	76	751	0.39	ug/L #	74
19) trans-1,2-Dichloroethene	3.128	61	1863	1.42	ug/L	92
23) 2-Butanone	3.977	72	2227	23.03	ug/L #	76
24) cis-1,2-Dichloroethene	3.966	96	1984	1.87	ug/L	96
28) Tetrahydrofuran	4.217	42	21632	92.12	ug/L	98
35) Trichloroethene	5.311	130	3171	2.93	ug/L	94
48) 4-Methyl-2-pentanone	6.458	58	646	1.95	ug/L #	1
51) trans-1,3-Dichloropropene	6.933	75	538	0.47	ug/L #	29
54) Tetrachloroethene	7.072	166	8399	6.73	ug/L	95
56) Dibromochloromethane	7.072	129	5803	6.66	ug/L #	17
66) Isopropylbenzene	9.020	105	1858	0.39	ug/L	98
67) 1,2,3-Trichloropropane	9.442	110	586	2.05	ug/L #	7
71) n-Propylbenzene	9.468	91	6793	1.21	ug/L	100
72) 2-Chlorotoluene	9.431	126	744	0.67	ug/L #	1
74) 1,3,5-Trimethylbenzene	9.597	105	4511	1.10	ug/L	72
76) 1,2,4-Trimethylbenzene	10.082	105	18252	4.30	ug/L	99
77) sec-Butylbenzene	10.269	105	3711	0.70	ug/L	100
82) n-Butylbenzene	10.893	91	1812	0.43	ug/L	86
89) Naphthalene	12.927	128	1835	0.62	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File: C:\msdchem\1\DATA\150205\x20347.D
DataAcq Meth:8260RUN.M
Acq On : 5 Feb 2015 8:55 pm Operator: Bill Brew
Sample : 150382-07_5 Inst : Instrument #1
Misc : Water_JVASP08
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Feb 06 06:52:59 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE



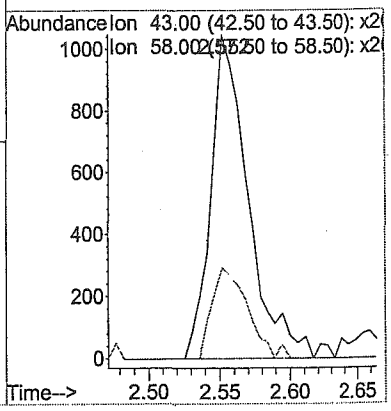


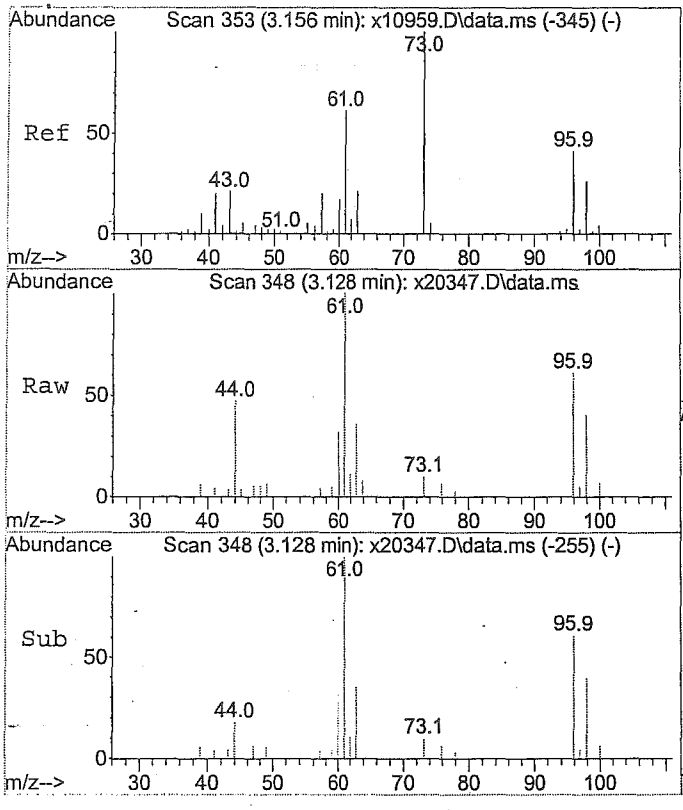
#11
Acetone
Concen: 6.51 ug/L
RT: 2.552 min Scan# 240
Delta R.T. -0.005 min
Lab File: x20347.D
Acq: 5 Feb 2015 8:55 pm

2/6 BB

Tgt Ion: 43 Resp: 1904

Ion	Ratio	Lower	Upper
43	100		
58	26.8	8.8	48.8

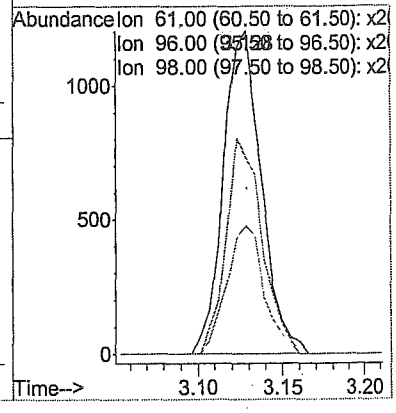


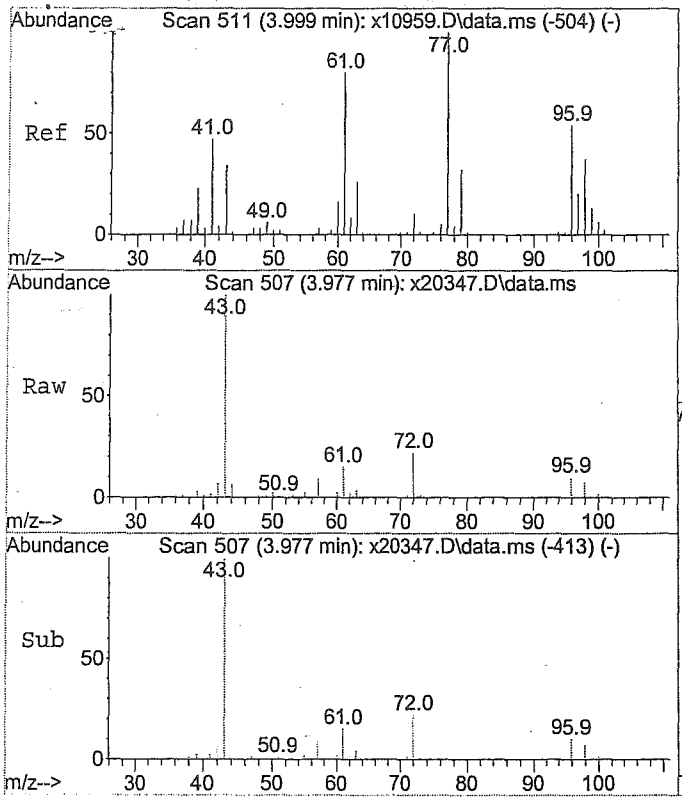


#19
trans-1,2-Dichloroethene
Concen: 1.42 ug/L
RT: 3.128 min Scan# 348
Delta R.T. -0.006 min
Lab File: x20347.D
Acq: 5 Feb 2015 8:55 pm

Tgt Ion: 61 Resp: 1863

Ion	Ratio	Lower	Upper
61	100		
96	63.8	50.0	90.0
98	39.2	25.0	65.0

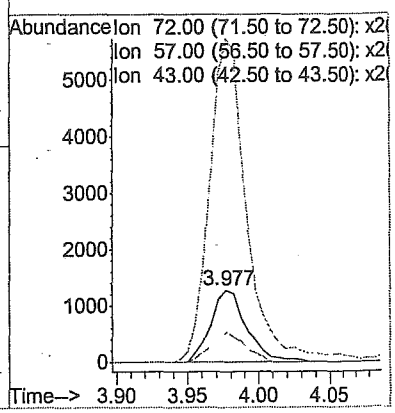


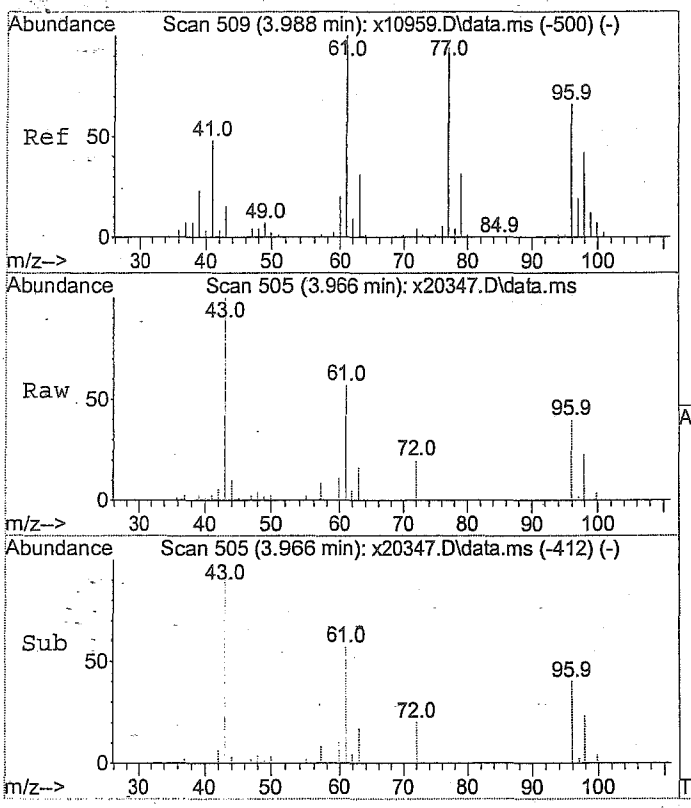


#23
2-Butanone
Concen: 23.03 ug/L
RT: 3.977 min Scan# 507
Delta R.T. -0.000 min
Lab File: x20347.D
Acq: 5 Feb 2015 8:55 pm

Tgt Ion: 72 Resp: 2227

Ion	Ratio	Lower	Upper
72	100		
57	38.6	8.7	48.7
43	470.5	391.4	431.4#

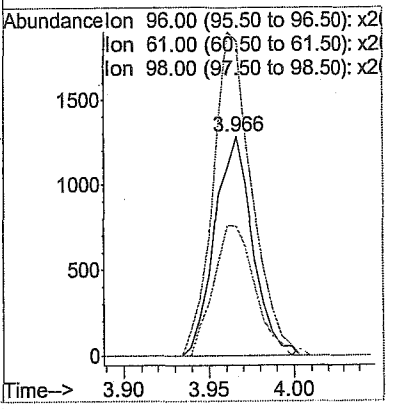


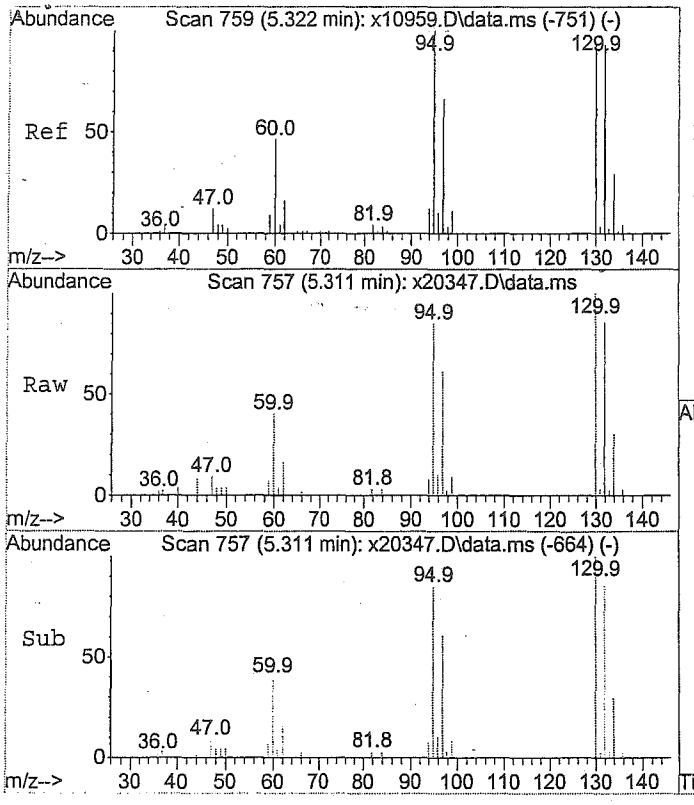


#24
cis-1,2-Dichloroethene
Concen: 1.87 ug/L
RT: 3.966 min Scan# 505
Delta R.T. -0.006 min
Lab File: x20347.D
Acq: 5 Feb 2015 8:55 pm

Tgt Ion: 96 Resp: 1984

Ion	Ratio	Lower	Upper
96	100		
61	151.3	125.2	165.2
98	64.9	45.7	85.7

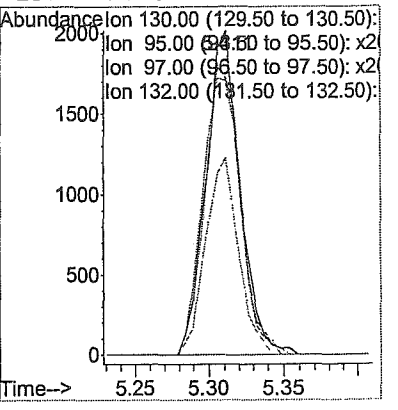


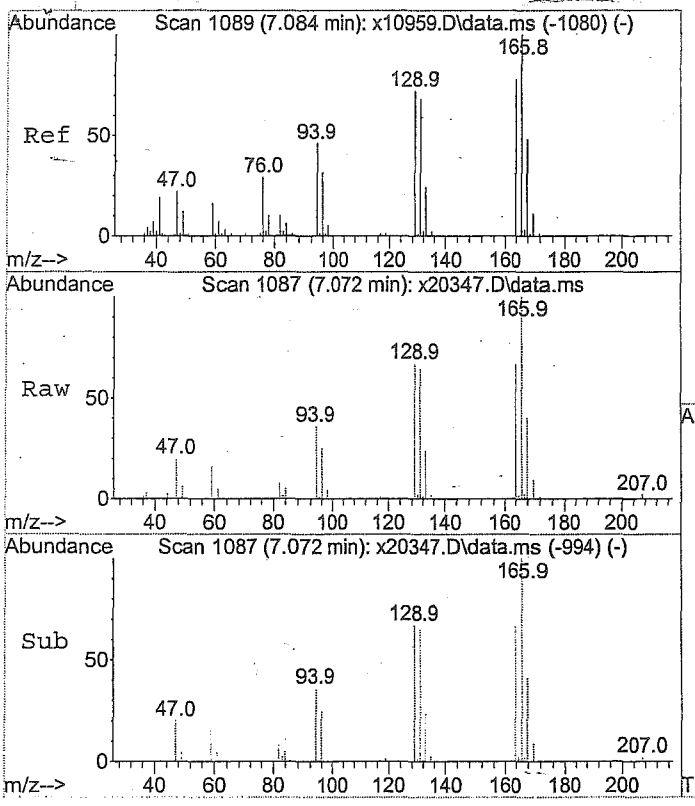


#35
Trichloroethene
Concen: 2.93 ug/L
RT: 5.311 min Scan# 757
Delta R.T. -0.006 min
Lab File: x20347.D
Acq: 5 Feb 2015 8:55 pm

Tgt Ion:130 Resp: 3171

Ion	Ratio	Lower	Upper
130	100		
95	95.5	81.8	121.8
97	58.8	47.0	87.0
132	95.0	76.4	116.4

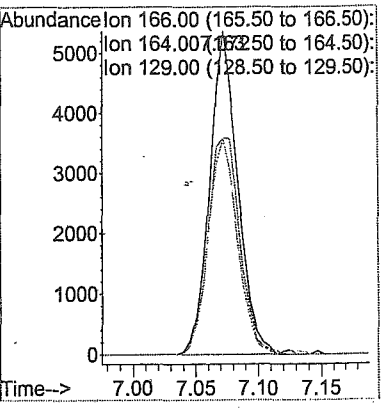




#54
Tetrachloroethene
Concen: 6.73 ug/L
RT: 7.072 min Scan# 1087
Delta R.T. -0.006 min
Lab File: x20347.D
Acq: 5 Feb 2015 8:55 pm

Tgt Ion:166 Resp: 8399

Ion	Ratio	Lower	Upper
166	100		
164	76.1	58.1	98.1
129	69.1	55.4	95.4



PARADIGM

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-RW-12-PI9
Lab Sample ID: 150382-08 **Date Sampled:** 2/4/2015
Matrix: Groundwater **Date Received:** 2/4/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/5/2015 18:10
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/5/2015 18:10
1,1,2-Trichloroethane	< 2.00	ug/L		2/5/2015 18:10
1,1-Dichloroethane	< 2.00	ug/L		2/5/2015 18:10
1,1-Dichloroethene	< 2.00	ug/L		2/5/2015 18:10
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/5/2015 18:10
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/5/2015 18:10
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/5/2015 18:10
1,2-Dibromoethane	< 2.00	ug/L		2/5/2015 18:10
1,2-Dichlorobenzene	< 2.00	ug/L		2/5/2015 18:10
1,2-Dichloroethane	< 2.00	ug/L		2/5/2015 18:10
1,2-Dichloropropane	< 2.00	ug/L		2/5/2015 18:10
1,3-Dichlorobenzene	< 2.00	ug/L		2/5/2015 18:10
1,4-Dichlorobenzene	< 2.00	ug/L		2/5/2015 18:10
1,4-dioxane	< 20.0	ug/L		2/5/2015 18:10
2-Butanone	< 10.0	ug/L		2/5/2015 18:10
2-Hexanone	< 5.00	ug/L		2/5/2015 18:10
4-Methyl-2-pentanone	< 5.00	ug/L		2/5/2015 18:10
Acetone	< 10.0	ug/L		2/5/2015 18:10
Benzene	< 0.700	ug/L		2/5/2015 18:10
Bromochloromethane	< 5.00	ug/L		2/5/2015 18:10
Bromodichloromethane	< 2.00	ug/L		2/5/2015 18:10
Bromoform	< 5.00	ug/L		2/5/2015 18:10
Bromomethane	< 2.00	ug/L		2/5/2015 18:10
Carbon disulfide	< 2.00	ug/L		2/5/2015 18:10
Carbon Tetrachloride	< 2.00	ug/L		2/5/2015 18:10
Chlorobenzene	< 2.00	ug/L		2/5/2015 18:10

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Wednesday, February 18, 2015

PARADIGM

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-12-PI9		
Lab Sample ID:	150382-08	**Date Sampled:**	2/4/2015
Matrix:	Groundwater	**Date Received:**	2/4/2015

Chloroethane	< 2.00	ug/L	2/5/2015 18:10
Chloroform	< 2.00	ug/L	2/5/2015 18:10
Chloromethane	< 2.00	ug/L	2/5/2015 18:10
cis-1,2-Dichloroethene	**20.9**	ug/L	2/5/2015 18:10
cis-1,3-Dichloropropene	< 2.00	ug/L	2/5/2015 18:10
Cyclohexane	< 10.0	ug/L	2/5/2015 18:10
Dibromochloromethane	< 2.00	ug/L	2/5/2015 18:10
Dichlorodifluoromethane	< 2.00	ug/L	2/5/2015 18:10
Ethylbenzene	< 2.00	ug/L	2/5/2015 18:10
Freon 113	< 2.00	ug/L	2/5/2015 18:10
Isopropylbenzene	< 2.00	ug/L	2/5/2015 18:10
m,p-Xylene	< 2.00	ug/L	2/5/2015 18:10
Methyl acetate	< 2.00	ug/L	2/5/2015 18:10
Methyl tert-butyl Ether	< 2.00	ug/L	2/5/2015 18:10
Methylcyclohexane	< 2.00	ug/L	2/5/2015 18:10
Methylene chloride	< 5.00	ug/L	2/5/2015 18:10
o-Xylene	< 2.00	ug/L	2/5/2015 18:10
Styrene	< 5.00	ug/L	2/5/2015 18:10
Tetrachloroethene	**7.82**	ug/L	2/5/2015 18:10
Toluene	< 2.00	ug/L	2/5/2015 18:10
trans-1,2-Dichloroethene	< 2.00	ug/L	2/5/2015 18:10
trans-1,3-Dichloropropene	< 2.00	ug/L	2/5/2015 18:10
Trichloroethene	**14.5**	ug/L	2/5/2015 18:10
Trichlorofluoromethane	< 2.00	ug/L	2/5/2015 18:10
Vinyl chloride	**2.28**	ug/L	2/5/2015 18:10

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-RW-12-PI9

Lab Sample ID: 150382-08 **Date Sampled:** 2/4/2015

Matrix: Groundwater **Date Received:** 2/4/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**105**	80.4 - 116		2/5/2015	18:10
4-Bromofluorobenzene	**91.9**	87 - 109		2/5/2015	18:10
Pentafluorobenzene	**99.8**	92.8 - 109		2/5/2015	18:10
Toluene-D8	**93.2**	92.1 - 107		2/5/2015	18:10

Method Reference(s): EPA 8260C
EPA 5030

Data File: x20340.D

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Wednesday, February 18, 2015

Quantitation Report (Not Reviewed)

Data File: C:\msdchem\1\DATA\150205\x20340.D
DataAcq Meth:8260RUN.M
Acq On : 5 Feb 2015 6:10 pm Operator: Bill Brew
Sample : 150382-08_5 Inst : Instrument #1
Misc : Water_JVASP08
ALS Vial : 20 Sample Multiplier: 1

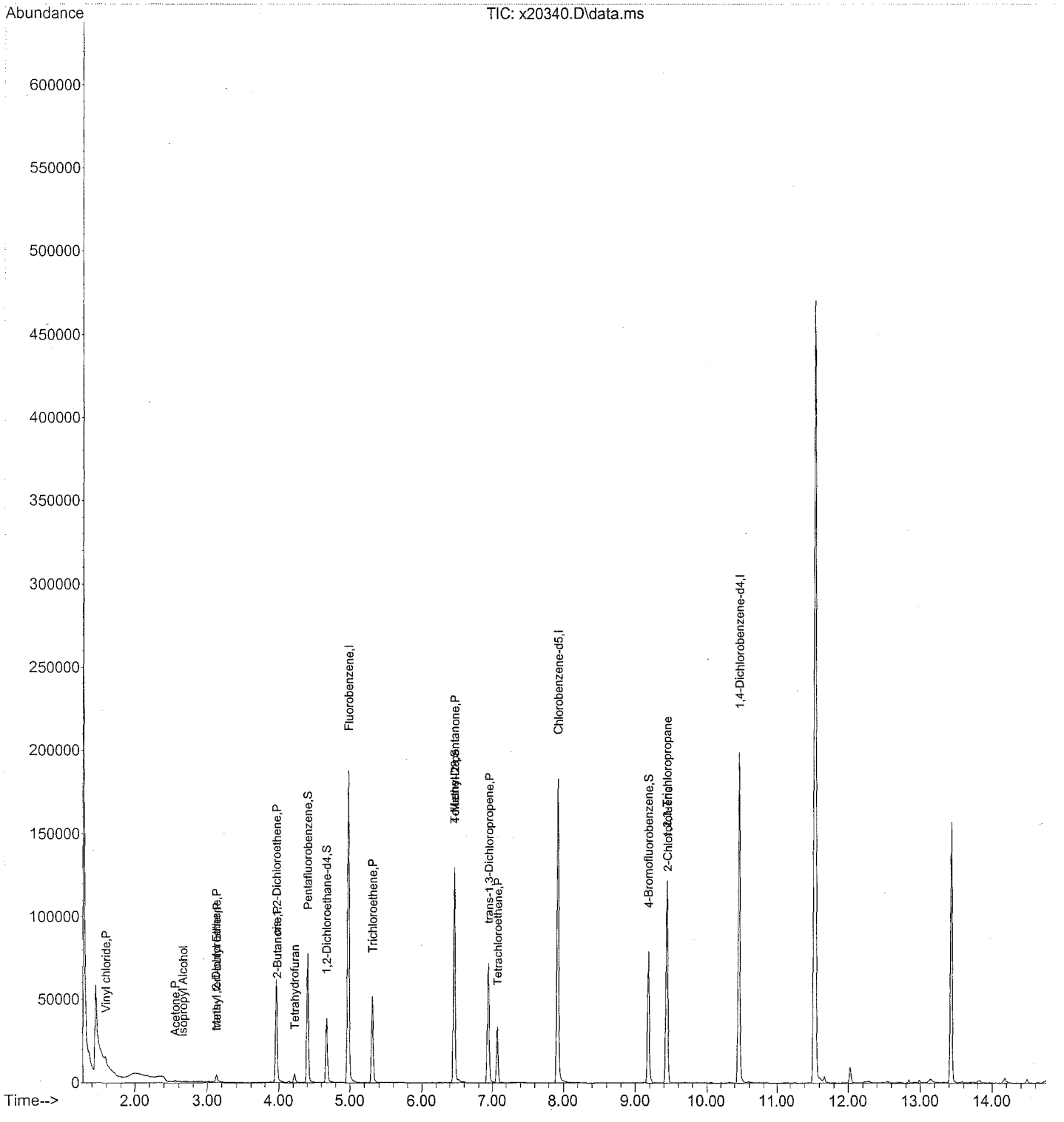
Quant Time: Feb 06 06:52:36 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE

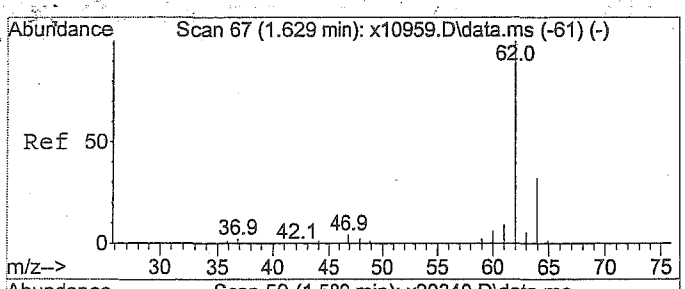
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.978	96	150911	50.00	ug/L	0.00
58) Chlorobenzene-d5	7.924	117	106201	50.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	10.459	152	56102	50.00	ug/L	0.00
System Monitoring Compounds						
27) Pentafluorobenzene	4.407	168	47707	29.94	ug/L	0.00
Spiked Amount 30.000	Range 93 - 109		Recovery = 99.80%			
31) 1,2-Dichloroethane-d4	4.674	65	23556	31.36	ug/L	0.00
Spiked Amount 30.000	Range 80 - 116		Recovery = 104.53%			
49) Toluene-D8	6.462	98	79398	27.96	ug/L	0.00
Spiked Amount 30.000	Range 92 - 107		Recovery = 93.20%			
68) 4-Bromofluorobenzene	9.178	95	27583	27.56	ug/L	0.00
Spiked Amount 30.000	Range 87 - 109		Recovery = 91.87%			
Target Compounds						Qvalue
4) Vinyl chloride	1.589	62	2215	2.28	ug/L #	55
11) Acetone	2.550	43	1001	2.75	ug/L	100
12) Isopropyl Alcohol	2.657	45	364	8.76	ug/L #	50
18) Methyl tert-butyl Ether	3.126	73	1895	0.94	ug/L	95
19) trans-1,2-Dichloroethene	3.121	61	715	0.53	ug/L	87
23) 2-Butanone	3.975	72	394	3.99	ug/L #	38
24) cis-1,2-Dichloroethene	3.964	96	22628	20.90	ug/L	99
28) Tetrahydrofuran	4.220	42	2973	12.41	ug/L	97
35) Trichloroethene	5.309	130	16032	14.51	ug/L	97
48) 4-Methyl-2-pentanone	6.462	58	671	1.98	ug/L #	1
51) trans-1,3-Dichloropropene	6.942	75	883	0.75	ug/L #	29
54) Tetrachloroethene	7.075	166	9963	7.82	ug/L	98
67) 1,2,3-Trichloropropane	9.434	110	991	3.40	ug/L #	16
72) 2-Chlorotoluene	9.445	126	1184	1.05	ug/L #	1

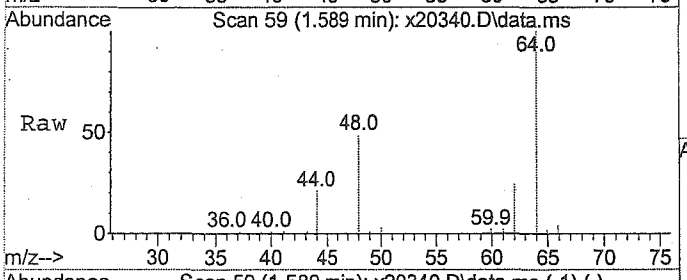
(#) = qualifier out of range (m) = manual integration (+) = signals summed

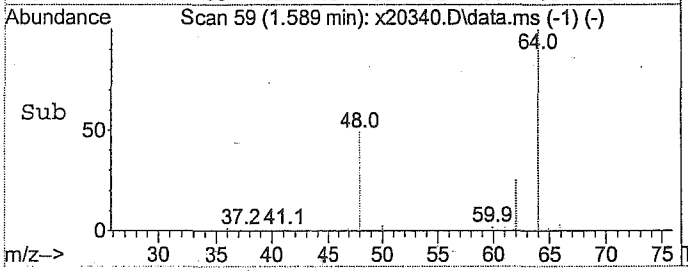
Data File: C:\msdchem\1\DATA\150205\x20340.D
DataAcq Meth:8260RUN.M
Acq On : 5 Feb 2015 6:10 pm Operator: Bill Brew
Sample : 150382-08_5 Inst : Instrument #1
Misc : Water_JVASP08
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 06 06:52:36 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE





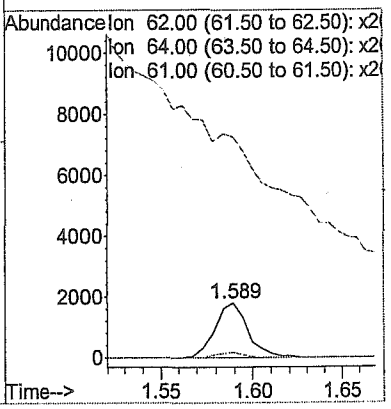




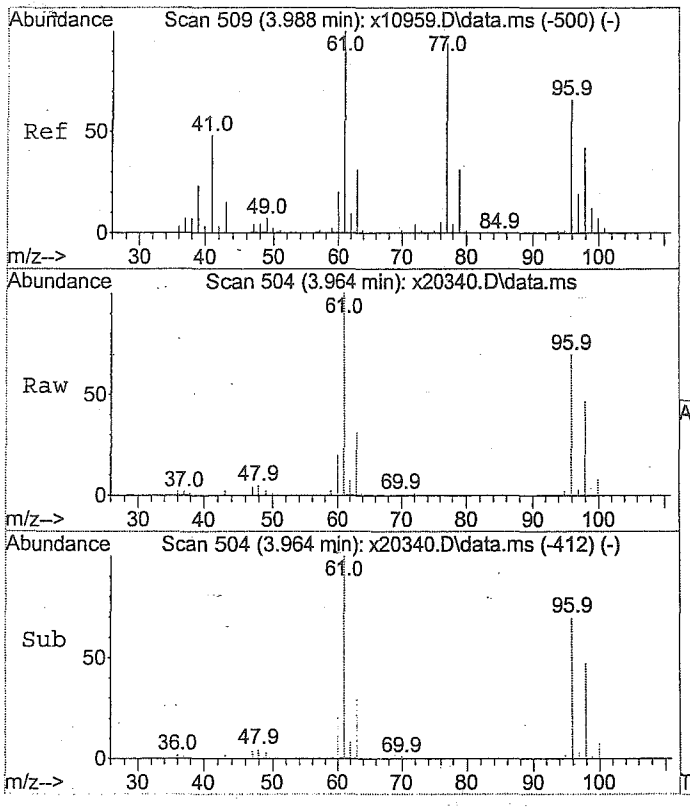
#4
Vinyl chloride
Concen: 2.28 ug/L
RT: 1.589 min Scan# 59
Delta R.T. -0.008 min
Lab File: x20340.D
Acq: 5 Feb 2015 6:10 pm

Tgt Ion: 62 Resp: 2215

Ion	Ratio	Lower	Upper
62	100		
64	0.0	11.3	51.3#
61	7.3	0.0	28.3



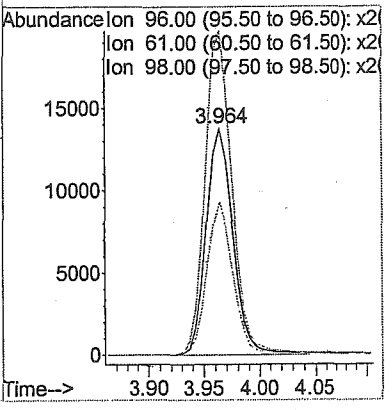
2/6 B3

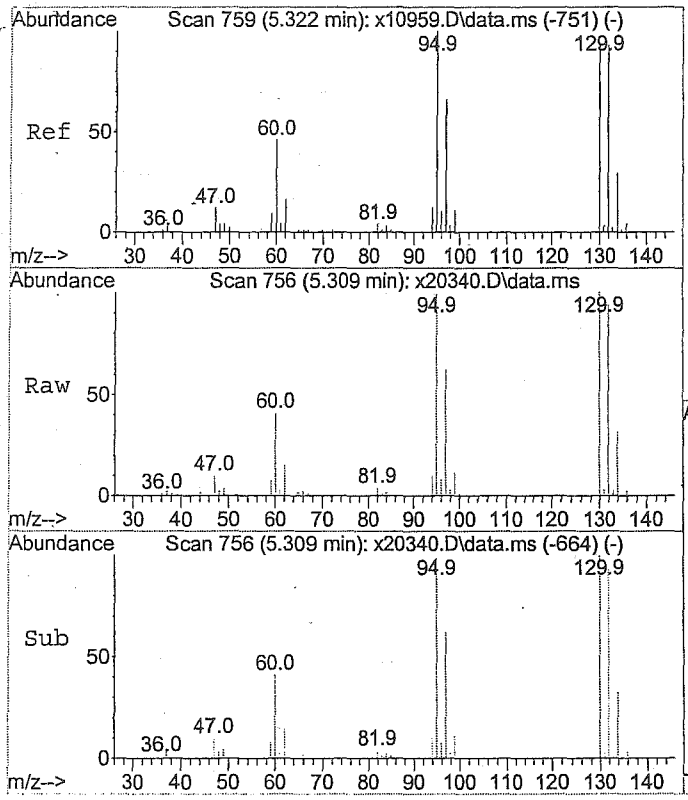


#24
cis-1,2-Dichloroethene
Concen: 20.90 ug/L
RT: 3.964 min Scan# 504
Delta R.T. -0.008 min
Lab File: x20340.D
Acq: 5 Feb 2015 6:10 pm

Tgt Ion: 96 Resp: 22628

Ion	Ratio	Lower	Upper
96	100		
61	144.3	125.2	165.2
98	65.5	45.7	85.7

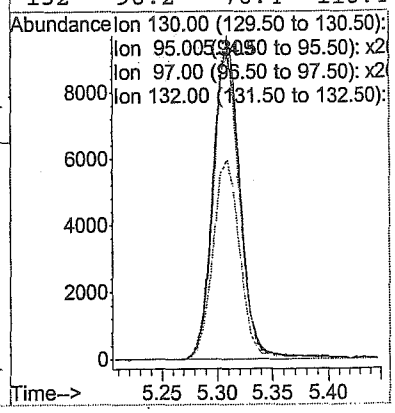


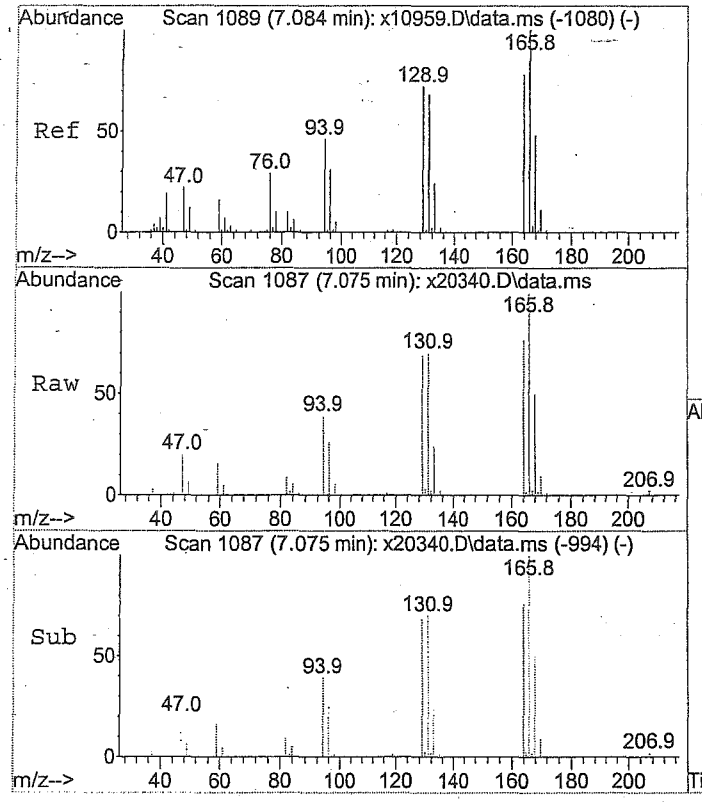


#35
Trichloroethene
Concen: 14.51 ug/L
RT: 5.309 min Scan# 756
Delta R.T. -0.008 min
Lab File: x20340.D
Acq: 5 Feb 2015 6:10 pm

Tgt Ion:130 Resp: 16032

Ion	Ratio	Lower	Upper
130	100		
95	96.9	81.8	121.8
97	62.4	47.0	87.0
132	96.2	76.4	116.4

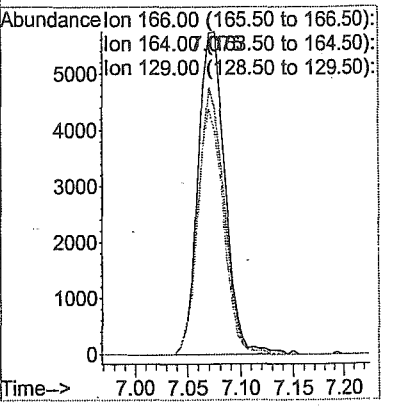




#54
Tetrachloroethene
Concen: 7.82 ug/L
RT: 7.075 min Scan# 1087
Delta R.T. -0.003 min
Lab File: x20340.D
Acq: 5 Feb 2015 6:10 pm

Tgt Ion:166 Resp: 9963

Ion	Ratio	Lower	Upper
166	100		
164	79.1	58.1	98.1
129	72.6	55.4	95.4



PARADIGM

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-RW-6-PI9
Lab Sample ID: 150382-09 **Date Sampled:** 2/4/2015
Matrix: Groundwater **Date Received:** 2/4/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 10.0	ug/L		2/5/2015 17:46
1,1,2,2-Tetrachloroethane	< 10.0	ug/L		2/5/2015 17:46
1,1,2-Trichloroethane	< 10.0	ug/L		2/5/2015 17:46
1,1-Dichloroethane	< 10.0	ug/L		2/5/2015 17:46
1,1-Dichloroethene	< 10.0	ug/L		2/5/2015 17:46
1,2,3-Trichlorobenzene	< 25.0	ug/L		2/5/2015 17:46
1,2,4-Trichlorobenzene	< 25.0	ug/L		2/5/2015 17:46
1,2-Dibromo-3-Chloropropane	< 50.0	ug/L		2/5/2015 17:46
1,2-Dibromoethane	< 10.0	ug/L		2/5/2015 17:46
1,2-Dichlorobenzene	< 10.0	ug/L		2/5/2015 17:46
1,2-Dichloroethane	< 10.0	ug/L		2/5/2015 17:46
1,2-Dichloropropane	< 10.0	ug/L		2/5/2015 17:46
1,3-Dichlorobenzene	< 10.0	ug/L		2/5/2015 17:46
1,4-Dichlorobenzene	< 10.0	ug/L		2/5/2015 17:46
1,4-dioxane	< 100	ug/L		2/5/2015 17:46
2-Butanone	< 50.0	ug/L		2/5/2015 17:46
2-Hexanone	< 25.0	ug/L		2/5/2015 17:46
4-Methyl-2-pentanone	< 25.0	ug/L		2/5/2015 17:46
Acetone	< 50.0	ug/L		2/5/2015 17:46
Benzene	< 3.50	ug/L		2/5/2015 17:46
Bromochloromethane	< 25.0	ug/L		2/5/2015 17:46
Bromodichloromethane	< 10.0	ug/L		2/5/2015 17:46
Bromoform	< 25.0	ug/L		2/5/2015 17:46
Bromomethane	< 10.0	ug/L		2/5/2015 17:46
Carbon disulfide	< 10.0	ug/L		2/5/2015 17:46
Carbon Tetrachloride	< 10.0	ug/L		2/5/2015 17:46
Chlorobenzene	< 10.0	ug/L		2/5/2015 17:46

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Report Prepared Wednesday, February 18, 2015

PARADIGM

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-RW-6-PI9
Lab Sample ID: 150382-09
Matrix: Groundwater

Date Sampled: 2/4/2015
Date Received: 2/4/2015

Chloroethane	< 10.0	ug/L		2/5/2015	17:46
Chloroform	< 10.0	ug/L		2/5/2015	17:46
Chloromethane	< 10.0	ug/L		2/5/2015	17:46
cis-1,2-Dichloroethene	**687**	ug/L		2/5/2015	17:46
cis-1,3-Dichloropropene	< 10.0	ug/L		2/5/2015	17:46
Cyclohexane	< 50.0	ug/L		2/5/2015	17:46
Dibromochloromethane	< 10.0	ug/L		2/5/2015	17:46
Dichlorodifluoromethane	< 10.0	ug/L		2/5/2015	17:46
Ethylbenzene	< 10.0	ug/L		2/5/2015	17:46
Freon 113	< 10.0	ug/L		2/5/2015	17:46
Isopropylbenzene	< 10.0	ug/L		2/5/2015	17:46
m,p-Xylene	< 10.0	ug/L		2/5/2015	17:46
Methyl acetate	< 10.0	ug/L		2/5/2015	17:46
Methyl tert-butyl Ether	< 10.0	ug/L		2/5/2015	17:46
Methylcyclohexane	< 10.0	ug/L		2/5/2015	17:46
Methylene chloride	< 25.0	ug/L		2/5/2015	17:46
o-Xylene	< 10.0	ug/L		2/5/2015	17:46
Styrene	< 25.0	ug/L		2/5/2015	17:46
Tetrachloroethene	< 10.0	ug/L		2/5/2015	17:46
Toluene	< 10.0	ug/L		2/5/2015	17:46
trans-1,2-Dichloroethene	**6.64**	ug/L	J	2/5/2015	17:46
trans-1,3-Dichloropropene	< 10.0	ug/L		2/5/2015	17:46
Trichloroethene	< 10.0	ug/L		2/5/2015	17:46
Trichlorofluoromethane	< 10.0	ug/L		2/5/2015	17:46
Vinyl chloride	**455**	ug/L		2/5/2015	17:46

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Report Prepared Wednesday, February 18, 2015

PARADIGM

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-RW-6-PI9
Lab Sample ID: 150382-09 **Date Sampled:** 2/4/2015
Matrix: Groundwater **Date Received:** 2/4/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**105**	80.4 - 116		2/5/2015	17:46
4-Bromofluorobenzene	**87.5**	87 - 109		2/5/2015	17:46
Pentafluorobenzene	**101**	92.8 - 109		2/5/2015	17:46
Toluene-D8	**93.4**	92.1 - 107		2/5/2015	17:46

Method Reference(s): EPA 8260C
EPA 5030
Data File: x20339.D

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Report Prepared Wednesday, February 18, 2015

Quantitation Report (QT Reviewed)

Data File: C:\msdchem\1\DATA\150205\x20339.D
DataAcq Meth:8260RUN.M
Acq On : 5 Feb 2015 5:46 pm
Sample : 150382-09_1.0
Misc : Water_JVASP08
ALS Vial : 19 Sample Multiplier: 1

Operator: Bill Brew
Inst : Instrument #1

Quant Time: Feb 05 18:02:44 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE

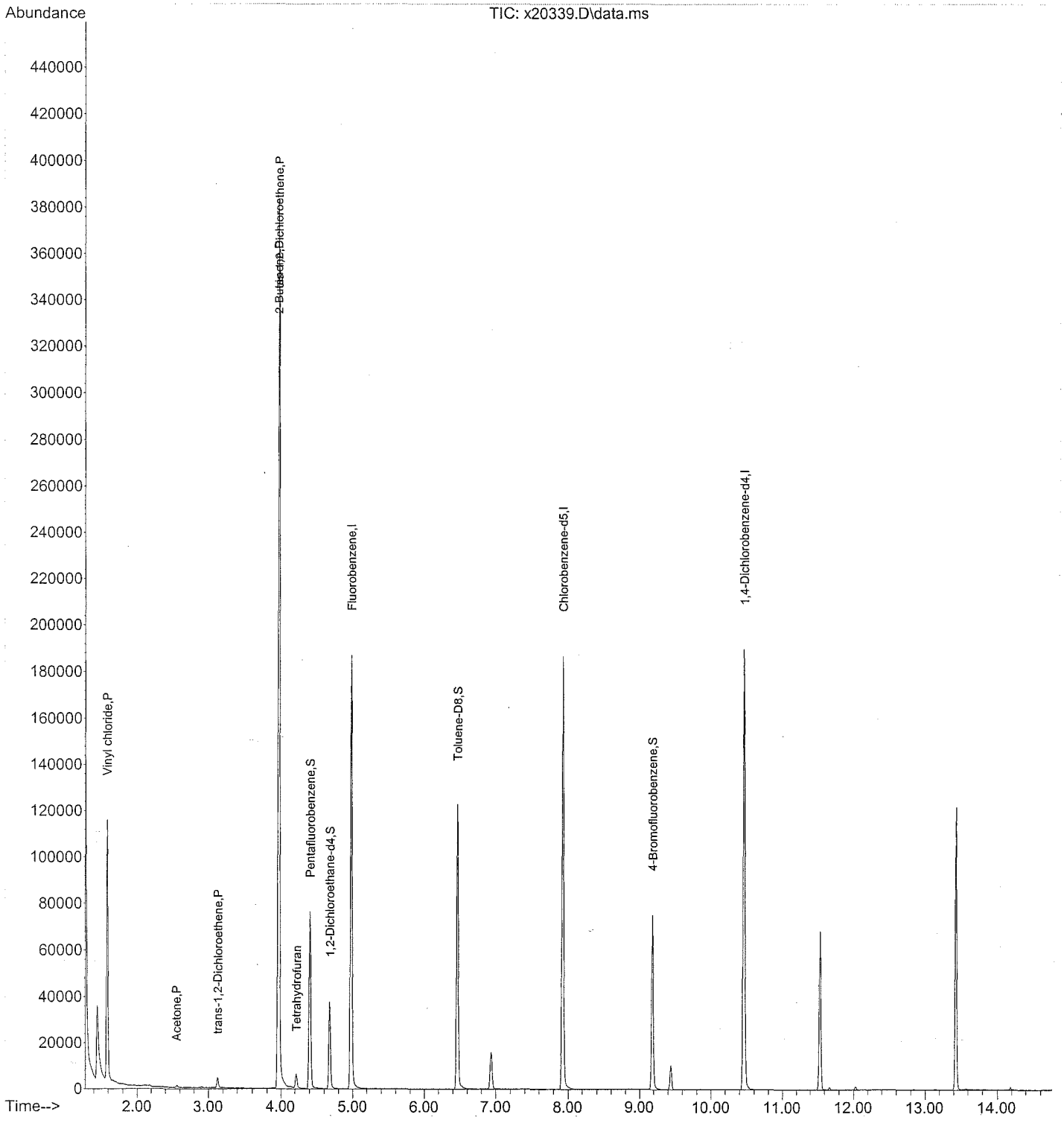
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.976	96	147224	50.00	ug/L	0.00
58) Chlorobenzene-d5	7.922	117	104171	50.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	10.457	152	52239	50.00	ug/L	0.00
System Monitoring Compounds						
27) Pentafluorobenzene	4.410	168	47132	30.32	ug/L	0.00
Spiked Amount 30.000	Range 93 - 109		Recovery =	101.07%		
31) 1,2-Dichloroethane-d4	4.677	65	23152	31.59	ug/L	0.00
Spiked Amount 30.000	Range 80 - 116		Recovery =	105.30%		
49) Toluene-D8	6.465	98	77650	28.03	ug/L	0.00
Spiked Amount 30.000	Range 92 - 107		Recovery =	93.43%		
68) 4-Bromofluorobenzene	9.181	95	25787	26.26	ug/L	0.00
Spiked Amount 30.000	Range 87 - 109		Recovery =	87.53%		
Target Compounds						Qvalue
4) Vinyl chloride	1.587	62	86497	91.07	ug/L	94
11) Acetone	2.553	43	1108	3.29	ug/L	97
19) trans-1,2-Dichloroethene	3.129	61	1737	1.33	ug/L	94
23) 2-Butanone	3.957	72	1199	12.46	ug/L	1
24) cis-1,2-Dichloroethene	3.962	96	145138	137.44	ug/L	99
28) Tetrahydrofuran	4.223	42	3470	14.84	ug/L	96

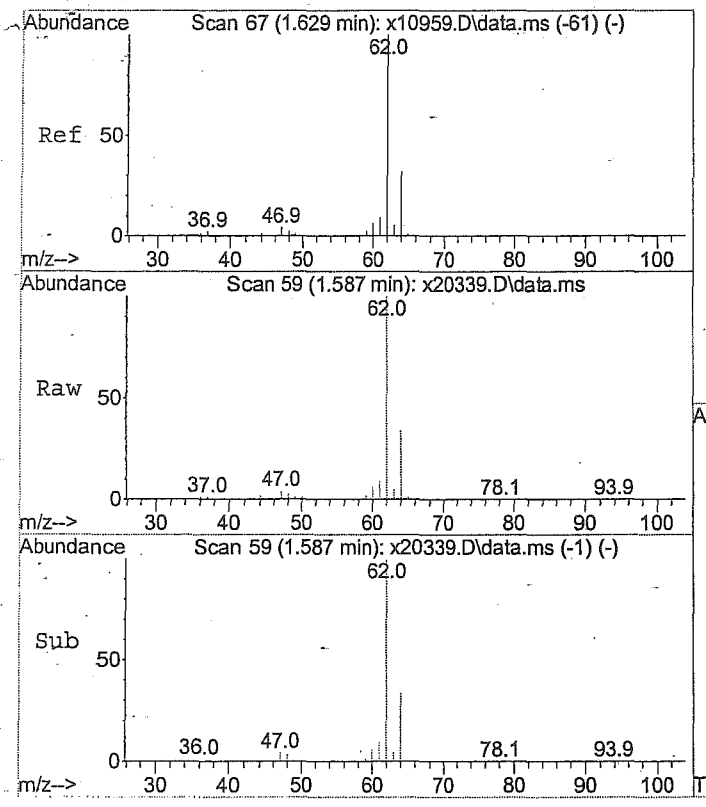
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File: C:\msdchem\1\DATA\150205\x20339.D
DataAcq Meth:8260RUN.M
Acq On : 5 Feb 2015 5:46 pm Operator: Bill Brew
Sample : 150382-09_1.0 Inst : Instrument #1
Misc : Water_JVASP08
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 05 18:02:44 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE



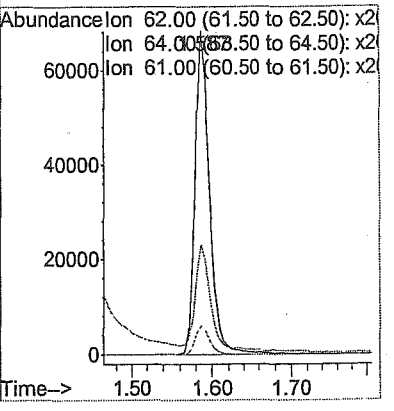


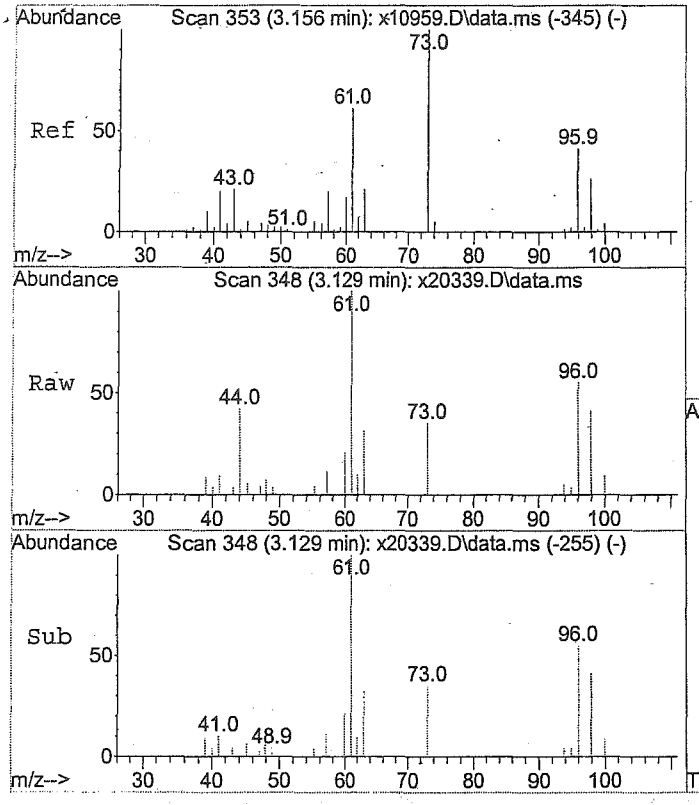
#4
Vinyl chloride
Concen: 91.07 ug/L
RT: 1.587 min Scan# 59
Delta R.T. -0.010 min
Lab File: x20339.D
Acq: 5 Feb 2015 5:46 pm

2/5/13

Tgt Ion: 62 Resp: 86497

Ion	Ratio	Lower	Upper
62	100		
64	35.6	11.3	51.3
61	8.7	0.0	28.3

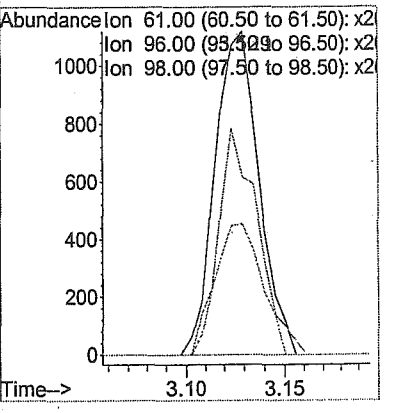


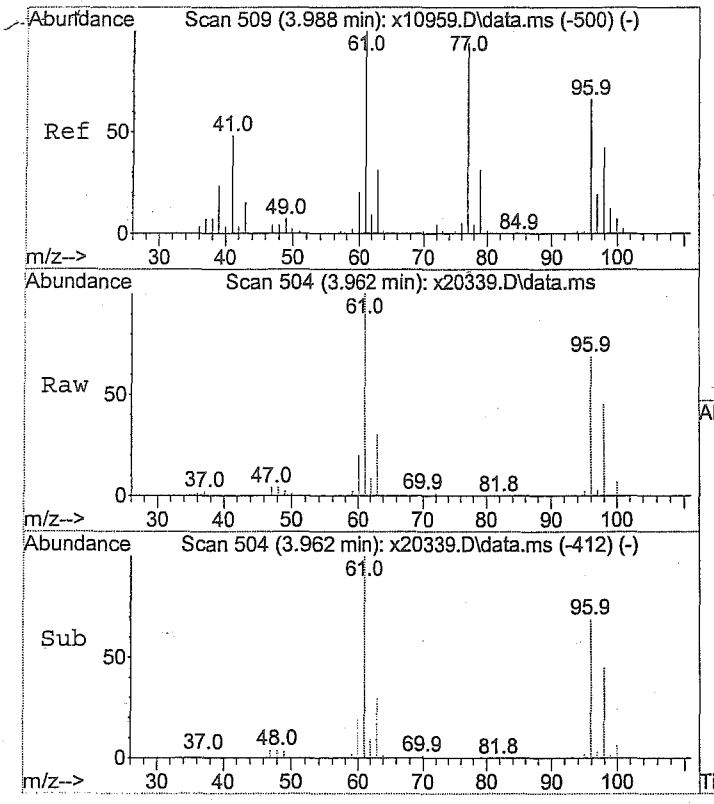


#19
trans-1,2-Dichloroethene
Concen: 1.33 ug/L
RT: 3.129 min Scan# 348
Delta R.T. -0.005 min
Lab File: x20339.D
Acq: 5 Feb 2015 5:46 pm

Tgt Ion: 61 Resp: 1737

Ion	Ratio	Lower	Upper
61	100		
96	64.5	50.0	90.0
98	41.6	25.0	65.0

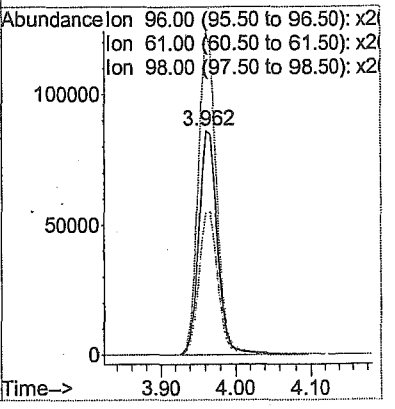




#24
cis-1,2-Dichloroethene
Concen: 137.44 ug/L
RT: 3.962 min Scan# 504
Delta R.T. -0.010 min
Lab File: x20339.D
Acq: 5 Feb 2015 5:46 pm

Tgt Ion: 96 Resp: 145138

Ion	Ratio	Lower	Upper
96	100		
61	143.4	125.2	165.2
98	65.5	45.7	85.7



PARADIGM

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-RW-7-PI9
Lab Sample ID: 150382-10 **Date Sampled:** 2/4/2015
Matrix: Groundwater **Date Received:** 2/4/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/5/2015 17:23
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/5/2015 17:23
1,1,2-Trichloroethane	< 2.00	ug/L		2/5/2015 17:23
1,1-Dichloroethane	< 2.00	ug/L		2/5/2015 17:23
1,1-Dichloroethene	< 2.00	ug/L		2/5/2015 17:23
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/5/2015 17:23
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/5/2015 17:23
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/5/2015 17:23
1,2-Dibromoethane	< 2.00	ug/L		2/5/2015 17:23
1,2-Dichlorobenzene	< 2.00	ug/L		2/5/2015 17:23
1,2-Dichloroethane	< 2.00	ug/L		2/5/2015 17:23
1,2-Dichloropropane	< 2.00	ug/L		2/5/2015 17:23
1,3-Dichlorobenzene	< 2.00	ug/L		2/5/2015 17:23
1,4-Dichlorobenzene	< 2.00	ug/L		2/5/2015 17:23
1,4-dioxane	< 20.0	ug/L		2/5/2015 17:23
2-Butanone	< 10.0	ug/L		2/5/2015 17:23
2-Hexanone	< 5.00	ug/L		2/5/2015 17:23
4-Methyl-2-pentanone	< 5.00	ug/L		2/5/2015 17:23
Acetone	< 10.0	ug/L		2/5/2015 17:23
Benzene	< 0.700	ug/L		2/5/2015 17:23
Bromochloromethane	< 5.00	ug/L		2/5/2015 17:23
Bromodichloromethane	< 2.00	ug/L		2/5/2015 17:23
Bromoform	< 5.00	ug/L		2/5/2015 17:23
Bromomethane	< 2.00	ug/L		2/5/2015 17:23
Carbon disulfide	< 2.00	ug/L		2/5/2015 17:23
Carbon Tetrachloride	< 2.00	ug/L		2/5/2015 17:23
Chlorobenzene	< 2.00	ug/L		2/5/2015 17:23

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Report Prepared Wednesday, February 18, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-RW-7-PI9
Lab Sample ID: 150382-10 **Date Sampled:** 2/4/2015
Matrix: Groundwater **Date Received:** 2/4/2015

Chloroethane	< 2.00	ug/L		2/5/2015	17:23
Chloroform	< 2.00	ug/L		2/5/2015	17:23
Chloromethane	< 2.00	ug/L		2/5/2015	17:23
cis-1,2-Dichloroethene	**1.33**	ug/L	J	2/5/2015	17:23
cis-1,3-Dichloropropene	< 2.00	ug/L		2/5/2015	17:23
Cyclohexane	< 10.0	ug/L		2/5/2015	17:23
Dibromochloromethane	< 2.00	ug/L		2/5/2015	17:23
Dichlorodifluoromethane	< 2.00	ug/L		2/5/2015	17:23
Ethylbenzene	< 2.00	ug/L		2/5/2015	17:23
Freon 113	< 2.00	ug/L		2/5/2015	17:23
Isopropylbenzene	< 2.00	ug/L		2/5/2015	17:23
m,p-Xylene	< 2.00	ug/L		2/5/2015	17:23
Methyl acetate	< 2.00	ug/L		2/5/2015	17:23
Methyl tert-butyl Ether	< 2.00	ug/L		2/5/2015	17:23
Methylcyclohexane	< 2.00	ug/L		2/5/2015	17:23
Methylene chloride	< 5.00	ug/L		2/5/2015	17:23
o-Xylene	< 2.00	ug/L		2/5/2015	17:23
Styrene	< 5.00	ug/L		2/5/2015	17:23
Tetrachloroethene	< 2.00	ug/L		2/5/2015	17:23
Toluene	< 2.00	ug/L		2/5/2015	17:23
trans-1,2-Dichloroethene	< 2.00	ug/L		2/5/2015	17:23
trans-1,3-Dichloropropene	< 2.00	ug/L		2/5/2015	17:23
Trichloroethene	< 2.00	ug/L		2/5/2015	17:23
Trichlorofluoromethane	< 2.00	ug/L		2/5/2015	17:23
Vinyl chloride	**5.43**	ug/L		2/5/2015	17:23

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Report Prepared Wednesday, February 18, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-RW-7-PI9
Lab Sample ID: 150382-10 **Date Sampled:** 2/4/2015
Matrix: Groundwater **Date Received:** 2/4/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**101**	80.4 - 116		2/5/2015	17:23
4-Bromofluorobenzene	**89.7**	87 - 109		2/5/2015	17:23
Pentafluorobenzene	**97.1**	92.8 - 109		2/5/2015	17:23
Toluene-D8	**92.4**	92.1 - 107		2/5/2015	17:23

Method Reference(s): EPA 8260C
EPA 5030
Data File: x20338.D

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Wednesday, February 18, 2015

Quantitation Report (QT Reviewed)

Data File: C:\msdchem\1\DATA\150205\x20338.D
DataAcq Meth:8260RUN.M
Acq On : 5 Feb 2015 5:23 pm
Sample : 150382-10_5
Misc : Water_JVASP08
ALS Vial : 18 Sample Multiplier: 1

Operator: Bill Brew
Inst : Instrument #1

Quant Time: Feb 05 17:39:44 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE

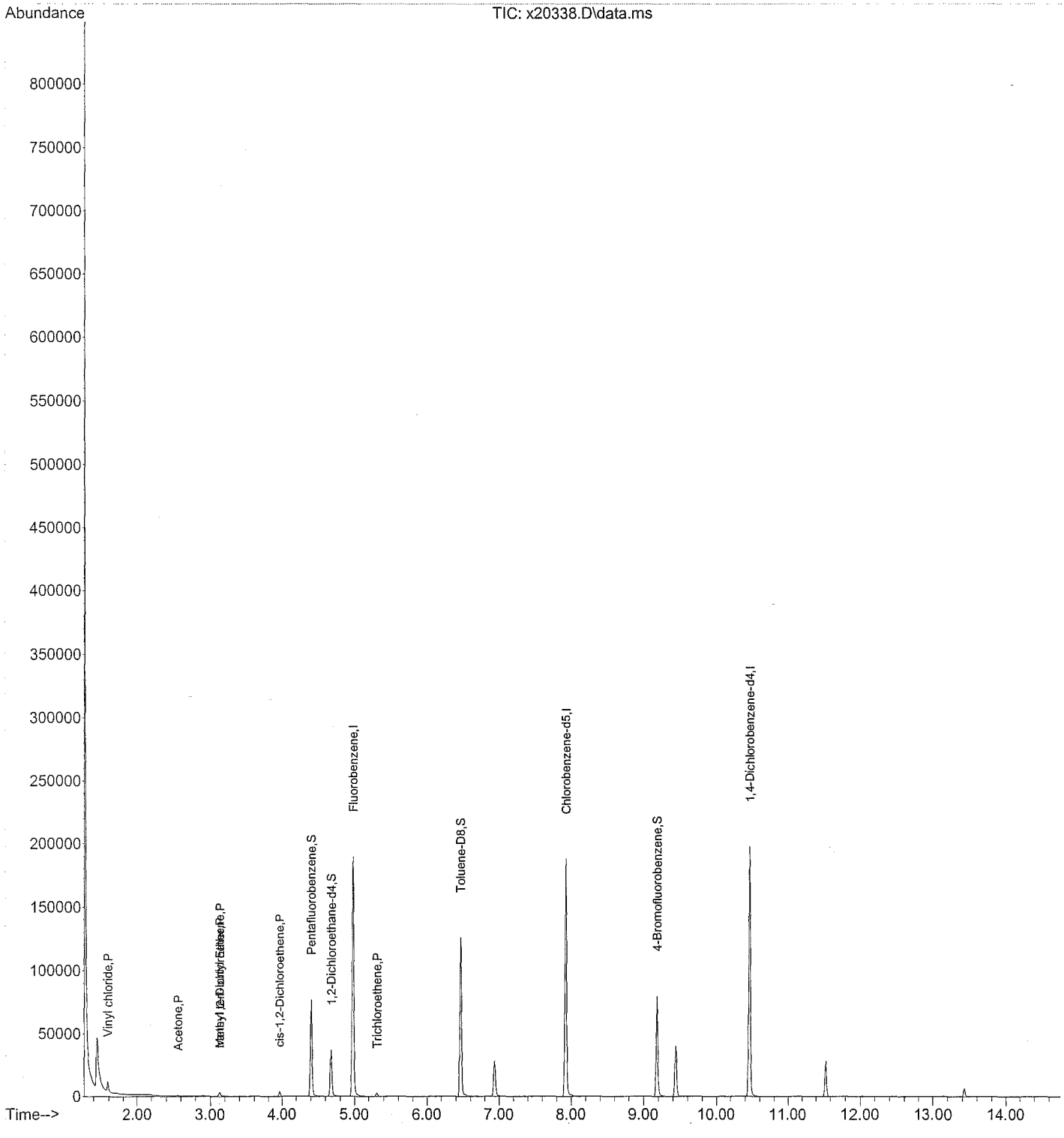
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.976	96	151845	50.00	ug/L	0.00
58) Chlorobenzene-d5	7.922	117	104939	50.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	10.457	152	54254	50.00	ug/L	0.00
System Monitoring Compounds						
27) Pentafluorobenzene	4.405	168	46684	29.12	ug/L	0.00
Spiked Amount 30.000	Range 93 - 109		Recovery = 97.07%			
31) 1,2-Dichloroethane-d4	4.677	65	22844	30.22	ug/L	0.00
Spiked Amount 30.000	Range 80 - 116		Recovery = 100.73%			
49) Toluene-D8	6.460	98	79158	27.71	ug/L	0.00
Spiked Amount 30.000	Range 92 - 107		Recovery = 92.37%			
68) 4-Bromofluorobenzene	9.181	95	26627	26.92	ug/L	0.00
Spiked Amount 30.000	Range 87 - 109		Recovery = 89.73%			
Target Compounds						Qvalue
4) Vinyl chloride	1.587	62	5320	5.43	ug/L	# 1
11) Acetone	2.558	43	500	0.74	ug/L	96
18) Methyl tert-butyl Ether	3.129	73	1547	0.77	ug/L	99
19) trans-1,2-Dichloroethene	3.129	61	476	0.35	ug/L	84
24) cis-1,2-Dichloroethene	3.962	96	1448	1.33	ug/L	93
35) Trichloroethene	5.312	130	890	0.80	ug/L	96

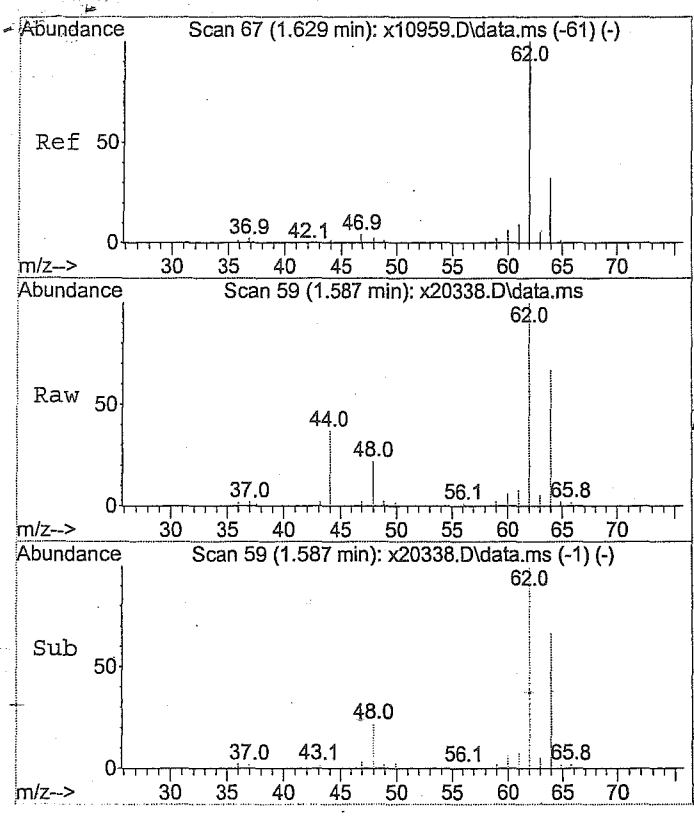
(#) = qualifier out of range (m) = manual integration (+) = signals summed

2/5 1313

Data File: C:\msdchem\1\DATA\150205\x20338.D
DataAcq Meth:8260RUN.M
Acq On : 5 Feb 2015 5:23 pm Operator: Bill Brew
Sample : 150382-10_5 Inst : Instrument #1
Misc : Water_JVASP08
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 05 17:39:44 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE



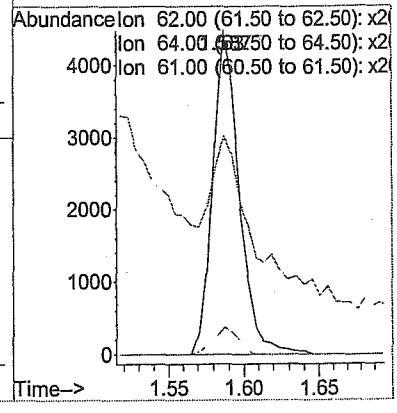


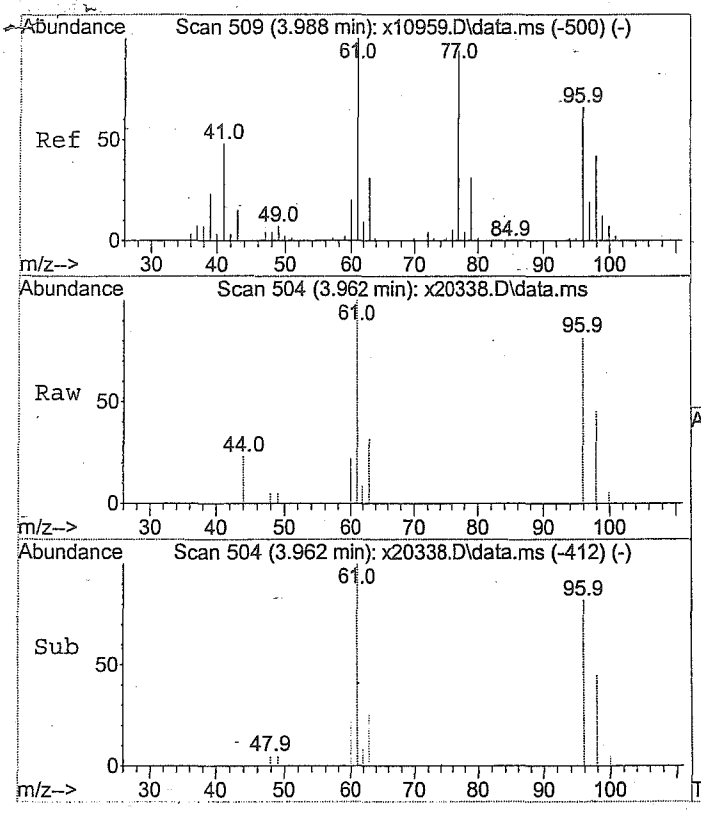
#4
Vinyl chloride
Concen: 5.43 ug/L
RT: 1.587 min Scan# 59
Delta R.T. -0.010 min
Lab File: x20338.D
Acq: 5 Feb 2015 5:23 pm

2/5/13

Tgt Ion: 62 Resp: 5320

Ion	Ratio	Lower	Upper
62	100		
64	109.5	11.3	51.3#
61	7.6	0.0	28.3

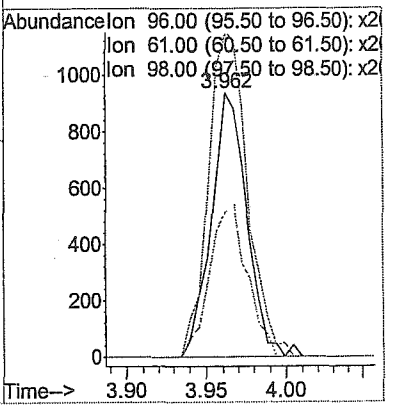




#24
cis-1,2-Dichloroethene
Concen: 1.33 ug/L
RT: 3.962 min Scan# 504
Delta R.T. -0.010 min
Lab File: x20338.D
Acq: 5 Feb 2015 5:23 pm

Tgt Ion: 96 Resp: 1448

Ion	Ratio	Lower	Upper
96	100		
61	135.3	125.2	165.2
98	61.0	45.7	85.7



PARADIGM

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-4-PI9		
Lab Sample ID:	150382-11	**Date Sampled:**	2/4/2015
Matrix:	Groundwater	**Date Received:**	2/4/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/5/2015 16:59
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/5/2015 16:59
1,1,2-Trichloroethane	< 2.00	ug/L		2/5/2015 16:59
1,1-Dichloroethane	< 2.00	ug/L		2/5/2015 16:59
1,1-Dichloroethene	< 2.00	ug/L		2/5/2015 16:59
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/5/2015 16:59
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/5/2015 16:59
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/5/2015 16:59
1,2-Dibromoethane	< 2.00	ug/L		2/5/2015 16:59
1,2-Dichlorobenzene	< 2.00	ug/L		2/5/2015 16:59
1,2-Dichloroethane	< 2.00	ug/L		2/5/2015 16:59
1,2-Dichloropropane	< 2.00	ug/L		2/5/2015 16:59
1,3-Dichlorobenzene	< 2.00	ug/L		2/5/2015 16:59
1,4-Dichlorobenzene	< 2.00	ug/L		2/5/2015 16:59
1,4-dioxane	< 20.0	ug/L		2/5/2015 16:59
2-Butanone	< 10.0	ug/L		2/5/2015 16:59
2-Hexanone	< 5.00	ug/L		2/5/2015 16:59
4-Methyl-2-pentanone	< 5.00	ug/L		2/5/2015 16:59
Acetone	< 10.0	ug/L		2/5/2015 16:59
Benzene	< 0.700	ug/L		2/5/2015 16:59
Bromochloromethane	< 5.00	ug/L		2/5/2015 16:59
Bromodichloromethane	< 2.00	ug/L		2/5/2015 16:59
Bromoform	< 5.00	ug/L		2/5/2015 16:59
Bromomethane	< 2.00	ug/L		2/5/2015 16:59
Carbon disulfide	< 2.00	ug/L		2/5/2015 16:59
Carbon Tetrachloride	< 2.00	ug/L		2/5/2015 16:59
Chlorobenzene	< 2.00	ug/L		2/5/2015 16:59

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Report Prepared Wednesday, February 18, 2015

PARADIGM

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-4-PI9		
Lab Sample ID:	150382-11	**Date Sampled:**	2/4/2015
Matrix:	Groundwater	**Date Received:**	2/4/2015

Chloroethane	< 2.00	ug/L	2/5/2015	16:59
Chloroform	< 2.00	ug/L	2/5/2015	16:59
Chloromethane	< 2.00	ug/L	2/5/2015	16:59
cis-1,2-Dichloroethene	**23.7**	ug/L	2/5/2015	16:59
cis-1,3-Dichloropropene	< 2.00	ug/L	2/5/2015	16:59
Cyclohexane	< 10.0	ug/L	2/5/2015	16:59
Dibromochloromethane	< 2.00	ug/L	2/5/2015	16:59
Dichlorodifluoromethane	< 2.00	ug/L	2/5/2015	16:59
Ethylbenzene	< 2.00	ug/L	2/5/2015	16:59
Freon 113	< 2.00	ug/L	2/5/2015	16:59
Isopropylbenzene	< 2.00	ug/L	2/5/2015	16:59
m,p-Xylene	< 2.00	ug/L	2/5/2015	16:59
Methyl acetate	< 2.00	ug/L	2/5/2015	16:59
Methyl tert-butyl Ether	< 2.00	ug/L	2/5/2015	16:59
Methylcyclohexane	< 2.00	ug/L	2/5/2015	16:59
Methylene chloride	< 5.00	ug/L	2/5/2015	16:59
o-Xylene	< 2.00	ug/L	2/5/2015	16:59
Styrene	< 5.00	ug/L	2/5/2015	16:59
Tetrachloroethene	**9.17**	ug/L	2/5/2015	16:59
Toluene	< 2.00	ug/L	2/5/2015	16:59
trans-1,2-Dichloroethene	< 2.00	ug/L	2/5/2015	16:59
trans-1,3-Dichloropropene	< 2.00	ug/L	2/5/2015	16:59
Trichloroethene	**5.85**	ug/L	2/5/2015	16:59
Trichlorofluoromethane	< 2.00	ug/L	2/5/2015	16:59
Vinyl chloride	**4.58**	ug/L	2/5/2015	16:59

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-RW-4-PI9
Lab Sample ID: 150382-11 **Date Sampled:** 2/4/2015
Matrix: Groundwater **Date Received:** 2/4/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**102**	80.4 - 116		2/5/2015	16:59
4-Bromofluorobenzene	**87.6**	87 - 109		2/5/2015	16:59
Pentafluorobenzene	**100**	92.8 - 109		2/5/2015	16:59
Toluene-D8	**92.4**	92.1 - 107		2/5/2015	16:59

Method Reference(s): EPA 8260C
EPA 5030
Data File: x20337.D

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Wednesday, February 18, 2015

Quantitation Report (QT Reviewed)

Data File: C:\msdchem\1\DATA\150205\x20337.D
DataAcq Meth:8260RUN.M
Acq On : 5 Feb 2015 4:59 pm Operator: Bill Brew
Sample : 150382-11_5 Inst : Instrument #1
Misc : Water_JVASP08
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 05 17:15:52 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE

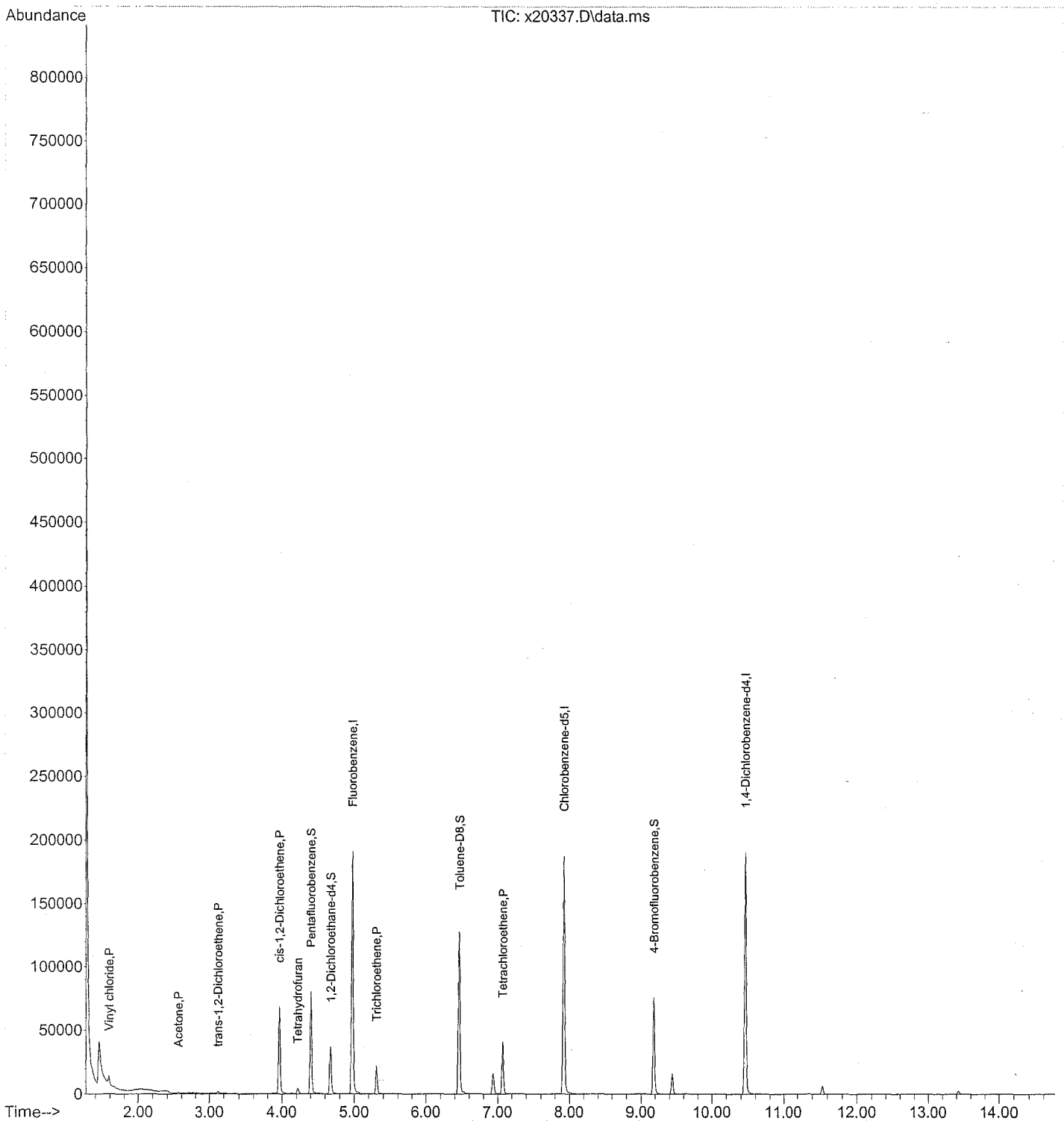
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.976	96	152005	50.00	ug/L	0.00
58) Chlorobenzene-d5	7.922	117	105895	50.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	10.457	152	52940	50.00	ug/L	0.00
System Monitoring Compounds						
27) Pentafluorobenzene	4.405	168	48251	30.06	ug/L	0.00
Spiked Amount 30.000	Range 93 - 109		Recovery = 100.20%			
31) 1,2-Dichloroethane-d4	4.677	65	23062	30.48	ug/L	0.00
Spiked Amount 30.000	Range 80 - 116		Recovery = 101.60%			
49) Toluene-D8	6.465	98	79269	27.72	ug/L	0.00
Spiked Amount 30.000	Range 92 - 107		Recovery = 92.40%			
68) 4-Bromofluorobenzene	9.182	95	26220	26.27	ug/L	0.00
Spiked Amount 30.000	Range 87 - 109		Recovery = 87.57%			
Target Compounds						Qvalue
4) Vinyl chloride	1.587	62	4488	4.58	ug/L #	55
11) Acetone	2.553	43	718	1.60	ug/L	90
19) trans-1,2-Dichloroethene	3.124	61	476	0.35	ug/L	92
24) cis-1,2-Dichloroethene	3.962	96	25860	23.72	ug/L	96
28) Tetrahydrofuran	4.218	42	2614	10.83	ug/L	97
35) Trichloroethene	5.307	130	6504	5.85	ug/L	95
54) Tetrachloroethene	7.074	166	11766	9.17	ug/L	96

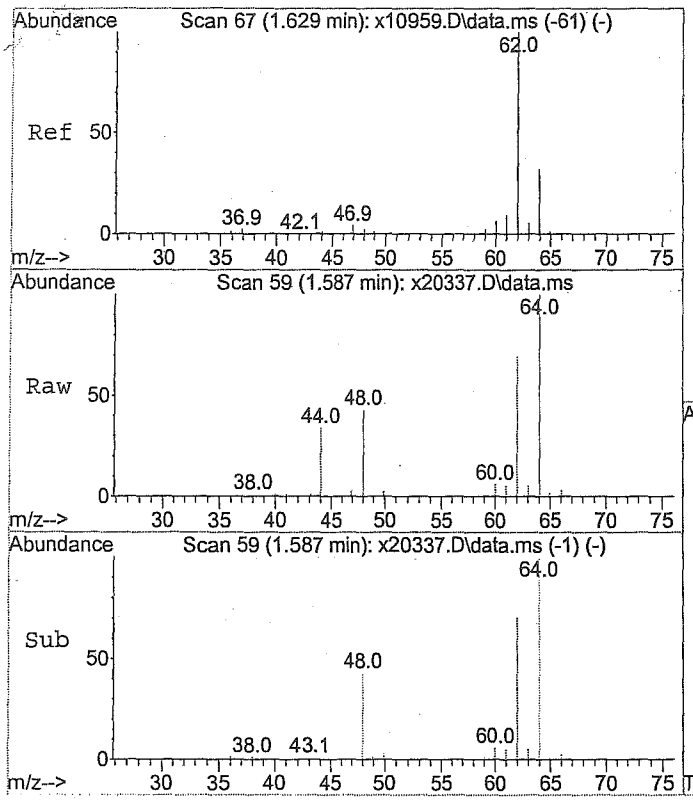
(#) = qualifier out of range (m) = manual integration (+) = signals summed

2/5 BJ3

Data File: C:\msdchem\1\DATA\150205\x20337.D
DataAcq Meth:8260RUN.M
Acq On : 5 Feb 2015 4:59 pm Operator: Bill Brew
Sample : 150382-11_5 Inst : Instrument #1
Misc : Water_JVASP08
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 05 17:15:52 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE

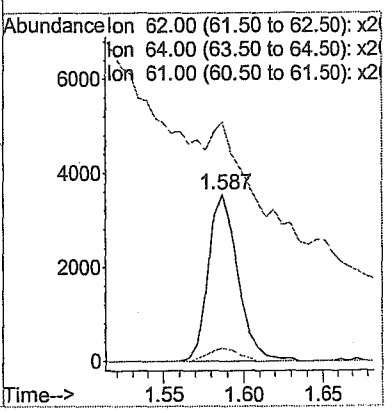




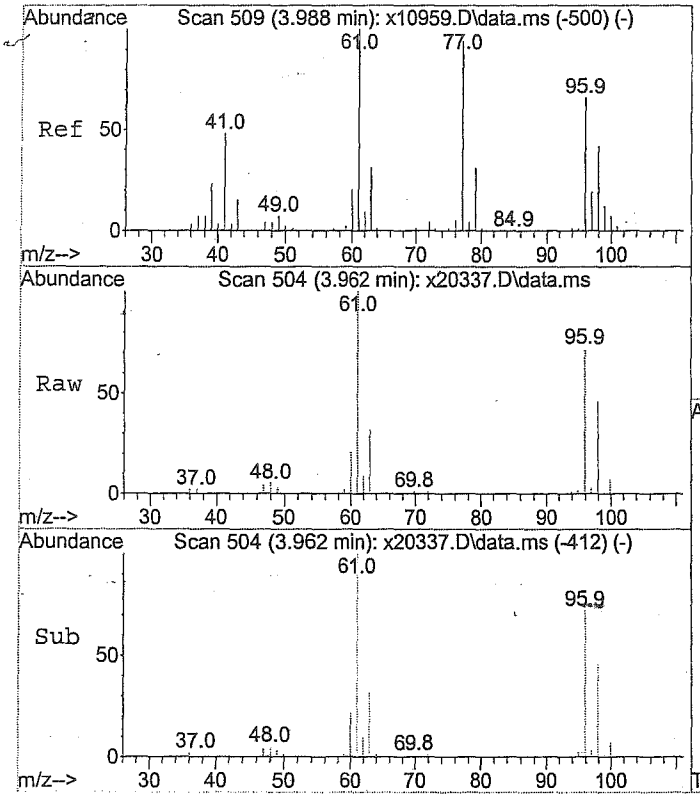
#4
Vinyl chloride
Concen: 4.58 ug/L
RT: 1.587 min Scan# 59
Delta R.T. -0.010 min
Lab File: x20337.D
Acq: 5 Feb 2015 4:59 pm

Tgt Ion: 62 Resp: 4488

Ion	Ratio	Lower	Upper
62	100		
64	0.0	11.3	51.3#
61	7.9	0.0	28.3



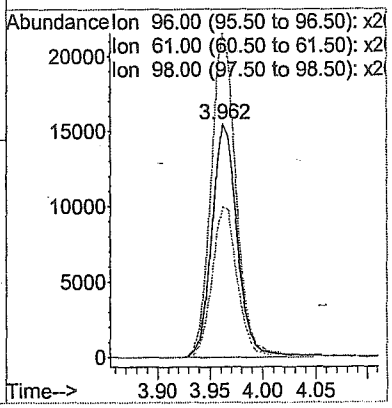
2/5/13/3

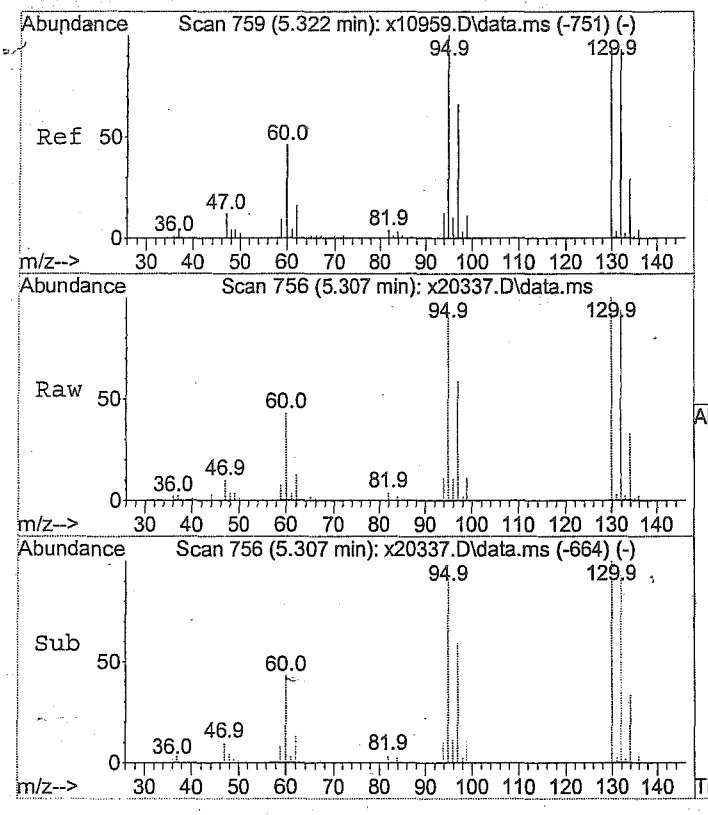


#24
cis-1,2-Dichloroethene
Concen: 23.72 ug/L
RT: 3.962 min Scan# 504
Delta R.T. -0.010 min
Lab File: x20337.D
Acq: 5 Feb 2015 4:59 pm

Tgt Ion: 96 Resp: 25860

Ion	Ratio	Lower	Upper
96	100		
61	139.0	125.2	165.2
98	64.8	45.7	85.7

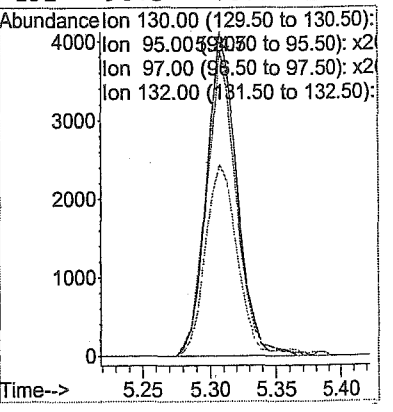


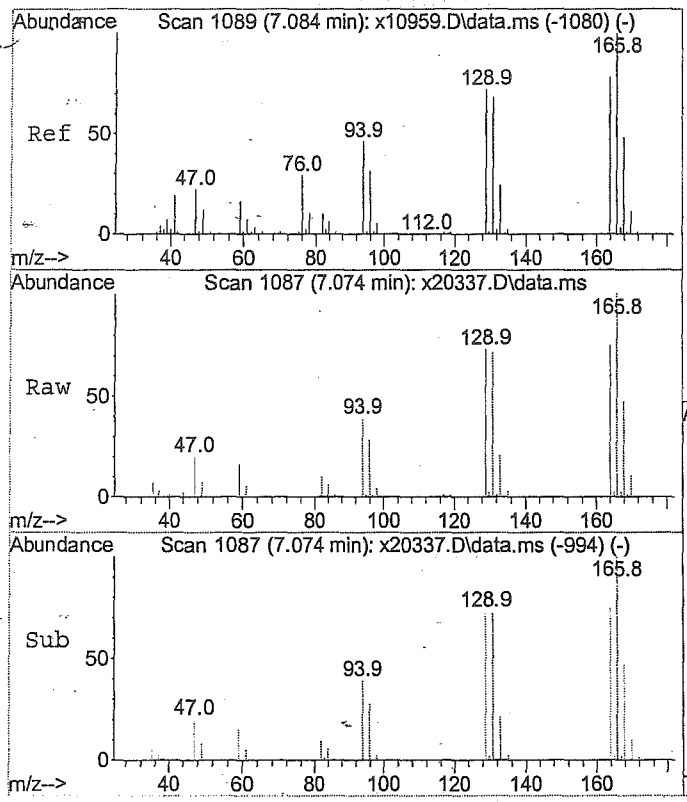


#35
Trichloroethene
Concen: 5.85 ug/L
RT: 5.307 min Scan# 756
Delta R.T. -0.010 min
Lab File: x20337.D
Acq: 5 Feb 2015 4:59 pm

Tgt Ion:130 Resp: 6504

Ion	Ratio	Lower	Upper
130	100		
95	93.9	81.8	121.8
97	62.2	47.0	87.0
132	96.3	76.4	116.4

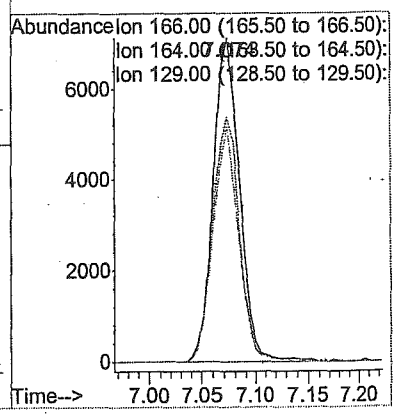




#54
Tetrachloroethene
Concen: 9.17 ug/L
RT: 7.074 min Scan# 1087
Delta R.T. -0.004 min
Lab File: x20337.D
Acq: 5 Feb 2015 4:59 pm

Tgt Ion:166 Resp: 11766

Ion	Ratio	Lower	Upper
166	100		
164	76.8	58.1	98.1
129	70.3	55.4	95.4



PARADIGM

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-RW-9-PI9
Lab Sample ID: 150382-12 **Date Sampled:** 2/4/2015
Matrix: Groundwater **Date Received:** 2/4/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/5/2015 16:36
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/5/2015 16:36
1,1,2-Trichloroethane	< 2.00	ug/L		2/5/2015 16:36
1,1-Dichloroethane	< 2.00	ug/L		2/5/2015 16:36
1,1-Dichloroethene	< 2.00	ug/L		2/5/2015 16:36
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/5/2015 16:36
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/5/2015 16:36
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/5/2015 16:36
1,2-Dibromoethane	< 2.00	ug/L		2/5/2015 16:36
1,2-Dichlorobenzene	< 2.00	ug/L		2/5/2015 16:36
1,2-Dichloroethane	< 2.00	ug/L		2/5/2015 16:36
1,2-Dichloropropane	< 2.00	ug/L		2/5/2015 16:36
1,3-Dichlorobenzene	< 2.00	ug/L		2/5/2015 16:36
1,4-Dichlorobenzene	< 2.00	ug/L		2/5/2015 16:36
1,4-dioxane	< 20.0	ug/L		2/5/2015 16:36
2-Butanone	< 10.0	ug/L		2/5/2015 16:36
2-Hexanone	< 5.00	ug/L		2/5/2015 16:36
4-Methyl-2-pentanone	< 5.00	ug/L		2/5/2015 16:36
Acetone	< 10.0	ug/L		2/5/2015 16:36
Benzene	< 0.700	ug/L		2/5/2015 16:36
Bromochloromethane	< 5.00	ug/L		2/5/2015 16:36
Bromodichloromethane	< 2.00	ug/L		2/5/2015 16:36
Bromoform	< 5.00	ug/L		2/5/2015 16:36
Bromomethane	< 2.00	ug/L		2/5/2015 16:36
Carbon disulfide	< 2.00	ug/L		2/5/2015 16:36
Carbon Tetrachloride	< 2.00	ug/L		2/5/2015 16:36
Chlorobenzene	< 2.00	ug/L		2/5/2015 16:36

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Report Prepared Wednesday, February 18, 2015

PARADIGM

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-RW-9-PI9
Lab Sample ID: 150382-12 **Date Sampled:** 2/4/2015
Matrix: Groundwater **Date Received:** 2/4/2015

Chloroethane	< 2.00	ug/L		2/5/2015	16:36
Chloroform	< 2.00	ug/L		2/5/2015	16:36
Chloromethane	< 2.00	ug/L		2/5/2015	16:36
cis-1,2-Dichloroethene	**1.66**	ug/L	J	2/5/2015	16:36
cis-1,3-Dichloropropene	< 2.00	ug/L		2/5/2015	16:36
Cyclohexane	< 10.0	ug/L		2/5/2015	16:36
Dibromochloromethane	< 2.00	ug/L		2/5/2015	16:36
Dichlorodifluoromethane	< 2.00	ug/L		2/5/2015	16:36
Ethylbenzene	< 2.00	ug/L		2/5/2015	16:36
Freon 113	< 2.00	ug/L		2/5/2015	16:36
Isopropylbenzene	< 2.00	ug/L		2/5/2015	16:36
m,p-Xylene	< 2.00	ug/L		2/5/2015	16:36
Methyl acetate	< 2.00	ug/L		2/5/2015	16:36
Methyl tert-butyl Ether	< 2.00	ug/L		2/5/2015	16:36
Methylcyclohexane	< 2.00	ug/L		2/5/2015	16:36
Methylene chloride	< 5.00	ug/L		2/5/2015	16:36
o-Xylene	< 2.00	ug/L		2/5/2015	16:36
Styrene	< 5.00	ug/L		2/5/2015	16:36
Tetrachloroethene	**2.67**	ug/L		2/5/2015	16:36
Toluene	< 2.00	ug/L		2/5/2015	16:36
trans-1,2-Dichloroethene	< 2.00	ug/L		2/5/2015	16:36
trans-1,3-Dichloropropene	< 2.00	ug/L		2/5/2015	16:36
Trichloroethene	**2.45**	ug/L		2/5/2015	16:36
Trichlorofluoromethane	< 2.00	ug/L		2/5/2015	16:36
Vinyl chloride	< 2.00	ug/L		2/5/2015	16:36

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PARADIGM

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-RW-9-PI9
Lab Sample ID: 150382-12 **Date Sampled:** 2/4/2015
Matrix: Groundwater **Date Received:** 2/4/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**99.9**	80.4 - 116		2/5/2015	16:36
4-Bromofluorobenzene	**94.0**	87 - 109		2/5/2015	16:36
Pentafluorobenzene	**96.5**	92.8 - 109		2/5/2015	16:36
Toluene-D8	**93.5**	92.1 - 107		2/5/2015	16:36

Method Reference(s): EPA 8260C
EPA 5030
Data File: x20336.D

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Wednesday, February 18, 2015

Quantitation Report (QT Reviewed)

Data File: C:\msdchem\1\DATA\150205\x20336.D
DataAcq Meth:8260RUN.M
Acq On : 5 Feb 2015 4:36 pm
Sample : 150382-12_5
Misc : Water_JVASP08
ALS Vial : 16 Sample Multiplier: 1

Operator: Bill Brew
Inst : Instrument #1

Quant Time: Feb 05 16:52:10 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.973	96	155126	50.00	ug/L	0.00
58) Chlorobenzene-d5	7.925	117	105133	50.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	10.460	152	54939	50.00	ug/L	0.00
System Monitoring Compounds						
27) Pentafluorobenzene	4.408	168	47405	28.94	ug/L	0.00
Spiked Amount 30.000	Range 93 - 109		Recovery = 96.47%			
31) 1,2-Dichloroethane-d4	4.675	65	23132	29.96	ug/L	0.00
Spiked Amount 30.000	Range 80 - 116		Recovery = 99.87%			
49) Toluene-D8	6.462	98	81859	28.05	ug/L	0.00
Spiked Amount 30.000	Range 92 - 107		Recovery = 93.50%			
68) 4-Bromofluorobenzene	9.179	95	27932	28.19	ug/L	0.00
Spiked Amount 30.000	Range 87 - 109		Recovery = 93.97%			
Target Compounds						Qvalue
11) Acetone	2.551	43	637	1.23	ug/L	99
24) cis-1,2-Dichloroethene	3.965	96	1851	1.66	ug/L	97
35) Trichloroethene	5.310	130	2777	2.45	ug/L	95
54) Tetrachloroethene	7.071	166	3494	2.67	ug/L	99

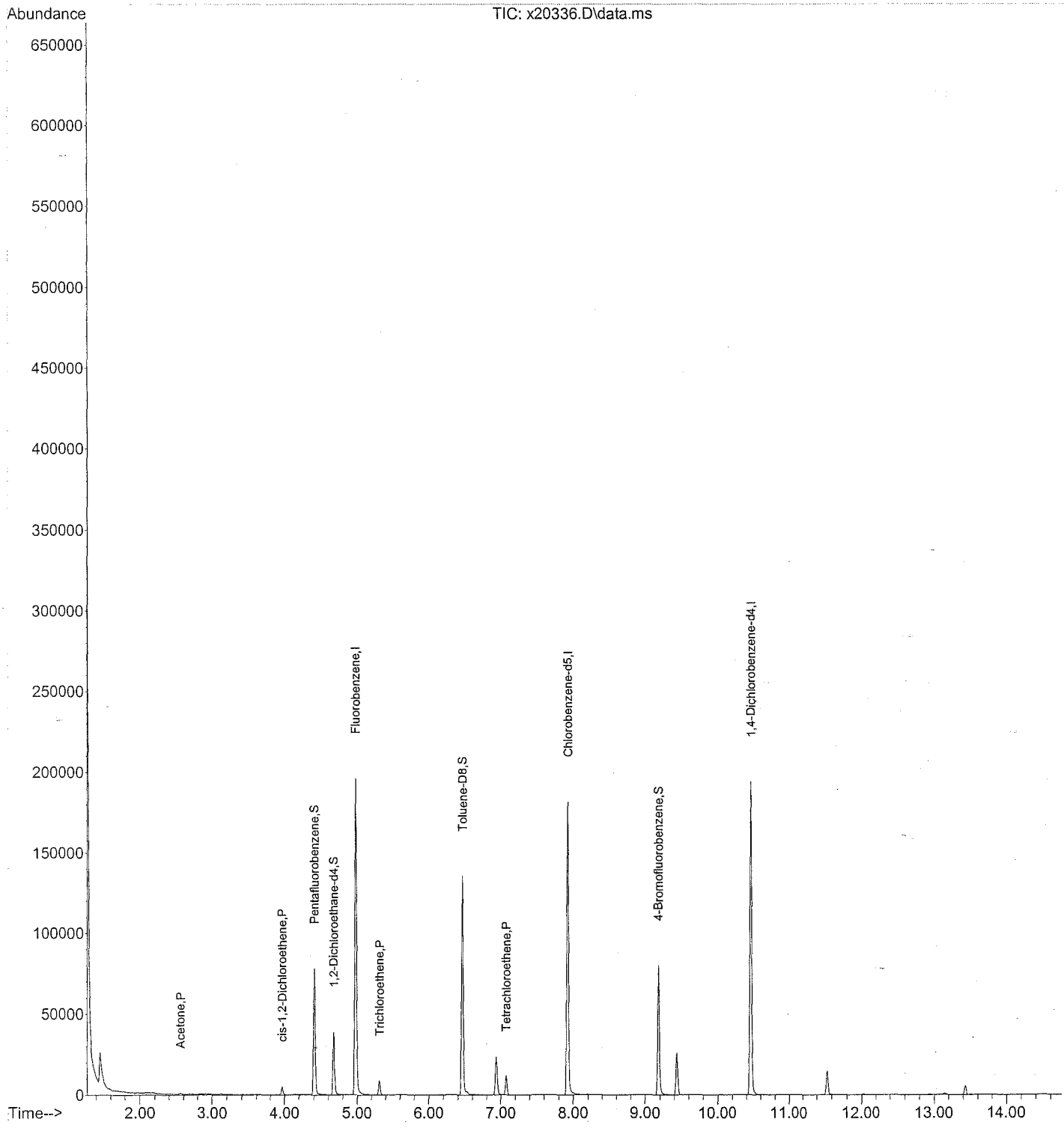
2/5 B/3

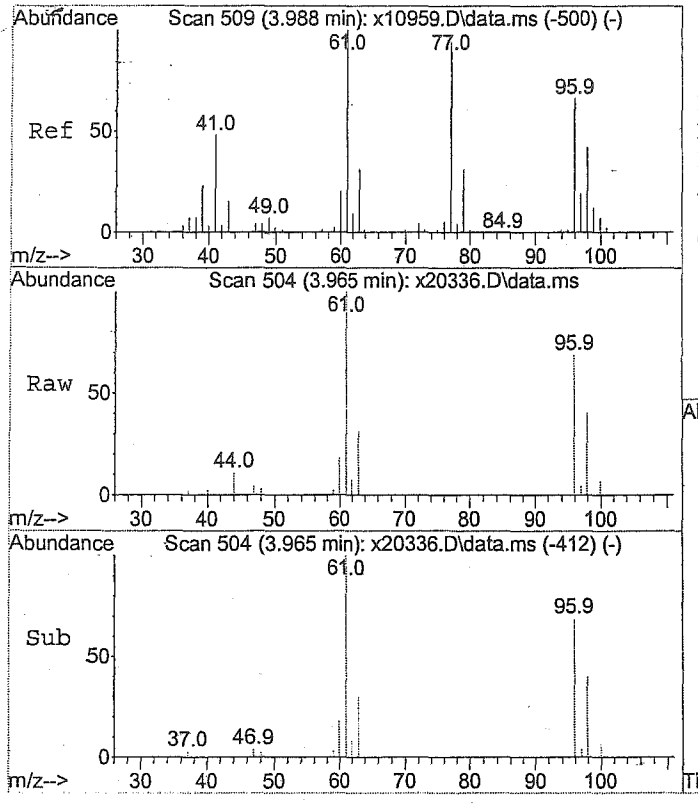
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File: C:\msdchem\1\DATA\150205\x20336.D
DataAcq Meth:8260RUN.M
Acq On : 5 Feb 2015 4:36 pm Operator: Bill Brew
Sample : 150382-12_5 Inst : Instrument #1
Misc : Water_JVASP08
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 05 16:52:10 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE



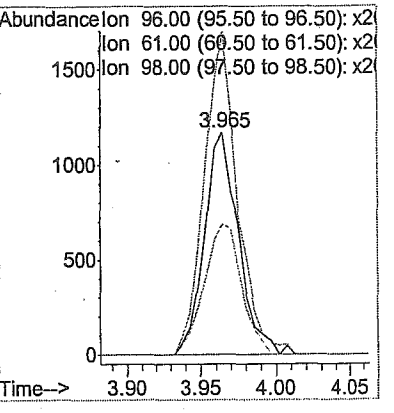


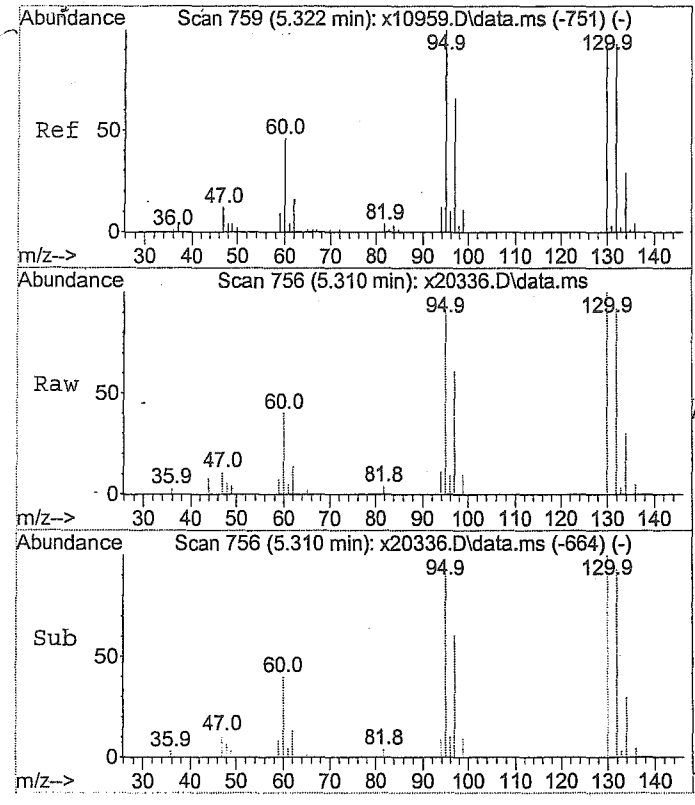
#24
cis-1,2-Dichloroethene
Concen: 1.66 ug/L
RT: 3.965 min Scan# 504
Delta R.T. -0.007 min
Lab File: x20336.D
Acq: 5 Feb 2015 4:36 pm

2/5 BJB

Tgt Ion: 96 Resp: 1851

Ion	Ratio	Lower	Upper
96	100		
61	140.7	125.2	165.2
98	64.0	45.7	85.7

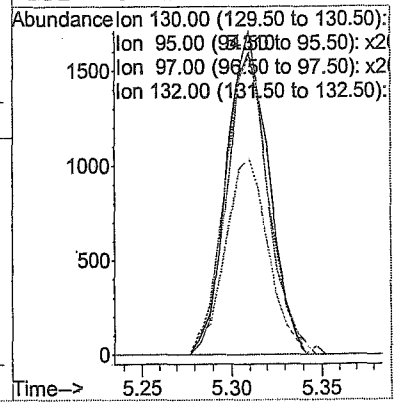


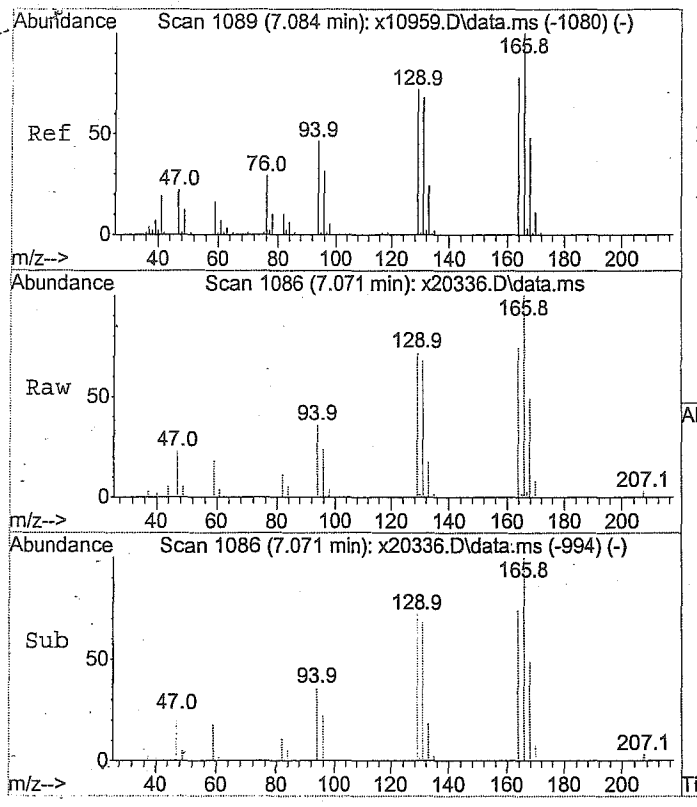


#35
Trichloroethene
Concen: 2.45 ug/L
RT: 5.310 min Scan# 756
Delta R.T. -0.007 min
Lab File: x20336.D
Acq: 5 Feb 2015 4:36 pm

Tgt Ion:130 Resp: 2777

Ion	Ratio	Lower	Upper
130	100		
95	95.8	81.8	121.8
97	62.5	47.0	87.0
132	92.2	76.4	116.4

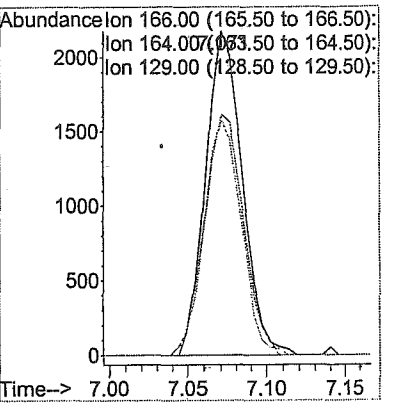




#54
Tetrachloroethene
Concen: 2.67 ug/L
RT: 7.071 min Scan# 1086
Delta R.T. -0.007 min
Lab File: x20336.D
Acq: 5 Feb 2015 4:36 pm

Tgt Ion:166 Resp: 3494

Ion	Ratio	Lower	Upper
166	100		
164	77.6	58.1	98.1
129	74.1	55.4	95.4



PARADIGM

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier:	LI-DUP-PI9		
Lab Sample ID:	150382-13	**Date Sampled:**	2/3/2015
Matrix:	Groundwater	**Date Received:**	2/4/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/5/2015 16:12
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/5/2015 16:12
1,1,2-Trichloroethane	< 2.00	ug/L		2/5/2015 16:12
1,1-Dichloroethane	< 2.00	ug/L		2/5/2015 16:12
1,1-Dichloroethene	< 2.00	ug/L		2/5/2015 16:12
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/5/2015 16:12
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/5/2015 16:12
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/5/2015 16:12
1,2-Dibromoethane	< 2.00	ug/L		2/5/2015 16:12
1,2-Dichlorobenzene	< 2.00	ug/L		2/5/2015 16:12
1,2-Dichloroethane	< 2.00	ug/L		2/5/2015 16:12
1,2-Dichloropropane	< 2.00	ug/L		2/5/2015 16:12
1,3-Dichlorobenzene	< 2.00	ug/L		2/5/2015 16:12
1,4-Dichlorobenzene	< 2.00	ug/L		2/5/2015 16:12
1,4-dioxane	< 20.0	ug/L		2/5/2015 16:12
2-Butanone	< 10.0	ug/L		2/5/2015 16:12
2-Hexanone	< 5.00	ug/L		2/5/2015 16:12
4-Methyl-2-pentanone	< 5.00	ug/L		2/5/2015 16:12
Acetone	< 10.0	ug/L		2/5/2015 16:12
Benzene	< 0.700	ug/L		2/5/2015 16:12
Bromochloromethane	< 5.00	ug/L		2/5/2015 16:12
Bromodichloromethane	< 2.00	ug/L		2/5/2015 16:12
Bromoform	< 5.00	ug/L		2/5/2015 16:12
Bromomethane	< 2.00	ug/L		2/5/2015 16:12
Carbon disulfide	< 2.00	ug/L		2/5/2015 16:12
Carbon Tetrachloride	< 2.00	ug/L		2/5/2015 16:12
Chlorobenzene	< 2.00	ug/L		2/5/2015 16:12

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Report Prepared Wednesday, February 18, 2015

PARADIGM

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-DUP-PI9
Lab Sample ID: 150382-13
Matrix: Groundwater
Date Sampled: 2/3/2015
Date Received: 2/4/2015

Chloroethane	< 2.00	ug/L	2/5/2015	16:12
Chloroform	< 2.00	ug/L	2/5/2015	16:12
Chloromethane	< 2.00	ug/L	2/5/2015	16:12
cis-1,2-Dichloroethene	< 2.00	ug/L	2/5/2015	16:12
cis-1,3-Dichloropropene	< 2.00	ug/L	2/5/2015	16:12
Cyclohexane	< 10.0	ug/L	2/5/2015	16:12
Dibromochloromethane	< 2.00	ug/L	2/5/2015	16:12
Dichlorodifluoromethane	< 2.00	ug/L	2/5/2015	16:12
Ethylbenzene	< 2.00	ug/L	2/5/2015	16:12
Freon 113	< 2.00	ug/L	2/5/2015	16:12
Isopropylbenzene	< 2.00	ug/L	2/5/2015	16:12
m,p-Xylene	< 2.00	ug/L	2/5/2015	16:12
Methyl acetate	< 2.00	ug/L	2/5/2015	16:12
Methyl tert-butyl Ether	< 2.00	ug/L	2/5/2015	16:12
Methylcyclohexane	< 2.00	ug/L	2/5/2015	16:12
Methylene chloride	< 5.00	ug/L	2/5/2015	16:12
o-Xylene	< 2.00	ug/L	2/5/2015	16:12
Styrene	< 5.00	ug/L	2/5/2015	16:12
Tetrachloroethene	< 2.00	ug/L	2/5/2015	16:12
Toluene	< 2.00	ug/L	2/5/2015	16:12
trans-1,2-Dichloroethene	< 2.00	ug/L	2/5/2015	16:12
trans-1,3-Dichloropropene	< 2.00	ug/L	2/5/2015	16:12
Trichloroethene	< 2.00	ug/L	2/5/2015	16:12
Trichlorofluoromethane	< 2.00	ug/L	2/5/2015	16:12
Vinyl chloride	**11.9**	ug/L	2/5/2015	16:12

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PARADIGM
ENVIRONMENTAL SERVICES, INC

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-DUP-PI9
Lab Sample ID: 150382-13 **Date Sampled:** 2/3/2015
Matrix: Groundwater **Date Received:** 2/4/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**99.7**	80.4 - 116		2/5/2015	16:12
4-Bromofluorobenzene	**91.8**	87 - 109		2/5/2015	16:12
Pentafluorobenzene	**98.8**	92.8 - 109		2/5/2015	16:12
Toluene-D8	**93.7**	92.1 - 107		2/5/2015	16:12

Method Reference(s): EPA 8260C
EPA 5030
Data File: x20335.D

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Wednesday, February 18, 2015

Quantitation Report (QT Reviewed)

Data File: C:\msdchem\1\DATA\150205\x20335.D
DataAcq Meth:8260RUN.M
Acq On : 5 Feb 2015 4:12 pm Operator: Bill Brew
Sample : 150382-13_5 Inst : Instrument #1
Misc : Water_JVASP08
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 05 16:30:08 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.976	96	158543	50.00	ug/L	0.00
58) Chlorobenzene-d5	7.922	117	110404	50.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	10.457	152	56015	50.00	ug/L	0.00
System Monitoring Compounds						
27) Pentafluorobenzene	4.405	168	49640	29.65	ug/L	0.00
Spiked Amount 30.000	Range 93 - 109		Recovery = 98.83%			
31) 1,2-Dichloroethane-d4	4.677	65	23596	29.90	ug/L	0.00
Spiked Amount 30.000	Range 80 - 116		Recovery = 99.67%			
49) Toluene-D8	6.465	98	83828	28.10	ug/L	0.00
Spiked Amount 30.000	Range 92 - 107		Recovery = 93.67%			
68) 4-Bromofluorobenzene	9.181	95	28658	27.54	ug/L	0.00
Spiked Amount 30.000	Range 87 - 109		Recovery = 91.80%			
Target Compounds						Qvalue
4) Vinyl chloride	1.587	62	12190	11.92	ug/L	# 1
11) Acetone	2.558	43	1070	2.82	ug/L	99
19) trans-1,2-Dichloroethene	3.124	61	651	0.46	ug/L	90
24) cis-1,2-Dichloroethene	3.962	96	576	0.51	ug/L	96
28) Tetrahydrofuran	4.218	42	2709	10.76	ug/L	96

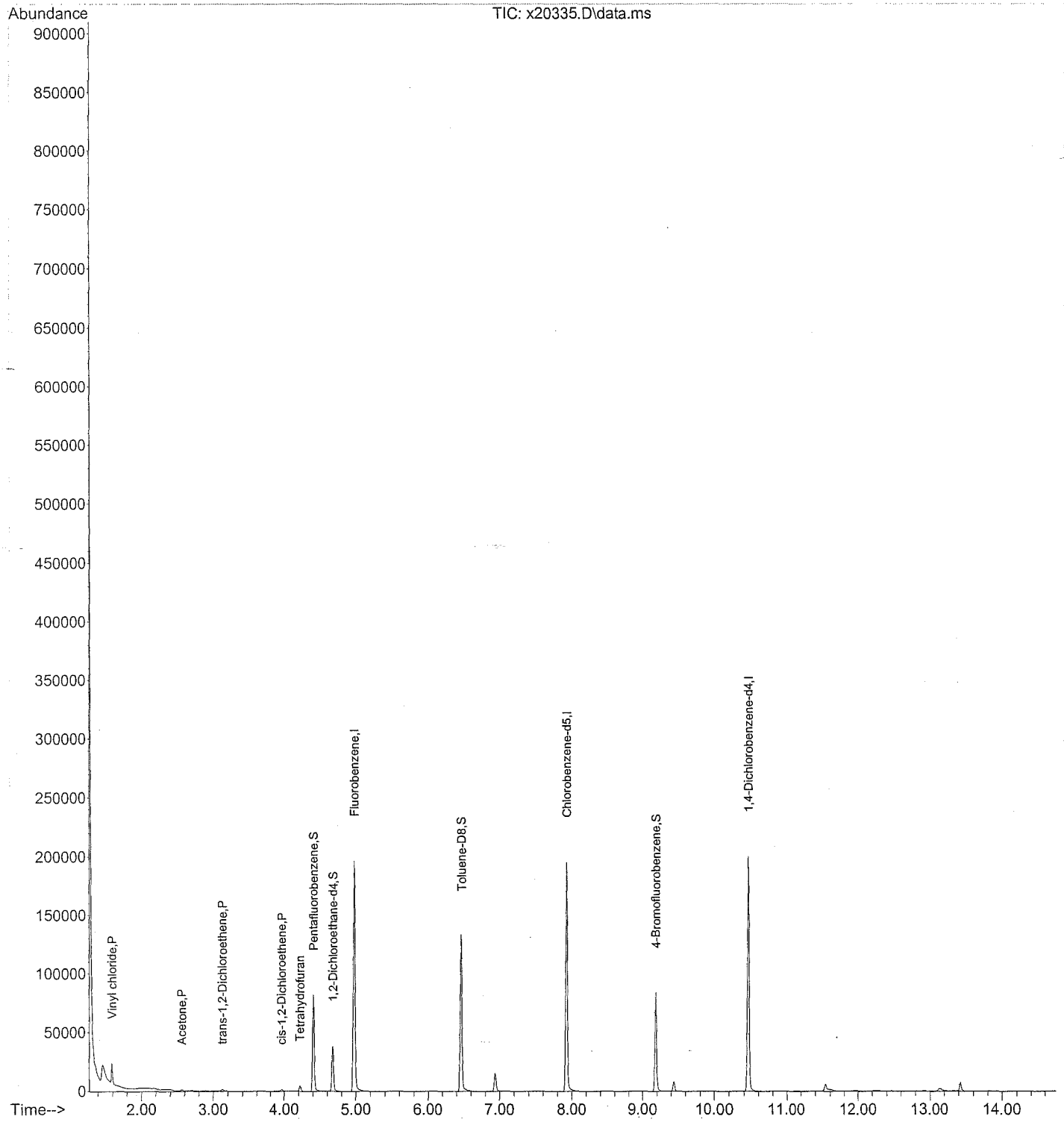
(#) = qualifier out of range (m) = manual integration (+) = signals summed

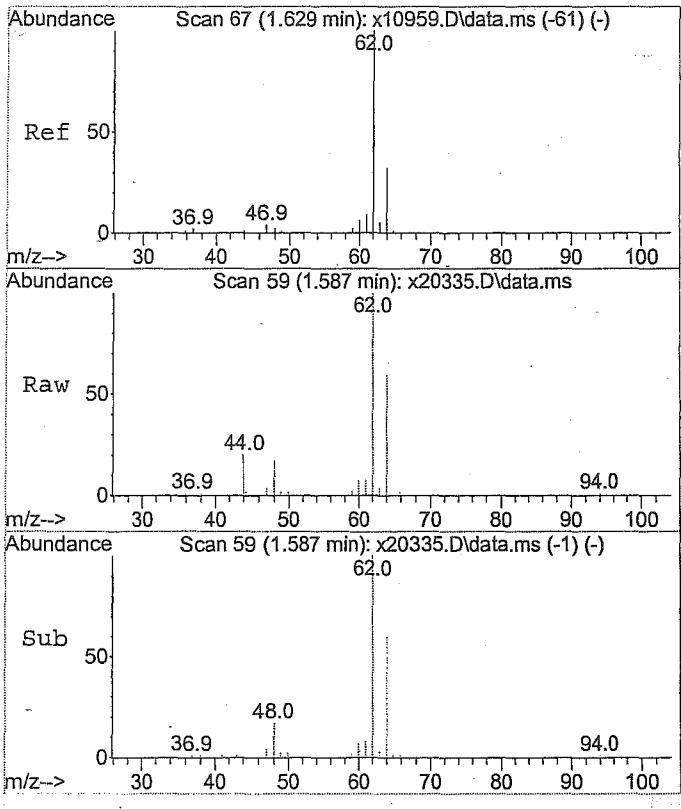
2/5 BB

Quantitation Report (QT Reviewed)

Data File: C:\msdchem\1\DATA\150205\x20335.D
DataAcq Meth:8260RUN.M
Acq On : 5 Feb 2015 4:12 pm Operator: Bill Brew
Sample : 150382-13_5 Inst : Instrument #1
Misc : Water_JVASP08
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 05 16:30:08 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE



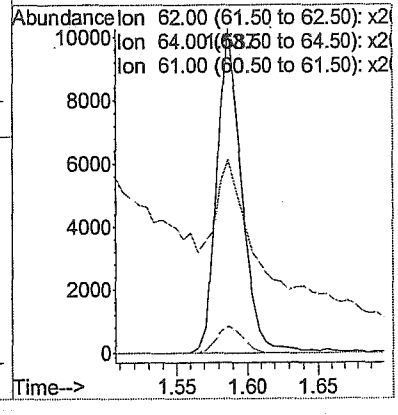


#4
Vinyl chloride
Concen: 11.92 ug/L
RT: 1.587 min Scan# 59
Delta R.T. -0.010 min
Lab File: x20335.D
Acq: 5 Feb 2015 4:12 pm

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Tgt Ion: 62 Resp: 12190

Ion	Ratio	Lower	Upper
62	100		
64	142.8	11.3	51.3#
61	8.5	0.0	28.3



PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-TRIPBLANK-PI9 (T-586)
Lab Sample ID: 150382-14 **Date Sampled:** 2/3/2015
Matrix: Water **Date Received:** 2/4/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/5/2015 15:49
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/5/2015 15:49
1,1,2-Trichloroethane	< 2.00	ug/L		2/5/2015 15:49
1,1-Dichloroethane	< 2.00	ug/L		2/5/2015 15:49
1,1-Dichloroethene	< 2.00	ug/L		2/5/2015 15:49
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/5/2015 15:49
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/5/2015 15:49
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/5/2015 15:49
1,2-Dibromoethane	< 2.00	ug/L		2/5/2015 15:49
1,2-Dichlorobenzene	< 2.00	ug/L		2/5/2015 15:49
1,2-Dichloroethane	< 2.00	ug/L		2/5/2015 15:49
1,2-Dichloropropane	< 2.00	ug/L		2/5/2015 15:49
1,3-Dichlorobenzene	< 2.00	ug/L		2/5/2015 15:49
1,4-Dichlorobenzene	< 2.00	ug/L		2/5/2015 15:49
1,4-dioxane	< 20.0	ug/L		2/5/2015 15:49
2-Butanone	< 10.0	ug/L		2/5/2015 15:49
2-Hexanone	< 5.00	ug/L		2/5/2015 15:49
4-Methyl-2-pentanone	< 5.00	ug/L		2/5/2015 15:49
Acetone	< 10.0	ug/L		2/5/2015 15:49
Benzene	< 0.700	ug/L		2/5/2015 15:49
Bromochloromethane	< 5.00	ug/L		2/5/2015 15:49
Bromodichloromethane	< 2.00	ug/L		2/5/2015 15:49
Bromoform	< 5.00	ug/L		2/5/2015 15:49
Bromomethane	< 2.00	ug/L		2/5/2015 15:49
Carbon disulfide	< 2.00	ug/L		2/5/2015 15:49
Carbon Tetrachloride	< 2.00	ug/L		2/5/2015 15:49
Chlorobenzene	< 2.00	ug/L		2/5/2015 15:49

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Report Prepared Wednesday, February 18, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier:	LI-TRIPBLANK-PI9 (T-586)		
Lab Sample ID:	150382-14	**Date Sampled:**	2/3/2015
Matrix:	Water	**Date Received:**	2/4/2015

Chloroethane	< 2.00	ug/L	2/5/2015 15:49
Chloroform	< 2.00	ug/L	2/5/2015 15:49
Chloromethane	< 2.00	ug/L	2/5/2015 15:49
cis-1,2-Dichloroethene	< 2.00	ug/L	2/5/2015 15:49
cis-1,3-Dichloropropene	< 2.00	ug/L	2/5/2015 15:49
Cyclohexane	< 10.0	ug/L	2/5/2015 15:49
Dibromochloromethane	< 2.00	ug/L	2/5/2015 15:49
Dichlorodifluoromethane	< 2.00	ug/L	2/5/2015 15:49
Ethylbenzene	< 2.00	ug/L	2/5/2015 15:49
Freon 113	< 2.00	ug/L	2/5/2015 15:49
Isopropylbenzene	< 2.00	ug/L	2/5/2015 15:49
m,p-Xylene	< 2.00	ug/L	2/5/2015 15:49
Methyl acetate	< 2.00	ug/L	2/5/2015 15:49
Methyl tert-butyl Ether	< 2.00	ug/L	2/5/2015 15:49
Methylcyclohexane	< 2.00	ug/L	2/5/2015 15:49
Methylene chloride	< 5.00	ug/L	2/5/2015 15:49
o-Xylene	< 2.00	ug/L	2/5/2015 15:49
Styrene	< 5.00	ug/L	2/5/2015 15:49
Tetrachloroethene	< 2.00	ug/L	2/5/2015 15:49
Toluene	< 2.00	ug/L	2/5/2015 15:49
trans-1,2-Dichloroethene	< 2.00	ug/L	2/5/2015 15:49
trans-1,3-Dichloropropene	< 2.00	ug/L	2/5/2015 15:49
Trichloroethene	< 2.00	ug/L	2/5/2015 15:49
Trichlorofluoromethane	< 2.00	ug/L	2/5/2015 15:49
Vinyl chloride	< 2.00	ug/L	2/5/2015 15:49

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-TRIPBLANK-PI9 (T-586)
Lab Sample ID: 150382-14 **Date Sampled:** 2/3/2015
Matrix: Water **Date Received:** 2/4/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**100**	80.4 - 116		2/5/2015	15:49
4-Bromofluorobenzene	**92.9**	87 - 109		2/5/2015	15:49
Pentafluorobenzene	**97.8**	92.8 - 109		2/5/2015	15:49
Toluene-D8	**93.3**	92.1 - 107		2/5/2015	15:49

Method Reference(s): EPA 8260C
EPA 5030
Data File: x20334.D

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Report Prepared Wednesday, February 18, 2015

Data File: C:\msdchem\1\DATA\150205\x20334.D
DataAcq Meth:8260RUN.M
Acq On : 5 Feb 2015 3:49 pm Operator: Bill Brew
Sample : 150382-14_5 Inst : Instrument #1
Misc : Water_JVASP08
ALS Vial : 14 Sample Multiplier: 1

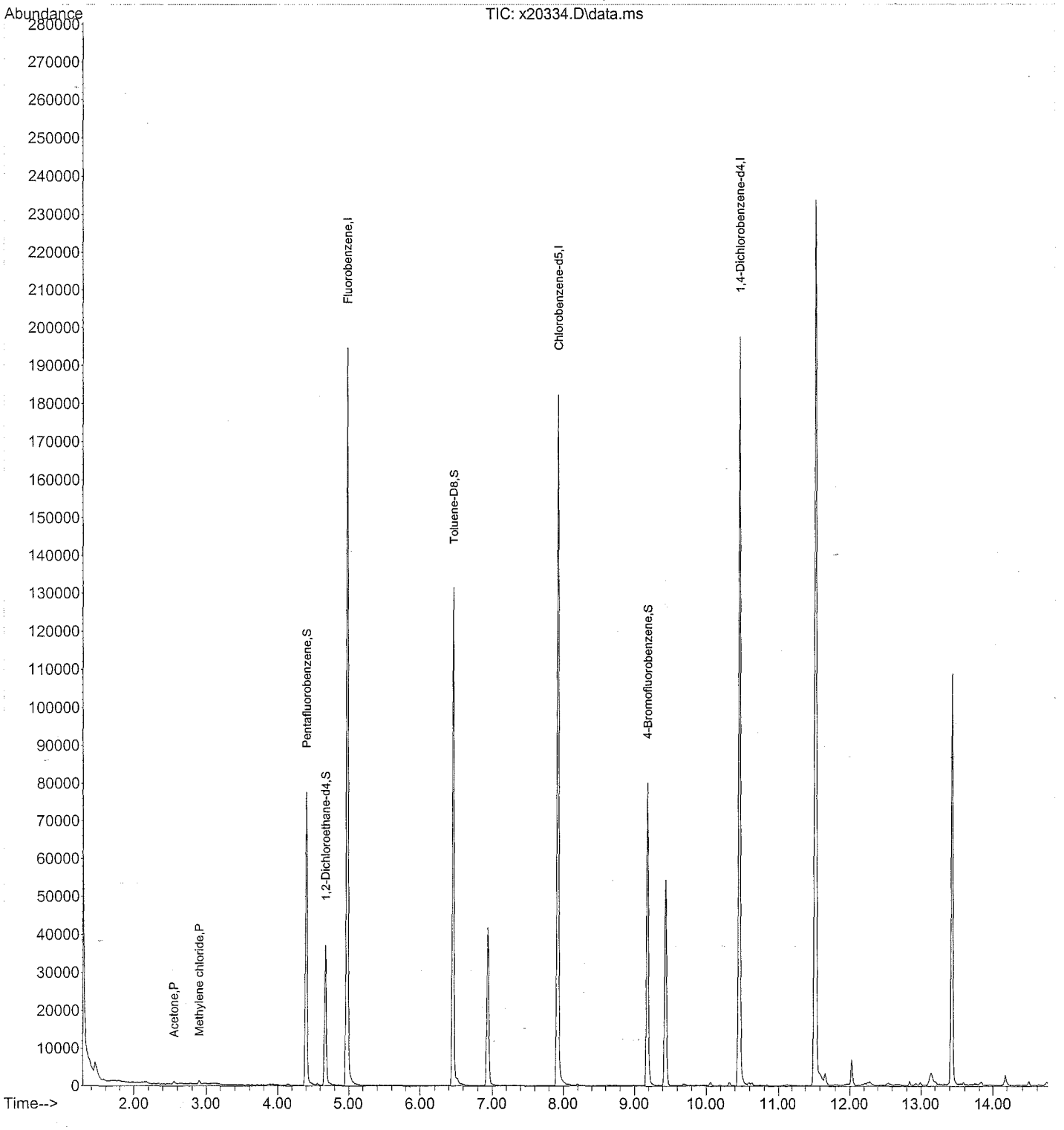
Quant Time: Feb 05 16:12:59 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.973	96	154699	50.00	ug/L	0.00
58) Chlorobenzene-d5	7.924	117	107586	50.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	10.459	152	55622	50.00	ug/L	0.00
System Monitoring Compounds						
27) Pentafluorobenzene	4.408	168	47927	29.34	ug/L	0.00
Spiked Amount 30.000	Range 93 - 109		Recovery = 97.80%			
31) 1,2-Dichloroethane-d4	4.674	65	23151	30.06	ug/L	0.00
Spiked Amount 30.000	Range 80 - 116		Recovery = 100.20%			
49) Toluene-D8	6.462	98	81482	27.99	ug/L	0.00
Spiked Amount 30.000	Range 92 - 107		Recovery = 93.30%			
68) 4-Bromofluorobenzene	9.179	95	28268	27.88	ug/L	0.00
Spiked Amount 30.000	Range 87 - 109		Recovery = 92.93%			
Target Compounds						Qvalue
11) Acetone	2.550	43	795	1.85	ug/L	97
15) Methylene chloride	2.897	84	329	0.42	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File: C:\msdchem\1\DATA\150205\x20334.D
DataAcq Meth:8260RUN.M
Acq On : 5 Feb 2015 3:49 pm Operator: Bill Brew
Sample : 150382-14_5 Inst : Instrument #1
Misc : Water_JVASP08
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 05 16:12:59 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE



VOLATILE ORGANICS

STANDARDS DATA

Response Factor Report Instrument #1

Method Path : C:\msdchem\1\METHODS\
Method File : 020215.M
Title : 8260/624 Analysis
Last Update : Tue Feb 03 11:38:56 2015
Response Via : Initial Calibration

Calibration Files
1 =x20253.D 2 =x20254.D 3 =x20255.D 4 =x20256.D 5 =x20257.D 6 =x20258.D 7 =x20259.D

2/3/15 13/3

		Compound	1	2	3	4	5	6	7	Avg	%RSD	
1)	I	Fluorobenzene	----------	----------	ISTD	----------	----------	----------	----------			
2)	P	Dichlorodifluo...	0.326	0.309	0.328	0.308	0.310	0.302	0.305	0.313	3.31	
3)	P	Chloromethane	0.398	0.411	0.448	0.420	0.435	0.429	0.448	0.427	4.37	
4)	P	Vinyl chloride	0.304	0.315	0.338	0.322	0.324	0.321	0.334	0.323	3.57	
5)	P	Bromomethane	0.286	0.189	0.199	0.169	0.163	0.151	0.149	0.187	25.47	*
6)	P	Chloroethane	0.164	0.198	0.199	0.181	0.181	0.173	0.174	0.181	7.29	
7)	P	Trichlorofluor...	0.425	0.423	0.474	0.442	0.440	0.430	0.444	0.439	3.94	
8)		Ethyl ether	0.199	0.189	0.218	0.200	0.204	0.204	0.212	0.204	4.67	
9)	P	Freon 113	0.231	0.221	0.248	0.231	0.230	0.224	0.233	0.231	3.69	
10)	P	1,1-Dichloroet...	0.409	0.402	0.446	0.419	0.418	0.403	0.419	0.416	3.56	
11)	P	Acetone	0.259	0.100	0.091	0.079	0.087	0.082	0.083	0.112	58.71	*
12)		Isopropyl Alcohol		0.011	0.014	0.014	0.014	0.014	0.015	0.014	9.74	
13)	P	Carbon disulfide	0.548	0.574	0.695	0.680	0.699	0.689	0.720	0.658	10.29	
14)	P	Methyl acetate	0.187	0.146	0.152	0.140	0.143	0.141	0.148	0.151	11.01	
15)	P	Methylene chlo...		0.260	0.267	0.247	0.242	0.242	0.249	0.251	4.07	
16)		Acrylonitrile	0.087	0.103	0.083	0.109	0.084	0.082	0.085	0.090	12.11	
17)		tert-Butyl Alc...	0.046	0.021	0.024	0.024	0.025	0.025	0.027	0.028	30.36	*
18)	P	Methyl tert-bu...	0.601	0.715	0.627	0.743	0.661	0.681	0.631	0.666	7.66	
19)	P	trans-1,2-Dich...	0.388	0.514	0.426	0.515	0.435	0.439	0.393	0.444	11.63	
20)	P	1,1-Dichloroet...	0.617	0.643	0.693	0.663	0.663	0.650	0.655	0.655	3.53	
21)		Vinyl acetate	0.553	0.503	0.620	0.614	0.627	0.613	0.632	0.594	8.10	
22)		2,2-Dichloropr...	0.387	0.397	0.472	0.469	0.473	0.472	0.479	0.450	8.84	
23)	P	2-Butanone	0.033	0.028	0.033	0.034	0.033	0.034	0.034	0.033#	6.52	
24)	P	cis-1,2-Dichlo...	0.358	0.343	0.384	0.371	0.362	0.348	0.345	0.359	4.17	
25)		Bromochloromet...	0.170	0.153	0.172	0.165	0.163	0.158	0.158	0.163	4.15	
26)	P	Chloroform	0.658	0.565	0.620	0.602	0.592	0.577	0.580	0.599	5.29	
27)	S	Pentafluoroben...	0.521	0.530	0.533	0.539	0.529	0.518	0.525	0.528	1.34	
28)		Tetrahydrofuran	0.077	0.069	0.080	0.081	0.083	0.082	0.083	0.079	6.16	
29)	P	1,1,1-Trichlor...	0.476	0.451	0.519	0.514	0.511	0.504	0.512	0.498	5.03	
30)	P	Cyclohexane	0.576	0.634	0.747	0.691	0.702	0.680	0.652	0.669	8.20	
31)	S	1,2-Dichloroet...	0.253	0.243	0.247	0.250	0.249	0.252	0.249	0.249	1.27	
32)	P	Carbon Tetrach...	0.390	0.378	0.438	0.443	0.441	0.432	0.442	0.424	6.43	
33)	P	Benzene	1.406	1.290	1.393	1.324	1.284	1.229	1.216	1.306	5.66	
34)	P	1,2-Dichloroet...	0.482	0.421	0.448	0.435	0.423	0.425	0.425	0.437	4.96	
35)	P	Trichloroethene	0.400	0.346	0.371	0.369	0.363	0.356	0.356	0.366	4.75	
36)		tert-Butyl Ace...	0.165	0.121	0.160	0.173	0.182	0.185	0.192	0.168	13.99	
37)	P	Methylcyclohexane	0.509	0.560	0.658	0.630	0.617	0.590	0.596	0.594	8.23	
38)		1,4-Dioxane			0.003	0.004	0.004	0.004	0.004	0.004	14.66	

Initial Calibration Summary Table

* Curve is not avg of response factors

Method Path : C:\msdchem\1\METHODS\
Method File : 020215.M

39)	UN	Ethyl acetate								0.000	-1.00	
40)	P	1,2-Dichloropr...	0.456	0.341	0.379	0.369	0.359	0.352	0.355	0.373	10.37	
41)	UN	Isobutyl alcohol								0.000	-1.00	
42)		Dibromomethane	0.208	0.169	0.182	0.182	0.177	0.174	0.174	0.181	7.05	
43)	P	Bromodichlorom...	0.458	0.336	0.405	0.415	0.424	0.422	0.430	0.413	9.09	
44)		2-Chloroethyl ...		0.009	0.020	0.033	0.039	0.039	0.043	0.031	43.85	*
45)	UN	Isopropyl acetate								0.000	-1.00	
46)		1,1-Dichloropr...	0.440	0.447	0.488	0.459	0.454	0.439	0.443	0.453	3.79	
47)	P	cis-1,3-Dichlo...	0.433	0.319	0.430	0.451	0.460	0.460	0.465	0.431	11.93	
48)	P	4-Methyl-2-pen...	0.131	0.078	0.101	0.114	0.118	0.119	0.124	0.112	15.63	
49)	S	Toluene-D8	0.914	0.915	0.932	0.953	0.954	0.953	0.964	0.941	2.15	
50)	P	Toluene	1.771	1.341	1.478	1.412	1.387	1.317	1.325	1.433	11.12	
51)	P	trans-1,3-Dich...	0.388	0.290	0.379	0.400	0.418	0.423	0.435	0.390	12.48	
52)	P	1,1,2-Trichlor...	0.517	0.269	0.279	0.268	0.267	0.261	0.264	0.304	31.10	*
53)		1,3-Dichloropr...	0.620	0.417	0.459	0.459	0.453	0.443	0.451	0.472	14.18	
54)	P	Tetrachloroethene	0.527	0.381	0.426	0.408	0.404	0.402	0.406	0.422	11.39	
55)	P	2-Hexanone		0.139	0.172	0.194	0.205	0.210	0.216	0.189	15.31	
56)	P	Dibromochlorom...	0.350	0.208	0.276	0.296	0.306	0.309	0.317	0.295	15.00	
57)	P	1,2-Dibromoethane	0.353	0.236	0.268	0.272	0.277	0.276	0.281	0.280	12.55	
58)	I	Chlorobenzene-d5	----------ISTD----------									
59)	P	Chlorobenzene	2.097	1.308	1.381	1.295	1.271	1.210	1.230	1.399	22.37	*
60)		1,1,1,2-Tetrac...	0.662	0.411	0.470	0.454	0.464	0.450	0.459	0.481	16.96	
61)	P	Ethylbenzene	2.936	2.050	2.383	2.233	2.229	2.109	2.110	2.293	13.27	
62)	P	m,p-Xylene	1.187	0.845	0.946	0.867	0.841	0.790	0.777	0.893	15.75	
63)	P	o-Xylene	1.100	0.738	0.881	0.828	0.819	0.776	0.780	0.846	14.27	
64)	P	Styrene	1.673	1.158	1.363	1.316	1.293	1.223	1.225	1.322	12.81	
65)	P	Bromoform	0.295	0.170	0.220	0.240	0.260	0.266	0.275	0.247	16.84	
66)	P	Isopropylbenzene	2.774	1.914	2.330	2.252	2.268	2.126	2.148	2.259	11.70	
67)		1,2,3-Trichlor...		0.133	0.137	0.138	0.139	0.137	0.139	0.137	1.69	
68)	S	4-Bromofluorob...	0.455	0.460	0.469	0.473	0.477	0.482	0.482	0.471	2.22	
69)		Bromobenzene		0.539	0.582	0.556	0.555	0.528	0.520	0.547	4.12	
70)	P	1,1,2,2-Tetrac...	0.971	0.435	0.471	0.461	0.458	0.439	0.444	0.526	37.45	* *
71)		n-Propylbenzene	4.167	2.468	2.778	2.636	2.599	2.455	2.442	2.792	22.15	
72)		2-Chlorotoluene		0.517	0.567	0.538	0.539	0.505	0.513	0.530	4.32	
73)		4-Chlorotoluene		0.563	0.588	0.561	0.537	0.501	0.497	0.541	6.77	
74)		1,3,5-Trimethy...	2.787	1.713	2.006	1.909	1.871	1.759	1.740	1.970	19.06	
75)		tert-Butylbenzene	0.647	0.382	0.449	0.429	0.422	0.394	0.392	0.445	20.71	*
76)		1,2,4-Trimethy...	2.861	1.761	2.041	1.947	1.957	1.846	1.830	2.035	18.49	
77)		sec-Butylbenzene	3.620	2.160	2.528	2.419	2.408	2.279	2.259	2.525	19.72	
78)		p-Isopropyltol...	3.098	1.829	2.165	2.061	2.069	1.954	1.950	2.161	19.77	
79)	I	1,4-Dichlorobenzen...	----------ISTD----------									
80)	P	1,3-Dichlorobe...	3.956	1.952	2.127	1.993	2.058	1.989	1.991	2.295	32.01	*
81)	P	1,4-Dichlorobe...	4.458	2.085	2.151	2.040	2.071	1.964	1.996	2.395	38.06	*
82)		n-Butylbenzene	5.313	2.991	3.720	3.582	3.646	3.440	3.492	3.741	19.59	
83)	P	1,2-Dichlorobe...	3.744	1.817	1.960	1.818	1.802	1.707	1.714	2.080	35.50	*
84)	UN	Tetraethyllead								0.000	-1.00	

Initial Calibration Summary Table

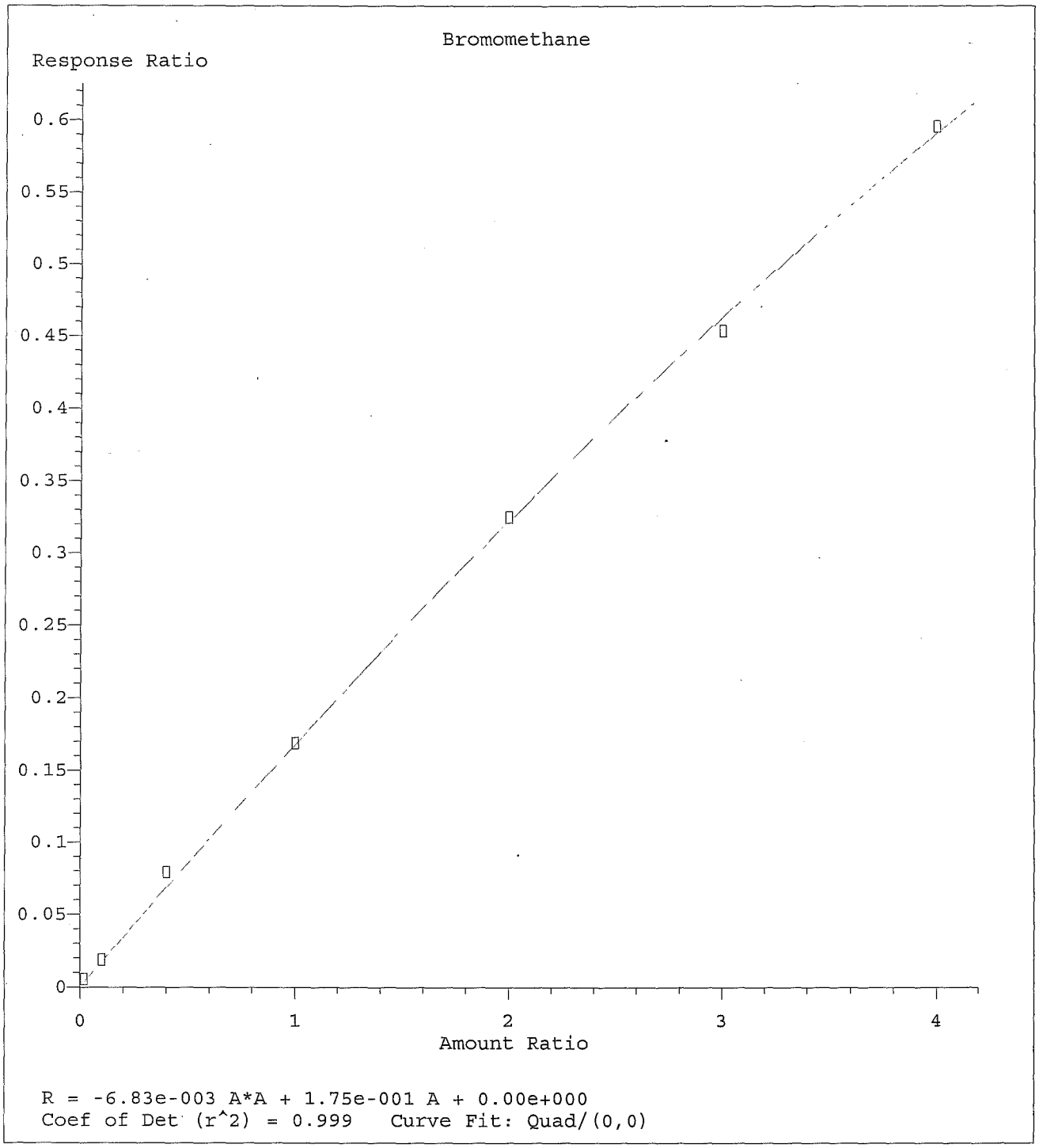
Method Path : C:\msdchem\1\METHODS\
Method File : 020215.M

85)	P	1,2-Dibromo-3-...	0.111	0.145	0.165	0.187	0.193	0.208	0.168	21.28
86)	P	1,2,4-Trichlor...	1.130	1.333	1.325	1.409	1.375	1.368	1.323	7.53
87)		1,2,3-Trichlor...	1.063	1.217	1.225	1.269	1.229	1.247	1.208	6.07
88)		Hexachlorobuta...	0.809	0.866	0.840	0.863	0.835	0.839	0.842	2.50
89)		Naphthalene	1.880	2.553	2.690	2.849	2.850	2.924	2.624	14.81

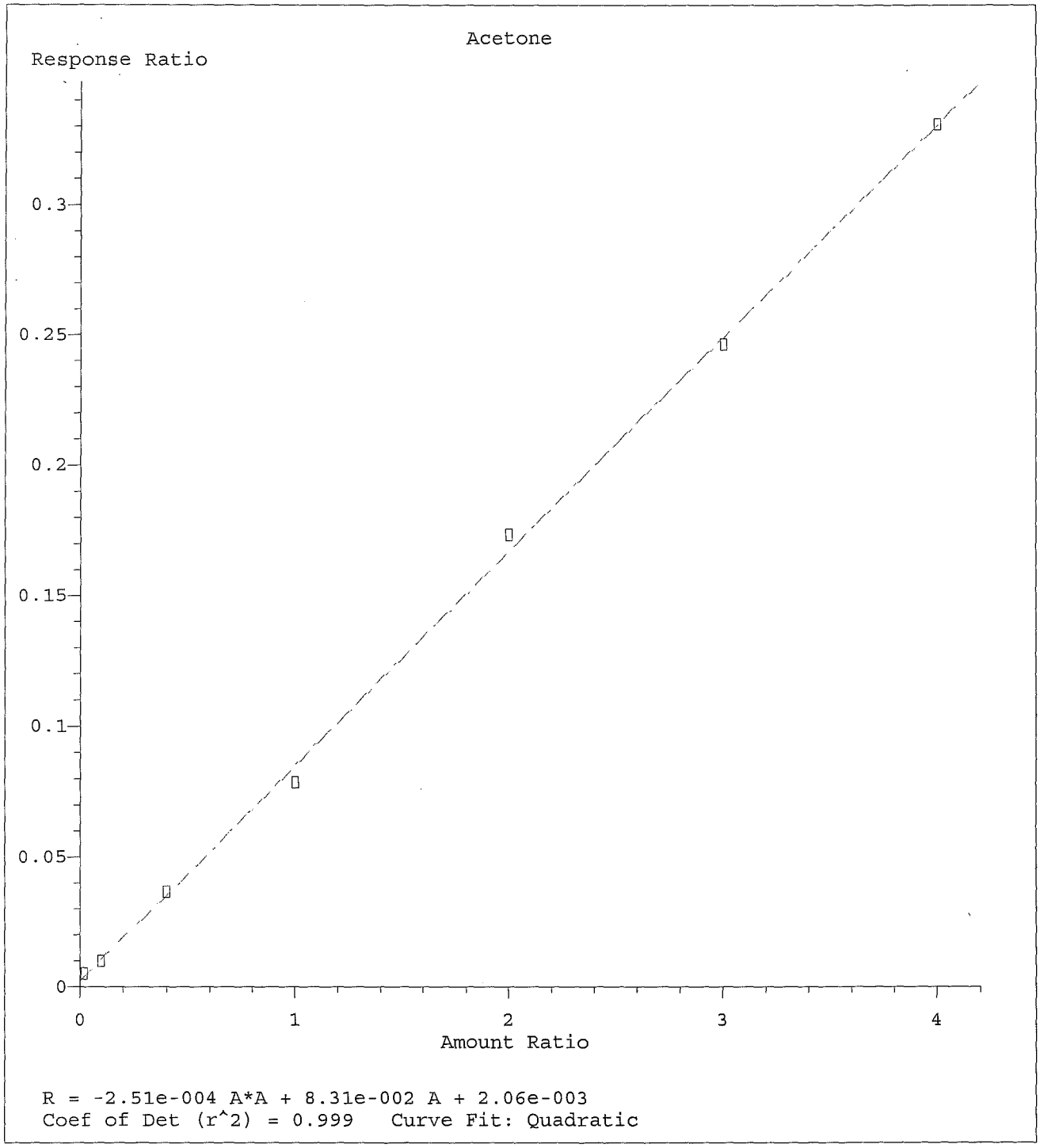
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ICAL Summary Table

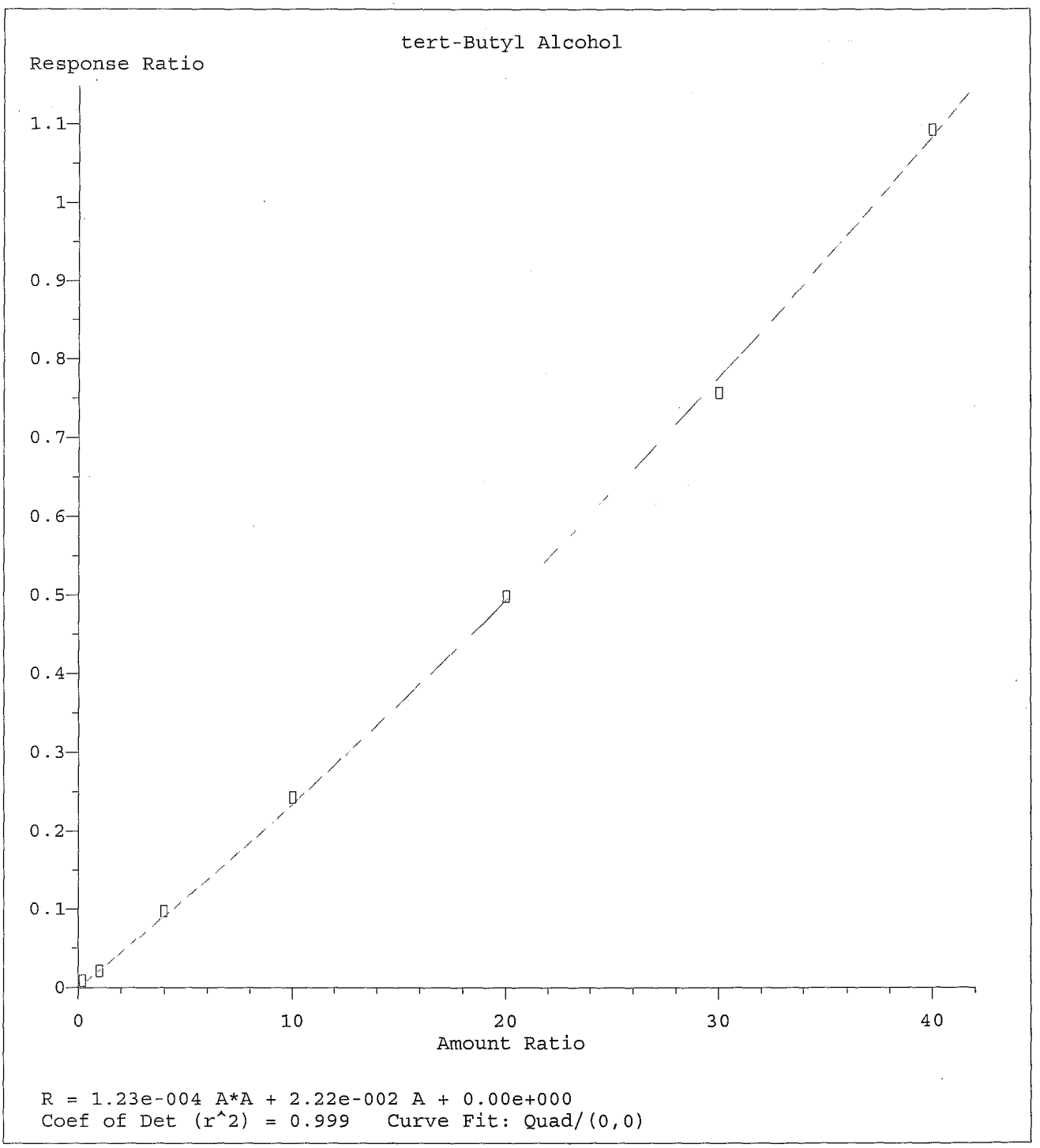
2/3/15 1/3



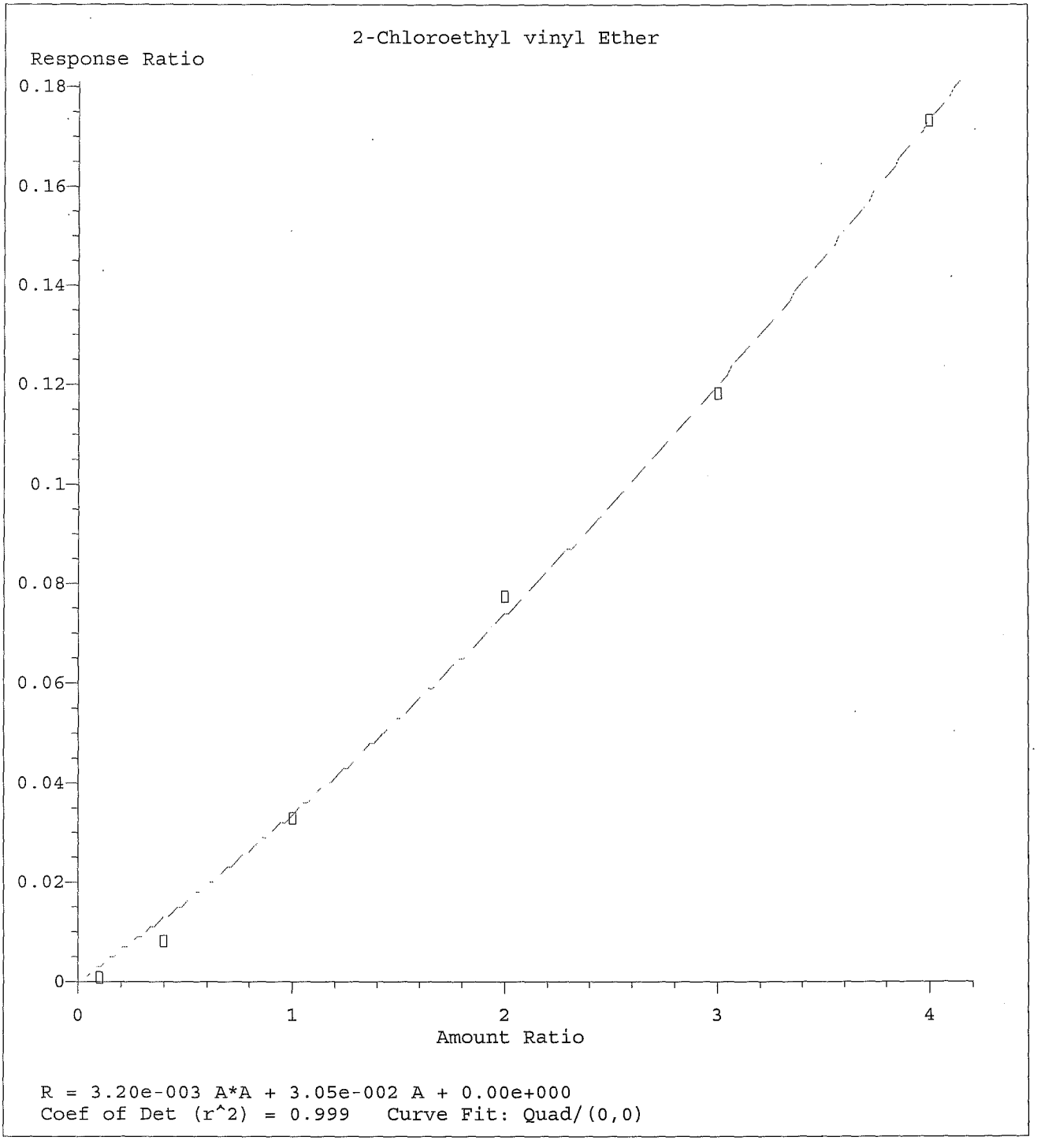
Method Name: C:\msdchem\1\METHODS\020215.M
Calibration Table Last Updated: Tue Feb 03 11:38:56 2015



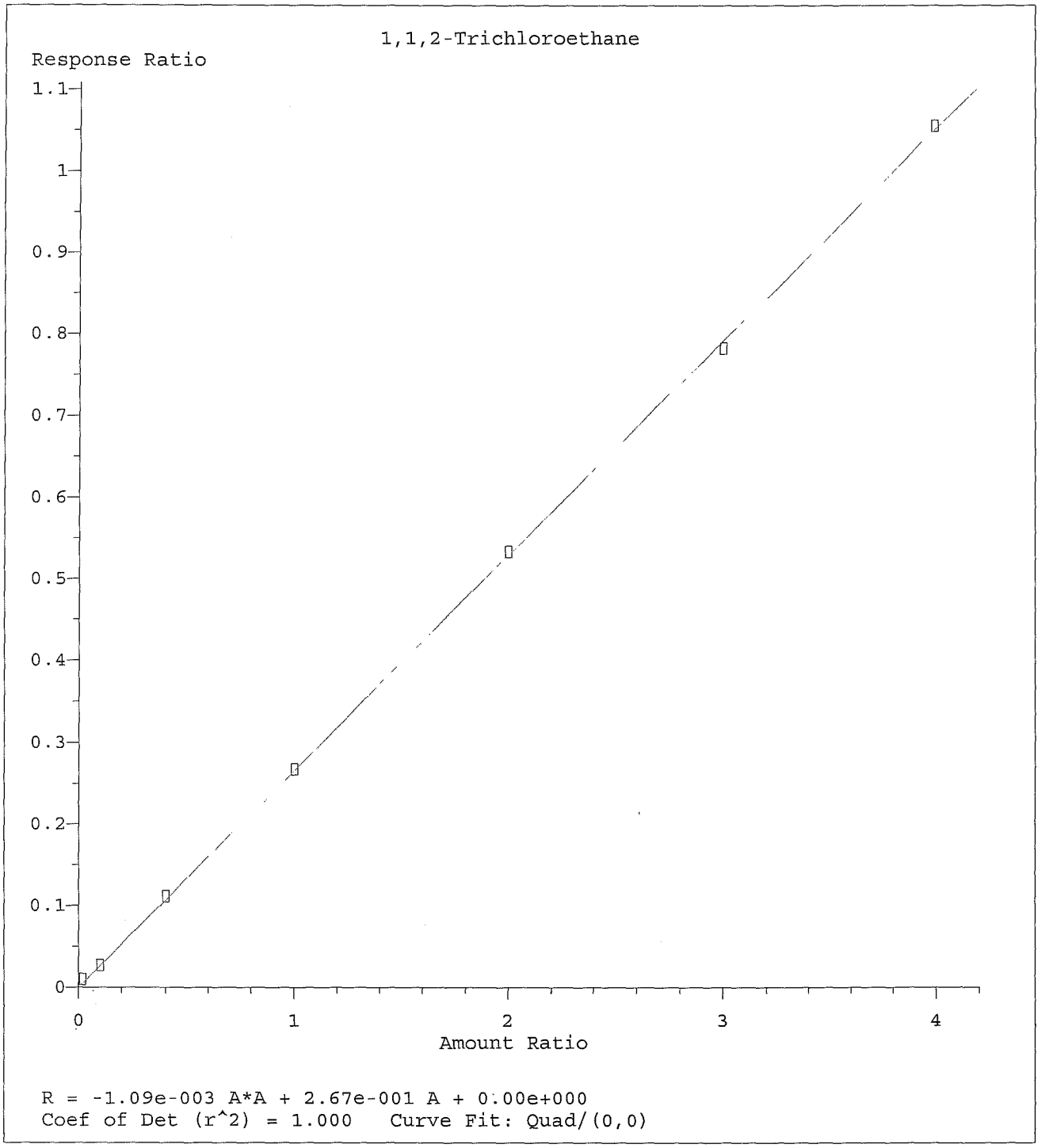
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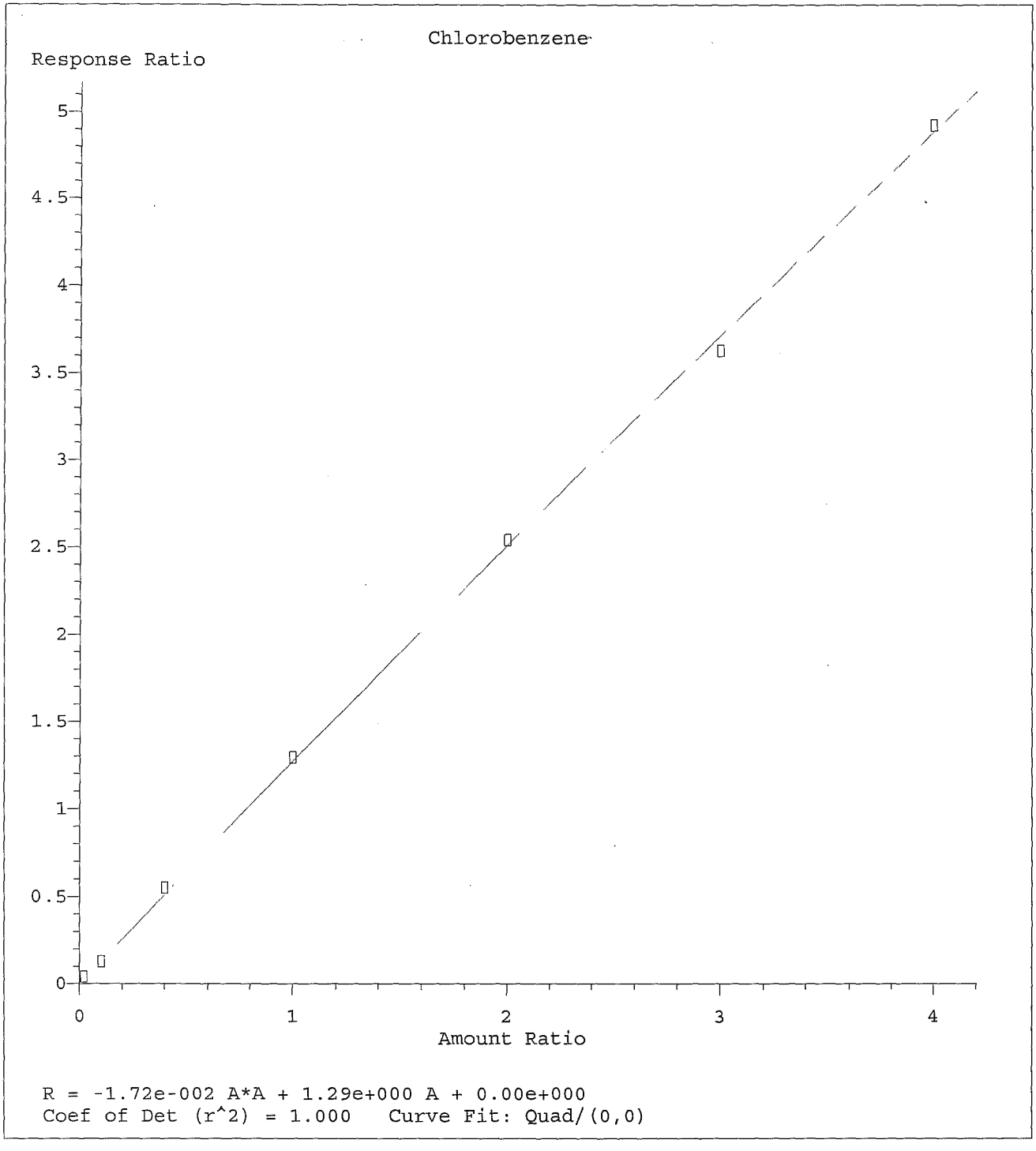
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Calibration Table Last Updated: Tue Feb 03 11:38:56 2015



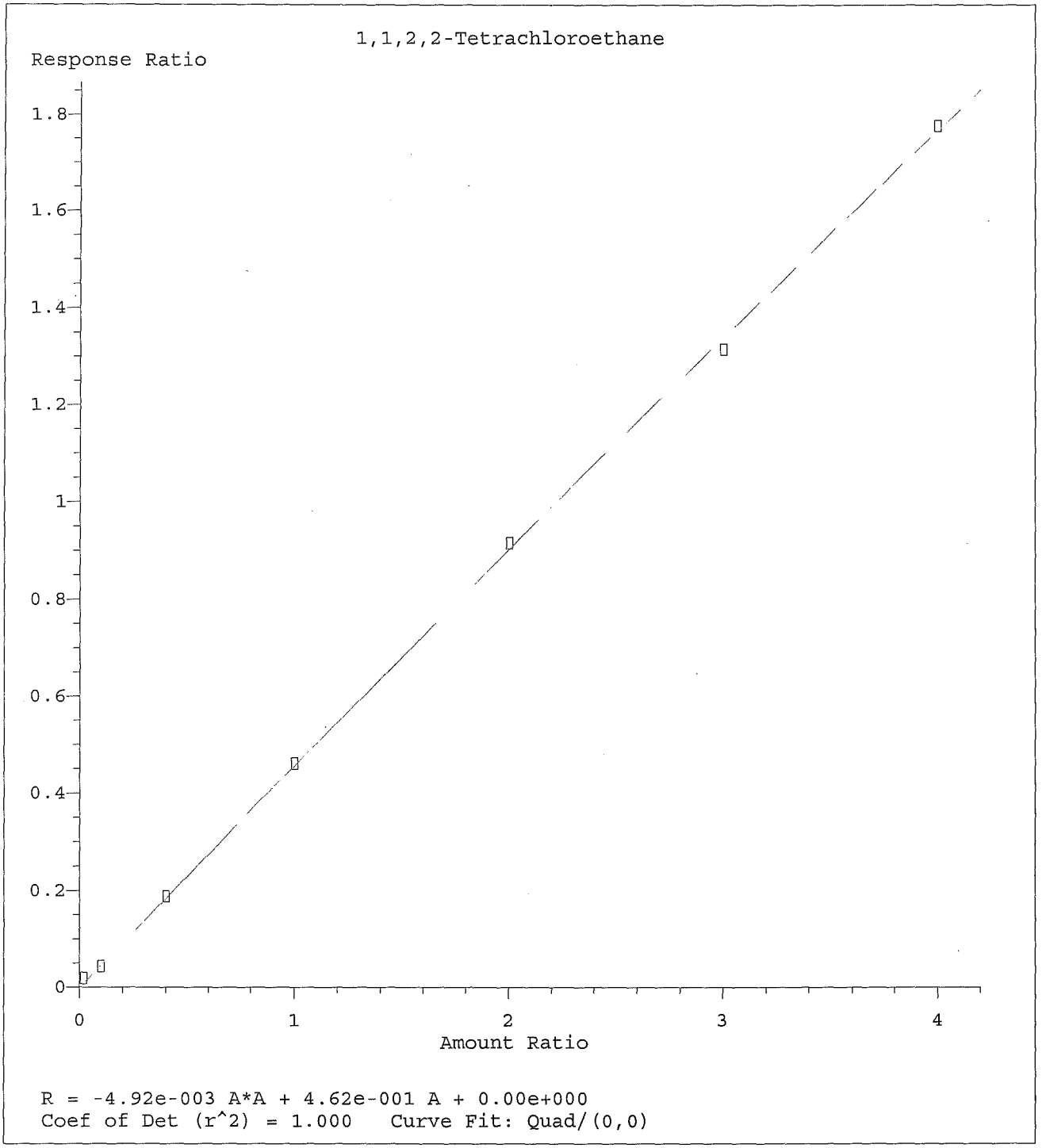
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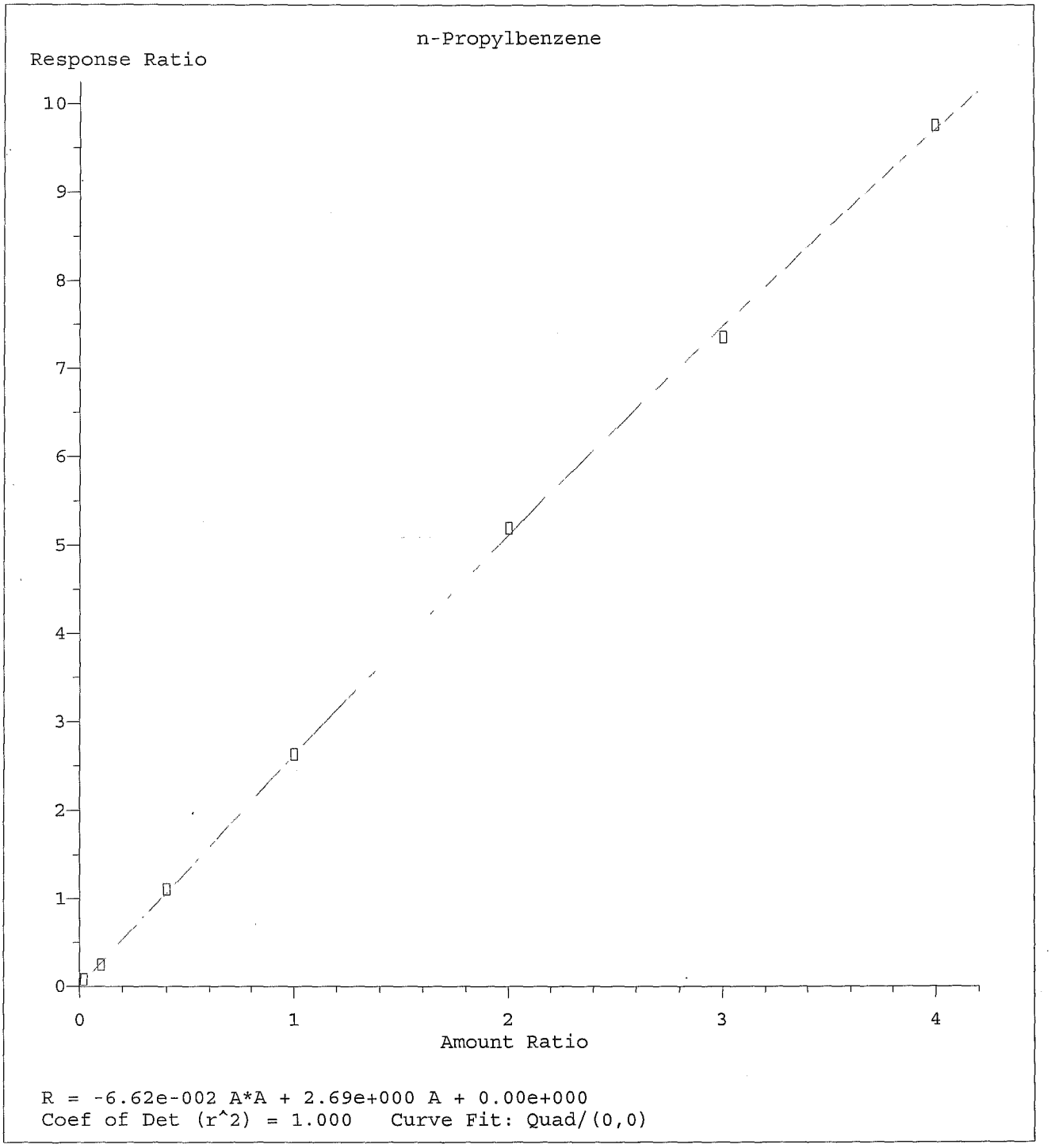
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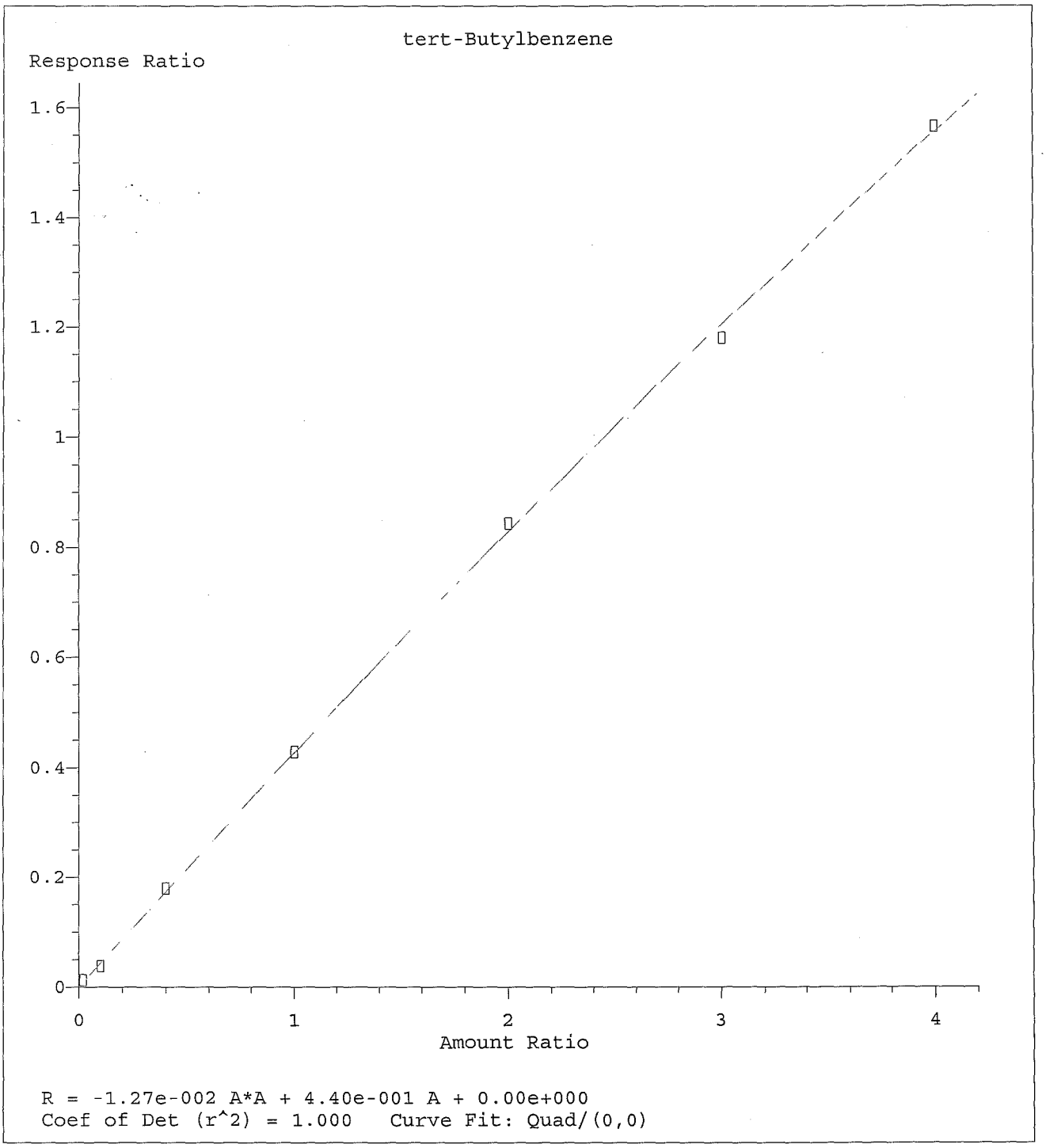
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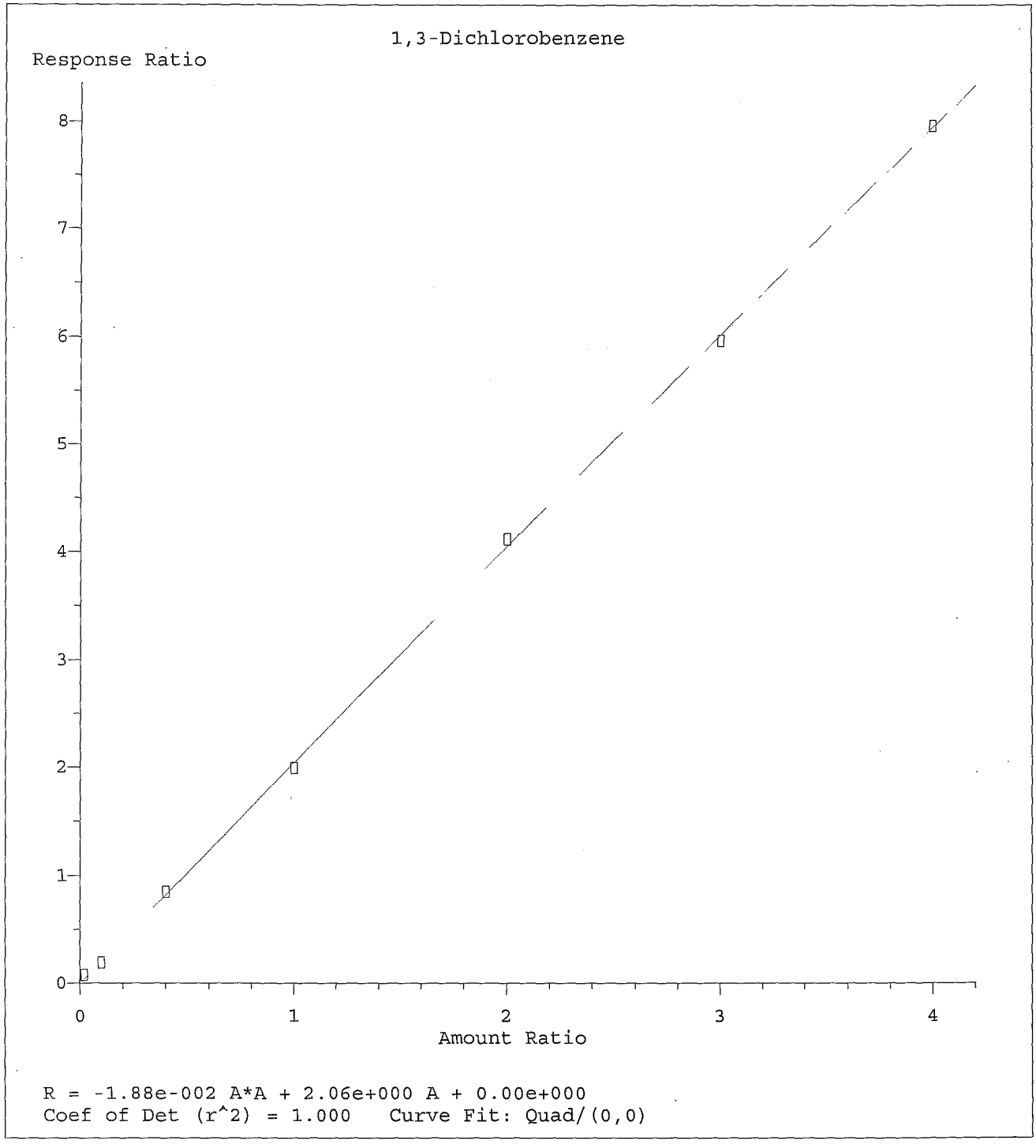
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Calibration Table Last Updated: Tue Feb 03 11:38:56 2015



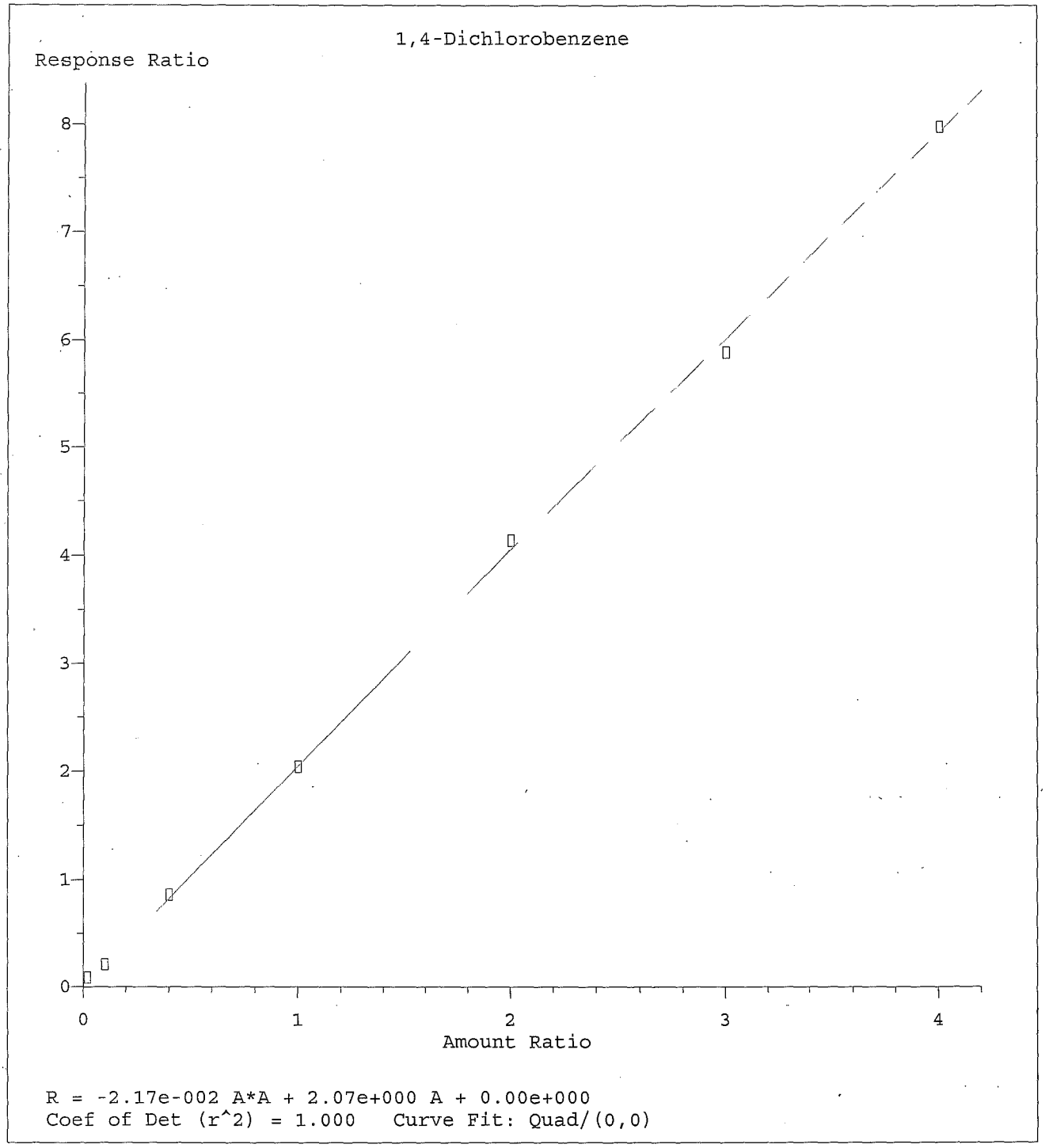
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Calibration Table Last Updated: Tue Feb 03 11:38:56 2015



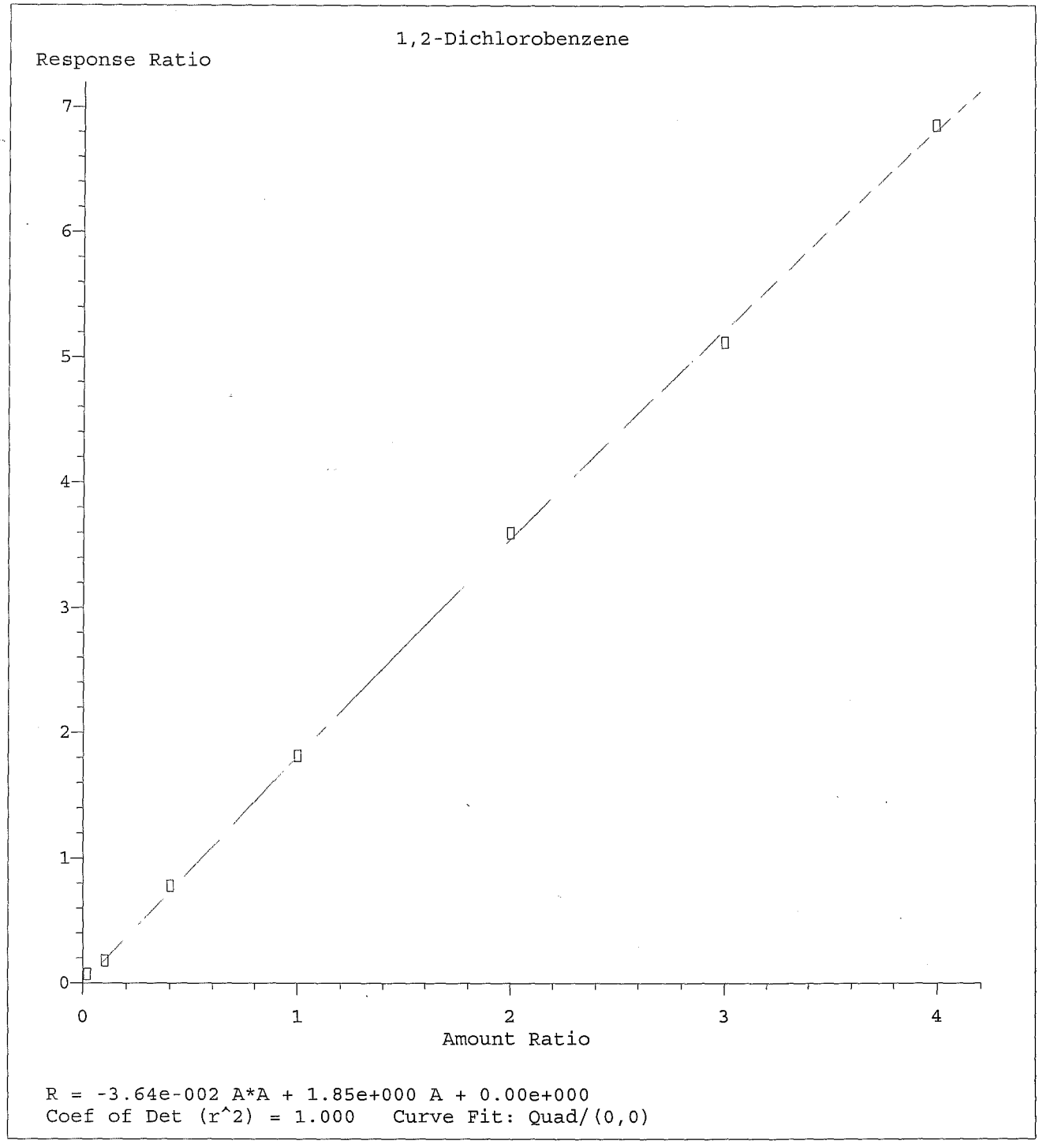
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Calibration Table Last Updated: Tue Feb 03 11:38:56 2015



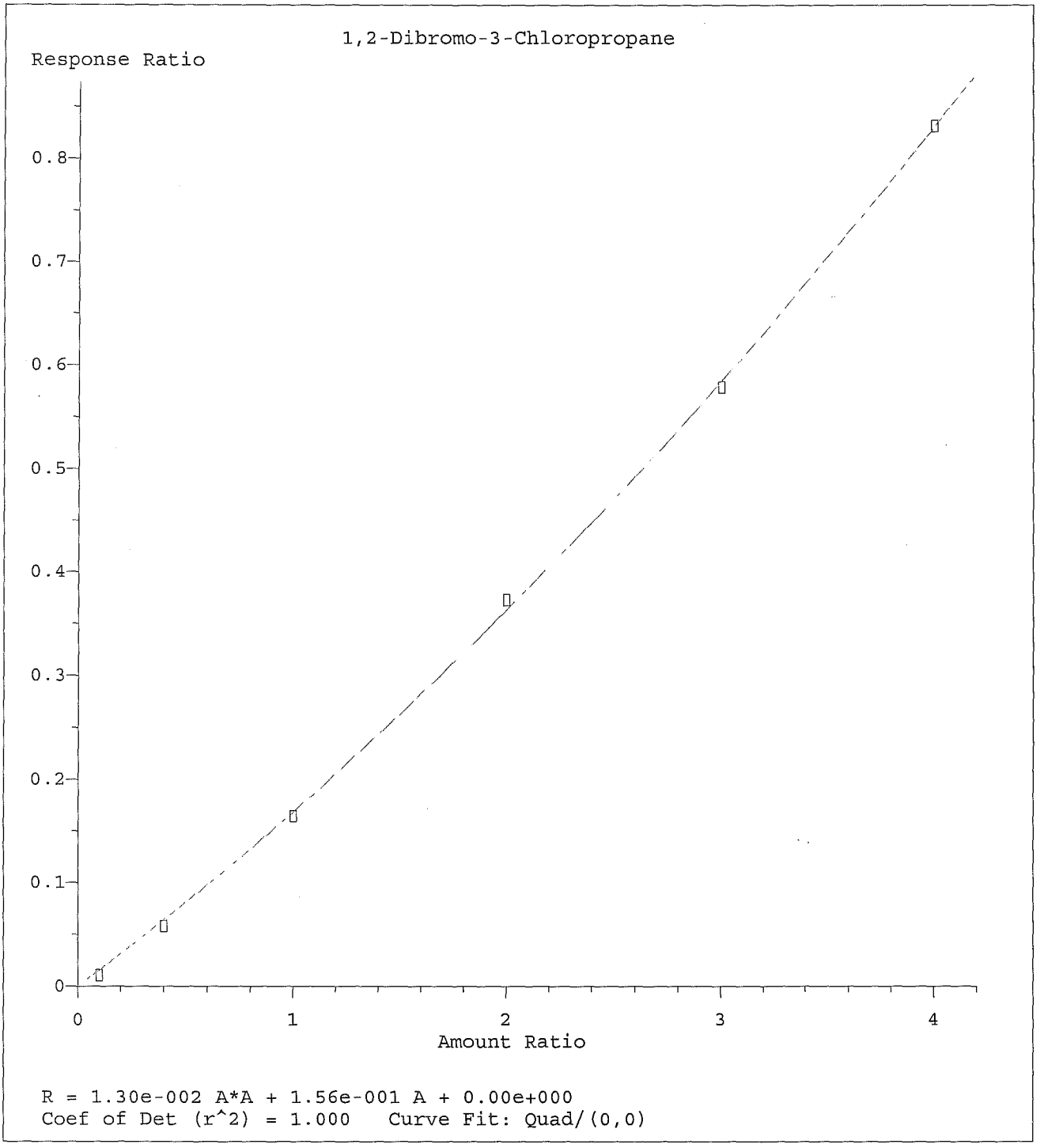
Method Name: C:\msdchem\1\METHODS\020215.M
Calibration Table Last Updated: Tue Feb 03 11:38:56 2015



Method Name: C:\msdchem\1\METHODS\020215.M
Calibration Table Last Updated: Tue Feb 03 11:38:56 2015



Method Name: C:\msdchem\1\METHODS\020215.M
Calibration Table Last Updated: Tue Feb 03 11:38:56 2015



Method Name: C:\msdchem\1\METHODS\020215.M
Calibration Table Last Updated: Tue Feb 03 11:38:56 2015

Quantitation Report (QT Reviewed)

Data File: C:\msdchem\1\DATA\150202\x20253.D
DataAcq Meth:8260RUN.M
Acq On : 2 Feb 2015 11:46 am Operator: Bill Brew
Sample : 1ppb mega Cal Inst : Instrument #1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 03 14:24:03 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 11:38:56 2015
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.978	96	153756	50.00	ug/L		0.00
58) Chlorobenzene-d5	7.923	117	106950	50.00	ug/L		0.00
79) 1,4-Dichlorobenzene-d4	10.464	152	56943	50.00	ug/L		0.00
System Monitoring Compounds							
27) Pentafluorobenzene	4.407	168	48069	29.61	ug/L		0.00
Spiked Amount 30.000	Range 93 - 109		Recovery = 98.70%				
31) 1,2-Dichloroethane-d4	4.679	65	23296	30.44	ug/L		0.00
Spiked Amount 30.000	Range 80 - 116		Recovery = 101.47%				
49) Toluene-D8	6.467	98	84316	29.15	ug/L		0.00
Spiked Amount 30.000	Range 92 - 107		Recovery = 97.17%				
68) 4-Bromofluorobenzene	9.183	95	29208	28.98	ug/L		0.00
Spiked Amount 30.000	Range 87 - 109		Recovery = 96.60%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.370	85	1003	1.04	ug/L		93
3) Chloromethane	1.509	50	1224	0.93	ug/L		96
4) Vinyl chloride	1.589	62	934	0.94	ug/L	#	65
5) Bromomethane	1.840	94	879	1.64	ug/L	#	74
6) Chloroethane	1.914	64	517	0.93	ug/L	#	77
7) Trichlorofluoromethane	2.112	101	1306	0.97	ug/L		95
8) Ethyl ether	2.330	59	613	0.98	ug/L	#	100
9) Freon 113	2.517	101	709	1.00	ug/L		98
10) 1,1-Dichloroethene	2.517	61	1257	0.98	ug/L		86
11) Acetone	2.555	43	797	1.88	ug/L		92
12) Isopropyl Alcohol	2.661	45	900	21.26	ug/L	#	50
13) Carbon disulfide	2.704	76	1686	0.83	ug/L	#	74
14) Methyl acetate	2.821	43	576	1.24	ug/L	#	56
15) Methylene chloride	2.902	84	1194	1.55	ug/L		99
16) Acrylonitrile	3.099	53	266	0.96	ug/L		85
17) tert-Butyl Alcohol	2.992	59	1377m	20.13	ug/L		
18) Methyl tert-butyl Ether	3.126	73	1847	0.90	ug/L		90
19) trans-1,2-Dichloroethene	3.126	61	1194	0.87	ug/L		91
20) 1,1-Dichloroethane	3.478	63	1898	0.94	ug/L		97
21) Vinyl acetate	3.515	43	1700	0.93	ug/L		98
22) 2,2-Dichloropropane	3.964	77	1189	0.86	ug/L		97
23) 2-Butanone	3.990	72	103	1.02	ug/L	#	26
24) cis-1,2-Dichloroethene	3.969	96	1101	1.00	ug/L		93
25) Bromochloromethane	4.172	128	522	1.04	ug/L		93
26) Chloroform	4.236	83	2024	1.10	ug/L		100
28) Tetrahydrofuran	4.220	42	474	1.94	ug/L		92
29) 1,1,1-Trichloroethane	4.407	97	1465	0.96	ug/L	#	1
30) Cyclohexane	4.455	56	1770	0.86	ug/L		92
32) Carbon Tetrachloride	4.551	117	1200	0.92	ug/L		95
33) Benzene	4.732	78	4325	1.08	ug/L		97
34) 1,2-Dichloroethane	4.743	62	1481	1.10	ug/L		98
35) Trichloroethene	5.314	130	1231	1.09	ug/L		96
36) tert-Butyl Acetate	5.415	57	2540	4.91	ug/L	#	85
37) Methylcyclohexane	5.490	83	1564	0.86	ug/L		94
40) 1,2-Dichloropropane	5.522	63	1403	1.22	ug/L	#	75

2/3 BB

Data File: C:\msdchem\1\DATA\150202\x20253.D
DataAcq Meth:8260RUN.M
Acq On : 2 Feb 2015 11:46 am Operator: Bill Brew
Sample : 1ppb mega Cal Inst : Instrument #1
Misc :
ALS Vial : 3 Sample Multiplier: 1

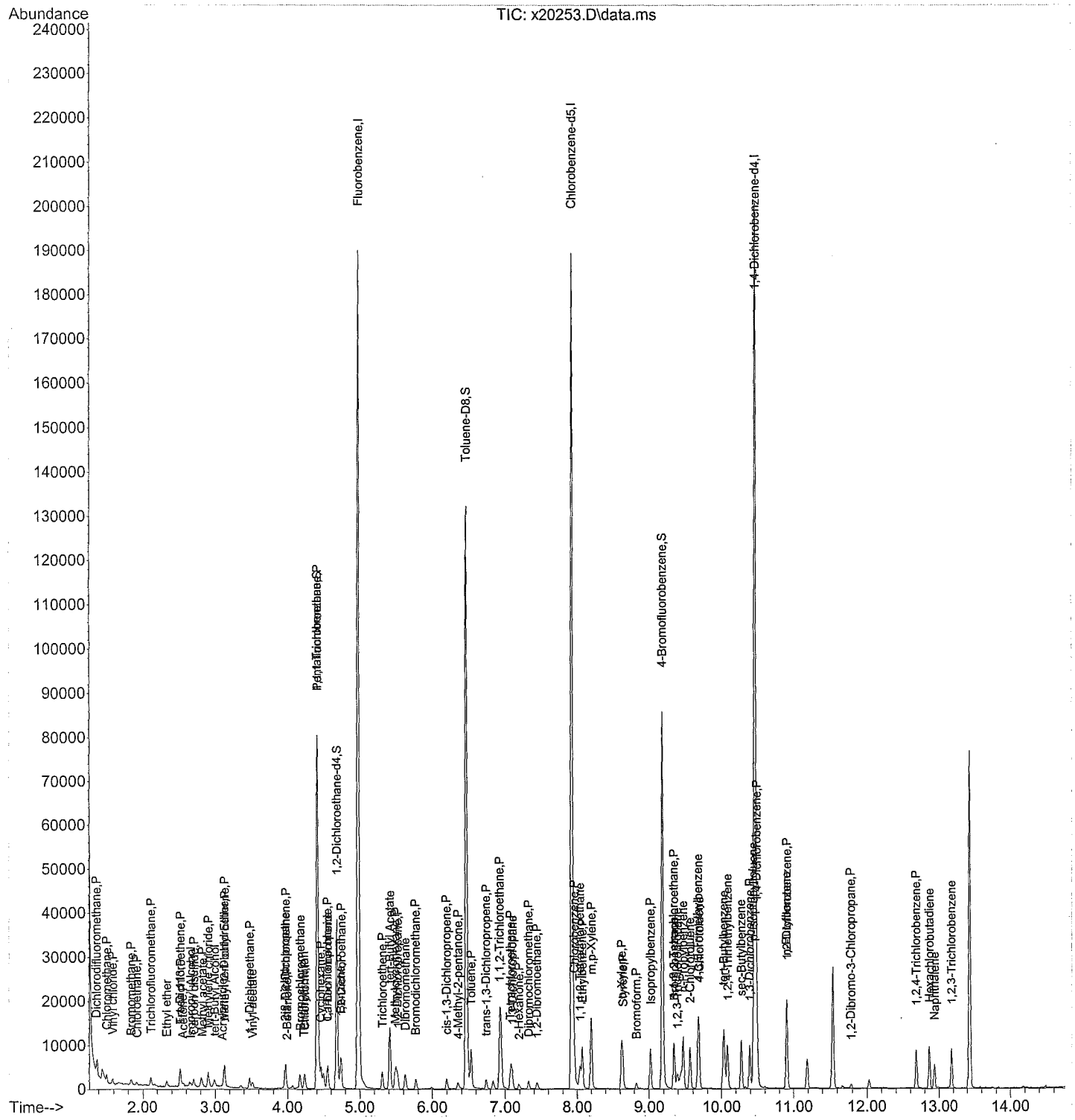
Quant Time: Feb 03 14:24:03 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 11:38:56 2015
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
42) Dibromomethane	5.629	93	639	1.15 ug/L	90
43) Bromodichloromethane	5.767	83	1408	1.11 ug/L	98
46) 1,1-Dichloropropene	4.551	75	1353	0.97 ug/L	97
47) cis-1,3-Dichloropropene	6.200	75	1333	1.01 ug/L	88
48) 4-Methyl-2-pentanone	6.354	58	404	1.17 ug/L #	78
50) Toluene	6.531	91	5445	1.24 ug/L	96
51) trans-1,3-Dichloropropene	6.744	75	1192	0.99 ug/L	87
52) 1,1,2-Trichloroethane	6.925	97	1591	1.94 ug/L	86
53) 1,3-Dichloropropane	7.096	76	1906	1.31 ug/L	95
54) Tetrachloroethene	7.075	166	1620	1.25 ug/L	95
55) 2-Hexanone	7.187	43	817	1.40 ug/L	93
56) Dibromochloromethane	7.326	129	1077	1.19 ug/L #	91
57) 1,2-Dibromoethane	7.443	107	1084	1.26 ug/L #	97
59) Chlorobenzene	7.955	112	4486	1.63 ug/L	84
60) 1,1,1,2-Tetrachloroethane	8.041	131	1415	1.37 ug/L	89
61) Ethylbenzene	8.073	91	6280	1.28 ug/L	97
62) m,p-Xylene	8.201	106	5078	2.66 ug/L	98
63) o-Xylene	8.623	106	2352	1.30 ug/L	94
64) Styrene	8.639	104	3579	1.27 ug/L	97
65) Bromoform	8.825	173	631	1.20 ug/L #	92
66) Isopropylbenzene	9.023	105	5933	1.23 ug/L	99
67) 1,2,3-Trichloropropane	9.391	110	573	1.95 ug/L #	1
69) Bromobenzene	9.348	156	2077	1.78 ug/L	92
70) 1,1,2,2-Tetrachloroethane	9.343	83	2077	2.10 ug/L	95
71) n-Propylbenzene	9.471	91	8914	1.55 ug/L	97
72) 2-Chlorotoluene	9.562	126	1831	1.62 ug/L	98
73) 4-Chlorotoluene	9.685	126	2084	1.80 ug/L	97
74) 1,3,5-Trimethylbenzene	9.669	105	5962	1.42 ug/L	98
75) tert-Butylbenzene	10.031	134	1383	1.47 ug/L #	91
76) 1,2,4-Trimethylbenzene	10.085	105	6120	1.41 ug/L	99
77) sec-Butylbenzene	10.272	105	7743	1.43 ug/L	100
78) p-Isopropyltoluene	10.437	119	6627	1.43 ug/L	97
80) 1,3-Dichlorobenzene	10.389	146	4505	1.92 ug/L	97
81) 1,4-Dichlorobenzene	10.485	146	5077	2.15 ug/L #	81
82) n-Butylbenzene	10.901	91	6051	1.42 ug/L	99
83) 1,2-Dichlorobenzene	10.907	146	4264	2.03 ug/L	96
85) 1,2-Dibromo-3-Chloropr...	11.782	157	271m	1.42 ug/L	
86) 1,2,4-Trichlorobenzene	12.679	180	2775	1.84 ug/L	98
87) 1,2,3-Trichlorobenzene	13.175	180	2630	1.91 ug/L	95
88) Hexachlorobutadiene	12.865	225	1955	2.04 ug/L	94
89) Naphthalene	12.935	128	4477	1.50 ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File: C:\msdchem\1\DATA\150202\x20253.D
DataAcq Meth:8260RUN.M
Acq On : 2 Feb 2015 11:46 am Operator: Bill Brew
Sample : 1ppb mega Cal Inst : Instrument #1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 03 14:24:03 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 11:38:56 2015
Response via : Initial Calibration
Integrator: RTE



Quantitation Report (QT Reviewed)

Data File: C:\msdchem\1\DATA\150202\x20254.D
DataAcq Meth:8260RUN.M
Acq On : 2 Feb 2015 12:10 pm Operator: Bill Brew
Sample : 5ppb mega Cal Inst : Instrument #1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 03 14:24:30 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 11:38:56 2015
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.975	96	160668	50.00	ug/L		0.00
58) Chlorobenzene-d5	7.926	117	110525	50.00	ug/L		0.00
79) 1,4-Dichlorobenzene-d4	10.461	152	59517	50.00	ug/L		0.00
System Monitoring Compounds							
27) Pentafluorobenzene	4.409	168	51127	30.14	ug/L		0.00
Spiked Amount 30.000	Range 93 - 109		Recovery = 100.47%				
31) 1,2-Dichloroethane-d4	4.676	65	23432	29.30	ug/L		0.00
Spiked Amount 30.000	Range 80 - 116		Recovery = 97.67%				
49) Toluene-D8	6.464	98	88202	29.18	ug/L		0.00
Spiked Amount 30.000	Range 92 - 107		Recovery = 97.27%				
68) 4-Bromofluorobenzene	9.181	95	30536	29.31	ug/L		0.00
Spiked Amount 30.000	Range 87 - 109		Recovery = 97.70%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.373	85	4966	4.94	ug/L		99
3) Chloromethane	1.506	50	6608	4.81	ug/L		99
4) Vinyl chloride	1.586	62	5054	4.88	ug/L		92
5) Bromomethane	1.837	94	3163	5.65	ug/L		98
6) Chloroethane	1.912	64	3187	5.47	ug/L		97
7) Trichlorofluoromethane	2.109	101	6795	4.81	ug/L		97
8) Ethyl ether	2.328	59	3030	4.63	ug/L	#	100
9) Freon 113	2.515	101	3553	4.78	ug/L		99
10) 1,1-Dichloroethene	2.515	61	6462	4.83	ug/L		93
11) Acetone	2.552	43	1601	4.76	ug/L		92
12) Isopropyl Alcohol	2.659	45	1813	40.98	ug/L		77
13) Carbon disulfide	2.702	76	9217	4.36	ug/L		95
14) Methyl acetate	2.819	43	2344	4.83	ug/L	#	99
15) Methylene chloride	2.899	84	4177	5.18	ug/L		97
16) Acrylonitrile	3.102	53	1654	5.71	ug/L		99
17) tert-Butyl Alcohol	2.990	59	3394	47.33	ug/L	#	60
18) Methyl tert-butyl Ether	3.123	73	11489	5.37	ug/L		96
19) trans-1,2-Dichloroethene	3.129	61	8254	5.78	ug/L		93
20) 1,1-Dichloroethane	3.476	63	10325	4.91	ug/L		98
21) Vinyl acetate	3.513	43	8080	4.23	ug/L		100
22) 2,2-Dichloropropane	3.961	77	6386	4.42	ug/L		99
23) 2-Butanone	3.977	72	448	4.27	ug/L	#	70
24) cis-1,2-Dichloroethene	3.967	96	5512	4.78	ug/L		91
25) Bromochloromethane	4.169	128	2465	4.71	ug/L		98
26) Chloroform	4.239	83	9075	4.71	ug/L		95
28) Tetrahydrofuran	4.217	42	2227	8.73	ug/L		97
29) 1,1,1-Trichloroethane	4.404	97	7248	4.53	ug/L	#	1
30) Cyclohexane	4.457	56	10180	4.74	ug/L		89
32) Carbon Tetrachloride	4.554	117	6080	4.47	ug/L		99
33) Benzene	4.735	78	20729	4.94	ug/L		97
34) 1,2-Dichloroethane	4.746	62	6767	4.82	ug/L		100
35) Trichloroethene	5.311	130	5565	4.73	ug/L		94
36) tert-Butyl Acetate	5.413	57	9756	18.04	ug/L	#	85
37) Methylcyclohexane	5.493	83	8999	4.71	ug/L		94
40) 1,2-Dichloropropane	5.520	63	5480	4.57	ug/L	#	84

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Data File: C:\msdchem\1\DATA\150202\x20254.D
DataAcq Meth:8260RUN.M
Acq On : 2 Feb 2015 12:10 pm Operator: Bill Brew
Sample : 5ppb mega Cal Inst : Instrument #1
Misc :
ALS Vial : 4 Sample Multiplier: 1

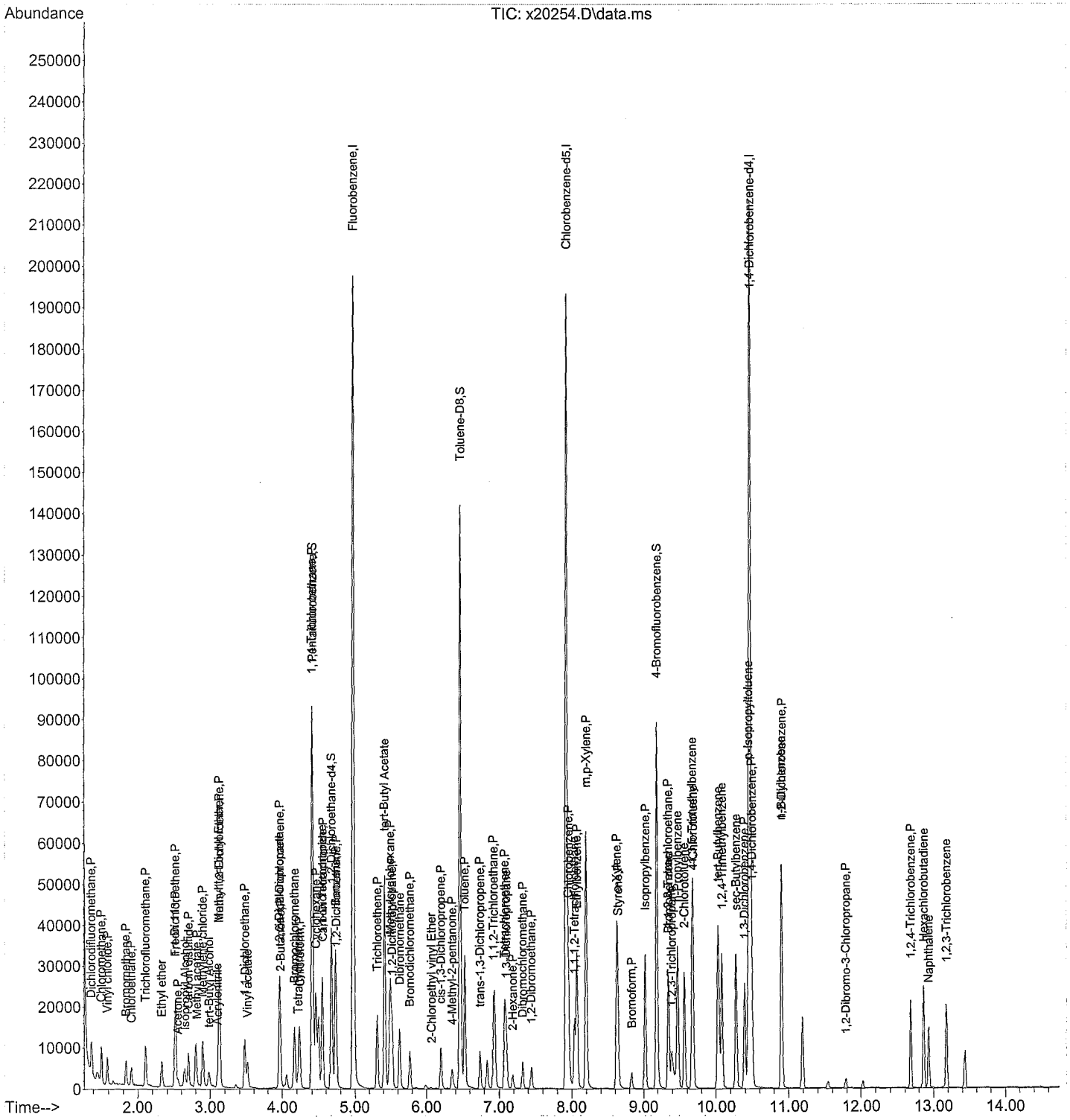
Quant Time: Feb 03 14:24:30 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 11:38:56 2015
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) Dibromomethane	5.626	93	2718	4.68	ug/L		93
43) Bromodichloromethane	5.770	83	5404	4.07	ug/L		98
44) 2-Chloroethyl vinyl Ether	6.069	63	139	1.42	ug/L	#	57
46) 1,1-Dichloropropene	4.548	75	7180	4.93	ug/L		98
47) cis-1,3-Dichloropropene	6.197	75	5118	3.69	ug/L		92
48) 4-Methyl-2-pentanone	6.352	58	1261	3.50	ug/L	#	80
50) Toluene	6.528	91	21544	4.68	ug/L		99
51) trans-1,3-Dichloropropene	6.742	75	4654	3.71	ug/L		88
52) 1,1,2-Trichloroethane	6.923	97	4326	5.04	ug/L		92
53) 1,3-Dichloropropane	7.094	76	6704	4.42	ug/L		100
54) Tetrachloroethene	7.073	166	6125	4.52	ug/L		97
55) 2-Hexanone	7.185	43	2235	3.67	ug/L		94
56) Dibromochloromethane	7.323	129	3349	3.54	ug/L	#	99
57) 1,2-Dibromoethane	7.441	107	3793	4.21	ug/L		96
59) Chlorobenzene	7.953	112	14452	5.08	ug/L		95
60) 1,1,1,2-Tetrachloroethane	8.039	131	4547	4.27	ug/L		96
61) Ethylbenzene	8.071	91	22658	4.47	ug/L		98
62) m,p-Xylene	8.199	106	18684	9.46	ug/L		100
63) o-Xylene	8.620	106	8152	4.36	ug/L		100
64) Styrene	8.636	104	12802	4.38	ug/L		99
65) Bromoform	8.828	173	1879	3.45	ug/L	#	91
66) Isopropylbenzene	9.020	105	21159	4.24	ug/L		99
67) 1,2,3-Trichloropropane	9.389	110	1470	4.85	ug/L	#	49
69) Bromobenzene	9.346	156	5957	4.93	ug/L	#	90
70) 1,1,2,2-Tetrachloroethane	9.341	83	4804	4.71	ug/L		99
71) n-Propylbenzene	9.469	91	27275	4.59	ug/L		98
72) 2-Chlorotoluene	9.559	126	5717	4.88	ug/L		94
73) 4-Chlorotoluene	9.682	126	6222	5.20	ug/L	#	90
74) 1,3,5-Trimethylbenzene	9.666	105	18938	4.35	ug/L		98
75) tert-Butylbenzene	10.029	134	4218	4.35	ug/L		91
76) 1,2,4-Trimethylbenzene	10.082	105	19461	4.33	ug/L		98
77) sec-Butylbenzene	10.275	105	23876	4.28	ug/L		100
78) p-Isopropyltoluene	10.440	119	20210	4.23	ug/L		100
80) 1,3-Dichlorobenzene	10.387	146	11617	4.74	ug/L		97
81) 1,4-Dichlorobenzene	10.488	146	12407	5.04	ug/L		98
82) n-Butylbenzene	10.899	91	17802	4.00	ug/L		98
83) 1,2-Dichlorobenzene	10.904	146	10813	4.92	ug/L		99
85) 1,2-Dibromo-3-Chloropr...	11.785	157	658	3.29	ug/L		99
86) 1,2,4-Trichlorobenzene	12.682	180	6724	4.27	ug/L		99
87) 1,2,3-Trichlorobenzene	13.178	180	6329	4.40	ug/L		98
88) Hexachlorobutadiene	12.863	225	4812	4.80	ug/L		98
89) Naphthalene	12.932	128	11187	3.58	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File: C:\msdchem\1\DATA\150202\x20254.D
DataAcq Meth:8260RUN.M
Acq On : 2 Feb 2015 12:10 pm Operator: Bill Brew
Sample : 5ppb mega Cal Inst : Instrument #1
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 03 14:24:30 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 11:38:56 2015
Response via : Initial Calibration
Integrator: RTE



Quantitation Report (QT Reviewed)

Data File: C:\msdchem\1\DATA\150202\x20255.D
DataAcq Meth:8260RUN.M
Acq On : 2 Feb 2015 12:34 pm Operator: Bill Brew
Sample : 20ppb mega Cal Inst : Instrument #1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 03 14:25:28 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 11:38:56 2015
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.978	96	158129	50.00	ug/L		0.00
58) Chlorobenzene-d5	7.924	117	109771	50.00	ug/L		0.00
79) 1,4-Dichlorobenzene-d4	10.459	152	58229	50.00	ug/L		0.00
System Monitoring Compounds							
27) Pentafluorobenzene	4.412	168	50554	30.28	ug/L		0.00
Spiked Amount 30.000	Range 93 - 109		Recovery = 100.93%				
31) 1,2-Dichloroethane-d4	4.674	65	23413	29.74	ug/L		0.00
Spiked Amount 30.000	Range 80 - 116		Recovery = 99.13%				
49) Toluene-D8	6.461	98	88457	29.73	ug/L		0.00
Spiked Amount 30.000	Range 92 - 107		Recovery = 99.10%				
68) 4-Bromofluorobenzene	9.183	95	30871	29.84	ug/L		0.00
Spiked Amount 30.000	Range 87 - 109		Recovery = 99.47%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.375	85	20763	21.00	ug/L		99
3) Chloromethane	1.509	50	28365	21.00	ug/L		99
4) Vinyl chloride	1.589	62	21377	20.96	ug/L		98
5) Bromomethane	1.840	94	12580	23.14	ug/L		99
6) Chloroethane	1.914	64	12587	21.94	ug/L		99
7) Trichlorofluoromethane	2.112	101	29974	21.57	ug/L		100
8) Ethyl ether	2.331	59	13793	21.40	ug/L	#	100
9) Freon 113	2.517	101	15671	21.44	ug/L		100
10) 1,1-Dichloroethene	2.517	61	28209	21.42	ug/L		91
11) Acetone	2.555	43	5784	20.79	ug/L		93
12) Isopropyl Alcohol	2.656	45	8617	197.89	ug/L		96
13) Carbon disulfide	2.704	76	43969	21.13	ug/L		98
14) Methyl acetate	2.816	43	9620	20.15	ug/L		96
15) Methylene chloride	2.902	84	16875	21.25	ug/L		95
16) Acrylonitrile	3.099	53	5235	18.36	ug/L		100
17) tert-Butyl Alcohol	2.987	59	15375	213.93	ug/L	#	83
18) Methyl tert-butyl Ether	3.126	73	39675	18.85	ug/L		98
19) trans-1,2-Dichloroethene	3.126	61	26956	19.18	ug/L		92
20) 1,1-Dichloroethane	3.473	63	43862	21.18	ug/L		99
21) Vinyl acetate	3.510	43	39187	20.85	ug/L		100
22) 2,2-Dichloropropane	3.969	77	29834	20.97	ug/L		100
23) 2-Butanone	3.974	72	2096	20.28	ug/L	#	87
24) cis-1,2-Dichloroethene	3.964	96	24273	21.40	ug/L		91
25) Bromochloromethane	4.172	128	10900	21.16	ug/L		96
26) Chloroform	4.236	83	39222	20.70	ug/L		94
28) Tetrahydrofuran	4.220	42	10179	40.54	ug/L		96
29) 1,1,1-Trichloroethane	4.401	97	32838	20.84	ug/L		93
30) Cyclohexane	4.455	56	47264	22.34	ug/L		84
32) Carbon Tetrachloride	4.551	117	27735	20.70	ug/L		100
33) Benzene	4.732	78	88099	21.33	ug/L		98
34) 1,2-Dichloroethane	4.743	62	28326	20.49	ug/L		98
35) Trichloroethene	5.314	130	23458	20.27	ug/L		97
36) tert-Butyl Acetate	5.415	57	50497	94.85	ug/L	#	88
37) Methylcyclohexane	5.495	83	41614	22.14	ug/L		98
38) 1,4-Dioxane	5.650	88	183m	15.59	ug/L		

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Data File: C:\msdchem\1\DATA\150202\x20255.D
DataAcq Meth:8260RUN.M
Acq On : 2 Feb 2015 12:34 pm Operator: Bill Brew
Sample : 20ppb mega Cal Inst : Instrument #1
Misc :
ALS Vial : 5 Sample Multiplier: 1

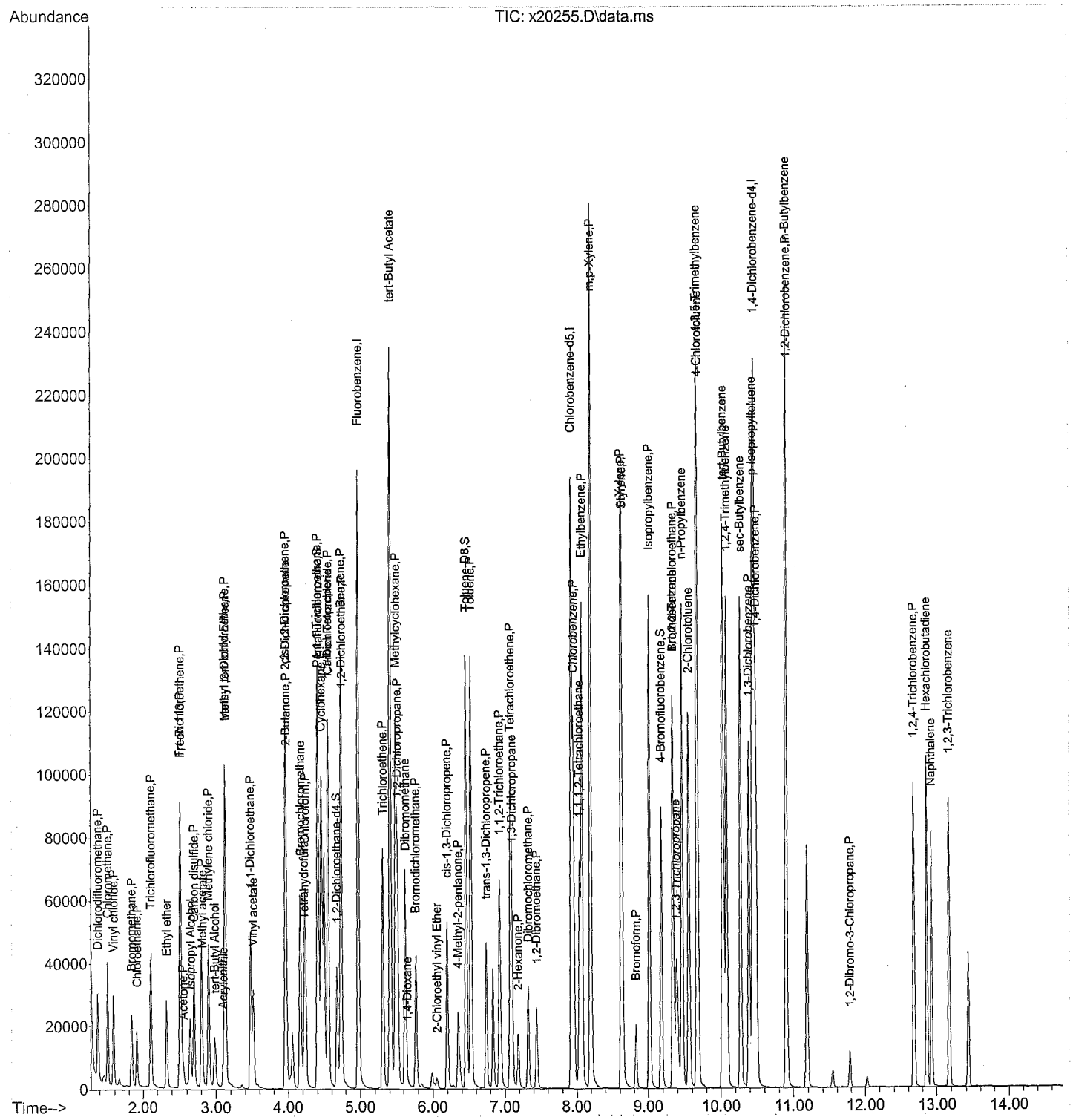
Quant Time: Feb 03 14:25:28 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 11:38:56 2015
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40) 1,2-Dichloropropane	5.517	63	23990	20.34 ug/L #	85
42) Dibromomethane	5.629	93	11494	20.11 ug/L	90
43) Bromodichloromethane	5.768	83	25606	19.61 ug/L	97
44) 2-Chloroethyl vinyl Ether	6.056	63	1287	13.00 ug/L	96
46) 1,1-Dichloropropene	4.545	75	30869	21.56 ug/L	98
47) cis-1,3-Dichloropropene	6.200	75	27229	19.97 ug/L	88
48) 4-Methyl-2-pentanone	6.349	58	6400	18.04 ug/L #	85
50) Toluene	6.531	91	93463	20.62 ug/L	100
51) trans-1,3-Dichloropropene	6.744	75	23973	19.42 ug/L	88
52) 1,1,2-Trichloroethane	6.926	97	17641	20.91 ug/L	97
53) 1,3-Dichloropropane	7.096	76	29028	19.46 ug/L	99
54) Tetrachloroethene	7.075	166	26928	20.18 ug/L	97
55) 2-Hexanone	7.182	43	10900	18.19 ug/L	87
56) Dibromochloromethane	7.326	129	17434	18.71 ug/L	98
57) 1,2-Dibromoethane	7.443	107	16933	19.10 ug/L	99
59) Chlorobenzene	7.956	112	60650	21.54 ug/L	99
60) 1,1,1,2-Tetrachloroethane	8.036	131	20630	19.52 ug/L	98
61) Ethylbenzene	8.073	91	104645	20.79 ug/L	98
62) m,p-Xylene	8.196	106	83058	42.35 ug/L	99
63) o-Xylene	8.617	106	38663	20.82 ug/L	98
64) Styrene	8.633	104	59841	20.62 ug/L	99
65) Bromoform	8.826	173	9649	17.83 ug/L	98
66) Isopropylbenzene	9.018	105	102297	20.63 ug/L	99
67) 1,2,3-Trichloropropane	9.386	110	6033	20.02 ug/L #	68
69) Bromobenzene	9.343	156	25563	21.30 ug/L	92
70) 1,1,2,2-Tetrachloroethane	9.343	83	20671	20.49 ug/L	98
71) n-Propylbenzene	9.471	91	121979	20.83 ug/L	96
72) 2-Chlorotoluene	9.562	126	24899	21.40 ug/L	92
73) 4-Chlorotoluene	9.679	126	25840	21.75 ug/L	95
74) 1,3,5-Trimethylbenzene	9.669	105	88098	20.37 ug/L	100
75) tert-Butylbenzene	10.032	134	19734	20.69 ug/L	96
76) 1,2,4-Trimethylbenzene	10.080	105	89604	20.06 ug/L	100
77) sec-Butylbenzene	10.272	105	110993	20.02 ug/L	99
78) p-Isopropyltoluene	10.437	119	95047	20.04 ug/L	99
80) 1,3-Dichlorobenzene	10.389	146	49546	20.71 ug/L	99
81) 1,4-Dichlorobenzene	10.485	146	50102	20.86 ug/L	99
82) n-Butylbenzene	10.902	91	86643	19.89 ug/L	98
83) 1,2-Dichlorobenzene	10.907	146	45653	21.38 ug/L	99
85) 1,2-Dibromo-3-Chloropr...	11.782	157	3382	17.29 ug/L	97
86) 1,2,4-Trichlorobenzene	12.679	180	31049	20.15 ug/L	98
87) 1,2,3-Trichlorobenzene	13.175	180	28336	20.14 ug/L	98
88) Hexachlorobutadiene	12.860	225	20179	20.58 ug/L	98
89) Naphthalene	12.930	128	59452	19.45 ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File: C:\msdchem\1\DATA\150202\x20255.D
DataAcq Meth:8260RUN.M
Acq On : 2 Feb 2015 12:34 pm Operator: Bill Brew
Sample : 20ppb mega Cal Inst : Instrument #1
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 03 14:25:28 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 11:38:56 2015
Response via : Initial Calibration
Integrator: RTE



Quantitation Report (QT Reviewed)

Data File: C:\msdchem\1\DATA\150202\x20256.D
DataAcq Meth:8260RUN.M
Acq On : 2 Feb 2015 12:58 pm Operator: Bill Brew
Sample : 50ppb mega Cal Inst : Instrument #1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 03 14:25:59 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 11:38:56 2015
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.980	96	157185	50.00	ug/L	0.00
58) Chlorobenzene-d5	7.926	117	111830	50.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	10.461	152	59199	50.00	ug/L	0.00
System Monitoring Compounds						
27) Pentafluorobenzene	4.409	168	50825	30.62	ug/L	0.00
Spiked Amount 30.000	Range 93 - 109		Recovery = 102.07%			
31) 1,2-Dichloroethane-d4	4.676	65	23556	30.10	ug/L	0.00
Spiked Amount 30.000	Range 80 - 116		Recovery = 100.33%			
49) Toluene-D8	6.463	98	89859	30.38	ug/L	0.00
Spiked Amount 30.000	Range 92 - 107		Recovery = 101.27%			
68) 4-Bromofluorobenzene	9.180	95	31732	30.11	ug/L	0.00
Spiked Amount 30.000	Range 87 - 109		Recovery = 100.37%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.378	85	48399	49.25	ug/L	98
3) Chloromethane	1.511	50	66072	49.21	ug/L	98
4) Vinyl chloride	1.586	62	50676	49.98	ug/L	99
5) Bromomethane	1.836	94	26620	50.36	ug/L	97
6) Chloroethane	1.911	64	28476	49.94	ug/L	99
7) Trichlorofluoromethane	2.109	101	69435	50.26	ug/L	99
8) Ethyl ether	2.333	59	31438	49.08	ug/L #	100
9) Freon 113	2.514	101	36383	50.07	ug/L	99
10) 1,1-Dichloroethene	2.520	61	65842	50.29	ug/L	91
11) Acetone	2.552	43	12372	46.23	ug/L	85
12) Isopropyl Alcohol	2.658	45	22065	509.78	ug/L	97
13) Carbon disulfide	2.701	76	106879	51.68	ug/L	99
14) Methyl acetate	2.818	43	21942	46.24	ug/L	94
15) Methylene chloride	2.904	84	38774	49.13	ug/L	97
16) Acrylonitrile	3.101	53	17079	60.27	ug/L	98
17) tert-Butyl Alcohol	2.989	59	38260	518.48	ug/L	97
18) Methyl tert-butyl Ether	3.128	73	116782	55.81	ug/L	97
19) trans-1,2-Dichloroethene	3.128	61	80929	57.94	ug/L	91
20) 1,1-Dichloroethane	3.475	63	104186	50.62	ug/L	99
21) Vinyl acetate	3.512	43	96444	51.62	ug/L	99
22) 2,2-Dichloropropane	3.966	77	73769	52.15	ug/L	97
23) 2-Butanone	3.977	72	5301	51.59	ug/L	92
24) cis-1,2-Dichloroethene	3.966	96	58297	51.71	ug/L	91
25) Bromochloromethane	4.174	128	25964	50.71	ug/L	95
26) Chloroform	4.233	83	94681	50.27	ug/L	96
28) Tetrahydrofuran	4.217	42	25520	102.25	ug/L	97
29) 1,1,1-Trichloroethane	4.403	97	80740	51.55	ug/L #	78
30) Cyclohexane	4.457	56	108573	51.64	ug/L	86
32) Carbon Tetrachloride	4.553	117	69555	52.23	ug/L	98
33) Benzene	4.734	78	208170	50.70	ug/L	97
34) 1,2-Dichloroethane	4.745	62	68367	49.76	ug/L	99
35) Trichloroethene	5.311	130	58023	50.44	ug/L	96
36) tert-Butyl Acetate	5.412	57	136114	257.21	ug/L #	89
37) Methylcyclohexane	5.492	83	98966	52.98	ug/L	98
38) 1,4-Dioxane	5.647	88	551	47.21	ug/L #	1

2/3/3/3

Data File: C:\msdchem\1\DATA\150202\x20256.D
DataAcq Meth:8260RUN.M
Acq On : 2 Feb 2015 12:58 pm Operator: Bill Brew
Sample : 50ppb mega Cal Inst : Instrument #1
Misc :
ALS Vial : 6 Sample Multiplier: 1

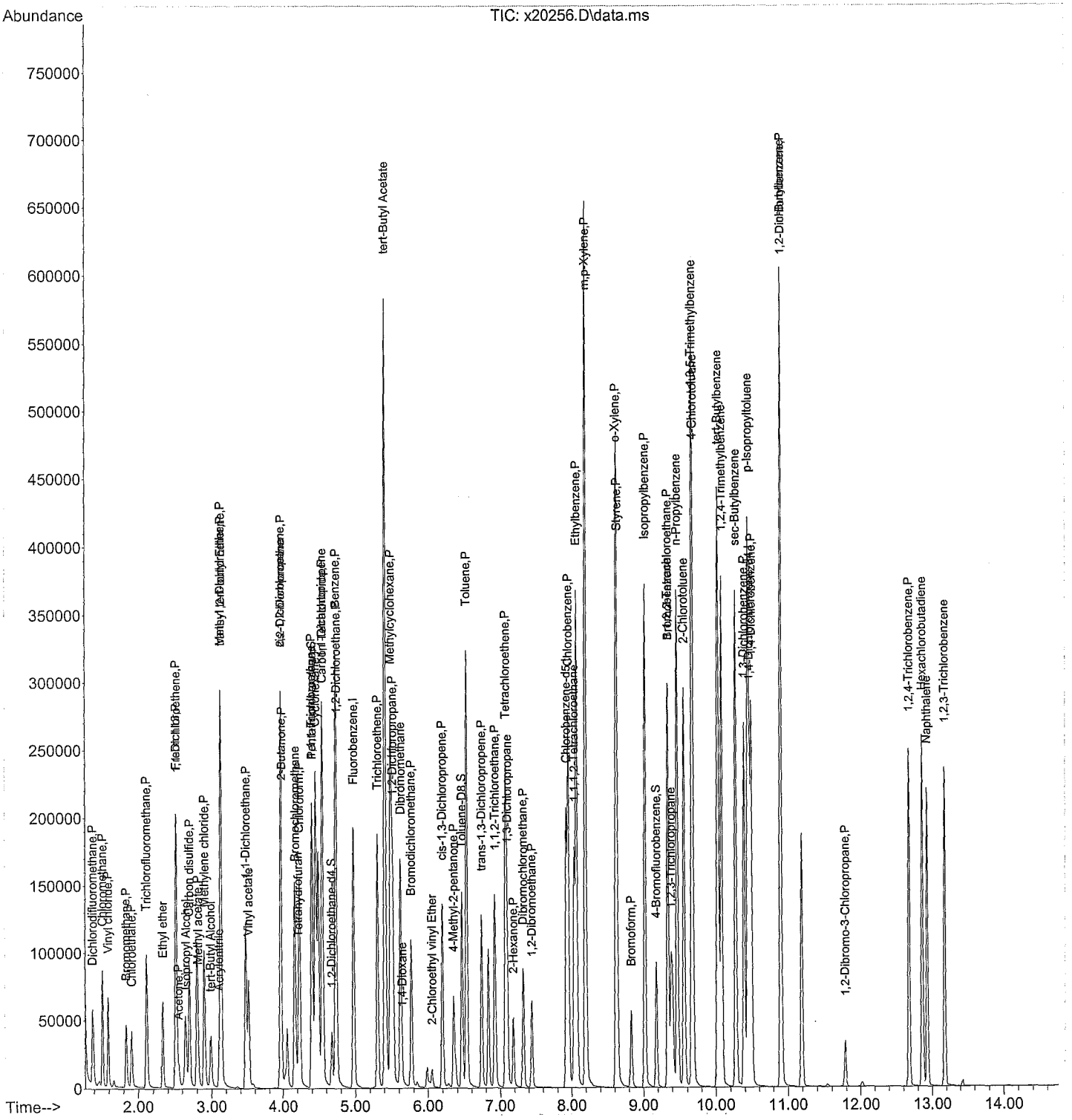
Quant Time: Feb 03 14:25:59 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 11:38:56 2015
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40) 1,2-Dichloropropane	5.519	63	57968	49.43	ug/L	#	83
42) Dibromomethane	5.626	93	28534	50.22	ug/L		92
43) Bromodichloromethane	5.770	83	65306	50.31	ug/L		99
44) 2-Chloroethyl vinyl Ether	6.058	63	5182	49.04	ug/L		97
46) 1,1-Dichloropropene	4.548	75	72149	50.69	ug/L		97
47) cis-1,3-Dichloropropene	6.197	75	70912	52.31	ug/L		87
48) 4-Methyl-2-pentanone	6.351	58	17851	50.62	ug/L	#	78
50) Toluene	6.528	91	222002	49.28	ug/L		99
51) trans-1,3-Dichloropropene	6.741	75	63586	51.81	ug/L		87
52) 1,1,2-Trichloroethane	6.928	97	42104	50.32	ug/L		99
53) 1,3-Dichloropropane	7.099	76	72105	48.63	ug/L		100
54) Tetrachloroethene	7.077	166	64151	48.36	ug/L		98
55) 2-Hexanone	7.184	43	30564	51.32	ug/L		86
56) Dibromochloromethane	7.323	129	46552	50.26	ug/L		100
57) 1,2-Dibromoethane	7.445	107	42814	48.59	ug/L		99
59) Chlorobenzene	7.952	112	144816	50.89	ug/L		100
60) 1,1,1,2-Tetrachloroethane	8.038	131	50748	47.13	ug/L		99
61) Ethylbenzene	8.070	91	249706	48.69	ug/L		98
62) m,p-Xylene	8.198	106	193837	97.01	ug/L		99
63) o-Xylene	8.620	106	92615	48.95	ug/L		99
64) Styrene	8.636	104	147181	49.79	ug/L		99
65) Bromoform	8.828	173	26842	48.68	ug/L		99
66) Isopropylbenzene	9.020	105	251895	49.86	ug/L		100
67) 1,2,3-Trichloropropane	9.388	110	15434	50.28	ug/L	#	70
69) Bromobenzene	9.345	156	62172	50.85	ug/L		92
70) 1,1,2,2-Tetrachloroethane	9.340	83	51599	50.53	ug/L		98
71) n-Propylbenzene	9.468	91	294786	50.15	ug/L		97
72) 2-Chlorotoluene	9.559	126	60211	50.79	ug/L		92
73) 4-Chlorotoluene	9.682	126	62694	51.80	ug/L		93
74) 1,3,5-Trimethylbenzene	9.666	105	213531	48.47	ug/L		99
75) tert-Butylbenzene	10.028	134	47981	50.24	ug/L		98
76) 1,2,4-Trimethylbenzene	10.082	105	217724	47.85	ug/L		99
77) sec-Butylbenzene	10.274	105	270535	47.91	ug/L		98
78) p-Isopropyltoluene	10.439	119	230483	47.69	ug/L		99
80) 1,3-Dichlorobenzene	10.386	146	117956	48.74	ug/L		98
81) 1,4-Dichlorobenzene	10.487	146	120765	49.77	ug/L		100
82) n-Butylbenzene	10.898	91	212039	47.88	ug/L		98
83) 1,2-Dichlorobenzene	10.904	146	107624	50.16	ug/L		99
85) 1,2-Dibromo-3-Chloropr...	11.784	157	9743	49.00	ug/L		96
86) 1,2,4-Trichlorobenzene	12.681	180	78447	50.06	ug/L		99
87) 1,2,3-Trichlorobenzene	13.172	180	72520	50.69	ug/L		98
88) Hexachlorobutadiene	12.862	225	49740	49.90	ug/L		100
89) Naphthalene	12.926	128	159229	51.25	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File: C:\msdchem\1\DATA\150202\x20256.D
DataAcq Meth:8260RUN.M
Acq On : 2 Feb 2015 12:58 pm Operator: Bill Brew
Sample : 50ppb mega Cal Inst : Instrument #1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 03 14:25:59 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 11:38:56 2015
Response via : Initial Calibration
Integrator: RTE



Quantitation Report (QT Reviewed)

Data File: C:\msdchem\1\DATA\150202\x20257.D
DataAcq Meth:8260RUN.M
Acq On : 2 Feb 2015 1:21 pm Operator: Bill Brew
Sample : 100ppb mega Cal Inst : Instrument #1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 03 14:26:35 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 11:38:56 2015
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.976	96	155142	50.00	ug/L		0.00
58) Chlorobenzene-d5	7.928	117	109958	50.00	ug/L		0.00
79) 1,4-Dichlorobenzene-d4	10.462	152	56951	50.00	ug/L		0.00
System Monitoring Compounds							
27) Pentafluorobenzene	4.411	168	49251	30.07	ug/L		0.00
Spiked Amount 30.000	Range 93 - 109		Recovery = 100.23%				
31) 1,2-Dichloroethane-d4	4.677	65	23190	30.03	ug/L		0.00
Spiked Amount 30.000	Range 80 - 116		Recovery = 100.10%				
49) Toluene-D8	6.465	98	88832	30.43	ug/L		0.00
Spiked Amount 30.000	Range 92 - 107		Recovery = 101.43%				
68) 4-Bromofluorobenzene	9.182	95	31480	30.38	ug/L		0.00
Spiked Amount 30.000	Range 87 - 109		Recovery = 101.27%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.379	85	96131	99.11	ug/L		99
3) Chloromethane	1.507	50	134910	101.80	ug/L		98
4) Vinyl chloride	1.587	62	100677	100.59	ug/L		100
5) Bromomethane	1.833	94	50451	100.83	ug/L		98
6) Chloroethane	1.908	64	56161	99.79	ug/L		99
7) Trichlorofluoromethane	2.110	101	136414	100.05	ug/L		99
8) Ethyl ether	2.329	59	63210	99.97	ug/L	#	100
9) Freon 113	2.516	101	71404	99.57	ug/L		100
10) 1,1-Dichloroethene	2.516	61	129574	100.27	ug/L		91
11) Acetone	2.553	43	26929	103.80	ug/L		92
12) Isopropyl Alcohol	2.660	45	44048	1031.07	ug/L		98
13) Carbon disulfide	2.703	76	216901	106.25	ug/L		99
14) Methyl acetate	2.815	43	44363	94.72	ug/L		94
15) Methylene chloride	2.900	84	75046	96.33	ug/L		96
16) Acrylonitrile	3.103	53	25991	92.92	ug/L		99
17) tert-Butyl Alcohol	2.991	59	77311	1009.57	ug/L		97
18) Methyl tert-butyl Ether	3.130	73	205191	99.35	ug/L		99
19) trans-1,2-Dichloroethene	3.124	61	134897	97.85	ug/L		91
20) 1,1-Dichloroethane	3.477	63	205686	101.24	ug/L		99
21) Vinyl acetate	3.514	43	194440	105.44	ug/L		99
22) 2,2-Dichloropropane	3.968	77	146885	105.21	ug/L		97
23) 2-Butanone	3.978	72	10345	102.00	ug/L		96
24) cis-1,2-Dichloroethene	3.968	96	112337	100.95	ug/L		90
25) Bromochloromethane	4.170	128	50513	99.96	ug/L		95
26) Chloroform	4.234	83	183686	98.80	ug/L		96
28) Tetrahydrofuran	4.218	42	51493	209.04	ug/L		97
29) 1,1,1-Trichloroethane	4.405	97	158621	102.61	ug/L	#	67
30) Cyclohexane	4.453	56	217812	104.95	ug/L		85
32) Carbon Tetrachloride	4.549	117	136972	104.22	ug/L		99
33) Benzene	4.731	78	398267	98.28	ug/L		97
34) 1,2-Dichloroethane	4.741	62	131315	96.83	ug/L		99
35) Trichloroethene	5.312	130	112765	99.31	ug/L		97
36) tert-Butyl Acetate	5.414	57	281780	539.49	ug/L	#	88
37) Methylcyclohexane	5.494	83	191376	103.80	ug/L		98
38) 1,4-Dioxane	5.654	88	1199	104.09	ug/L	#	1

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Quantitation Report (QT Reviewed)

Data File: C:\msdchem\1\DATA\150202\x20257.D
DataAcq Meth:8260RUN.M
Acq On : 2 Feb 2015 1:21 pm Operator: Bill Brew
Sample : 100ppb mega Cal Inst : Instrument #1
Misc :
ALS Vial : 7 Sample Multiplier: 1

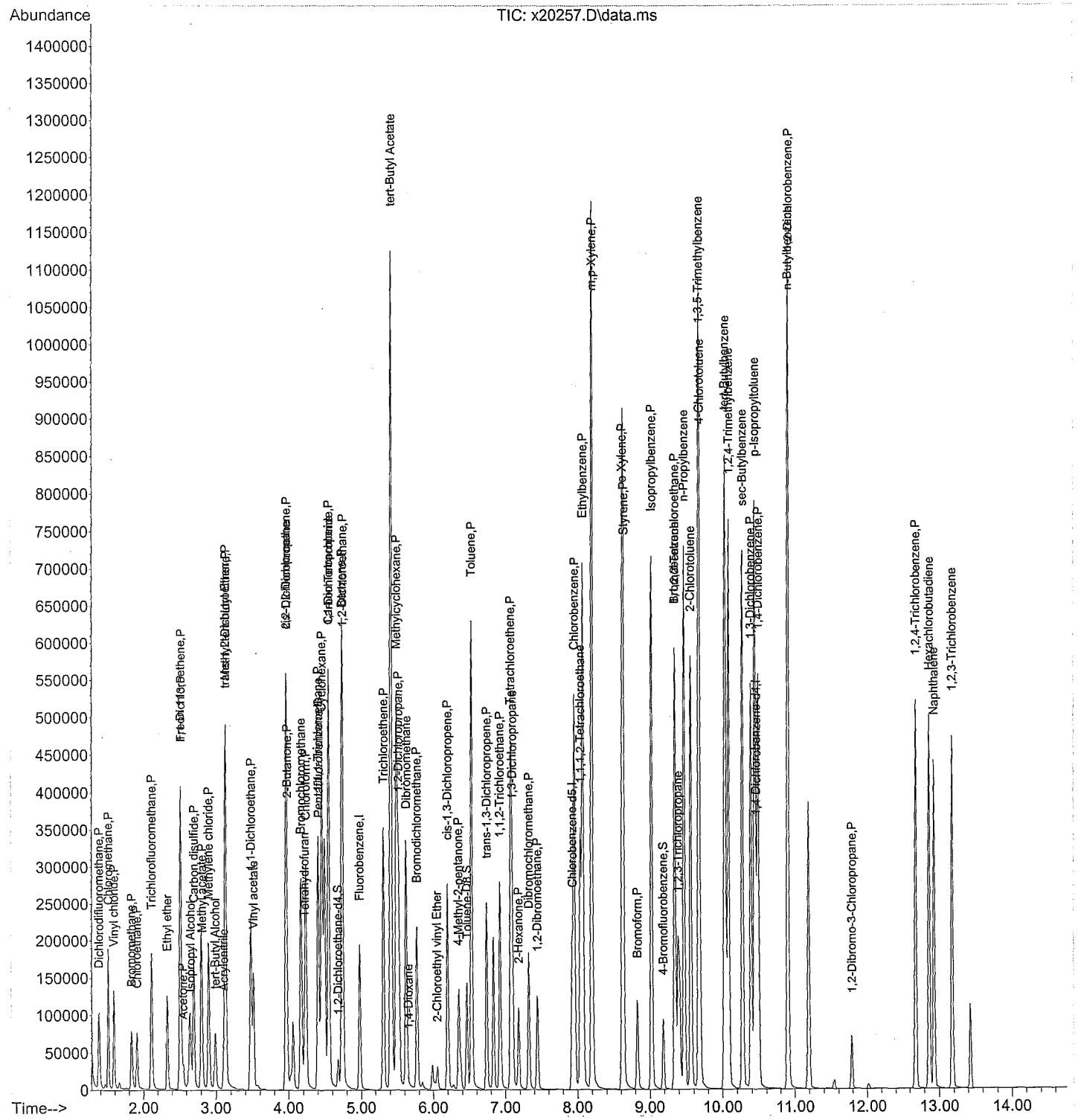
Quant Time: Feb 03 14:26:35 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 11:38:56 2015
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40) 1,2-Dichloropropane	5.521	63	111343	96.20 ug/L #	83
42) Dibromomethane	5.627	93	54859	97.83 ug/L	92
43) Bromodichloromethane	5.771	83	131560	102.69 ug/L	98
44) 2-Chloroethyl vinyl Ether	6.054	63	12030	104.36 ug/L	97
46) 1,1-Dichloropropene	4.549	75	140805	100.22 ug/L	97
47) cis-1,3-Dichloropropene	6.198	75	142798	106.73 ug/L	88
48) 4-Methyl-2-pentanone	6.348	58	36489	104.84 ug/L #	79
50) Toluene	6.529	91	430283	96.78 ug/L	98
51) trans-1,3-Dichloropropene	6.743	75	129850	107.19 ug/L	87
52) 1,1,2-Trichloroethane	6.924	97	82857	100.74 ug/L	98
53) 1,3-Dichloropropane	7.095	76	140634	96.10 ug/L	99
54) Tetrachloroethene	7.074	166	125279	95.69 ug/L	99
55) 2-Hexanone	7.180	43	63645	108.27 ug/L	87
56) Dibromochloromethane	7.324	129	94992	103.91 ug/L	100
57) 1,2-Dibromoethane	7.442	107	85795	98.66 ug/L	99
59) Chlorobenzene	7.954	112	279536	101.29 ug/L	99
60) 1,1,1,2-Tetrachloroethane	8.040	131	102075	96.41 ug/L	98
61) Ethylbenzene	8.072	91	490219	97.22 ug/L	98
62) m,p-Xylene	8.200	106	370071	188.36 ug/L	99
63) o-Xylene	8.616	106	180099	96.81 ug/L	99
64) Styrene	8.637	104	284275	97.81 ug/L	98
65) Bromoform	8.829	173	57072	105.26 ug/L	99
66) Isopropylbenzene	9.022	105	498719	100.40 ug/L	99
67) 1,2,3-Trichloropropane	9.390	110	30594	101.36 ug/L #	74
69) Bromobenzene	9.342	156	122048	101.52 ug/L	92
70) 1,1,2,2-Tetrachloroethane	9.342	83	100797	101.51 ug/L	97
71) n-Propylbenzene	9.470	91	571462	101.49 ug/L	96
72) 2-Chlorotoluene	9.561	126	118642	101.79 ug/L	92
73) 4-Chlorotoluene	9.683	126	118160	99.29 ug/L	97
74) 1,3,5-Trimethylbenzene	9.667	105	411533	95.01 ug/L	100
75) tert-Butylbenzene	10.030	134	92807	101.95 ug/L	99
76) 1,2,4-Trimethylbenzene	10.084	105	430296	96.17 ug/L	100
77) sec-Butylbenzene	10.276	105	529524	95.37 ug/L	98
78) p-Isopropyltoluene	10.441	119	454993	95.75 ug/L	99
80) 1,3-Dichlorobenzene	10.388	146	234412	101.68 ug/L	99
81) 1,4-Dichlorobenzene	10.489	146	235933	102.20 ug/L	99
82) n-Butylbenzene	10.900	91	415264	97.47 ug/L	98
83) 1,2-Dichlorobenzene	10.905	146	205199	101.50 ug/L	99
85) 1,2-Dibromo-3-Chloropr...	11.786	157	21247	111.07 ug/L	94
86) 1,2,4-Trichlorobenzene	12.677	180	160491	106.47 ug/L	99
87) 1,2,3-Trichlorobenzene	13.174	180	144513	105.01 ug/L	99
88) Hexachlorobutadiene	12.864	225	98279	102.49 ug/L	99
89) Naphthalene	12.928	128	324505	108.57 ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File: C:\msdchem\1\DATA\150202\x20257.D
DataAcq Meth:8260RUN.M
Acq On : 2 Feb 2015 1:21 pm Operator: Bill Brew
Sample : 100ppb mega Cal Inst : Instrument #1
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 03 14:26:35 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 11:38:56 2015
Response via : Initial Calibration
Integrator: RTE



Quantitation Report (QT Reviewed)

Data File: C:\msdchem\1\DATA\150202\x20258.D
DataAcq Meth:8260RUN.M
Acq On : 2 Feb 2015 1:45 pm Operator: Bill Brew
Sample : 150ppb mega Cal Inst : Instrument #1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 03 14:27:12 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 11:38:56 2015
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.977	96	159712	50.00	ug/L		0.00
58) Chlorobenzene-d5	7.923	117	114454	50.00	ug/L		0.00
79) 1,4-Dichlorobenzene-d4	10.463	152	58259	50.00	ug/L		0.00
System Monitoring Compounds							
27) Pentafluorobenzene	4.411	168	49674	29.46	ug/L		0.00
Spiked Amount 30.000	Range 93 - 109		Recovery = 98.20%				
31) 1,2-Dichloroethane-d4	4.678	65	24108	30.32	ug/L		0.00
Spiked Amount 30.000	Range 80 - 116		Recovery = 101.07%				
49) Toluene-D8	6.466	98	91350	30.40	ug/L		0.00
Spiked Amount 30.000	Range 92 - 107		Recovery = 101.33%				
68) 4-Bromofluorobenzene	9.182	95	33100	30.68	ug/L		0.00
Spiked Amount 30.000	Range 87 - 109		Recovery = 102.27%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.380	85	144786	145.00	ug/L		99
3) Chloromethane	1.508	50	205478	150.62	ug/L		99
4) Vinyl chloride	1.588	62	153661	149.14	ug/L		100
5) Bromomethane	1.828	94	72493	146.38	ug/L		98
6) Chloroethane	1.908	64	82872	143.04	ug/L		97
7) Trichlorofluoromethane	2.111	101	205808	146.62	ug/L		99
8) Ethyl ether	2.330	59	97843	150.32	ug/L	#	100
9) Freon 113	2.511	101	107197	145.20	ug/L		100
10) 1,1-Dichloroethene	2.517	61	193217	145.24	ug/L		93
11) Acetone	2.554	43	39373	148.35	ug/L		88
12) Isopropyl Alcohol	2.661	45	67823	1542.16	ug/L		96
13) Carbon disulfide	2.703	76	330266	157.16	ug/L		100
14) Methyl acetate	2.815	43	67372	139.74	ug/L		94
15) Methylene chloride	2.901	84	115767	144.35	ug/L		98
16) Acrylonitrile	3.104	53	39206	136.16	ug/L		100
17) tert-Butyl Alcohol	2.992	59	120969	1467.57	ug/L		96
18) Methyl tert-butyl Ether	3.130	73	326393	153.51	ug/L		99
19) trans-1,2-Dichloroethene	3.125	61	210573	148.38	ug/L		92
20) 1,1-Dichloroethane	3.472	63	311293	148.84	ug/L		99
21) Vinyl acetate	3.509	43	293686	154.70	ug/L		98
22) 2,2-Dichloropropane	3.968	77	226059	157.28	ug/L		96
23) 2-Butanone	3.979	72	16478	157.81	ug/L		94
24) cis-1,2-Dichloroethene	3.963	96	166714	145.53	ug/L		89
25) Bromochloromethane	4.171	128	75757	145.63	ug/L		95
26) Chloroform	4.235	83	276442	144.44	ug/L		96
28) Tetrahydrofuran	4.219	42	78109	308.02	ug/L		96
29) 1,1,1-Trichloroethane	4.406	97	241310	151.63	ug/L	#	64
30) Cyclohexane	4.454	56	325976	152.58	ug/L		84
32) Carbon Tetrachloride	4.550	117	207170	153.12	ug/L		99
33) Benzene	4.731	78	588680	141.11	ug/L		96
34) 1,2-Dichloroethane	4.742	62	203699	145.91	ug/L		99
35) Trichloroethene	5.308	130	170337	145.72	ug/L		97
36) tert-Butyl Acetate	5.414	57	444018	825.78	ug/L	#	86
37) Methylcyclohexane	5.495	83	282658	148.92	ug/L		98
38) 1,4-Dioxane	5.655	88	1901	160.31	ug/L	#	1

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Quantitation Report (QT Reviewed)

Data File: C:\msdchem\1\DATA\150202\x20258.D
DataAcq Meth:8260RUN.M
Acq On : 2 Feb 2015 1:45 pm Operator: Bill Brew
Sample : 150ppb mega Cal Inst : Instrument #1
Misc :
ALS Vial : 8 Sample Multiplier: 1

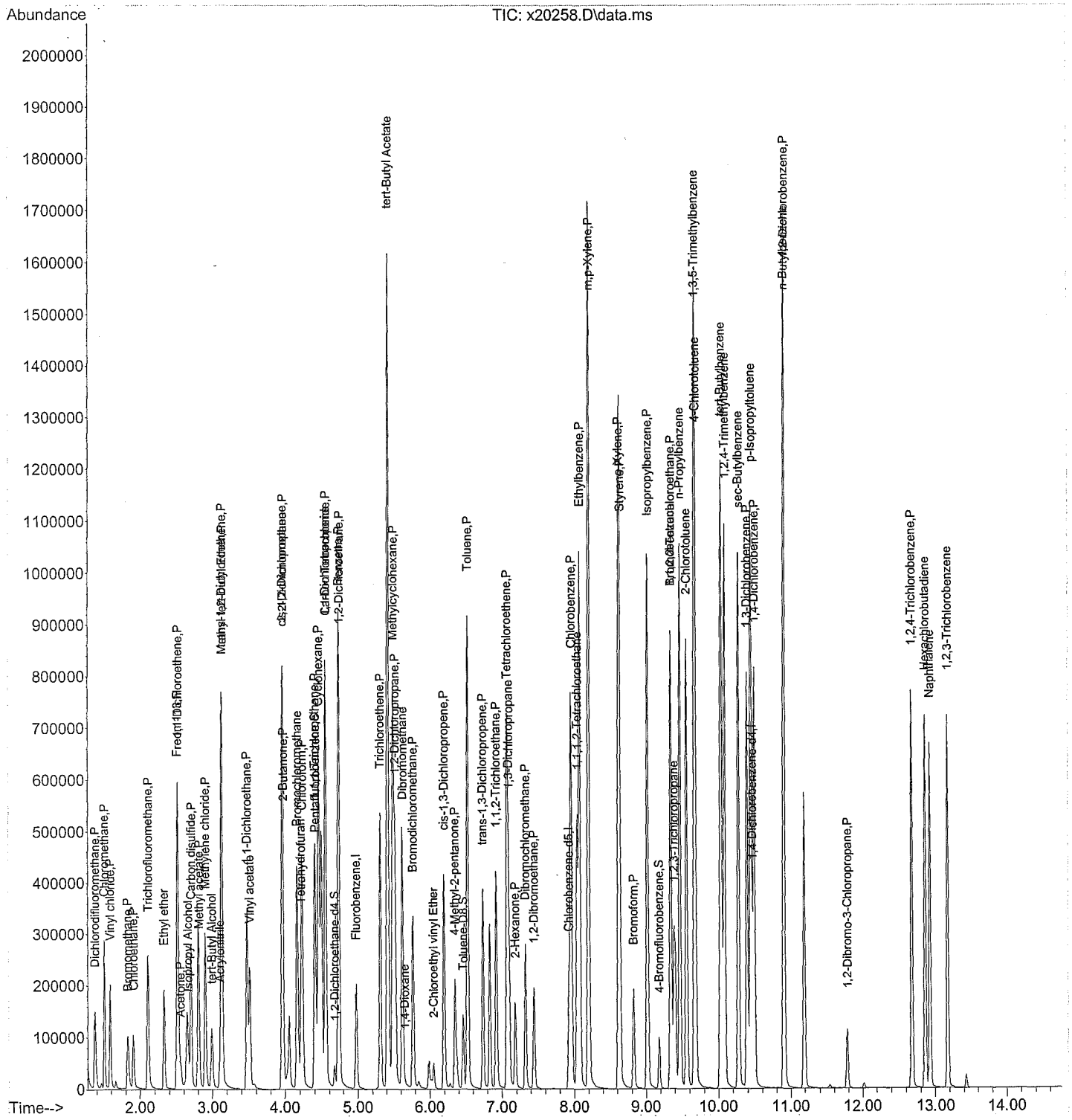
Quant Time: Feb 03 14:27:12 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 11:38:56 2015
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40) 1,2-Dichloropropane	5.521	63	168604	141.51 ug/L #	83
42) Dibromomethane	5.628	93	83171	144.07 ug/L	93
43) Bromodichloromethane	5.772	83	201980	153.14 ug/L	98
44) 2-Chloroethyl vinyl Ether	6.055	63	18902	148.11 ug/L	95
46) 1,1-Dichloropropene	4.550	75	210459	145.51 ug/L	98
47) cis-1,3-Dichloropropene	6.199	75	220375	160.00 ug/L	87
48) 4-Methyl-2-pentanone	6.348	58	56947	158.93 ug/L #	80
50) Toluene	6.530	91	630985	137.86 ug/L	98
51) trans-1,3-Dichloropropene	6.738	75	202678	162.53 ug/L	87
52) 1,1,2-Trichloroethane	6.925	97	124995	148.21 ug/L	98
53) 1,3-Dichloropropane	7.096	76	212277	140.90 ug/L	99
54) Tetrachloroethene	7.074	166	192651	142.95 ug/L	99
55) 2-Hexanone	7.181	43	100597	166.24 ug/L	88
56) Dibromochloromethane	7.325	129	147995	157.26 ug/L	100
57) 1,2-Dibromoethane	7.442	107	132325	147.81 ug/L	98
59) Chlorobenzene	7.955	112	415538	146.47 ug/L	99
60) 1,1,1,2-Tetrachloroethane	8.040	131	154630	140.31 ug/L	98
61) Ethylbenzene	8.072	91	724282	137.99 ug/L	98
62) m,p-Xylene	8.200	106	542657	265.36 ug/L	100
63) o-Xylene	8.617	106	266595	137.67 ug/L	100
64) Styrene	8.638	104	419991	138.83 ug/L	98
65) Bromoform	8.825	173	91447	162.03 ug/L	99
66) Isopropylbenzene	9.022	105	729877	141.16 ug/L	100
67) 1,2,3-Trichloropropane	9.390	110	46917	149.33 ug/L #	75
69) Bromobenzene	9.342	156	181130	144.75 ug/L	93
70) 1,1,2,2-Tetrachloroethane	9.342	83	150588	147.15 ug/L	97
71) n-Propylbenzene	9.470	91	842973	147.32 ug/L	95
72) 2-Chlorotoluene	9.561	126	173440	142.96 ug/L	92
73) 4-Chlorotoluene	9.684	126	171937	138.80 ug/L	99
74) 1,3,5-Trimethylbenzene	9.668	105	604049	133.98 ug/L	99
75) tert-Butylbenzene	10.031	134	135153	146.65 ug/L	98
76) 1,2,4-Trimethylbenzene	10.084	105	633767	136.08 ug/L	99
77) sec-Butylbenzene	10.276	105	782682	135.43 ug/L	98
78) p-Isopropyltoluene	10.442	119	670922	135.64 ug/L	100
80) 1,3-Dichlorobenzene	10.388	146	347577	148.68 ug/L	99
81) 1,4-Dichlorobenzene	10.490	146	343287	146.77 ug/L	99
82) n-Butylbenzene	10.901	91	601207	137.94 ug/L	98
83) 1,2-Dichlorobenzene	10.906	146	298326	146.99 ug/L	99
85) 1,2-Dibromo-3-Chloropr...	11.787	157	33715	172.29 ug/L	93
86) 1,2,4-Trichlorobenzene	12.678	180	240388	155.89 ug/L	99
87) 1,2,3-Trichlorobenzene	13.174	180	214776	152.56 ug/L	98
88) Hexachlorobutadiene	12.865	225	145859	148.70 ug/L	99
89) Naphthalene	12.929	128	498115	162.91 ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File: C:\msdchem\1\DATA\150202\x20258.D
DataAcq Meth:8260RUN.M
Acq On : 2 Feb 2015 1:45 pm Operator: Bill Brew
Sample : 150ppb mega Cal Inst : Instrument #1
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 03 14:27:12 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 11:38:56 2015
Response via : Initial Calibration
Integrator: RTE



Quantitation Report (QT Reviewed)

Data File: C:\msdchem\1\DATA\150202\x20259.D
DataAcq Meth:8260RUN.M
Acq On : 2 Feb 2015 2:08 pm Operator: Bill Brew
Sample : 200ppb mega Cal Inst : Instrument #1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 03 14:27:46 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 11:38:56 2015
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.979	96	157109	50.00	ug/L		0.00
58) Chlorobenzene-d5	7.925	117	111898	50.00	ug/L		0.00
79) 1,4-Dichlorobenzene-d4	10.466	152	56185	50.00	ug/L		0.00
System Monitoring Compounds							
27) Pentafluorobenzene	4.408	168	49472	29.82	ug/L		0.00
Spiked Amount 30.000	Range 93 - 109		Recovery = 99.40%				
31) 1,2-Dichloroethane-d4	4.675	65	23515	30.07	ug/L		0.00
Spiked Amount 30.000	Range 80 - 116		Recovery = 100.23%				
49) Toluene-D8	6.463	98	90835	30.73	ug/L		0.00
Spiked Amount 30.000	Range 92 - 107		Recovery = 102.43%				
68) 4-Bromofluorobenzene	9.180	95	32382	30.70	ug/L		0.00
Spiked Amount 30.000	Range 87 - 109		Recovery = 102.33%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.377	85	191513	194.98	ug/L		99
3) Chloromethane	1.505	50	281472	209.74	ug/L		99
4) Vinyl chloride	1.591	62	209905	207.11	ug/L		99
5) Bromomethane	1.820	94	93573	201.96	ug/L		98
6) Chloroethane	1.900	64	109311	191.81	ug/L		98
7) Trichlorofluoromethane	2.108	101	278824	201.93	ug/L		99
8) Ethyl ether	2.327	59	133522	208.54	ug/L	#	100
9) Freon 113	2.514	101	146470	201.69	ug/L		99
10) 1,1-Dichloroethene	2.514	61	263161	201.09	ug/L		93
11) Acetone	2.557	43	56154	216.54	ug/L		90
12) Isopropyl Alcohol	2.663	45	96235	2224.44	ug/L		93
13) Carbon disulfide	2.701	76	452433	218.86	ug/L		100
14) Methyl acetate	2.818	43	93073	196.24	ug/L		94
15) Methylene chloride	2.898	84	156774	198.73	ug/L		98
16) Acrylonitrile	3.101	53	53136	187.59	ug/L		98
17) tert-Butyl Alcohol	2.994	59	171778	2013.77	ug/L		96
18) Methyl tert-butyl Ether	3.128	73	396540	189.59	ug/L		99
19) trans-1,2-Dichloroethene	3.122	61	246850	176.82	ug/L		93
20) 1,1-Dichloroethane	3.474	63	411405	199.96	ug/L		99
21) Vinyl acetate	3.512	43	397124	212.65	ug/L		98
22) 2,2-Dichloropropane	3.965	77	301269	213.09	ug/L		96
23) 2-Butanone	3.981	72	21114	205.57	ug/L		98
24) cis-1,2-Dichloroethene	3.965	96	216618	192.23	ug/L	#	88
25) Bromochloromethane	4.174	128	99550	194.54	ug/L		94
26) Chloroform	4.238	83	364333	193.52	ug/L		96
28) Tetrahydrofuran	4.216	42	104591	419.28	ug/L		96
29) 1,1,1-Trichloroethane	4.403	97	321935	205.65	ug/L	#	62
30) Cyclohexane	4.456	56	409988	195.08	ug/L		87
32) Carbon Tetrachloride	4.553	117	277481	208.48	ug/L		98
33) Benzene	4.734	78	764200	186.22	ug/L		96
34) 1,2-Dichloroethane	4.745	62	267389	194.70	ug/L		98
35) Trichloroethene	5.310	130	223754	194.59	ug/L		97
36) tert-Butyl Acetate	5.417	57	602858	1139.77	ug/L	#	83
37) Methylcyclohexane	5.492	83	374827	200.76	ug/L		97
38) 1,4-Dioxane	5.652	88	2722	233.35	ug/L	#	1

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Data File: C:\msdchem\1\DATA\150202\x20259.D
DataAcq Meth:8260RUN.M
Acq On : 2 Feb 2015 2:08 pm Operator: Bill Brew
Sample : 200ppb mega Cal Inst : Instrument #1
Misc :
ALS Vial : 9 Sample Multiplier: 1

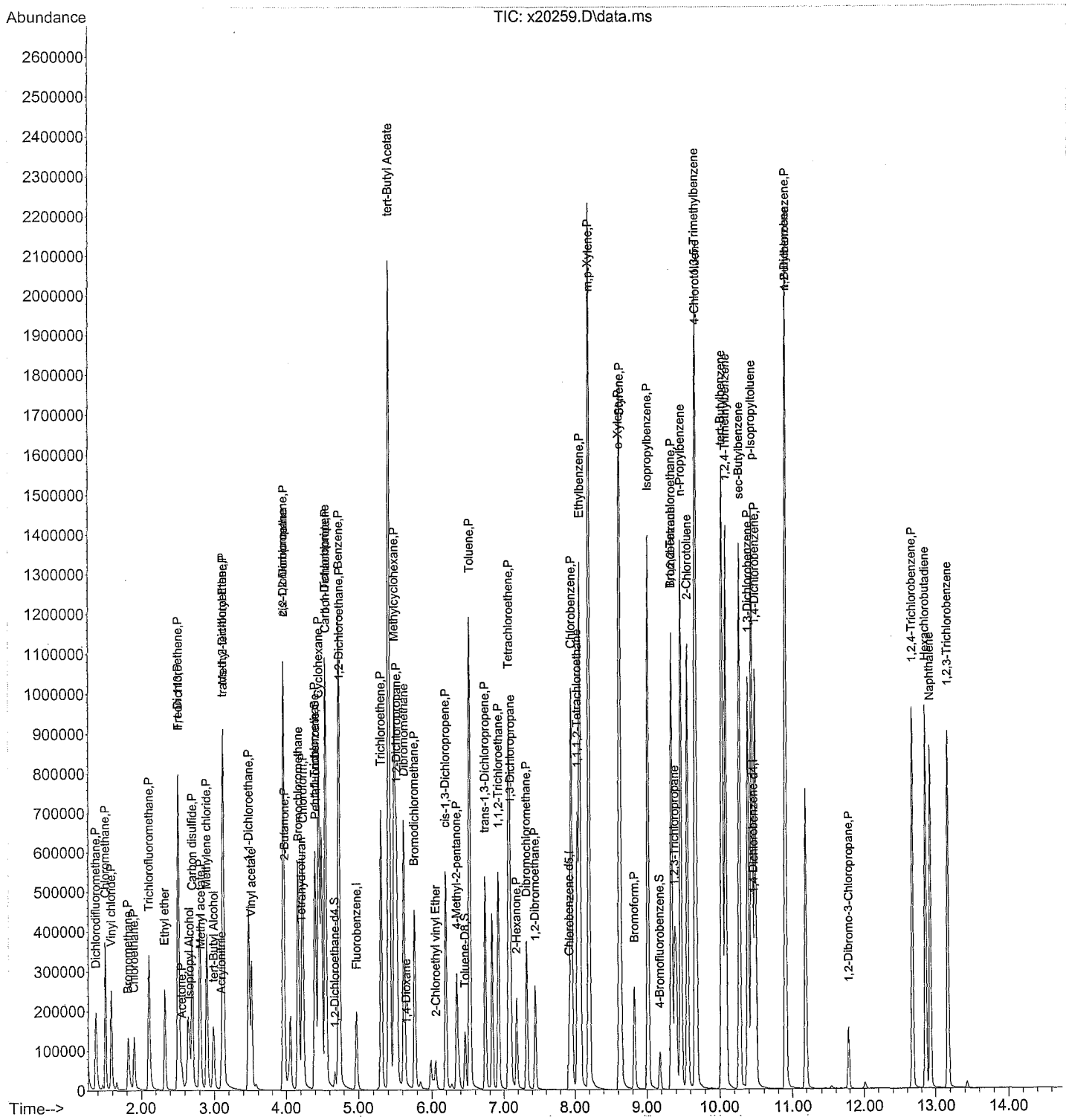
Quant Time: Feb 03 14:27:46 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 11:38:56 2015
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
40) 1,2-Dichloropropane	5.524	63	223051	190.31 ug/L #	83
42) Dibromomethane	5.625	93	109643	193.08 ug/L	93
43) Bromodichloromethane	5.769	83	270351	208.38 ug/L	98
44) 2-Chloroethyl vinyl Ether	6.057	63	27228	200.18 ug/L	95
46) 1,1-Dichloropropene	4.547	75	278179	195.52 ug/L	98
47) cis-1,3-Dichloropropene	6.196	75	291961	215.48 ug/L	88
48) 4-Methyl-2-pentanone	6.351	58	78014	221.34 ug/L #	81
50) Toluene	6.532	91	832560	184.92 ug/L	98
51) trans-1,3-Dichloropropene	6.741	75	273530	222.98 ug/L	87
52) 1,1,2-Trichloroethane	6.927	97	165866	200.80 ug/L	99
53) 1,3-Dichloropropane	7.098	76	283153	191.06 ug/L	99
54) Tetrachloroethene	7.077	166	254977	192.33 ug/L	99
55) 2-Hexanone	7.184	43	135568	227.74 ug/L	86
56) Dibromochloromethane	7.322	129	199156	215.12 ug/L	99
57) 1,2-Dibromoethane	7.445	107	176318	200.21 ug/L	99
59) Chlorobenzene	7.957	112	550724	201.63 ug/L	99
60) 1,1,1,2-Tetrachloroethane	8.037	131	205502	190.73 ug/L	98
61) Ethylbenzene	8.075	91	944273	184.02 ug/L	98
62) m,p-Xylene	8.198	106	695823	348.03 ug/L	100
63) o-Xylene	8.619	106	349297	184.50 ug/L	100
64) Styrene	8.635	104	548161	185.34 ug/L	97
65) Bromoform	8.827	173	123186	223.26 ug/L	99
66) Isopropylbenzene	9.019	105	961333	190.17 ug/L	99
67) 1,2,3-Trichloropropane	9.388	110	62375	203.06 ug/L #	77
69) Bromobenzene	9.345	156	232910	190.38 ug/L	94
70) 1,1,2,2-Tetrachloroethane	9.345	83	198909	201.21 ug/L	97
71) n-Propylbenzene	9.473	91	1093226	201.16 ug/L	95
72) 2-Chlorotoluene	9.564	126	229476	193.47 ug/L	92
73) 4-Chlorotoluene	9.681	126	222335	183.59 ug/L	98
74) 1,3,5-Trimethylbenzene	9.671	105	778940	176.71 ug/L	99
75) tert-Butylbenzene	10.028	134	175256	201.44 ug/L	98
76) 1,2,4-Trimethylbenzene	10.087	105	819212	179.91 ug/L	99
77) sec-Butylbenzene	10.274	105	1011085	178.94 ug/L	98
78) p-Isopropyltoluene	10.439	119	872913	180.51 ug/L	100
80) 1,3-Dichlorobenzene	10.391	146	447408	200.40 ug/L	99
81) 1,4-Dichlorobenzene	10.487	146	448688	201.29 ug/L	99
82) n-Butylbenzene	10.903	91	784846	186.72 ug/L	98
83) 1,2-Dichlorobenzene	10.903	146	385136	201.34 ug/L	99
85) 1,2-Dibromo-3-Chloropr...	11.784	157	46724	247.58 ug/L	94
86) 1,2,4-Trichlorobenzene	12.680	180	307518	206.78 ug/L	99
87) 1,2,3-Trichlorobenzene	13.177	180	280201	206.38 ug/L	99
88) Hexachlorobutadiene	12.862	225	188462	199.22 ug/L	99
89) Naphthalene	12.926	128	657133	222.85 ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File: C:\msdchem\1\DATA\150202\x20259.D
DataAcq Meth:8260RUN.M
Acq On : 2 Feb 2015 2:08 pm Operator: Bill Brew
Sample : 200ppb mega Cal Inst : Instrument #1
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 03 14:27:46 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 11:38:56 2015
Response via : Initial Calibration
Integrator: RTE



Evaluate Continuing Calibration Report

Data File: C:\msdchem\1\DATA\150205\x20323.D
DataAcq Meth:8260RUN.M
Acq On : 5 Feb 2015 11:27 am Operator: Bill Brew
Sample : 50ppb mega CC Inst : Instrument #1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 05 11:42:46 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

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		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	50.000	50.000	0.0	106	0.00
2	P	Dichlorodifluoromethane	50.000	49.411	1.2	106	-0.01
3	P	Chloromethane	50.000	51.088	-2.2	110	-0.01
4	P	Vinyl chloride	50.000	54.846	-9.7	116	-0.01
5	P	Bromomethane	50.000	57.608	-15.2	120	-0.01
6	P	Chloroethane	50.000	55.932	-11.9	118	0.00
7	P	Trichlorofluoromethane	50.000	52.482	-5.0	110	-0.01
8		Ethyl ether	50.000	50.297	-0.6	108	-0.01
9	P	Freon 113	50.000	53.804	-7.6	114	-0.01
10	P	1,1-Dichloroethene	50.000	52.731	-5.5	111	-0.01
11	P	Acetone	50.000	53.410	-6.8	122	0.00
12		Isopropyl Alcohol	500.000	499.246	0.2	104	0.00
13	P	Carbon disulfide	50.000	54.954	-9.9	112	-0.01
14	P	Methyl acetate	50.000	48.223	3.6	110	-0.01
15	P	Methylene chloride	50.000	50.742	-1.5	109	0.00
16		Acrylonitrile	50.000	45.714	8.6	80	-0.01
17		tert-Butyl Alcohol	500.000	516.828	-3.4	105	0.00
18	P	Methyl tert-butyl Ether	50.000	46.253	7.5	88	-0.01
19	P	trans-1,2-Dichloroethene	50.000	47.725	4.5	87	-0.01
20	P	1,1-Dichloroethane	50.000	51.962	-3.9	109	-0.01
21		Vinyl acetate	50.000	50.888	-1.8	104	-0.01
22		2,2-Dichloropropane	50.000	54.599	-9.2	111	-0.01
23	P	2-Butanone	50.000	51.752	-3.5	106	0.00
24	P	cis-1,2-Dichloroethene	50.000	51.657	-3.3	106	-0.01
25		Bromochloromethane	50.000	50.551	-1.1	105	0.00
26	P	Chloroform	50.000	50.053	-0.1	105	0.00
27	S	Pentafluorobenzene	30.000	30.303	-1.0	105	0.00
28		Tetrahydrofuran	100.000	100.221	-0.2	104	0.00
29	P	1,1,1-Trichloroethane	50.000	52.217	-4.4	107	-0.01
30	P	Cyclohexane	50.000	53.309	-6.6	109	-0.01
31	S	1,2-Dichloroethane-d4	30.000	28.619	4.6	100	0.00
32	P	Carbon Tetrachloride	50.000	52.448	-4.9	106	-0.01
33	P	Benzene	50.000	51.747	-3.5	108	-0.01
34	P	1,2-Dichloroethane	50.000	48.293	3.4	103	-0.01
35	P	Trichloroethene	50.000	51.676	-3.4	108	-0.01
36		tert-Butyl Acetate	250.000	260.208	-4.1	107	0.00
37	P	Methylcyclohexane	50.000	55.389	-10.8	111	-0.01
38		1,4-Dioxane	50.000	44.417	11.2	99	0.00
39	UN	Ethyl acetate	-1.000	0.000	0.0	0	-0.01
40	P	1,2-Dichloropropane	50.000	49.364	1.3	106	-0.01
41	UN	Isobutyl alcohol	-1.000	0.000	0.0	0	-0.01
42		Dibromomethane	50.000	48.422	3.2	102	-0.01
43	P	Bromodichloromethane	50.000	48.654	2.7	102	-0.01
44		2-Chloroethyl vinyl Ether	50.000	24.422	51.2#	50	0.00
45	UN	Isopropyl acetate	-1.000	0.000	0.0	0	-0.01
46		1,1-Dichloropropene	50.000	52.389	-4.8	109	-0.01
47	P	cis-1,3-Dichloropropene	50.000	52.091	-4.2	105	0.00

see ICC std

Data File: C:\msdchem\1\DATA\150205\x20323.D
DataAcq Meth:8260RUN.M
Acq On : 5 Feb 2015 11:27 am Operator: Bill Brew
Sample : 50ppb mega CC Inst : Instrument #1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 05 11:42:46 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48	P	4-Methyl-2-pentanone	50.000	49.224	1.6	103	0.00
49	S	Toluene-D8	30.000	29.899	0.3	104	0.00
50	P	Toluene	50.000	50.696	-1.4	109	0.00
51	P	trans-1,3-Dichloropropene	50.000	50.883	-1.8	105	0.00
52	P	1,1,2-Trichloroethane	50.000	49.777	0.4	105	0.00
53		1,3-Dichloropropane	50.000	47.873	4.3	104	0.00
54	P	Tetrachloroethene	50.000	49.554	0.9	108	0.00
55	P	2-Hexanone	50.000	49.408	1.2	102	0.00
56	P	Dibromochloromethane	50.000	47.423	5.2	100	0.00
57	P	1,2-Dibromoethane	50.000	47.305	5.4	103	0.00
58	I	Chlorobenzene-d5	50.000	50.000	0.0	103	0.00
59	P	Chlorobenzene	50.000	52.469	-4.9	106	0.00
60		1,1,1,2-Tetrachloroethane	50.000	48.473	3.1	106	0.00
61	P	Ethylbenzene	50.000	51.572	-3.1	109	0.00
62	P	m,p-Xylene	100.000	103.219	-3.2	110	0.00
63	P	o-Xylene	50.000	51.877	-3.8	109	0.00
64	P	Styrene	50.000	52.351	-4.7	108	0.00
65	P	Bromoform	50.000	47.069	5.9	100	0.00
66	P	Isopropylbenzene	50.000	53.063	-6.1	110	0.00
67		1,2,3-Trichloropropane	50.000	50.440	-0.9	103	0.00
68	S	4-Bromofluorobenzene	30.000	30.123	-0.4	103	0.00
69		Bromobenzene	50.000	52.956	-5.9	107	0.00
70	P	1,1,2,2-Tetrachloroethane	50.000	50.789	-1.6	104	0.00
71		n-Propylbenzene	50.000	53.471	-6.9	110	0.00
72		2-Chlorotoluene	50.000	53.496	-7.0	109	0.00
73		4-Chlorotoluene	50.000	53.751	-7.5	107	0.00
74		1,3,5-Trimethylbenzene	50.000	50.944	-1.9	108	0.00
75		tert-Butylbenzene	50.000	52.315	-4.6	107	0.00
76		1,2,4-Trimethylbenzene	50.000	50.061	-0.1	108	0.00
77		sec-Butylbenzene	50.000	51.223	-2.4	110	0.00
78		p-Isopropyltoluene	50.000	51.157	-2.3	111	0.00
79	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	101	0.00
80	P	1,3-Dichlorobenzene	50.000	52.209	-4.4	108	0.00
81	P	1,4-Dichlorobenzene	50.000	52.029	-4.1	106	0.00
82		n-Butylbenzene	50.000	53.069	-6.1	112	0.00
83	P	1,2-Dichlorobenzene	50.000	52.031	-4.1	105	0.00
84	UN	Tetraethyllead	-1.000	0.000	0.0	0	-12.28#
85	P	1,2-Dibromo-3-Chloropropane	50.000	49.592	0.8	103	0.00
86	P	1,2,4-Trichlorobenzene	50.000	53.624	-7.2	108	0.00
87		1,2,3-Trichlorobenzene	50.000	52.203	-4.4	104	0.00
88		Hexachlorobutadiene	50.000	53.445	-6.9	108	0.00
89		Naphthalene	50.000	51.676	-3.4	102	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File: C:\msdchem\1\DATA\150205\x20323.D
DataAcq Meth:8260RUN.M
Acq On : 5 Feb 2015 11:27 am Operator: Bill Brew
Sample : 50ppb mega CC Inst : Instrument #1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 05 11:42:46 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.976	96	166168	50.00	ug/L		0.00
58) Chlorobenzene-d5	7.922	117	115301	50.00	ug/L		0.00
79) 1,4-Dichlorobenzene-d4	10.457	152	59830	50.00	ug/L		0.00
System Monitoring Compounds							
27) Pentafluorobenzene	4.405	168	53166	30.30	ug/L		0.00
Spiked Amount 30.000	Range 93 - 109		Recovery = 101.00%				
31) 1,2-Dichloroethane-d4	4.672	65	23673	28.62	ug/L		0.00
Spiked Amount 30.000	Range 80 - 116		Recovery = 95.40%				
49) Toluene-D8	6.460	98	93477	29.90	ug/L		0.00
Spiked Amount 30.000	Range 92 - 107		Recovery = 99.67%				
68) 4-Bromofluorobenzene	9.181	95	32735	30.12	ug/L		0.00
Spiked Amount 30.000	Range 87 - 109		Recovery = 100.40%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.374	85	51331	49.41	ug/L		98
3) Chloromethane	1.507	50	72514	51.09	ug/L		99
4) Vinyl chloride	1.587	62	58792	54.85	ug/L		100
5) Bromomethane	1.833	94	32004	57.61	ug/L		98
6) Chloroethane	1.907	64	33714	55.93	ug/L		98
7) Trichlorofluoromethane	2.110	101	76646	52.48	ug/L		99
8) Ethyl ether	2.329	59	34061	50.30	ug/L	#	100
9) Freon 113	2.510	101	41327	53.80	ug/L		99
10) 1,1-Dichloroethene	2.516	61	72987	52.73	ug/L		92
11) Acetone	2.553	43	15052	53.41	ug/L		92
12) Isopropyl Alcohol	2.654	45	22844	499.25	ug/L		98
13) Carbon disulfide	2.702	76	120153	54.95	ug/L		100
14) Methyl acetate	2.815	43	24190	48.22	ug/L		95
15) Methylene chloride	2.900	84	42338	50.74	ug/L		97
16) Acrylonitrile	3.097	53	13695	45.71	ug/L		100
17) tert-Butyl Alcohol	2.985	59	40311	516.83	ug/L		95
18) Methyl tert-butyl Ether	3.124	73	102318	46.25	ug/L		99
19) trans-1,2-Dichloroethene	3.124	61	70469	47.73	ug/L		93
20) 1,1-Dichloroethane	3.471	63	113071	51.96	ug/L		99
21) Vinyl acetate	3.508	43	100513	50.89	ug/L		99
22) 2,2-Dichloropropane	3.962	77	81645	54.60	ug/L		97
23) 2-Butanone	3.973	72	5622	51.75	ug/L		95
24) cis-1,2-Dichloroethene	3.962	96	61568	51.66	ug/L		90
25) Bromochloromethane	4.170	128	27360	50.55	ug/L		94
26) Chloroform	4.234	83	99668	50.05	ug/L		97
28) Tetrahydrofuran	4.218	42	26442	100.22	ug/L		97
29) 1,1,1-Trichloroethane	4.400	97	86457	52.22	ug/L	#	78
30) Cyclohexane	4.453	56	118494	53.31	ug/L		87
32) Carbon Tetrachloride	4.549	117	73830	52.45	ug/L		98
33) Benzene	4.730	78	224601	51.75	ug/L		98
34) 1,2-Dichloroethane	4.741	62	70145	48.29	ug/L		99
35) Trichloroethene	5.307	130	62848	51.68	ug/L		97
36) tert-Butyl Acetate	5.414	57	145568	260.21	ug/L	#	88
37) Methylcyclohexane	5.488	83	109379	55.39	ug/L		98
38) 1,4-Dioxane	5.643	88	548	44.42	ug/L	#	1

2/5 BJB

Data File: C:\msdchem\1\DATA\150205\x20323.D
DataAcq Meth:8260RUN.M
Acq On : 5 Feb 2015 11:27 am Operator: Bill Brew
Sample : 50ppb mega CC Inst : Instrument #1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 05 11:42:46 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE

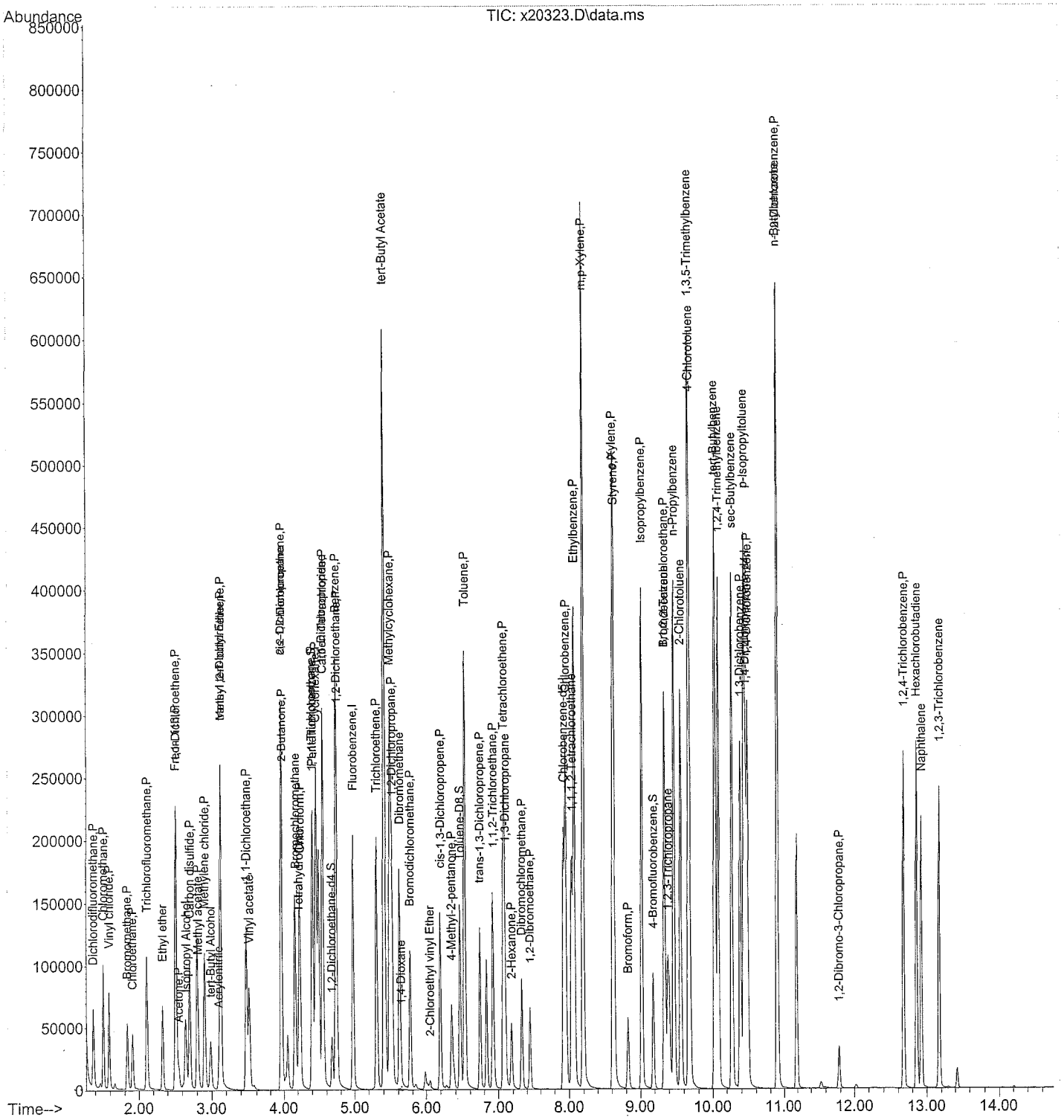
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
40)	1,2-Dichloropropane	5.515	63	61193	49.36	ug/L	#	84
42)	Dibromomethane	5.622	93	29083	48.42	ug/L		92
43)	Bromodichloromethane	5.766	83	66763	48.65	ug/L		98
44)	2-Chloroethyl vinyl Ether	6.054	63	2600	24.42	ug/L		93
46)	1,1-Dichloropropene	4.544	75	78836	52.39	ug/L		97
47)	cis-1,3-Dichloropropene	6.198	75	74648	52.09	ug/L		86
48)	4-Methyl-2-pentanone	6.348	58	18350	49.22	ug/L	#	77
50)	Toluene	6.529	91	241411	50.70	ug/L		98
51)	trans-1,3-Dichloropropene	6.737	75	66018	50.88	ug/L		86
52)	1,1,2-Trichloroethane	6.924	97	44034	49.78	ug/L		98
53)	1,3-Dichloropropane	7.095	76	75040	47.87	ug/L		100
54)	Tetrachloroethene	7.073	166	69484	49.55	ug/L		98
55)	2-Hexanone	7.180	43	31107	49.41	ug/L		85
56)	Dibromochloromethane	7.319	129	46434	47.42	ug/L		99
57)	1,2-Dibromoethane	7.442	107	44062	47.30	ug/L		99
59)	Chlorobenzene	7.954	112	153867	52.47	ug/L		99
60)	1,1,1,2-Tetrachloroethane	8.039	131	53817	48.47	ug/L		97
61)	Ethylbenzene	8.071	91	272688	51.57	ug/L		98
62)	m,p-Xylene	8.194	106	212646	103.22	ug/L		100
63)	o-Xylene	8.616	106	101201	51.88	ug/L		99
64)	Styrene	8.632	104	159542	52.35	ug/L		99
65)	Bromoform	8.824	173	26761	47.07	ug/L		99
66)	Isopropylbenzene	9.016	105	276398	53.06	ug/L		99
67)	1,2,3-Trichloropropane	9.389	110	15965	50.44	ug/L	#	68
69)	Bromobenzene	9.341	156	66757	52.96	ug/L		91
70)	1,1,2,2-Tetrachloroethane	9.341	83	53469	50.79	ug/L		98
71)	n-Propylbenzene	9.470	91	323542	53.47	ug/L		96
72)	2-Chlorotoluene	9.555	126	65383	53.50	ug/L		93
73)	4-Chlorotoluene	9.678	126	67075	53.75	ug/L		94
74)	1,3,5-Trimethylbenzene	9.667	105	231387	50.94	ug/L		99
75)	tert-Butylbenzene	10.025	134	51451	52.32	ug/L		98
76)	1,2,4-Trimethylbenzene	10.078	105	234877	50.06	ug/L		100
77)	sec-Butylbenzene	10.270	105	298229	51.22	ug/L		98
78)	p-Isopropyltoluene	10.435	119	254908	51.16	ug/L		99
80)	1,3-Dichlorobenzene	10.387	146	127613	52.21	ug/L		98
81)	1,4-Dichlorobenzene	10.484	146	127539	52.03	ug/L		100
82)	n-Butylbenzene	10.894	91	237533	53.07	ug/L		98
83)	1,2-Dichlorobenzene	10.900	146	112752	52.03	ug/L		99
85)	1,2-Dibromo-3-Chloropr...	11.780	157	10002	49.59	ug/L		93
86)	1,2,4-Trichlorobenzene	12.677	180	84921	53.62	ug/L		99
87)	1,2,3-Trichlorobenzene	13.173	180	75474	52.20	ug/L		99
88)	Hexachlorobutadiene	12.858	225	53838	53.45	ug/L		99
89)	Naphthalene	12.928	128	162266	51.68	ug/L		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File: C:\msdchem\1\DATA\150205\x20323.D
DataAcq Meth:8260RUN.M
Acq On : 5 Feb 2015 11:27 am Operator: Bill Brew
Sample : 50ppb mega CC Inst : Instrument #1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 05 11:42:46 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE



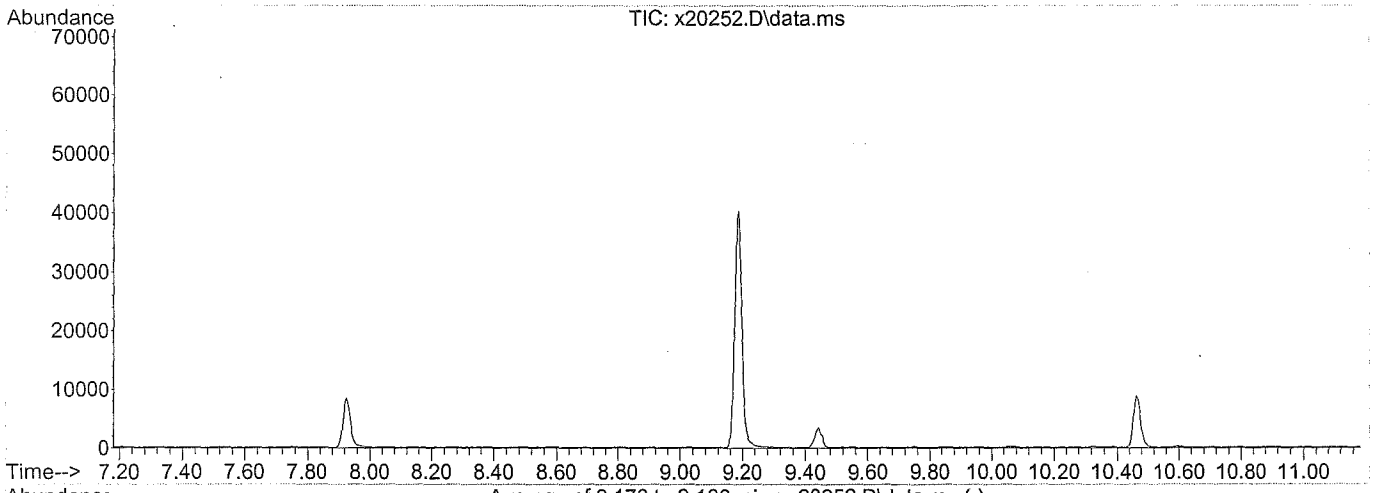
VOLATILE ORGANICS

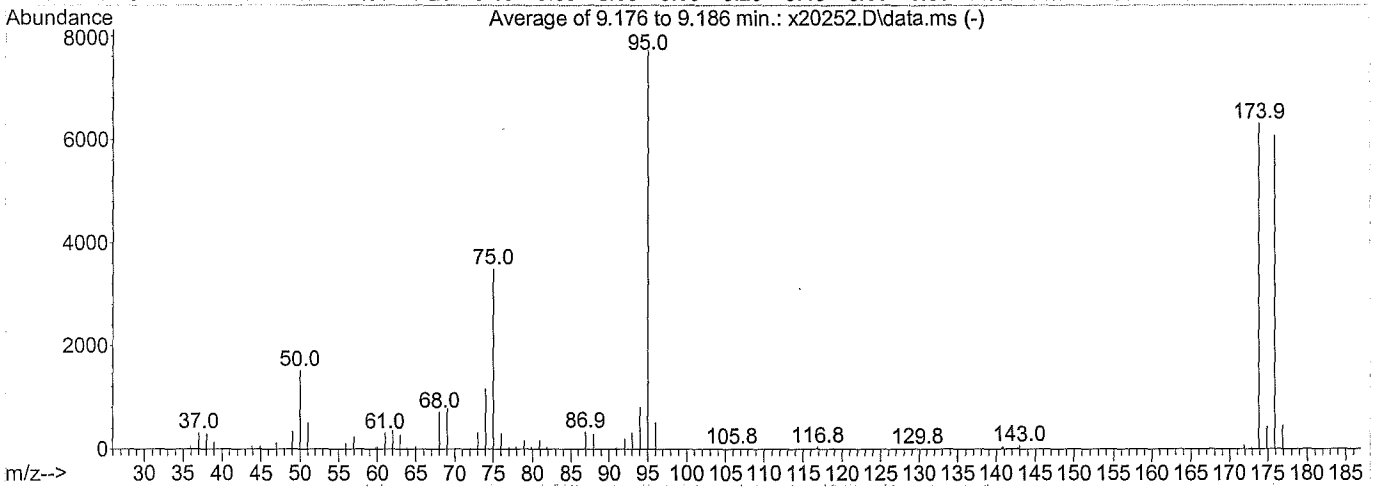
RAW QC DATA

Data Path : C:\msdchem\1\DATA\150202\
Data File : x20252.D
Acq On : 2 Feb 2015 11:23 am
Operator : Bill Brew
Sample : 50ng BFB
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\020215.M
Title : 8260/624 Analysis
Last Update : Tue Feb 03 11:38:56 2015





AutoFind: Scans 1481, 1482, 1483; Background Corrected with Scan 1474

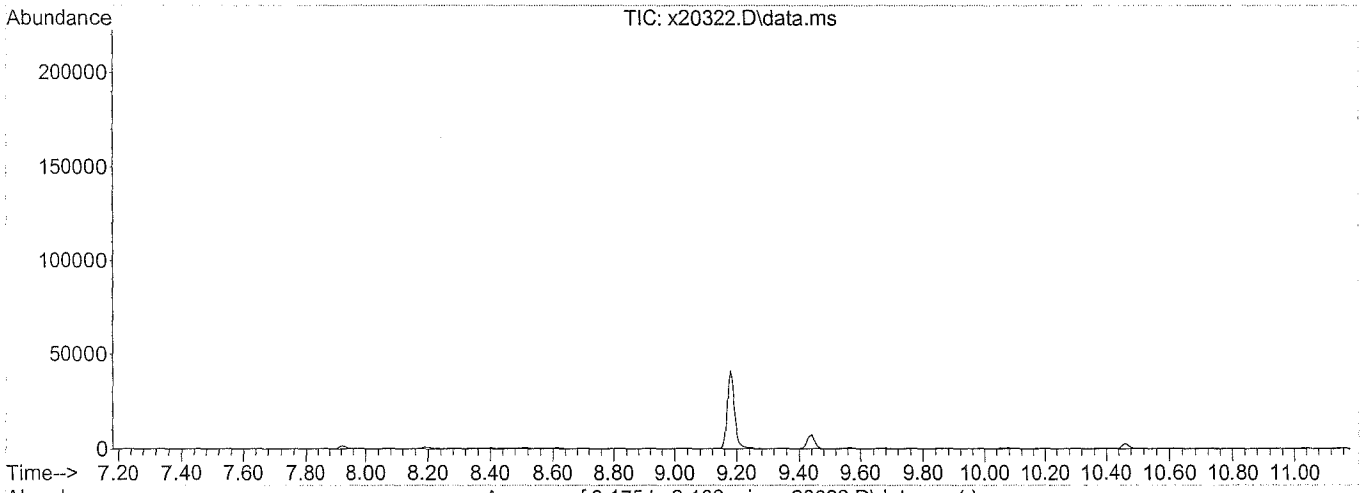
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.6	1514	PASS
75	95	30	60	45.2	3491	PASS
95	95	100	100	100.0	7724	PASS
96	95	5	9	6.5	505	PASS
173	174	0.00	2	0.4	25	PASS
174	95	50	100	81.7	6307	PASS
175	174	5	9	6.8	427	PASS
176	174	95	101	96.2	6068	PASS
177	176	5	9	7.4	449	PASS

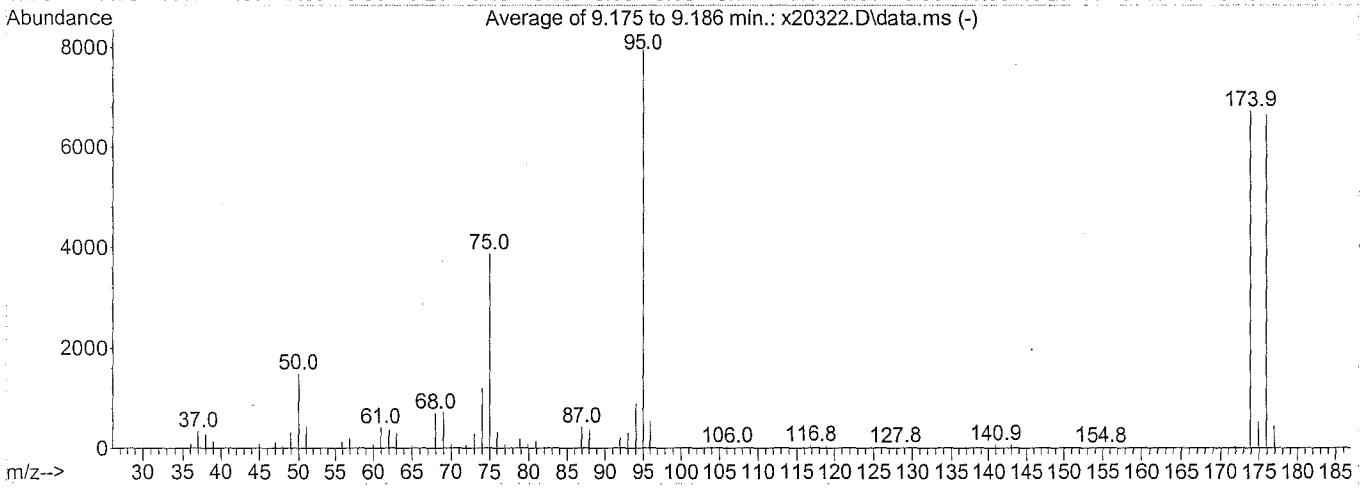
2/3/15
BB

Data Path : C:\msdchem\1\DATA\150205\
Data File : x20322.D
Acq On : 5 Feb 2015 11:04 am
Operator : Bill Brew
Sample : 50ng BFB
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\METHODS\020215.M
Title : 8260/624 Analysis
Last Update : Tue Feb 03 14:33:51 2015





AutoFind: Scans 1481, 1482, 1483; Background Corrected with Scan 1473

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.6	1478	PASS
75	95	30	60	48.6	3866	PASS
95	95	100	100	100.0	7956	PASS
96	95	5	9	6.7	533	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	84.5	6723	PASS
175	174	5	9	7.7	521	PASS
176	174	95	101	98.9	6649	PASS
177	176	5	9	6.5	430	PASS

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Data File: C:\msdchem\1\DATA\150205\x20328.D
DataAcq Meth:8260RUN.M
Acq On : 5 Feb 2015 1:25 pm Operator: Bill Brew
Sample : LCS_5 Inst : Instrument #1
Misc : Water_JVASP08
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 05 13:40:36 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.975	96	152244	50.00	ug/L	0.00
58) Chlorobenzene-d5	7.921	117	106242	50.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	10.456	152	57502	50.00	ug/L	0.00
System Monitoring Compounds						
27) Pentafluorobenzene	4.410	168	49542	30.82	ug/L	0.00
Spiked Amount 30.000	Range 93 - 109		Recovery = 102.73%			
31) 1,2-Dichloroethane-d4	4.671	65	22198	29.29	ug/L	0.00
Spiked Amount 30.000	Range 80 - 116		Recovery = 97.63%			
49) Toluene-D8	6.464	98	85778	29.95	ug/L	0.00
Spiked Amount 30.000	Range 92 - 107		Recovery = 99.83%			
68) 4-Bromofluorobenzene	9.181	95	30527	30.49	ug/L	0.00
Spiked Amount 30.000	Range 87 - 109		Recovery = 101.63%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.373	85	23359	24.54	ug/L	99
3) Chloromethane	1.506	50	28674	22.05	ug/L	98
4) Vinyl chloride	1.586	62	22942	23.36	ug/L	99
5) Bromomethane	1.837	94	13458	25.77	ug/L	99
6) Chloroethane	1.912	64	13244	23.98	ug/L	97
7) Trichlorofluoromethane	2.109	101	28434	21.25	ug/L	99
8) Ethyl ether	2.328	59	12849	20.71	ug/L #	100
9) Freon 113	2.510	101	16927	24.05	ug/L	98
10) 1,1-Dichloroethene	2.515	61	26915	21.22	ug/L	91
11) Acetone	2.547	43	3895	14.16	ug/L	99
13) Carbon disulfide	2.702	76	43895	21.91	ug/L	99
15) Methylene chloride	2.899	84	15705	20.54	ug/L	96
16) Acrylonitrile	3.102	53	4842	17.64	ug/L	99
18) Methyl tert-butyl Ether	3.123	73	36593	18.05	ug/L	99
19) trans-1,2-Dichloroethene	3.123	61	25439	18.80	ug/L	92
20) 1,1-Dichloroethane	3.470	63	41125	20.63	ug/L	98
21) Vinyl acetate	3.508	43	30038	16.60	ug/L	99
22) 2,2-Dichloropropane	3.967	77	27586	20.13	ug/L	98
23) 2-Butanone	3.972	72	1722	17.30	ug/L #	85
24) cis-1,2-Dichloroethene	3.961	96	22695	20.78	ug/L	95
25) Bromochloromethane	4.169	128	9890	19.94	ug/L	97
26) Chloroform	4.233	83	36426	19.97	ug/L	97
28) Tetrahydrofuran	4.217	42	4671	19.32	ug/L	96
29) 1,1,1-Trichloroethane	4.404	97	30163	19.88	ug/L	89
32) Carbon Tetrachloride	4.548	117	25830	20.03	ug/L	98
33) Benzene	4.730	78	83533	21.01	ug/L	99
34) 1,2-Dichloroethane	4.740	62	26048	19.57	ug/L	99
35) Trichloroethene	5.306	130	22159	19.89	ug/L	96
38) 1,4-Dioxane	5.637	88	162	14.33	ug/L #	49
40) 1,2-Dichloropropane	5.514	63	22312	19.64	ug/L #	44
42) Dibromomethane	5.626	93	10426	18.95	ug/L	91
43) Bromodichloromethane	5.770	83	22998	18.29	ug/L	98
44) 2-Chloroethyl vinyl Ether	6.053	63	2023	20.89	ug/L	96
46) 1,1-Dichloropropene	4.543	75	29355	21.29	ug/L	97
47) cis-1,3-Dichloropropene	6.197	75	27561	20.99	ug/L	87

2/5 1313

Data File: C:\msdchem\1\DATA\150205\x20328.D
DataAcq Meth:8260RUN.M
Acq On : 5 Feb 2015 1:25 pm Operator: Bill Brew
Sample : LCS_5 Inst : Instrument #1
Misc : Water_JVASP08
ALS Vial : 8 Sample Multiplier: 1

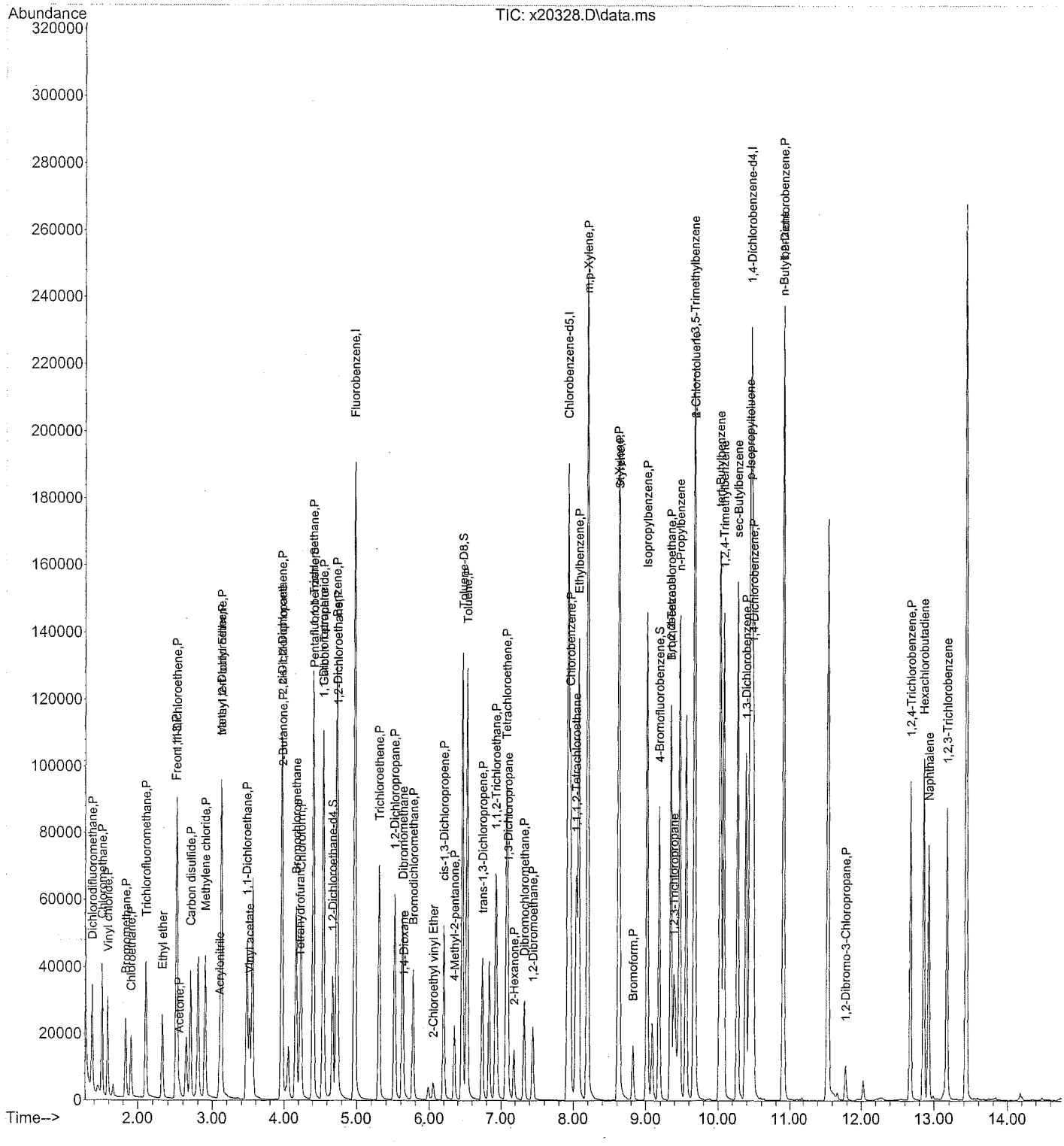
Quant Time: Feb 05 13:40:36 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
48)	4-Methyl-2-pentanone	6.347	58	5743	16.81 ug/L #	47
50)	Toluene	6.528	91	86144	19.74 ug/L	98
51)	trans-1,3-Dichloropropene	6.742	75	22053	18.55 ug/L	87
52)	1,1,2-Trichloroethane	6.923	97	16164	19.89 ug/L	97
53)	1,3-Dichloropropane	7.094	76	26825	18.68 ug/L	99
54)	Tetrachloroethene	7.073	166	25647	19.96 ug/L	98
55)	2-Hexanone	7.179	43	9487	16.45 ug/L	90
56)	Dibromochloromethane	7.323	129	15591	17.38 ug/L	100
57)	1,2-Dibromoethane	7.441	107	15341	17.98 ug/L	99
59)	Chlorobenzene	7.953	112	57518	21.11 ug/L	99
60)	1,1,1,2-Tetrachloroethane	8.033	131	18327	17.91 ug/L	99
61)	Ethylbenzene	8.071	91	97249	19.96 ug/L	99
62)	m,p-Xylene	8.193	106	77488	40.82 ug/L	98
63)	o-Xylene	8.615	106	37401	20.81 ug/L	97
64)	Styrene	8.631	104	61407	21.87 ug/L	98
65)	Bromoform	8.823	173	8243	15.73 ug/L	97
66)	Isopropylbenzene	9.015	105	96180	20.04 ug/L	99
67)	1,2,3-Trichloropropane	9.383	110	5823	19.97 ug/L #	63
69)	Bromobenzene	9.341	156	24175	20.81 ug/L #	90
70)	1,1,2,2-Tetrachloroethane	9.341	83	19139	19.60 ug/L	97
71)	n-Propylbenzene	9.469	91	115545	20.38 ug/L	95
72)	2-Chlorotoluene	9.677	126	25007	22.21 ug/L	92
73)	4-Chlorotoluene	9.677	126	25007	21.75 ug/L #	91
74)	1,3,5-Trimethylbenzene	9.666	105	82095	19.62 ug/L	100
75)	tert-Butylbenzene	10.024	134	18811	20.37 ug/L	94
76)	1,2,4-Trimethylbenzene	10.077	105	84968	19.65 ug/L	100
77)	sec-Butylbenzene	10.269	105	108259	20.18 ug/L	98
78)	p-Isopropyltoluene	10.435	119	88805	19.34 ug/L	99
80)	1,3-Dichlorobenzene	10.387	146	46980	19.88 ug/L	99
81)	1,4-Dichlorobenzene	10.483	146	47359	19.97 ug/L	98
82)	n-Butylbenzene	10.894	91	81730	19.00 ug/L	98
83)	1,2-Dichlorobenzene	10.899	146	43466	20.61 ug/L	98
85)	1,2-Dibromo-3-Chloropr...	11.780	157	2864	15.59 ug/L	94
86)	1,2,4-Trichlorobenzene	12.676	180	29941	19.67 ug/L	99
87)	1,2,3-Trichlorobenzene	13.173	180	27112	19.51 ug/L	99
88)	Hexachlorobutadiene	12.858	225	19740	20.39 ug/L	99
89)	Naphthalene	12.927	128	55851	18.51 ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File: C:\msdchem\1\DATA\150205\x20328.D
DataAcq Meth:8260RUN.M
Acq On : 5 Feb 2015 1:25 pm Operator: Bill Brew
Sample : LCS_5 Inst : Instrument #1
Misc : Water_JVASP08
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 05 13:40:36 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE



Quantitation Report (Not Reviewed)

Data File: C:\msdchem\1\DATA\150205\x20348.D
DataAcq Meth: 8260RUN.M
Acq On : 5 Feb 2015 9:19 pm
Sample : MS_5
Misc : Water 0382-07_JVASP08
ALS Vial : 28 Sample Multiplier: 1

Operator: Bill Brew
Inst : Instrument #1

Quant Time: Feb 06 06:53:02 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.976	96	153173	50.00	ug/L	0.00
58) Chlorobenzene-d5	7.922	117	111839	50.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	10.457	152	62041	50.00	ug/L	0.00
System Monitoring Compounds						
27) Pentafluorobenzene	4.405	168	49588	30.66	ug/L	0.00
Spiked Amount 30.000	Range 93 - 109		Recovery = 102.20%			
31) 1,2-Dichloroethane-d4	4.672	65	24191	31.73	ug/L	0.00
Spiked Amount 30.000	Range 80 - 116		Recovery = 105.77%			
49) Toluene-D8	6.460	98	87971	30.52	ug/L	0.00
Spiked Amount 30.000	Range 92 - 107		Recovery = 101.73%			
68) 4-Bromofluorobenzene	9.176	95	33062	31.37	ug/L	0.00
Spiked Amount 30.000	Range 87 - 109		Recovery = 104.57%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.379	85	58682	61.28	ug/L	99
3) Chloromethane	1.507	50	68629	52.45	ug/L	99
4) Vinyl chloride	1.587	62	56214	56.89	ug/L #	1
5) Bromomethane	1.833	94	17377	33.27	ug/L	98
6) Chloroethane	1.908	64	36714	66.08	ug/L	90
7) Trichlorofluoromethane	2.111	101	72944	54.18	ug/L	99
8) Ethyl ether	2.329	59	33240	53.25	ug/L #	100
9) Freon 113	2.516	101	40201	56.78	ug/L	99
10) 1,1-Dichloroethene	2.516	61	66047	51.76	ug/L	89
11) Acetone	2.553	43	11317	43.31	ug/L	93
12) Isopropyl Alcohol	2.698	45	379	8.99	ug/L #	50
13) Carbon disulfide	2.703	76	114317	56.72	ug/L	99
14) Methyl acetate	2.815	43	11464	24.79	ug/L	95
15) Methylene chloride	2.900	84	37787	49.13	ug/L	93
16) Acrylonitrile	3.098	53	13224	47.89	ug/L	99
18) Methyl tert-butyl Ether	3.124	73	99612	48.85	ug/L	99
19) trans-1,2-Dichloroethene	3.124	61	65451	48.09	ug/L	89
20) 1,1-Dichloroethane	3.471	63	100747	50.23	ug/L	100
21) Vinyl acetate	3.509	43	67071	36.84	ug/L	98
22) 2,2-Dichloropropane	3.962	77	67165	48.73	ug/L	98
23) 2-Butanone	3.973	72	7225	72.15	ug/L #	88
24) cis-1,2-Dichloroethene	3.962	96	57641	52.47	ug/L	91
25) Bromochloromethane	4.171	128	25547	51.21	ug/L	98
26) Chloroform	4.235	83	93311	50.84	ug/L	96
28) Tetrahydrofuran	4.213	42	35181	144.66	ug/L	97
29) 1,1,1-Trichloroethane	4.400	97	77827	50.99	ug/L #	79
32) Carbon Tetrachloride	4.549	117	68002	52.41	ug/L	98
33) Benzene	4.731	78	203380	50.83	ug/L	97
34) 1,2-Dichloroethane	4.742	62	69753	52.10	ug/L	100
35) Trichloroethene	5.307	130	58443	52.13	ug/L	96
36) tert-Butyl Acetate	5.622	57	577	1.12	ug/L #	1
38) 1,4-Dioxane	5.649	88	455	40.01	ug/L #	77
40) 1,2-Dichloropropane	5.515	63	56838	49.74	ug/L #	44
42) Dibromomethane	5.622	93	28227	50.98	ug/L	91
43) Bromodichloromethane	5.766	83	64896	51.31	ug/L	98

2/6/15

ok if ND

-14 = 89 46.7

-2.9 = 96 49.2

Quantitation Report (Not Reviewed)

Data File: C:\msdchem\1\DATA\150205\x20348.D
DataAcq Meth:8260RUN.M
Acq On : 5 Feb 2015 9:19 pm Operator: Bill Brew
Sample : MS_5 Inst : Instrument #1
Misc : Water 0382-07_JVASP08
ALS Vial : 28 Sample Multiplier: 1

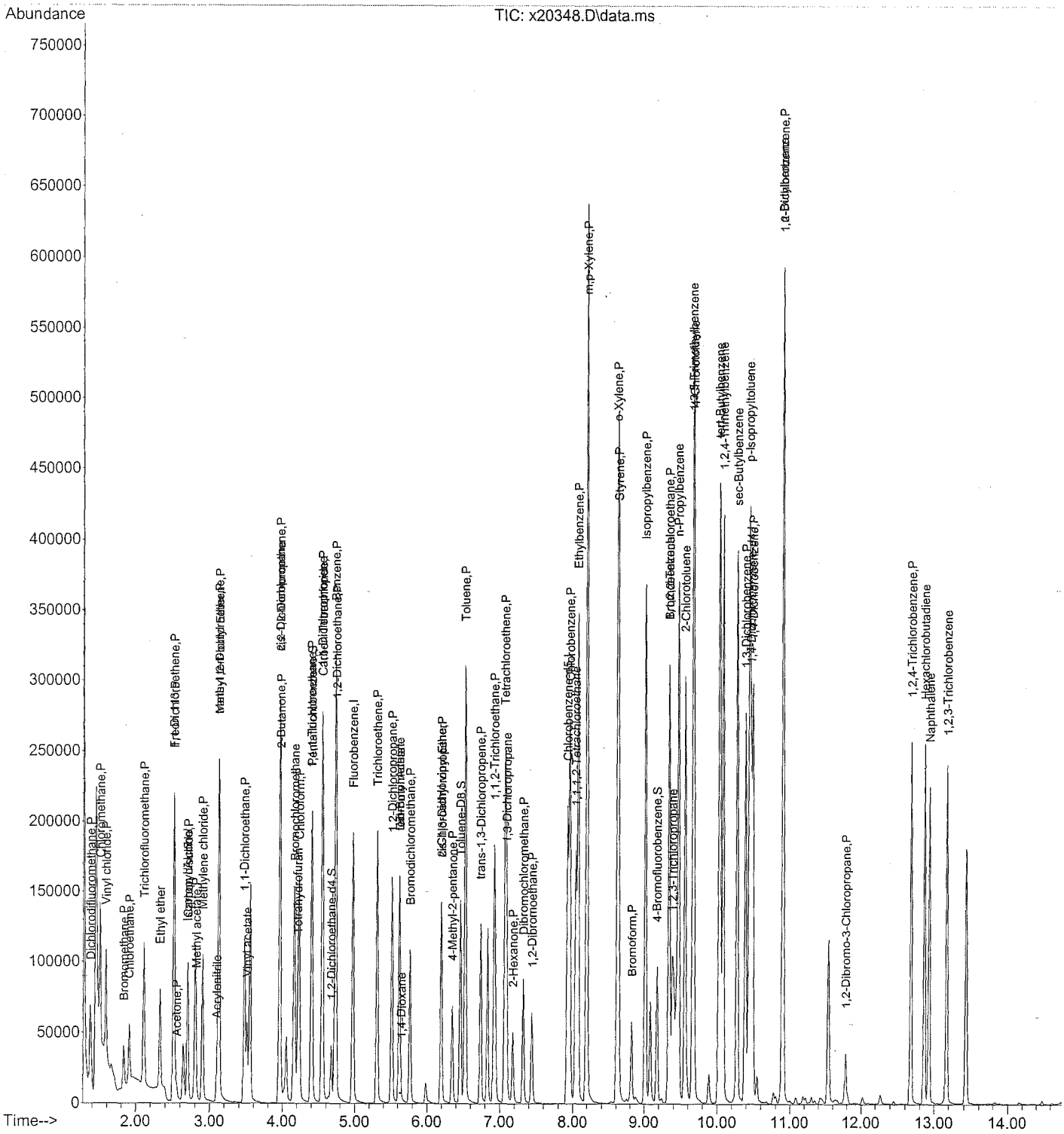
Quant Time: Feb 06 06:53:02 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2-Chloroethyl vinyl Ether	6.199	63	409	4.34	ug/L	#	49
46) 1,1-Dichloropropene	4.544	75	71257	51.37	ug/L		99
47) cis-1,3-Dichloropropene	6.199	75	74379	56.31	ug/L		88
48) 4-Methyl-2-pentanone	6.348	58	17952	52.24	ug/L	#	46
50) Toluene	6.524	91	210948	48.06	ug/L		98
51) trans-1,3-Dichloropropene	6.738	75	62267	52.06	ug/L		89
52) 1,1,2-Trichloroethane	6.924	97	42956	52.69	ug/L		96
53) 1,3-Dichloropropane	7.095	76	71984	49.82	ug/L		100
54) Tetrachloroethene	7.074	166	67267	52.04	ug/L		99
55) 2-Hexanone	7.180	43	29588	50.98	ug/L		90
56) Dibromochloromethane	7.325	129	46264	51.26	ug/L		100
57) 1,2-Dibromoethane	7.442	107	42726	49.76	ug/L		99
59) Chlorobenzene	7.954	112	143491	50.42	ug/L		99
60) 1,1,1,2-Tetrachloroethane	8.034	131	50066	46.49	ug/L		98
61) Ethylbenzene	8.066	91	243564	47.49	ug/L		98
62) m,p-Xylene	8.194	106	187951	94.06	ug/L		100
63) o-Xylene	8.616	106	93098	49.20	ug/L		99
64) Styrene	8.632	104	150727	50.99	ug/L		99
65) Bromoform	8.824	173	26691	48.40	ug/L		99
66) Isopropylbenzene	9.016	105	246763	48.84	ug/L		99
67) 1,2,3-Trichloropropane	9.385	110	15263	49.72	ug/L	#	79
69) Bromobenzene	9.342	156	61333	50.16	ug/L		92
70) 1,1,2,2-Tetrachloroethane	9.342	83	53904	52.81	ug/L		97
71) n-Propylbenzene	9.465	91	290979	49.48	ug/L		96
72) 2-Chlorotoluene	9.555	126	60714	51.21	ug/L		91
73) 4-Chlorotoluene	9.678	126	61311	50.65	ug/L		92
74) 1,3,5-Trimethylbenzene	9.662	105	203493	46.19	ug/L		100
75) tert-Butylbenzene	10.025	134	47683	49.91	ug/L		98
76) 1,2,4-Trimethylbenzene	10.078	105	234446	51.52	ug/L		100
77) sec-Butylbenzene	10.270	105	276662	48.99	ug/L		97
78) p-Isopropyltoluene	10.436	119	226673	46.90	ug/L		99
80) 1,3-Dichlorobenzene	10.383	146	119243	47.00	ug/L		98
81) 1,4-Dichlorobenzene	10.484	146	118957	46.75	ug/L		99
82) n-Butylbenzene	10.895	91	207147	44.63	ug/L		98
83) 1,2-Dichlorobenzene	10.900	146	110990	49.34	ug/L		99
85) 1,2-Dibromo-3-Chloropr...	11.781	157	10020	48.03	ug/L		95
86) 1,2,4-Trichlorobenzene	12.677	180	79635	48.49	ug/L		99
87) 1,2,3-Trichlorobenzene	13.174	180	74693	49.82	ug/L		99
88) Hexachlorobutadiene	12.859	225	49041	46.95	ug/L		98
89) Naphthalene	12.928	128	172664	53.03	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File: C:\msdchem\1\DATA\150205\x20348.D
DataAcq Meth:8260RUN.M
Acq On : 5 Feb 2015 9:19 pm Operator: Bill Brew
Sample : MS_5 Inst : Instrument #1
Misc : Water 0382-07_JVASP08
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Feb 06 06:53:02 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE



Quantitation Report (Not Reviewed)

Data File: C:\msdchem\1\DATA\150205\x20349.D
DataAcq Meth:8260RUN.M
Acq On : 5 Feb 2015 9:43 pm
Sample : MSD_5
Misc : Water 0382-07_JVASP08
ALS Vial : 29 Sample Multiplier: 1

Operator: Bill Brew
Inst : Instrument #1

Quant Time: Feb 06 06:53:06 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.973	96	150187	50.00	ug/L	0.00
58) Chlorobenzene-d5	7.924	117	110407	50.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	10.459	152	60265	50.00	ug/L	0.00
System Monitoring Compounds						
27) Pentafluorobenzene	4.407	168	49172	31.01	ug/L	0.00
Spiked Amount 30.000	Range 93 - 109		Recovery = 103.37%			
31) 1,2-Dichloroethane-d4	4.674	65	22976	30.73	ug/L	0.00
Spiked Amount 30.000	Range 80 - 116		Recovery = 102.43%			
49) Toluene-D8	6.462	98	86160	30.49	ug/L	0.00
Spiked Amount 30.000	Range 92 - 107		Recovery = 101.63%			
68) 4-Bromofluorobenzene	9.178	95	31987	30.74	ug/L	0.00
Spiked Amount 30.000	Range 87 - 109		Recovery = 102.47%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.376	85	58907	62.74	ug/L	100
3) Chloromethane	1.509	50	69858	54.45	ug/L	99
4) Vinyl chloride	1.589	62	57112	58.95	ug/L #	1
5) Bromomethane	1.835	94	17977	35.16	ug/L	97
6) Chloroethane	1.910	64	37788	69.36	ug/L	90
7) Trichlorofluoromethane	2.112	101	74325	56.31	ug/L	100
8) Ethyl ether	2.331	59	35249	57.59	ug/L #	100
9) Freon 113	2.513	101	41274	59.45	ug/L	99
10) 1,1-Dichloroethene	2.518	61	67324	53.81	ug/L	90
11) Acetone	2.555	43	12243	47.93	ug/L	96
12) Isopropyl Alcohol	2.699	45	543	13.13	ug/L #	35
13) Carbon disulfide	2.699	76	118780	60.11	ug/L	100
14) Methyl acetate	2.817	43	8687	19.16	ug/L	97
15) Methylene chloride	2.902	84	39475	52.34	ug/L	94
16) Acrylonitrile	3.100	53	13637	50.36	ug/L	100
18) Methyl tert-butyl Ether	3.126	73	102292	51.16	ug/L	99
19) trans-1,2-Dichloroethene	3.126	61	66033	49.48	ug/L	90
20) 1,1-Dichloroethane	3.473	63	103339	52.54	ug/L	100
21) Vinyl acetate	3.511	43	77272	43.28	ug/L	98
22) 2,2-Dichloropropane	3.964	77	67897	50.24	ug/L	97
23) 2-Butanone	3.975	72	7228	73.62	ug/L #	90
24) cis-1,2-Dichloroethene	3.964	96	59948	55.65	ug/L	91
25) Bromochloromethane	4.167	128	26413	53.99	ug/L	95
26) Chloroform	4.231	83	94468	52.49	ug/L	95
28) Tetrahydrofuran	4.215	42	33208	139.26	ug/L	97
29) 1,1,1-Trichloroethane	4.402	97	80298	53.66	ug/L #	77
32) Carbon Tetrachloride	4.546	117	68430	53.78	ug/L	99
33) Benzene	4.733	78	210121	53.56	ug/L	98
34) 1,2-Dichloroethane	4.743	62	70561	53.75	ug/L	100
35) Trichloroethene	5.309	130	60100	54.67	ug/L	96
36) tert-Butyl Acetate	5.613	57	601	1.19	ug/L #	1
38) 1,4-Dioxane	5.651	88	586	52.55	ug/L #	1
40) 1,2-Dichloropropane	5.517	63	57760	51.55	ug/L #	44
42) Dibromomethane	5.624	93	28749	52.96	ug/L	92
43) Bromodichloromethane	5.768	83	65992	53.21	ug/L	98

2/6/15

OK-ND

-1.4 = 48.1

-2.9 = 51.8

Data File: C:\msdchem\1\DATA\150205\x20349.D
DataAcq Meth:8260RUN.M
Acq On : 5 Feb 2015 9:43 pm Operator: Bill Brew
Sample : MSD_5 Inst : Instrument #1
Misc : Water 0382-07_JVASP08
ALS Vial : 29 Sample Multiplier: 1

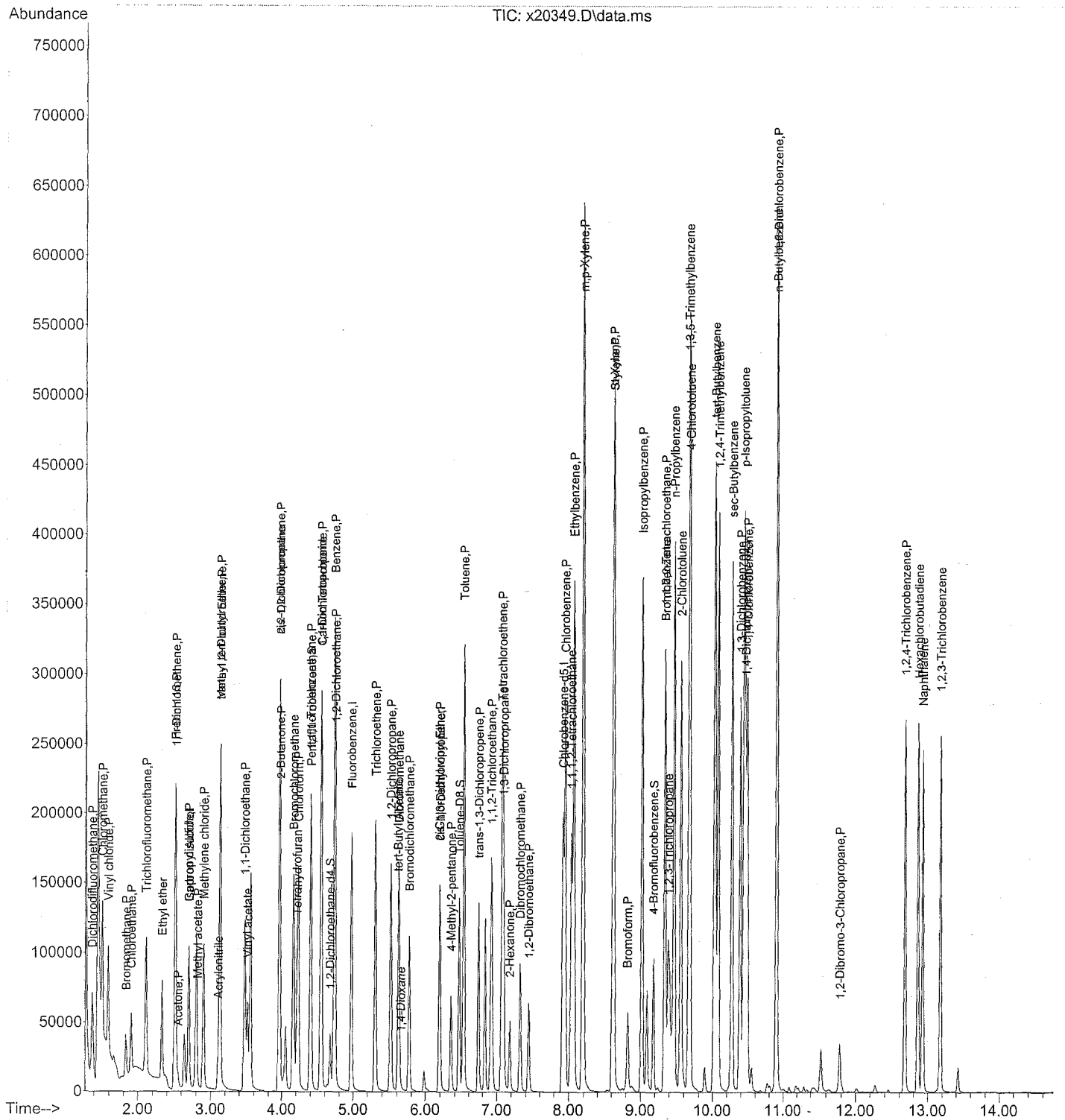
Quant Time: Feb 06 06:53:06 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
44) 2-Chloroethyl vinyl Ether	6.195	63	397	4.30 ug/L #	49
46) 1,1-Dichloropropene	4.546	75	73273	53.87 ug/L	98
47) cis-1,3-Dichloropropene	6.195	75	76387	58.98 ug/L	88
48) 4-Methyl-2-pentanone	6.350	58	18382	54.56 ug/L #	46
50) Toluene	6.526	91	215856	50.15 ug/L	99
51) trans-1,3-Dichloropropene	6.739	75	65293	55.68 ug/L	88
52) 1,1,2-Trichloroethane	6.921	97	43320	54.20 ug/L	97
53) 1,3-Dichloropropane	7.092	76	72881	51.44 ug/L	99
54) Tetrachloroethene	7.070	166	69085	54.51 ug/L -6.7 =	98 47.8
55) 2-Hexanone	7.177	43	31818	55.91 ug/L	90
56) Dibromochloromethane	7.321	129	46945	53.05 ug/L	99
57) 1,2-Dibromoethane	7.438	107	43640	51.84 ug/L	98
59) Chlorobenzene	7.951	112	146484	52.16 ug/L	99
60) 1,1,1,2-Tetrachloroethane	8.036	131	51224	48.18 ug/L	99
61) Ethylbenzene	8.068	91	249957	49.37 ug/L	99
62) m,p-Xylene	8.196	106	192193	97.43 ug/L	98
63) o-Xylene	8.618	106	96384	51.60 ug/L	98
64) Styrene	8.629	104	156283	53.55 ug/L	99
65) Bromoform	8.821	173	28058	51.54 ug/L	99
66) Isopropylbenzene	9.018	105	249909	50.10 ug/L	100
67) 1,2,3-Trichloropropane	9.386	110	16065	53.01 ug/L #	75
69) Bromobenzene	9.344	156	63244	52.39 ug/L	92
70) 1,1,2,2-Tetrachloroethane	9.338	83	55912	55.52 ug/L	98
71) n-Propylbenzene	9.466	91	299750	51.69 ug/L	96
72) 2-Chlorotoluene	9.557	126	61566	52.61 ug/L #	90
73) 4-Chlorotoluene	9.680	126	61452	51.43 ug/L	95
74) 1,3,5-Trimethylbenzene	9.664	105	207033	47.60 ug/L	100
75) tert-Butylbenzene	10.027	134	48612	51.60 ug/L	98
76) 1,2,4-Trimethylbenzene	10.080	105	233363	51.94 ug/L	100
77) sec-Butylbenzene	10.272	105	279791	50.19 ug/L	98
78) p-Isopropyltoluene	10.438	119	227604	47.70 ug/L	99
80) 1,3-Dichlorobenzene	10.384	146	121222	49.21 ug/L	99
81) 1,4-Dichlorobenzene	10.486	146	122533	49.60 ug/L	99
82) n-Butylbenzene	10.897	91	213013	47.25 ug/L	98
83) 1,2-Dichlorobenzene	10.902	146	112348	51.46 ug/L	99
85) 1,2-Dibromo-3-Chloropr...	11.783	157	10485	51.46 ug/L	93
86) 1,2,4-Trichlorobenzene	12.674	180	82179	51.52 ug/L	99
87) 1,2,3-Trichlorobenzene	13.170	180	77507	53.22 ug/L	100
88) Hexachlorobutadiene	12.861	225	50645	49.91 ug/L	98
89) Naphthalene	12.925	128	179291	56.69 ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File: C:\msdchem\1\DATA\150205\x20349.D
DataAcq Meth:8260RUN.M
Acq On : 5 Feb 2015 9:43 pm Operator: Bill Brew
Sample : MSD_5 Inst : Instrument #1
Misc : Water 0382-07_JVASP08
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Feb 06 06:53:06 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE



PARADIGM
ENVIRONMENTAL SERVICES, INC.

Method Blank Report

Client: Stantec
Project Reference: Carriage Factory
Lab Project ID: 150382
SDG #: 0382-01
Matrix: Groundwater

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1,1-Trichloroethane	<2.00	ug/L		2/5/2015	13:48
1,1,2,2-Tetrachloroethane	<2.00	ug/L		2/5/2015	13:48
1,1,2-Trichloroethane	<2.00	ug/L		2/5/2015	13:48
1,1-Dichloroethane	<2.00	ug/L		2/5/2015	13:48
1,1-Dichloroethene	<2.00	ug/L		2/5/2015	13:48
1,2,3-Trichlorobenzene	<5.00	ug/L		2/5/2015	13:48
1,2,4-Trichlorobenzene	<5.00	ug/L		2/5/2015	13:48
1,2-Dibromo-3-Chloropropane	<10.0	ug/L		2/5/2015	13:48
1,2-Dibromoethane	<2.00	ug/L		2/5/2015	13:48
1,2-Dichlorobenzene	<2.00	ug/L		2/5/2015	13:48
1,2-Dichloroethane	<2.00	ug/L		2/5/2015	13:48
1,2-Dichloropropane	<2.00	ug/L		2/5/2015	13:48
1,3-Dichlorobenzene	<2.00	ug/L		2/5/2015	13:48
1,4-Dichlorobenzene	<2.00	ug/L		2/5/2015	13:48
1,4-dioxane	<20.0	ug/L		2/5/2015	13:48
2-Butanone	<10.0	ug/L		2/5/2015	13:48
2-Hexanone	<5.00	ug/L		2/5/2015	13:48
4-Methyl-2-pentanone	<5.00	ug/L		2/5/2015	13:48
Acetone	<10.0	ug/L		2/5/2015	13:48
Benzene	<0.700	ug/L		2/5/2015	13:48
Bromochloromethane	<5.00	ug/L		2/5/2015	13:48
Bromodichloromethane	<2.00	ug/L		2/5/2015	13:48
Bromoform	<5.00	ug/L		2/5/2015	13:48
Bromomethane	<2.00	ug/L		2/5/2015	13:48
Carbon disulfide	<2.00	ug/L		2/5/2015	13:48
Carbon Tetrachloride	<2.00	ug/L		2/5/2015	13:48
Chlorobenzene	<2.00	ug/L		2/5/2015	13:48
Chloroethane	<2.00	ug/L		2/5/2015	13:48

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Report Prepared Tuesday, February 17, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Method Blank Report

Client: Stantec
Project Reference: Carriage Factory
Lab Project ID: 150382
SDG #: 0382-01
Matrix: Groundwater

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
Chloroform	<2.00	ug/L		2/5/2015	13:48
Chloromethane	<2.00	ug/L		2/5/2015	13:48
cis-1,2-Dichloroethene	<2.00	ug/L		2/5/2015	13:48
cis-1,3-Dichloropropene	<2.00	ug/L		2/5/2015	13:48
Cyclohexane	<10.0	ug/L		2/5/2015	13:48
Dibromochloromethane	<2.00	ug/L		2/5/2015	13:48
Dichlorodifluoromethane	<2.00	ug/L		2/5/2015	13:48
Ethylbenzene	<2.00	ug/L		2/5/2015	13:48
Freon 113	<2.00	ug/L		2/5/2015	13:48
Isopropylbenzene	<2.00	ug/L		2/5/2015	13:48
m,p-Xylene	<2.00	ug/L		2/5/2015	13:48
Methyl acetate	<2.00	ug/L		2/5/2015	13:48
Methyl tert-butyl Ether	<2.00	ug/L		2/5/2015	13:48
Methylcyclohexane	<2.00	ug/L		2/5/2015	13:48
Methylene chloride	<5.00	ug/L		2/5/2015	13:48
o-Xylene	<2.00	ug/L		2/5/2015	13:48
Styrene	<5.00	ug/L		2/5/2015	13:48
Tetrachloroethene	<2.00	ug/L		2/5/2015	13:48
Toluene	<2.00	ug/L		2/5/2015	13:48
trans-1,2-Dichloroethene	<2.00	ug/L		2/5/2015	13:48
trans-1,3-Dichloropropene	<2.00	ug/L		2/5/2015	13:48
Trichloroethene	<2.00	ug/L		2/5/2015	13:48
Trichlorofluoromethane	<2.00	ug/L		2/5/2015	13:48
Vinyl chloride	<2.00	ug/L		2/5/2015	13:48

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Report Prepared Tuesday, February 17, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Method Blank Report

Client: Stantec
Project Reference: Carriage Factory
Lab Project ID: 150382
SDG #: 0382-01
Matrix: Groundwater

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
Surrogate	**Percent Recovery**	**Limits**	**Outliers**	**Date Analyzed**	
1,2-Dichloroethane-d4	**98.6**	80.4 - 116		2/5/2015	13:48
4-Bromofluorobenzene	**94.7**	87 - 109		2/5/2015	13:48
Pentafluorobenzene	**99.6**	92.8 - 109		2/5/2015	13:48
Toluene-D8	**95.3**	92.1 - 107		2/5/2015	13:48

Method Reference(s): EPA 8260C
EPA 5030
Data File: x20329.D
QC Batch ID: voaw020515
QC Number: 1

Stantec Quantitation Report (QT Reviewed)

Data File: C:\msdchem\1\DATA\150205\x20329.D
DataAcq Meth:8260RUN.M
Acq On : 5 Feb 2015 1:48 pm Operator: Bill Brew
Sample : Blk_5 Inst : Instrument #1
Misc : Water_JVASP08
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 05 14:04:15 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE

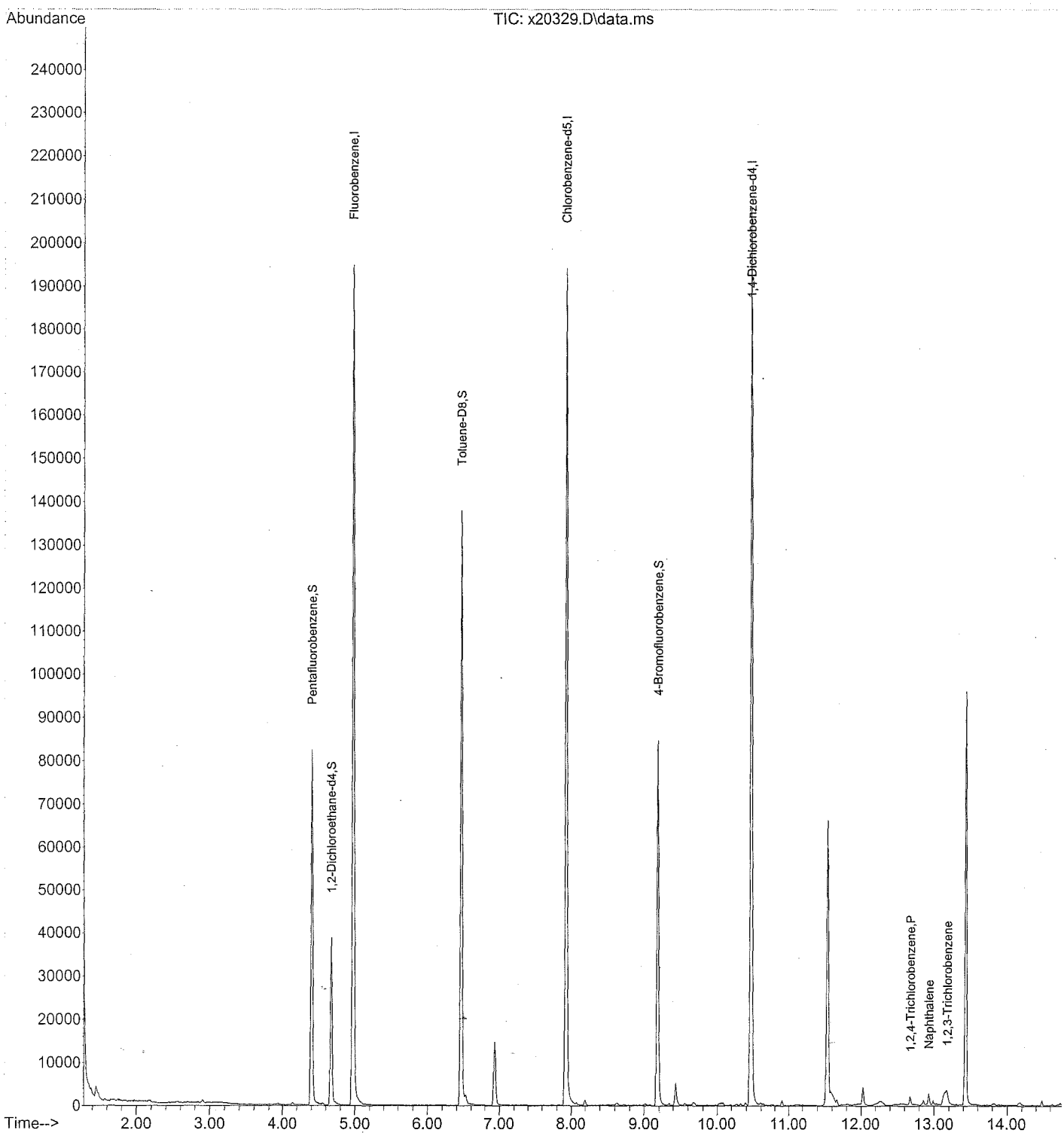
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.977	96	160033	50.00	ug/L	0.00
58) Chlorobenzene-d5	7.923	117	111625	50.00	ug/L	0.00
79) 1,4-Dichlorobenzene-d4	10.458	152	57665	50.00	ug/L	0.00
System Monitoring Compounds						
27) Pentafluorobenzene	4.406	168	50494	29.88	ug/L	0.00
Spiked Amount 30.000	Range 93 - 109		Recovery = 99.60%			
31) 1,2-Dichloroethane-d4	4.673	65	23569	29.59	ug/L	0.00
Spiked Amount 30.000	Range 80 - 116		Recovery = 98.63%			
49) Toluene-D8	6.461	98	86124	28.60	ug/L	0.00
Spiked Amount 30.000	Range 92 - 107		Recovery = 95.33%			
68) 4-Bromofluorobenzene	9.183	95	29901	28.42	ug/L	0.00
Spiked Amount 30.000	Range 87 - 109		Recovery = 94.73%			
Target Compounds						Qvalue
86) 1,2,4-Trichlorobenzene	12.678	180	688	0.45	ug/L	94
87) 1,2,3-Trichlorobenzene	13.175	180	788	0.57	ug/L	93
89) Naphthalene	12.929	128	1986	0.66	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File: C:\msdchem\1\DATA\150205\x20329.D
DataAcq Meth:8260RUN.M
Acq On : 5 Feb 2015 1:48 pm Operator: Bill Brew
Sample : Blk_5 Inst : Instrument #1
Misc : Water_JVASP08
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 05 14:04:15 2015
Quant Method : C:\msdchem\1\METHODS\020215.M
Quant Title : 8260/624 Analysis
QLast Update : Tue Feb 03 14:33:51 2015
Response via : Initial Calibration
Integrator: RTE



GC / MS VOA System 6890 / 5973

Internal Standard: 15294

Date of Intial Calibration: 1/28/15 + 2/2/15

Date	GC Method	Vial #	Data File	Matrix	Sample ID	Volume	Std#	Test	Seq	Intials	A	R	pH	Res Cl	Comments	Intials
1/30/15	8260RUN	9	x20240	soil	LCS	2 l	15307	VSTARS	2	BB						BB
		10	x20241		BLK				3							
		11	x20242		150289-01	1.44 g	G3-2						(1/29@0	13015)		
		12	x20243		" -02	1.79 g	"									
		13	x20244		0322-01	1.48 g	G3									
		14	x20245		0293-01	0.770 g	G1									
		15	x20246		" -02	0.992 g	"									
		16	x20247		" -03	0.438 g	"									
		17	x20248		" -04	0.340 g	"									
		18	x20249		0309-01	0.253 g	G3	VBTEX				X			Re 1	
		19	x20250		water											
2/2/15	8260RUN	1	x20251		50 ug BFB	1 l	15291		1	BB						
		2	x20252		"	"	"		"							BB
		3	x20253		1 ppb mgn Cal	0.1 l	15300	Updated 2/3/15 BB	2							
		4	x20254		5	0.5										
		5	x20255		20	2										
		6	x20256		50	5		020215.M								
		7	x20257		100	10		(new SS limits)								
		8	x20258		150	15										
		9	x20259		200	20										
		10	x20260	water	LCS/SSRef	2 l	15307	VSTARS								
		11	x20261		BLK											
		12	x20262		150323-01	5 ml	Vol	VMisc								

*A = Accept R = Reject

^ pH and Res Cl recorded for 624 Only

GC / MS VOA System 6890 / 5973

Internal Standard: 15294

Date of Intial Calibration: 2/2/15

Date	GC Method	Vial #	Data File	Matrix	Sample ID	Volume	Std#	Test	Seq	Intials	A	R	pH	Res Cl	Comments	Intials
2/4/15	8260KVN	14	x20306		250 ppb GRO	0.5 µl	15379	BTEX 624 CC	3	BB						BB
	↓	15	x20307		500	1		updated 2/5/15 BB	6							
		16	x20308		1000	2										
		17	x20309		2500	5		GRO 2015 A.M								
		18	x20310	BTEX 624 CC	10,000	20										
		19	x20311		25,000	50	↓									
		20	x20312	water	LCS	1 µl	15382	GRO								
		21	x20313	↓	BIK											
		22	x20314	solid	LCS	1 µl	15382									
		23	x20315	↓	BIK											
		24	x20316	water	0158-27	5 ml									VOAGW020415	
		25	x20317	↓	↓ dup	↓										
		26	x20318	solid	0158-12	0.05 g									VOAGS020415	
		27	x20319	↓	↓	↓										
	↓	28	x20320		C5 - C10	1 µl	15383	↓	↓	↓						↓
2/5/15	8260KVN	1	x20321		50 ng BFB	1 µl	15291		1	BB						
		2	x20322		↓	↓	↓		↓							BB
		3	x20323		50 ppb mega CC	5 µl	15300		2							
		4	x20324		1 ppb RL std											
		5	x20325	TCLP	LCS	2 µl	15307	X VOA								
		6	x20326	↓	BIK	0.5 ml		↓								
		7	x20327	↓	150332-01	0.5 ml	VI	↓							Fluid # 3765 (VOAX020515)	
	↓	8	x20328	water	LCS	2 µl	15307	8VASP08	↓	↓						↓

*A = Accept R = Reject

^ pH and Res Cl recorded for 624 Only

GC / MS VOA System 6890 / 5973

Internal Standard: 15294

Date of Intial Calibration: 2/2/15

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Date	GC Method	Vial #	Data File	Matrix	Sample ID	Volume	Std#	Test	Seq	Intials	A	R	pH	Res Cl	Comments	Intials
2/5/15	8260RVN	9	x20329	water	BLK			JVASP08	2	BB						BB
		10	x20330		150384-01	5 ml	V01	V Misc					(VOAW0205 15)			
		11	x20331		0381-01	5 ml	V1	V Halo								
		12	x20332		0367-01	25 µl	↓	↓								
		13	x20333		150382-09	100 µl	V1	JVASP08				X			Re 1 ml	
		14	x20334		-14	5 ml	V									
		15	x20335		-13		V1									
		16	x20336		-12											
		17	x20337		-11											
		18	x20338		-10	↓	↓									
		19	x20339		-09	1 ml	V2									
		20	x20340		-08	5 ml	V1									
		21	x20341		-06											
		22	x20342		-05											
		23	x20343		-04											
		24	x20344		-03											
		25	x20345		-02											
		26	x20346		-01											
		27	x20347		-07											
		28	x20348		-07MS											
		29	x20349		-07MSD											
		30	x20350	water	0389-08	5 ml	V1	V Misc					<2	neg	Toluene	
															(2 new filaments new trap)	
2/9/15			x20351-59		BLK's											

*A = Accept R = Reject

^ pH and Res Cl recorded for 624 Only

METALS DATA

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-1-PI9		
Lab Sample ID:	150382-01	**Date Sampled:**	2/3/2015
Matrix:	Groundwater	**Date Received:**	2/4/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Sodium	85.7	mg/L		2/10/2015 14:10

Method Reference(s):	EPA 6010C
	EPA 3005
Preparation Date:	2/9/2015
Data File:	021015a

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Report Prepared Wednesday, February 18, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-2-PI9		
Lab Sample ID:	150382-02	**Date Sampled:**	2/3/2015
Matrix:	Groundwater	**Date Received:**	2/4/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	< 0.0100	mg/L		2/10/2015 14:15
Iron	**0.498**	mg/L		2/10/2015 14:15
Manganese	**0.0475**	mg/L		2/10/2015 14:15
Sodium	**129**	mg/L		2/10/2015 14:15

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 2/9/2015
Data File: 021015a

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Report Prepared Wednesday, February 18, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-3-PI9		
Lab Sample ID:	150382-03	**Date Sampled:**	2/3/2015
Matrix:	Groundwater	**Date Received:**	2/4/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Sodium	**120**	mg/L		2/10/2015 14:19

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 2/9/2015
Data File: 021015a

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Report Prepared Wednesday, February 18, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-5-PI9		
Lab Sample ID:	150382-04	**Date Sampled:**	2/3/2015
Matrix:	Groundwater	**Date Received:**	2/4/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	< 0.0100	mg/L		2/10/2015 14:23
Iron	**4.76**	mg/L		2/10/2015 14:23
Manganese	**0.0257**	mg/L		2/10/2015 14:23
Sodium	**66.6**	mg/L		2/10/2015 14:23

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 2/9/2015
Data File: 021015a

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Report Prepared Wednesday, February 18, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier:	LI-B102-MW-PI9		
Lab Sample ID:	150382-05	**Date Sampled:**	2/3/2015
Matrix:	Groundwater	**Date Received:**	2/4/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**0.00598**	mg/L	J	2/10/2015 14:27
Iron	**13.9**	mg/L		2/10/2015 14:27
Manganese	**0.844**	mg/L		2/10/2015 14:27
Sodium	**58.0**	mg/L		2/10/2015 14:27

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 2/9/2015
Data File: 021015a

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Report Prepared Wednesday, February 18, 2015

PARADIGM

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier:	LI-B106-MW-PI9		
Lab Sample ID:	150382-06	**Date Sampled:**	2/3/2015
Matrix:	Groundwater	**Date Received:**	2/4/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Sodium	**50.2**	mg/L		2/10/2015 14:32

Method Reference(s):	EPA 6010C
	EPA 3005
Preparation Date:	2/9/2015
Data File:	021015a

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Report Prepared Wednesday, February 18, 2015

PARADIGM

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier:	LI-B108-MW-PI9		
Lab Sample ID:	150382-07	**Date Sampled:**	2/3/2015
Matrix:	Groundwater	**Date Received:**	2/4/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**0.00592**	mg/L	J	2/10/2015 14:36
Iron	**2.66**	mg/L		2/10/2015 14:36
Manganese	**0.0876**	mg/L		2/10/2015 14:36
Sodium	**130**	mg/L		2/10/2015 14:36

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 2/9/2015
Data File: 021015a

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Report Prepared Wednesday, February 18, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-12-PI9		
Lab Sample ID:	150382-08	**Date Sampled:**	2/4/2015
Matrix:	Groundwater	**Date Received:**	2/4/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Sodium	**167**	mg/L		2/10/2015 14:57

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 2/9/2015
Data File: 021015a

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Report Prepared Wednesday, February 18, 2015

PARADIGM

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-6-PI9		
Lab Sample ID:	150382-09	**Date Sampled:**	2/4/2015
Matrix:	Groundwater	**Date Received:**	2/4/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	< 0.0100	mg/L		2/10/2015 15:01
Iron	**1.48**	mg/L		2/10/2015 15:01
Manganese	**0.0347**	mg/L		2/10/2015 15:01
Sodium	**91.7**	mg/L		2/10/2015 15:01

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 2/9/2015
Data File: 021015a

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Report Prepared Wednesday, February 18, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-7-PI9		
Lab Sample ID:	150382-10	**Date Sampled:**	2/4/2015
Matrix:	Groundwater	**Date Received:**	2/4/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Sodium	**67.1**	mg/L		2/10/2015 15:06

Method Reference(s):	EPA 6010C
	EPA 3005
Preparation Date:	2/9/2015
Data File:	021015a

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Report Prepared Wednesday, February 18, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-4-PI9		
Lab Sample ID:	150382-11	**Date Sampled:**	2/4/2015
Matrix:	Groundwater	**Date Received:**	2/4/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Sodium	**110**	mg/L		2/10/2015 15:10

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 2/9/2015
Data File: 021015a

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Report Prepared Wednesday, February 18, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-9-PI9		
Lab Sample ID:	150382-12	**Date Sampled:**	2/4/2015
Matrix:	Groundwater	**Date Received:**	2/4/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	< 0.0100	mg/L		2/10/2015 15:14
Iron	**0.0683**	mg/L	J	2/10/2015 15:14
Manganese	**0.284**	mg/L		2/10/2015 15:14
Sodium	**41.6**	mg/L		2/10/2015 15:14

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 2/9/2015
Data File: 021015a

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Report Prepared Wednesday, February 18, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 150382

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier:	LI-DUP-PI9		
Lab Sample ID:	150382-13	**Date Sampled:**	2/3/2015
Matrix:	Groundwater	**Date Received:**	2/4/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**0.00689**	mg/L	J	2/10/2015 15:19
Iron	**13.6**	mg/L		2/10/2015 15:19
Manganese	**0.838**	mg/L		2/10/2015 15:19
Sodium	**58.9**	mg/L		2/10/2015 15:19

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 2/9/2015
Data File: 021015a

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Report Prepared Wednesday, February 18, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Method Blank Report

Client:	**Stantec**
Project Reference:	Carriage Factory
Lab Project ID:	150382
SDG #:	0382-01
Matrix:	Groundwater

Metals

Analyte	Result	Units	Qualifier	Date Analyzed	
Arsenic	<0.0100	mg/L		2/10/2015	13:59
Iron	<0.100	mg/L		2/10/2015	13:59
Manganese	<0.0150	mg/L		2/10/2015	13:59
Sodium	<2.50	mg/L		2/10/2015	13:59

Method Reference(s):	EPA 6010C
	EPA 3005
Preparation Date:	2/9/2015
Data File:	021015a
QC Batch ID:	QC150209water
QC Number:	1

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Report Prepared Wednesday, February 11, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample and Control Sample Duplicate

Client: Stantec
Project Reference: Carriage Factory
Lab Project ID: 150382
SDG #: 0382-01
Matrix: Groundwater

Metals

Analyte	LCS Added	LCSD Added	Spike Units	LCS Result	LCSD Result	LCS % Recovery	LCSD % Recovery	% Rec Limits	LCS Outliers	LCSD Outliers	Relative % Difference	RPD Limit	RPD Outliers	Date Analyzed
Arsenic	2.50	2.50	mg/L	2.43	2.48	97.2	99.0	85 - 115			1.91	20		2/10/2015
Iron	2.50	2.50	mg/L	2.39	2.41	95.4	96.5	85 - 115			1.18	20		2/10/2015
Manganese	1.00	1.00	mg/L	0.998	1.00	99.8	100	85 - 115			0.518	20		2/10/2015
Sodium	12.0	12.0	mg/L	11.7	12.0	97.3	99.7	85 - 115			2.43	20		2/10/2015

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 2/9/2015
Data File: 021015a
QC Number: 1
QC Batch ID: QC150209water

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Wednesday, February 11, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Sample Spike and Sample Duplicate

SDG #: 0382-01
Client: Stantec
Lab Project ID: 150382
Project Reference: Carriage Factory

Lab Sample ID: 150382-07
Sample Identifier: LI-B108-MW-PI9
Matrix: Groundwater
Date Sampled: 2/3/2015
Date Received: 2/4/2015

Metals

Analyte	Sample Results	Result Units	Spike Added	Spike Result	Spike % Recovery	% Rec Limits	Spike Outliers	Duplicate Result	Relative % Difference	RPD Limit	RPD Outliers	Date Analyzed
Arsenic	**0.00592**	mg/L	2.50	2.55	102	75 - 125		<0.0100	NC	20		2/10/2015
Iron	**2.66**	mg/L	2.50	5.12	98.5	75 - 125		2.64	0.786	20		2/10/2015
Manganese	**0.0876**	mg/L	1.00	1.09	100	75 - 125		0.0861	1.72	20		2/10/2015
Sodium	**130**	mg/L	12.0	141	NC	75 - 125		130	0.257	20		2/10/2015

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 2/9/2015
021015a
QC Batch ID: QC150209water

NC = Not Calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added.

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Wednesday, February 11, 2015

Lab Name: Paradigm Environmental Services

Client: Stantec **Lab Project No.:** 150382

Client Job Site: Carriage Factory **Run Nos.:** 021015a

Client Job No.: N/A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Initial Calibration Verification Source:
ICP: Ultra Scientific
Hg: Ultra Scientific

Continuing Calibration Verification Source:
ICP: Ultra Scientific
Hg: Ultra Scientific

Concentration Units: mg/L

	Initial Calibration Verification			Continuing Calibration Verification					
Analyte	True	Found	%R(1)	True	Found	%R(2)	Found	%R(2)	M
Aluminum									ICP
Antimony									ICP
Arsenic	0.500	0.499	99.8	0.500			0.496	99.2	ICP
Barium									ICP
Beryllium									ICP
Cadmium									ICP
Calcium									ICP
Chromium									ICP
Cobalt									ICP
Copper									ICP
Iron	5.00	4.88	97.5	5.00			4.84	96.8	ICP
Lead									ICP
Magnesium									ICP
Manganese	2.50	2.53	101	2.50			2.53	101	ICP
Mercury									CV
Nickel									ICP
Potassium									ICP
Selenium									ICP
Silver									ICP
Sodium	25.0	24.7	98.6	25.0			25.0	100.0	ICP
Thallium									ICP
Vanadium									ICP
Zinc									ICP

(1) Control Limits: All Metals 90-110
(2) Control Limits: Mercury 80-120; Other Metals: 90-110

FORM IIA-IN

Lab Name: Paradigm Environmental Services

Client: Stantec **Lab Project No.:** 150382

Client Job Site: Carriage Factory **Run Nos.:** 021015a

Client Job No.: N/A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Initial Calibration Verification Source:
ICP: Ultra Scientific
Hg: Ultra Scientific

Continuing Calibration Verification Source:
ICP: Ultra Scientific
Hg: Ultra Scientific

Concentration Units: mg/L

	Initial Calibration Verification			Continuing Calibration Verification					
Analyte	True	Found	%R(1)	True	Found	%R(2)	Found	%R(2)	M
Aluminum									ICP
Antimony									ICP
Arsenic				0.500	0.488	97.6	0.496	99.2	ICP
Barium									ICP
Beryllium									ICP
Cadmium									ICP
Calcium									ICP
Chromium									ICP
Cobalt									ICP
Copper									ICP
Iron				5.00	4.89	97.7	4.93	98.5	ICP
Lead									ICP
Magnesium									ICP
Manganese				2.50	2.54	102	2.54	101	ICP
Mercury									CV
Nickel									ICP
Potassium									ICP
Selenium									ICP
Silver									ICP
Sodium				25.0	24.5	97.9	24.4	97.7	ICP
Thallium									ICP
Vanadium									ICP
Zinc									ICP

(1) Control Limits: All Metals 90-110
(2) Control Limits: Mercury 80-120; Other Metals: 90-110

FORM IIA-IN

Lab Name: Paradigm Environmental Services

Client: Stantec **Lab Project No.:** 150382

Client Job Site: Carriage Factory **Lab Sample Nos.:** Blk 2/9 w

Client Job No.: N/A **Sample Type:** Water

BLANKS

Preparation Blank Matrix (soil/water): Water Run Nos.: 021015a
Concentration Units (mg/L or mg/kg): mg/L

	Initial Calibration Blank		Continuing Calibration Blank						Preparation Blank	
	(mg/L)		(mg/L)						(mg/L)	
Analyte		Q	4	Q	5	Q	6	Q		Q
Aluminum										
Antimony										
Arsenic	<0.010		<0.010		<0.010		<0.010		<0.010	
Barium										
Beryllium										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron	<0.100		<0.100		<0.100		<0.100		<0.100	
Lead										
Magnesium										
Manganese	<0.015		<0.015		<0.015		<0.015		<0.015	
Mercury										
Nickel										
Potassium										
Selenium										
Silver										
Sodium	<2.50		<2.50		<2.50		<2.50		<2.50	
Thallium										
Vanadium										
Zinc										

* - Outside established quality control acceptance limits.

FORM III-IN

Lab Name: Paradigm Environmental Services

Client: Stantec **Lab Project No.:** 150382

Client Job Site: Carriage Factory **Run No.:** 021015a

Client Job No.: N/A

ICP-AES INTERFERENCE CHECK SAMPLE

ICP-AES Instrument ID: ICP Perkin Elmer 7300DV
Concentration Units :mg/L

Analyte	True sol AB	Initial Found sol AB	%R	Q	Final Found sol AB	%R	Q
Aluminum							
Antimony**							
Arsenic	2.50	2.48	99.1		N/A	N/A	
Barium							
Beryllium							
Cadmium							
Calcium							
Chromium							
Cobalt							
Copper							
Iron	100	95.9	95.9		N/A	N/A	
Lead							
Magnesium							
Manganese	0.500	0.471	94.2		N/A	N/A	
Mercury**							
Nickel							
Potassium							
Selenium							
Silver							
Sodium**	<2.50	N/A	N/A		N/A	N/A	
Thallium							
Vanadium							
Zinc							

* - Outside established quality control acceptance limits of 80-120%.

**- Not Spiked.

ICP Summary Sheet

	Wavelength	ICP DL Water	ICP DL Soil	MDL Water	MDL Soil	Linear Range	MDL paint	MDL Air	MDL Wipe
		ppm	mg/kg	ppm	mg/kg	ppm	mg/kg	ppm	ppm
Ag	328	0.01	1	0.0012	0.114	10			
Al	308	0.2	20	0.0264	3.58	500			
As	188	0.01	1	0.0031	0.369	5			
Ba	233	0.1	10	0.0029	0.14	40			
Be	313	0.005	0.5	0.0002	0.0119	1			
Ca	317	2.5	250	0.0953	4.98	500			
Cd	226	0.005	0.5	0.0002	0.0119	10			
Co	228	0.05	5	0.0015	0.064	10			
Cr	267	0.01	1	0.0106	0.139	40			
Cu	324	0.025	2.5	0.0011	0.327	10			
Fe	273	0.1	10	0.0138	4.10	500			
K	766	2.5	250	0.1067	5.25	100			
Mg	279	2.5	250	0.0635	2.19	500			
Mn	257	0.015	1.5	0.0037	0.141	10			
Na	589	2.5	250	0.1111	5.62	250			
Ni	231	0.04	4	0.0012	0.158	50			
Pb Axial	220	0.01	1	0.0019	0.230	50	0.68 (1/17)	0.0412	
Pb Radial	220	0.1	10			50	3.86	0.0369	0.0226
Sb	206	0.06	6	0.0077	0.422	12			
Se	196	0.01	1	0.0068	0.714	2.5			
Tl	190	0.025	2.5	0.0028	0.347	10			
V	292	0.025	2.5	0.0008	0.0299	50			
Zn	213	0.06	6	0.0035	0.302	10			
				1/9/2014	1/22/2014	2/18/2014	1/29/2014	1/17/2014	1/21/2014

IEC File Name: 110414

IEC File Last Saved: 11/4/2014 2:08:03 PM
Printed On: 11/4/2014 2:08:06 PM

Results Data Set Name: 110314br
Method Name: 6010C 4ptLL
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Nov2014.mdb

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Interfering Analytes

	Analytes	Al 308.215	Ca 317.933	Co 228.616	Cr 267.716	Cu 324.752	Fe 273.955
1	Ag 328.068	0.012338	0.013663	0.000000	0.000000	0.000000	-0.323042
2	Ag 338.289	0.000000	0.000000	0.000000	-20.988469	0.000000	0.000000
3	Al 308.215	n/a	0.000000	-12.884024	0.000000	0.000000	0.000000
4	As 188.979	0.000000	-0.030573	0.000000	0.434261	0.000000	-0.096163
6	Be 313.107	0.000000	0.000000	0.000000	-0.174182	0.000000	0.000000
8	Cd 226.502	0.006146	0.007460	0.000000	0.095838	0.000000	0.090769
10	Cr 267.716	0.000000	0.000000	0.000000	n/a	0.000000	-0.010523
11	Cu 324.752	0.000000	0.000000	0.000000	0.000000	n/a	-0.125180
12	Fe 273.955	0.000000	0.000000	0.000000	-1.415083	0.000000	n/a
15	Mn 257.610	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
18	Pb	0.517754	-0.208231	0.000000	0.000000	0.000000	0.000000
19	Pb 220.353	0.355480	-0.018170	-1.891309	-0.123152	0.000000	-0.063516
20	Sb 206.836	-0.305375	0.000000	0.000000	21.177107	0.000000	-0.430829
21	Se 196.026	-0.044264	-0.060458	1.238176	-0.206531	0.000000	0.187739
22	Tl 190.801	0.103196	-0.037365	9.276475	0.470641	0.000000	-0.052211
23	V 292.402	0.000000	0.000000	0.000000	-7.547974	0.000000	0.000000
24	Y 371.029	1.420520	1.664885	101.033836	21.840859	99.431934	1.922922
25	Zn 213.857	0.000000	0.086636	0.000000	0.000000	0.000000	0.084591

IEC File Last Saved: 11/4/2014 2:08:03 PM
Printed On: 11/4/2014 2:08:06 PM

Results Data Set Name: 110314br
Method Name: 6010C 4ptLL
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Nov2014.mdb

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		Interfering Analytes			
	Analytes	Mg 279.077	Mn 257.610	Ni 231.604	V 292.402
1	Ag 328.068	0.000000	0.000000	0.000000	-0.141917
2	Ag 338.289	0.000000	0.000000	0.000000	-1.570592
3	Al 308.215	0.000000	0.000000	0.000000	14.997532
4	As 188.979	0.000000	0.000000	0.000000	0.145771
6	Be 313.107	0.000000	0.000000	0.000000	0.000000
8	Cd 226.502	0.000000	0.000000	0.122497	0.000000
10	Cr 267.716	0.000000	0.000000	0.000000	0.375539
11	Cu 324.752	0.000000	0.000000	0.000000	0.000000
12	Fe 273.955	0.000000	0.000000	0.000000	17.210484
15	Mn 257.610	0.000000	n/a	0.000000	-0.155816
18	Pb	0.000000	0.000000	0.000000	0.000000
19	Pb 220.353	0.013176	0.000000	-0.356040	-0.115803
20	Sb 206.836	0.000000	0.000000	0.000000	0.000000
21	Se 196.026	0.000000	0.000000	0.144321	0.851523
22	Tl 190.801	0.000000	0.000000	0.000000	6.597786
23	V 292.402	0.000000	0.000000	0.000000	n/a
24	Y 371.029	1.586722	98.484130	17.267321	16.828283
25	Zn 213.857	0.000000	0.000000	4.690402	0.000000

Linear Ranges

Element TAL, Pb radial
Inst. ICP
Date 2014

Element	Date	Linear Range (ppm)	Element	Date	Linear Range (ppm)
Ag	2/20	10	Ag	8/28	10
Al	2/18	500	Al	9/2	500
As	2/18	5	As	8/28	5
Ba	2/18	40	Ba	8/28	40
Be	2/18	1	Be	8/28	1
Ca	2/20	500	Ca	9/2	500
Cd	2/18	10	Cd	8/28	10
Co	2/18	10	Co	8/28	10
Cr	2/18	40	Cr	8/28	40
Cu	2/18	10	Cu	8/28	10
Fe	2/18	500	Fe	9/2	500
K	2/18	100	K	9/2	100
Mg	2/18	500	Mg	9/2	500
Mn	2/18	10	Mn	8/28	10
Na	2/18	250	Na	9/2	250
Ni	2/18	50	Ni	8/28	50
Pb	2/18	50	Pb	8/28	50
Sb			Sb	8/28	
Se	2/18	2.5	Se	8/28	2.5
Tl	2/18	10	Tl	8/28	10
V	2/18	50	V	8/28	50
Zn	2/18	10	Zn	8/28	10
Pb radial	2/18	50	Pb radial	8/28	50

Comments: Linear ranges which instrument reads 90% - 110% of the true value.
Antimony not reported above Calibration Range

13-IN

ICP ANALYSIS RUN LOG

Lab Name: Paradigm Environmental
Client: Stantec
Client Job Site: Carriage Factory

Client Job No.: N/A
Instrument ID: ICP PE 7300DV

Lab Project No.: 150382
Method: EPA 6010
Start Date: 02/10/2015
End Date: 02/10/2015

Run No.: 021015a

LAB Sample No.	Date	Time	D/F	Analytes																				
				Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn
Calib Blank 1	2/10/2015	11:28				X								X			X					X			
Low Level Cal1	2/10/2015	11:33				X								X			X					X			
Low Level Cal	2/10/2015	11:37				X								X			X					X			
Mid Level Cal	2/10/2015	11:41				X								X			X					X			
Pb LL	2/10/2015	11:45																							
Pb HL	2/10/2015	11:49																							
High Level Cal	2/10/2015	11:53				X								X			X					X			
IPC	2/10/2015	11:57																							
ICV	2/10/2015	12:01				X								X			X					X			
ICB	2/10/2015	12:05				X								X			X					X			
LLREF	2/10/2015	12:10																							
LLREF Radial Pb	2/10/2015	12:14																							
ICSAB	2/10/2015	12:18				X								X			X					X			
CCV	2/10/2015	12:22																							
CCB	2/10/2015	12:26																							
Blk 2/9 ww	2/10/2015	12:31																							
lcs	2/10/2015	12:35																							
lcs dup	2/10/2015	12:38																							
150389-11	2/10/2015	12:42																							
150389-12	2/10/2015	12:46																							
150392-01	2/10/2015	12:51																							
150400-01	2/10/2015	12:55																							
150402-04	2/10/2015	12:59																							
150408-04	2/10/2015	13:04																							
CCV	2/10/2015	13:08																							
CCB	2/10/2015	13:12																							

13-IN

ICP ANALYSIS RUN LOG

Lab Name: Paradigm Environmental
Client: Stantec
Client Job Site: Carriage Factory
-
Client Job No.: N/A
Instrument ID: ICP PE 7300DV

Lab Project No.: 150382
Method: EPA 6010
Start Date: 02/10/2015
End Date:
Run No.: 021015a

LAB Sample No.	Date	Time	D/F	Analytes																					
				Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn
150412-02	2/10/2015	13:17																							
150414-04	2/10/2015	13:21																							
150415-04	2/10/2015	13:25																							
150415-04 DUP	2/10/2015	13:29																							
150415-04 SPK	2/10/2015	13:33																							
CCV	2/10/2015	13:37																							
CCB	2/10/2015	13:42																							
LLREF	2/10/2015	13:46																							
CCV	2/10/2015	13:50				X								X			X					X			
CCB	2/10/2015	13:55				X								X			X					X			
Blk 2/9 w	2/10/2015	13:59				X								X			X					X			
lcs	2/10/2015	14:03				X								X			X					X			
lcs dup	2/10/2015	14:07				X								X			X					X			
150382-01	2/10/2015	14:10	1																			X			
150382-02	2/10/2015	14:15	1			X								X			X					X			
150382-03	2/10/2015	14:19	1																			X			
150382-04	2/10/2015	14:23	1			X								X			X					X			
150382-05	2/10/2015	14:27	1			X								X			X					X			
150382-06	2/10/2015	14:32	1																			X			
150382-07	2/10/2015	14:36	1			X								X			X					X			
CCV	2/10/2015	14:40				X								X			X					X			
CCB	2/10/2015	14:45				X								X			X					X			
150382-07 DUP	2/10/2015	14:49	1			X								X			X					X			
150382-07 SPK	2/10/2015	14:53	1			X								X			X					X			
150382-08	2/10/2015	14:57	1																			X			
150382-09	2/10/2015	15:01	1			X								X			X					X			
150382-10	2/10/2015	15:06	1																			X			
150382-11	2/10/2015	15:10	1																			X			
150382-12	2/10/2015	15:14	1			X								X			X					X			

13-IN

ICP ANALYSIS RUN LOG

Lab Name: Paradigm Environmental
Client: Stantec
Client Job Site: Carriage Factory
Client Job No.: N/A
Instrument ID: ICP PE 7300DV

Lab Project No.: 150382
Method: EPA 6010
Start Date: 02/10/2015
End Date:
Run No.: 021015a

LAB Sample No.	Date	Time	D/F	Analytes																					
				Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	K	Se	Ag	Na	Tl	V	Zn
150382-13	2/10/2015	15:19	1			X								X			X					X			
CCV	2/10/2015	15:23				X								X			X					X			
CCB	2/10/2015	15:27				X								X			X					X			
LLREF	2/10/2015	15:31																							
CCV	2/10/2015	15:36																							
CCB	2/10/2015	15:40																							

Page: 1 of 2

ICP Analytical Worksheet

Date: 2-10-14 15 2-33-15
RDF / SIF: 0810M9
Analyst: Amm

382 ASP Cat B

Sample ID - Wt/Vol	Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl	V	Zn
Calib Blank 1																						
Low Level Cal1																						
Low Level Cal																						
Mid Level Cal																						
High Level Cal																						
IPC	2.00	9.90	2.00	10.0	0.250	50.7	1.00	2.50	2.00	1.25	4.99	50.7	49.7	3.01	50.8	8.02	1.01	12.0	0.990	1.97	2.52	3.95
ICV	98.2	101	99.8	102	103	104	103	104	98.7	99.4	97.5	100	102	101	98.6	101	99.9	103	101	105	104	105
ICB	<0.01	<0.2	<0.01	<0.1	<0.005	<2.5	<0.005	<0.05	<0.01	<0.025	<0.1	<2.5	<2.5	<0.015	<2.5	<0.04	<0.01	<0.06	<0.01	<0.025	<0.025	<0.06
LLREF	0.0112	0.226	0.00664	0 110	0.00518	2.59	0.00555	0.0558	0.0113	0.0260	0.104	2.59	2.65	0.0151	1.23	0.0449	0.0131	0.0636	0.00886	0.0234	0.0265	0.0657
LLREF Radial Pb	0.000231	0.00164	-0.00196	-0.000239	0.0000495	-0.0119	0.000156	0.000195	-0.000276	-0.000183	0.0183	-0.0985	0.00580	-0.0000890	-1.45	0.0000803	0.108	0.00205	-0.0000528	-0.000452	0.000376	0.00152
ICSAB	0.756	280	2.48	0.738	0.250	269	0.706	0.719	0.710	0.756	95.9	54.1	254	0.471	-1.55	0.705	2.29	0.0342	1.20	2.31	0.765	0.766
CCV	98.3	101	102	102	102	104	103	104	98.6	99.7	99.4	100	102	101	97.6	102	101	104	101	107	103	107
CCB	<0.01	<0.2	<0.01	<0.1	<0.005	<2.5	<0.005	<0.05	<0.01	<0.025	<0.1	<2.5	<2.5	<0.015	<2.5	<0.04	<0.01	<0.06	<0.01	<0.025	<0.025	<0.06
Blk 2/9 ww (50 mL)	<0.01	<0.2	<0.01	<0.1	<0.005	<2.5	<0.005	<0.05	<0.01	<0.025	<0.1	<2.5	<2.5	<0.015	<2.5	<0.04	<0.01	<0.06	<0.01	<0.025	<0.025	<0.06
lcs (50 mL)	0.249	2.67	2.47	2.57	0.496	4.29	1.04	1.14	2.53	2.58	2.49	43.8	8.38	1.01	11.7	5.49	2.58	2.52	2.55	2.55	0.996	2.72
---> %rec	99.6%	107%	98.8%	103%	99.2%	107%	104%	114%	101%	103%	99.6%	110%	105%	101%	97.5%	110%	103%	101%	102%	102%	99.6%	109%
lcs dup (50 mL)	0.242	2.59	2.44	2.51	0.482	4.17	1.01	1.13	2.46	2.50	2.39	42.8	8.06	0.978	11.8	5.31	2.52	2.47	2.51	2.56	0.966	2.65
---> %rec	96.8%	104%	97.6%	100%	96.4%	104%	101%	113%	98.4%	100%	95.6%	107%	101%	97.8%	98.3%	106%	101%	98.8%	100%	102%	96.6%	106%
---> %diff	2.85%	3.04%	1.22%	2.36%	2.86%	2.84%	2.93%	0.881%	2.81%	3.15%	4.10%	2.31%	3.89%	3.22%	0.851%	3.33%	2.35%	2.00%	1.58%	0.391%	3.06%	2.61%
150389-11 (50 mL)	<0.01	<0.2	<0.01	<0.1	<0.005	<2.5	<0.005	<0.05	<0.01	0.0388	0.991	<2.5	<2.5	<0.015	1140	0.0469	<0.01	<0.06	<0.01	<0.025	<0.025	<0.06
150389-12 (50 mL)	<0.01	<0.2	<0.01	<0.1	<0.005	<2.5	<0.005	<0.05	<0.01	<0.025	<0.1	2.61	<2.5	<0.015	1340	<0.04	<0.01	<0.06	<0.01	<0.025	<0.025	<0.06
150392-01 (50 mL)	<0.01	<0.2	<0.01	<0.1	<0.005	45.4	<0.005	<0.05	<0.01	0.0662	<0.1	<2.5	10.9	<0.015	72.5	<0.04	<0.01	<0.06	<0.01	<0.025	<0.025	<0.06
150400-01 (50 mL)	<0.01	1.17	***<0.01***	<0.1	<0.005	421	***<0.005***	<0.05	0.0779	0.0767	0.951	35.6	24.1	0.0761	12300	<0.04	0.0428	<0.06	0.565	***<0.025***	<0.025	0.211
150402-04 (50 mL)	<0.01	0.205	<0.01	<0.1	<0.005	36.2	<0.005	<0.05	<0.01	0.0569	0.160	<2.5	9.03	<0.015	21.5	<0.04	<0.01	<0.06	<0.01	<0.025	<0.025	<0.06
150408-04 (50 mL)	<0.01	1.72	<0.01	<0.1	<0.005	20.2	<0.005	<0.05	0.105	<0.025	<0.1	8.30	4.91	<0.015	305	<0.04	<0.01	<0.06	<0.01	<0.025	<0.025	0.131
CCV	98.4	99.7	99.6	101	102	104	103	105	98.9	99.8	97.3	100	102	101	102	102	100	103	99.9	105	104	104
CCB	<0.01	<0.2	<0.01	<0.1	<0.005	<2.5	<0.005	<0.05	<0.01	<0.025	<0.1	<2.5	<2.5	<0.015	<2.5	<0.04	<0.01	<0.06	<0.01	<0.025	<0.025	<0.06
150412-02 (50 mL)	<0.01	0.952	***<0.01***	<0.1	<0.005	600	***<0.005***	<0.05	0.0666	0.0638	1.12	39.0	12.3	0.0826		<0.04	0.0302	<0.06	0.478	***<0.025***	<0.025	0.210
150414-04 (50 mL)	<0.01	<0.2	<0.01	<0.1	<0.005	25.8	<0.005	<0.05	0.0480	<0.025	7.73	<2.5	6.11	0.119	299	0.0657	0.0149	<0.06	<0.01	<0.025	<0.025	<0.06
150415-04 (50 mL)	<0.01	20.1	<0.01	<0.1	<0.005	34.7	<0.005	<0.05	0.0636	0.0468	0.741	<2.5	8.80	0.0215	59.0	0.118	0.0293	<0.06	<0.01	<0.025	<0.025	0.110
150415-04 dup (50 mL)	<0.01	20.4	<0.01	<0.1	<0.005	34.9	<0.005	<0.05	0.0638	0.0462	0.757	<2.5	8.75	0.0214	58.2	0.119	0.0294	<0.06	<0.01	<0.025	<0.025	0.112
---> %diff	NC	1.48%	NC	NC	NC	0.575%	NC	NC	0.314%	1.29%	2.14%	NC	0.570%	0.466%	1.37%	0.844%	0.341%	NC	NC	NC	NC	1.80%
140415-04 spk (50 mL)	0.122	21.9	1.23	1.27	0.247	37.7	0.495	0.556	1.28	1.29	1.96	23.9	13.1	0.520	64.9	2.73	1.25	1.26	1.20	1.21	0.498	1.42
---> %rec																						
CCV	98.6	99.5	98.0	101	102	102	109	104	98.3	100	96.2	100	101	101	101	101	98.8	102	98.6	106	104	104
CCB	<0 01	<0.2	<0.01	<0.1	<0 005	<2.5	<0.005	<0.05	<0.01	<0.025	<0.1	<2.5	<2.5	<0.015	<2.5	<0.04	<0.01	<0.06	<0.01	<0.025	<0.025	<0.06
LLREF	0.0117	0.189	0.00772	0.111	0.00517	2.55	0.00550	0.0564	0.0116	0.0264	0.0899	2.62	2.65	0.0150	J 1.67	0.0453	0.0137	0.0573	0.0112	0.0283	0.0268	0.0704
CCV	98.6	98.4	99.2	101	102	102	103	104	98.9	99.9	96.8	101	102	101	100.0	102	100.0	103	98.9	105	104	104
CCB	<0.01	<0.2	<0.01	<0.1	<0.005	<2.5	<0.005	<0.05	<0.01	<0.025	<0.1	<2.5	<2.5	<0.015	<2.5	<0.04	<0.01	<0.06	<0.01	<0.025	<0.025	<0.06
Blk 2/9 w (50 mL)	<0.01	<0.2	<0.01	<0.1	<0.005	<2.5	<0.005	<0.05	<0 01	<0.025	<0.1	<2.5	<2.5	<0.015	<2.5	<0.04	<0.01	<0.06	<0.01	<0.025	<0.025	<0.06
lcs (50 mL)	0.247	2.58	2.43	2.54	0.497	4.15	1.04	1.13	2.50	2.54	2.39	43.4	8.25	0.998	11.7	5.43	2.54	2.47	2.52	2.50	0.983	2.63
---> %rec	98.8%	103%	97.2%	102%	99.4%	104%	104%	113%	100%	102%	95.6%	109%	103%	99.8%	97.5%	109%	102%	98.8%	101%	100%	98.3%	105%
lcs dup (50 mL)	0.250	2.64	2.48	2.56	0.500	4.19	1.05	1.15	2.52	2.56	2.41	44.1	8.29	1.00	12.0	5.44	2.57	2.52	2.56	2.60	0.991	2.67
---> %rec	100%	106%	99.2%	102%	100%	105%	105%	115%	101%	102%	96.4%	110%	104%	100%	100%	109%	103%	101%	102%	104%	99.1%	107%
---> %diff	1.21%	2.30%	2.04%	0.784%	0.602%	0.959%	0.957%	1.75%	0.797%	0.784%	0.833%	1.60%	0.484%	0.200%	2.53%	0.184%	1.17%	2.00%	1.57%	3.92%	0.811%	1.51%
150382-01 (50 mL)	<0.01	<0.2	<0.01	<0.1	<0.005	119	<0.005	<0.05	<0.01	<0.025	0.724	12.7	31.7	0.0851	85.7	<0.04	<0.01	<0.06	<0.01	***<0.025***	<0.025	<0.06
150382-02 (50 mL)	<0.01	<0.2	<0.01	<0.1	<0.005	82.5	<0.005	<0.05	<0.01	<0.025	0.498	26.5	38.2	0.0475	129	<0.04	<0.01	<0.06	<0.01	***<0.025***	<0.025	<0.06
150382-03 (50 mL)	<0.01	<0.2	<0.01	0.107	<0.005	88.7	<0.005	<0.05	<0.01	<0.025	4.70	35.2	36.1	0.217	120	<0.04	<0.01	<0.06	***<0.01***	<0.025	<0.025	<0.06
150382-04 (50 mL)	<0.01	<0.2	<0.01	<0.1	<0.005	93.0	<0.005	<0.05	<0.01	<0.025	4.76	6.42	34.6	0.0257	66.6	<0.04	<0.01	<0.06	<0.01	***<0.025***	<0.025	<0.06
150382-05 (50 mL)	<0.01	<0.2	J <0.01	0.154	<0.005	147	<0.005	<0.05	<0.01	<0.025	13.9	11.6	34.3	0.844	58.0	<0.04	<0.01	<0.06	<0.01	***<0.025***	<0.025	<0.06
150382-06 (50 mL)	<0.01	<0.2	<0.01	<0.1	<0.005	125	<0.005	<0.05	<0.01	<0.025	2.75	11.6	31.5	0.123	50.2	<0.04	<0.01	<0.06	<0.01	***<0.025***	<0.025	<0.06
150382-07 (50 mL)	<0.01	<0.2	J <0.01	<0.1	<0.005	107	<0.005	<0.05	<0.01	<0.025	2.66	16.7	29.2	0.0876	130	<0.04	<0.01	<0.06	<0.01	***<0.025***	<0.025	<0.06
CCV	98.6	99.7	97.6	102	102	103	103	105	98.9	99.9	97.7	100	102	102	97.8	102	100	103	101	103	104	105

Reviewed for only metals needed.

This worksheet does not correct for dry weights.

Reviewed by:_____

ICP Analytical Worksheet

Date:_____
RDF / SIF:_____
Analyst:_____

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Sample ID - Wt/Vol	Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl	V	Zn
CCB	<0.01	<0.2	<0.01	<0.1	<0.005	<2.5	<0.005	<0.05	<0.01	<0.025	<0.1	<2.5	<2.5	<0.015	<2.5	<0.04	<0.01	<0.06	<0.01	<0.025	<0.025	<0.06
150382-07 dup (50 mL)	<0.01	<0.2	<0.01	<0.1	<0.005	107	<0.005	<0.05	<0.01	<0.025	2.64	16.8	28.8	0.0861	130	<0.04	<0.01	<0.06	<0.01	***<0.025***	<0.025	<0.06
—> %diff	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	0.75% NC	NC	NC	1.7% NC	0 NC	NC	NC	NC	NC	NC	NC	NC
150382-07 spk (50 mL)	0.250	2.68	2.55	2.59	0.509	112	1.00	1.10	2.52	2.57	5.12	59.5	36.8	1.09	141	5.20	2.47	2.56	2.45	2.41	1.02	2.65
—> %rec			102								98.4			100	91.7							
150382-08 (50 mL)	<0.01	<0.2	<0.01	1.80	<0.005	90.6	<0.005	<0.05	<0.01	<0.025	2.64	12.6	35.1	0.555	167	<0.04	<0.01	<0.06	<0.01	***<0.025***	<0.025	<0.06
150382-09 (50 mL)	<0.01	<0.2	<0.01	0.146	<0.005	101	<0.005	<0.05	<0.01	<0.025	1.48	9.32	31.3	0.0347	91.7	<0.04	<0.01	<0.06	<0.01	***<0.025***	<0.025	<0.06
150382-10 (50 mL)	<0.01	<0.2	<0.01	0.119	<0.005	128	<0.005	<0.05	<0.01	<0.025	1.71	8.02	39.8	0.0623	67.1	<0.04	<0.01	<0.06	<0.01	***<0.025***	<0.025	<0.06
150382-11 (50 mL)	<0.01	<0.2	<0.01	<0.1	<0.005	152	<0.005	<0.05	<0.01	<0.025	7.85	11.4	40.9	1.25	110	<0.04	<0.01	<0.06	<0.01	***<0.025***	<0.025	<0.06
150382-12 (50 mL)	<0.01	<0.2	<0.01	<0.1	<0.005	132	<0.005	<0.05	<0.01	<0.025	J <0.1	10.7	31.8	0.284	41.6	<0.04	<0.01	<0.06	<0.01	***<0.025***	<0.025	<0.06
150382-13 (50 mL)	<0.01	<0.2	J <0.01	0.155	<0.005	150	<0.005	<0.05	<0.01	<0.025	13.6	11.7	34.5	0.838	58.9	<0.04	<0.01	<0.06	<0.01	***<0.025***	<0.025	<0.06
CCV	98.2	99.4	99.2	101	102	104	103	105	99.0	99.6	98.5	100	102	101	97.7	102	100	103	99.7	104	104	106
CCB	<0.01	<0.2	<0.01	<0.1	<0.005	<2.5	<0.005	<0.05	<0.01	<0.025	<0.1	<2.5	<2.5	<0.015	<2.5	<0.04	<0.01	<0.06	<0.01	<0.025	<0.025	<0.06
LLREF	0.0109	0.200	0.00759	0.111	0.00518	2.58	0.00559	0.0559	0.0114	0.0270	0.107	2.57	2.70	0.0154	J 1.02	0.0455	0.00852	0.0637	0.00910	0.0212	0.0267	0.0682
CCV	98.2	98.7	99.4	102	102	103	104	105	99.1	99.6	98.3	99.9	103	102	96.8	102	100	103	99.3	105	104	105
CCB	<0.01	<0.2	<0.01	<0.1	<0.005	<2.5	<0.005	<0.05	<0.01	<0.025	<0.1	<2.5	<2.5	<0.015	<2.5	<0.04	<0.01	<0.06	<0.01	<0.025	<0.025	<0.06

As, Fe, Mn, Ni

Ni

As, Fe, Mn, Ni

Ni

As, Fe, Mn, Ni

Reviewed for only metals needed.

This worksheet does not correct for dry weights.

Reviewed by:_____

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Page: 1 of 1 ICP Analytical Worksheet 200.7

Date: 2-10-14
RDF / SIF: 021014a
Analyst: Amm

Sample ID - Wt/Vol	Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl	V	Zn
Calib Blank 1																						
Low Level Cal1																						
Low Level Cal																						
Mid Level Cal																						
High Level Cal																						
IPC	2.00	9.90	2.00	10.0	0.250	50.7	1.00	2.50	2.00	1.25	4.99	50.7	49.7	3.01	50.8	8.02	1.01	12.0	0.990	1.97	2.52	3.95
ICV	98.2	101	99.8	102	103	104	103	104	98.7	99.4	97.5	100	102	101	98.6	101	99.9	103	101	105	104	105
ICB	<0.005	<0.1	<0.005	<0.05	<0.0025	<1.25	<0.0025	<0.025	<0.005	<0.0125	<0.05	<1.25	<1.25	<0.0075	***<1.25***	<0.02	<0.005	<0.03	<0.005	<0.0125	<0.0125	<0.03
LLREF	0.0112	0.226	0.00664	0.110	0.00518	2.59	0.00555	0.0558	0.0113	0.0260	0.104	2.59	2.65	0.0151	1.23	0.0449	0.0131	0.0636	0.00886	0.0234	0.0265	0.0657
LLREF Radial Pb	0.000231	0.00164	-0.00196	-0.000239	0.0000495	-0.0119	0.000156	0.000195	-0.000276	-0.000183	0.0183	-0.0985	0.00580	-0.0000890	-1.45	0.0000803	0.108	0.00205	-0.0000528	-0.000452	0.000376	0.00152
ICSAB	0.756	280	2.48	0.738	0.250	269	0.706	0.719	0.710	0.756	95.9	54.1	254	0.471	-1.55	0.705	2.29	0.0342	1.20	2.31	0.765	0.766
CCV	98.3	101	102	102	102	104	103	104	98.6	99.7	99.4	100	102	101	97.6	102	101	104	101	107	103	107
CCB	<0.005	<0.1	<0.005	<0.05	<0.0025	<1.25	<0.0025	<0.025	<0.005	<0.0125	<0.05	<1.25	<1.25	<0.0075	***<1.25***	<0.02	<0.005	<0.03	<0.005	<0.0125	<0.0125	<0.03
Blk 2/9 ww (50 mL)	<0.005	<0.1	<0.005	<0.05	<0.0025	<1.25	<0.0025	<0.025	<0.005	<0.0125	<0.05	<1.25	<1.25	<0.0075	<1.25	<0.02	<0.005	<0.03	<0.005	<0.0125	<0.0125	<0.03
lcs (50 mL)	0.249	2.67	2.47	2.57	0.496	4.29	1.04	1.14	2.53	2.58	2.49	43.8	8.38	1.01	11.7	5.49	2.58	2.52	2.55	2.55	0.996	2.72
---> %rec	99.6%	107%	98.8%	103%	99.2%	107%	104%	114%	101%	103%	99.6%	110%	105%	101%	97.5%	110%	103%	101%	102%	102%	99.6%	109%
lcs dup (50 mL)	0.242	2.59	2.44	2.51	0.482	4.17	1.01	1.13	2.46	2.50	2.39	42.8	8.06	0.978	11.8	5.31	2.52	2.47	2.51	2.56	0.966	2.65
---> %rec	96.8%	104%	97.6%	100%	96.4%	104%	101%	113%	98.4%	100%	95.6%	107%	101%	97.8%	98.3%	106%	101%	98.8%	100%	102%	96.6%	106%
---> %diff	2.85%	3.04%	1.22%	2.36%	2.86%	2.84%	2.93%	0.881%	2.81%	3.15%	4.10%	2.31%	3.89%	3.22%	0.851%	3.33%	2.35%	2.00%	1.58%	0.391%	3.06%	2.61%
150389-11 (50 mL)	<0.005	<0.1	<0.005	<0.05	<0.0025	<1.25	<0.0025	<0.025	<0.005	0.0388	0.991	1.92	<1.25	<0.0075	1140	0.0469	<0.005	<0.03	<0.005	<0.0125	<0.0125	<0.03
150389-12 (50 mL)	<0.005	<0.1	<0.005	<0.05	<0.0025	<1.25	<0.0025	<0.025	<0.005	<0.0125	0.0531	2.61	<1.25	<0.0075	1340	0.0260	<0.005	<0.03	<0.005	<0.0125	<0.0125	<0.03
150392-01 (50 mL)	<0.005	<0.1	<0.005	<0.05	<0.0025	45.4	<0.0025	<0.025	<0.005	0.0662	0.0643	1.87	10.9	<0.0075	72.5	<0.02	<0.005	<0.03	***<0.005***	***<0.0125***	<0.0125	<0.03
150400-01 (50 mL)	<0.005	1.17	***<0.005***	0.0894	<0.0025	421	***<0.0025***	<0.025	0.0779	0.0767	0.951	35.6	24.1	0.0761	12300	0.0337	0.0428	0.0328	0.565	***<0.0125***	<0.0125	0.211
150402-04 (50 mL)	<0.005	0.205	<0.005	<0.05	<0.0025	36.2	<0.0025	<0.025	<0.005	0.0569	0.160	2.09	9.03	<0.0075	21.5	<0.02	<0.005	<0.03	***<0.005***	***<0.0125***	<0.0125	0.0522
150408-04 (50 mL)	<0.005	1.72	<0.005	<0.05	<0.0025	20.2	<0.0025	<0.025	0.105	<0.0125	0.0636	8.30	4.91	<0.0075	305	<0.02	<0.005	<0.03	<0.005	<0.0125	<0.0125	0.131
CCV	98.4	99.7	99.6	101	102	104	103	105	98.9	99.8	97.3	100	102	101	102	102	100	103	99.9	105	104	104
CCB	<0.005	<0.1	<0.005	<0.05	<0.0025	<1.25	<0.0025	<0.025	<0.005	<0.0125	<0.05	<1.25	<1.25	<0.0075	<1.25	<0.02	<0.005	<0.03	<0.005	<0.0125	<0.0125	<0.03
150412-02 (50 mL)	<0.005	0.952	***<0.005***	0.0900	<0.0025	600	***<0.0025***	<0.025	0.0666	0.0638	1.12	39.0	12.3	0.0826		<0.02	0.0302	<0.03	0.478	***<0.0125***	<0.0125	0.210
150414-04 (50 mL)	<0.005	<0.1	<0.005	<0.05	<0.0025	25.8	<0.0025	<0.025	0.0480	0.0249	7.73	2.24	6.11	0.119	299	0.0657	0.0149	<0.03	<0.005	<0.0125	<0.0125	0.0373
150415-04 (50 mL)	<0.005	20.1	<0.005	<0.05	<0.0025	34.7	<0.0025	<0.025	0.0636	0.0468	0.741	1.90	8.80	0.0215	59.0	0.118	0.0293	<0.03	***<0.005***	<0.0125	<0.0125	0.110
150415-04 dup (50 mL)	<0.005	20.4	<0.005	<0.05	<0.0025	34.9	<0.0025	<0.025	0.0638	0.0462	0.757	1.85	8.75	0.0214	58.2	0.119	0.0294	<0.03	***<0.005***	<0.0125	<0.0125	0.112
---> %diff	NC	1.48%	NC	NC	NC	0.575%	NC	NC	0.314%	1.29%	2.14%	2.67%	0.570%	0.466%	1.37%	0.844%	0.341%	NC	NC	NC	NC	1.80%
140415-04 spk (50 mL)	0.122	21.9	1.23	1.27	0.247	37.7	0.495	0.556	1.28	1.29	1.96	23.9	13.1	0.520	64.9	2.73	1.25	1.26	1.20	1.21	0.498	1.42
---> %rec	97.6						99.0		97.3	99.5						104	97.7					105
CCV	98.6	99.5	98.0	101	102	102	109	104	98.3	100	96.2	100	101	101	101	101	98.8	102	98.6	106	104	104
CCB	<0.005	<0.1	<0.005	<0.05	<0.0025	<1.25	<0.0025	<0.025	<0.005	<0.0125	<0.05	<1.25	<1.25	<0.0075	<1.25	<0.02	<0.005	<0.03	<0.005	<0.0125	<0.0125	<0.03
LLREF	0.0117	0.189	0.00772	0.111	0.00517	2.55	0.00550	0.0564	0.0116	0.0264	0.0899	2.62	2.65	0.0150	1.67	0.0453	0.0137	0.0573	0.0112	0.0283	0.0268	0.0704
CCV	98.6	98.4	99.2	101	102	102	103	104	98.9	99.9	96.8	101	102	101	100.0	102	100.0	103	98.9	105	104	104
CCB	<0.005	<0.1	<0.005	<0.05	<0.0025	<1.25	<0.0025	<0.025	<0.005	<0.0125	<0.05	<1.25	<1.25	<0.0075	<1.25	<0.02	<0.005	<0.03	<0.005	<0.0125	<0.0125	<0.03

Fe
Cr SPE
Zn SPE

Reviewed for only metals needed.

This worksheet does not correct for dry weights.

Reviewed by:

Analytical Sequence

Method : 6010C 4ptLL

Seq.	Loc.		Sample ID
1	1		Calib Blank 1
2	9		Low Level Cal1
3	2		Low Level Cal
4	3		Mid Level Cal
5	4		Pb LL
6	5		Pb HL
7	6		High Level Cal
8	6		IPC
9	7		ICV
10	1		ICB
11	2		LLREF ↓As ↑Pb
12	4		LLREF Radial Pb
13	8		ICSAB
14	7		CCV
15	1		CCB
16	38		Blk 2/9 ww
17	39		lcs
18	40		lcs dup
19	41		150389-11
20	42		150389-12
21	43		150392-01
22	44		150400-01 ⅓
23	45		150402-04
24	46		150408-04
25	7		CCV
26	1		CCB
27	47		150412-02 ⅓
28	48		150414-04 ↑P+ Pb
29	49		150415-04
30	50		150415-04 dup
31	51		140415-04 spk
32	7		CCV
33	1		CCB
34	2		LLREF ↓Na , ↑Pb
35	7		CCV
36	1		CCB
37	52		Blk 2/9 w
38	53		lcs
39	54		lcs dup
40	55		150382-01
41	56		150382-02
42	57		150382-03
43	58		150382-04
44	59		150382-05
45	60		150382-06
46	61		150382-07
47	7		CCV
48	1		CCB
49	62		150382-07 dup
50	63		150382-07 spk
51	64		150382-08
52	65		150382-09
53	66		150382-10
54	67		150382-11
55	68		150382-12
56	69		150382-13

Analytical Sequence

Method : 6010C 4ptLL

Seq.	Loc.		Sample ID
57	7	QC	CCV
58	1	QC	CCB
59	2	QC	LLREF
60	7	QC	CCV
61	1	QC	CCB
62	70		Sample070

Analysis Begun

Start Time: 2/10/2015 11:28:48 AM
Logged In Analyst: icp3
Spectrometer: Optima 7300 DV, S/N 077C0122002
Plasma On Time: 2/10/2015 8:29:01 AM
Technique: ICP Continuous
Autosampler: S10

Sample Information File: C:\Users\Public\PerkinElmer\ICP\Data\Sample Information\021015a.sif
Batch ID: 021015a
Results Data Set: 021015a
Results Library: C:\Users\Public\PerkinElmer\ICP\Data\Results\Feb2015.mdb

Amm 2-10-15

Method Loaded
Method Name: 6010C 4ptLL
IEC File: 110414.iec
Method Description: 6010C/200.7 TAL Metals
Method Last Saved: 2/4/2015 8:15:04 AM
MSF File:

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Al 308.215	Lin Thru 0	Peak Area	Radial	Y 371.029	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Ba 233.527	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Be 313.107	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	Y 371.029	Yes
Cd 226.502	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Cr 267.716	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Cu 324.752	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Fe 273.955	Lin Thru 0	Peak Area	Radial	Y 371.029	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	Y 371.029	Yes
Mg 279.077	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Mn 257.610	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Na 589.592	Lin Thru 0	Peak Area	Radial	Y 371.029	Yes
Ni 231.604	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Tl 190.801	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	Y 371.029	Yes
Zn 213.857	Lin Thru 0	Peak Area	Radial	Y 371.029	Yes
Pb	Lin Thru 0	Peak Area	Radial	Y 371.029	Ye
Y 371.029	Lin, Calc Int	Peak Area	Axial	n/a	n/
Ag 338.289	Lin Thru 0	Peak Area	Axial	Y 371.029	Ye

Sequence No.: 1
Sample ID: Calib Blank 1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time:
Autosampler Location: 1
Date Collected: 2/10/2015 11:28:49 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	225.0 kPa	0.55 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	1730426.0	6408.48	0.37%	1.000	mg/L
Ag 328.068†	3213.1	0.37	0.01%	[0.00]	mg/L
Al 308.215†	213.5	6.39	2.99%	[0.00]	mg/L
As 188.979†	57.8	4.49	7.78%	[0.00]	mg/L
Ba 233.527†	633.6	15.06	2.38%	[0.00]	mg/L
Be 313.107†	-2672.7	4.40	0.16%	[0.00]	mg/L
Ca 317.933†	432.9	48.09	11.11%	[0.00]	mg/L
Cd 226.502†	-118.2	7.31	6.19%	[0.00]	mg/L
Co 228.616†	-113.2	1.78	1.57%	[0.00]	mg/L

Cr 267.716†	715.4	10.67	1.49%	[0.00]	mg/L
Cu 324.752†	-690.6	84.13	12.18%	[0.00]	mg/L
Fe 273.955†	-16.4	2.93	17.94%	[0.00]	mg/L
K 766.490†	1921.8	50.86	2.65%	[0.00]	mg/L
Mg 279.077†	-420.0	82.69	19.69%	[0.00]	mg/L
Mn 257.610†	2547.3	9.93	0.39%	[0.00]	mg/L
Na 589.592†	18980.7	12.90	0.07%	[0.00]	mg/L
Ni 231.604†	463.0	0.84	0.18%	[0.00]	mg/L
Pb 220.353†	50.1	1.65	3.29%	[0.00]	mg/L
Sb 206.836†	-111.9	5.05	4.51%	[0.00]	mg/L
Se 196.026†	-146.6	8.70	5.93%	[0.00]	mg/L
Tl 190.801†	78.8	16.50	20.94%	[0.00]	mg/L
V 292.402†	373.6	24.35	6.52%	[0.00]	mg/L
Zn 213.857†	-7.8	4.01	51.68%	[0.00]	mg/L
Pb†	-2.6	10.08	383.77%	[0.00]	mg/L
Ag 338.289†	-3144.4	27.75	0.88%	[0.00]	mg/L

Sequence No.: 2
Sample ID: Low Level Cal1
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 75

Autosampler Location: 9
Date Collected: 2/10/2015 11:33:05 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: Low Level Cal1

Analyte	Back Pressure	Flow
All	222.0 kPa	0.55 L/min

Mean Data: Low Level Cal1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	1698569.3	5681.78	0.33%	0.9816	mg/L
Ag 328.068†	1472.2	71.99	4.89%	[0.005]	mg/L
Al 308.215†	64.4	2.89	4.48%	[0.100]	mg/L
As 188.979†	10.0	2.62	26.22%	[0.005]	mg/L
Ba 233.527†	12244.4	59.04	0.48%	[0.050]	mg/L
Be 313.107†	5894.6	23.48	0.40%	[0.0025]	mg/L
Ca 317.933†	6497.2	41.01	0.63%	[1.25]	mg/L
Cd 226.502†	257.9	17.28	6.70%	[0.0025]	mg/L
Co 228.616†	1577.4	11.45	0.73%	[0.025]	mg/L
Cr 267.716†	783.1	18.93	2.42%	[0.005]	mg/L
Cu 324.752†	3604.5	5.49	0.15%	[0.0125]	mg/L
Fe 273.955†	29.1	0.44	1.51%	[0.050]	mg/L
K 766.490†	4072.1	154.97	3.81%	[1.25]	mg/L
Mg 279.077†	32295.8	46.62	0.14%	[1.25]	mg/L
Mn 257.610†	8382.6	105.87	1.26%	[0.0075]	mg/L
Na 589.592†	10050.2	88.41	0.88%	[1.25]	mg/L
Ni 231.604†	1224.4	3.48	0.28%	[0.020]	mg/L
Pb 220.353†	65.6	1.22	1.86%	[0.005]	mg/L
Sb 206.836†	115.6	4.73	4.09%	[0.030]	mg/L
Se 196.026†	13.5	7.26	53.92%	[0.005]	mg/L
Tl 190.801†	16.5	4.32	26.16%	[0.0125]	mg/L
V 292.402†	2398.2	40.20	1.68%	[0.0125]	mg/L
Zn 213.857†	40.9	1.29	3.16%	[0.030]	mg/L
Ag 338.289†	477.1	79.24	16.61%	[0.005]	mg/L

Sequence No.: 3
Sample ID: Low Level Cal
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 75

Autosampler Location: 2
Date Collected: 2/10/2015 11:37:22 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: Low Level Cal

Analyte	Back Pressure	Flow
All	221.0 kPa	0.55 L/min

Mean Data: Low Level Cal

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	1748518.0	2927.96	0.17%	1.010	mg/L
Ag 328.068†	2529.2	326.55	12.91%	[0.010]	mg/L
Al 308.215†	129.0	10.58	8.20%	[0.200]	mg/L
As 188.979†	22.9	1.06	4.60%	[0.010]	mg/L
Ba 233.527†	24406.6	225.98	0.93%	[0.100]	mg/L
Be 313.107†	11919.6	60.29	0.51%	[0.005]	mg/L
Ca 317.933†	12820.9	112.20	0.88%	[2.50]	mg/L
Cd 226.502†	507.6	3.08	0.61%	[0.005]	mg/L
Co 228.616†	3104.1	3.16	0.10%	[0.050]	mg/L
Cr 267.716†	1596.6	44.01	2.76%	[0.010]	mg/L
Cu 324.752†	7320.6	40.67	0.56%	[0.025]	mg/L
Fe 273.955†	53.7	9.32	17.35%	[0.100]	mg/L
K 766.490†	7957.4	147.73	1.86%	[2.50]	mg/L
Mg 279.077†	63924.4	257.12	0.40%	[2.50]	mg/L
Mn 257.610†	16992.2	82.70	0.49%	[0.015]	mg/L
Na 589.592†	17724.7	165.16	0.93%	[2.50]	mg/L
Ni 231.604†	2365.8	3.42	0.14%	[0.040]	mg/L
Pb 220.353†	127.7	9.18	7.19%	[0.010]	mg/L
Sb 206.836†	250.5	6.73	2.69%	[0.060]	mg/L
Se 196.026†	15.5	26.60	172.00%	[0.010]	mg/L
Tl 190.801†	37.9	3.53	9.31%	[0.025]	mg/L
V 292.402†	4851.2	92.54	1.91%	[0.025]	mg/L
Zn 213.857†	81.3	0.19	0.24%	[0.060]	mg/L
Ag 338.289†	1196.5	112.70	9.42%	[0.01]	mg/L

Sequence No.: 4
Sample ID: Mid Level Cal
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 75

Autosampler Location: 3
Date Collected: 2/10/2015 11:41:40 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: Mid Level Cal

Analyte	Back Pressure	Flow
All	220.0 kPa	0.55 L/min

Mean Data: Mid Level Cal

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	1769160.0	279.28	0.02%	1.022	mg/L
Ag 328.068†	12434.0	147.50	1.19%	[0.050]	mg/L
Al 308.215†	629.5	1.90	0.30%	[1.00]	mg/L
As 188.979†	123.2	0.98	0.79%	[0.050]	mg/L
Ba 233.527†	126411.4	376.57	0.30%	[0.500]	mg/L
Be 313.107†	61218.5	46.64	0.08%	[0.025]	mg/L
Ca 317.933†	65382.5	212.93	0.33%	[12.5]	mg/L
Cd 226.502†	2520.7	7.11	0.28%	[0.025]	mg/L
Co 228.616†	14341.7	46.16	0.32%	[0.250]	mg/L
Cr 267.716†	7077.2	17.56	0.25%	[0.050]	mg/L
Cu 324.752†	37175.5	52.94	0.14%	[0.125]	mg/L
Fe 273.955†	272.5	0.86	0.32%	[0.500]	mg/L
K 766.490†	38636.4	4.73	0.01%	[12.5]	mg/L
Mg 279.077†	328677.2	1515.31	0.46%	[12.5]	mg/L
Mn 257.610†	83547.8	288.30	0.35%	[0.075]	mg/L
Na 589.592†	107885.4	277.24	0.26%	[12.5]	mg/L
Ni 231.604†	10413.7	39.69	0.38%	[0.200]	mg/L
Pb 220.353†	557.7	15.89	2.85%	[0.050]	mg/L
Sb 206.836†	1273.5	22.94	1.80%	[0.300]	mg/L
Se 196.026†	142.6	1.40	0.98%	[0.050]	mg/L
Tl 190.801†	164.2	8.92	5.43%	[0.125]	mg/L
V 292.402†	23790.4	267.35	1.12%	[0.125]	mg/L
Zn 213.857†	396.6	1.57	0.40%	[0.300]	mg/L
Ag 338.289†	5752.3	24.66	0.43%	[0.05]	mg/L

Sequence No.: 5
Sample ID: Pb LL
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 75

Autosampler Location: 4
Date Collected: 2/10/2015 11:45:56 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: Pb LL

Analyte	Back Pressure	Flow
All	221.0 kPa	0.55 L/min

Mean Data: Pb LL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	1738027.0	9545.68	0.55%	1.004	mg/L
Pb†	12.6	1.35	10.77%	[0.100]	mg/L

Sequence No.: 6
Sample ID: Pb HL
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 75

Autosampler Location: 5
Date Collected: 2/10/2015 11:49:27 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: Pb HL

Analyte	Back Pressure	Flow
All	220.0 kPa	0.55 L/min

Mean Data: Pb HL

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	1781402.3	495.47	0.03%	1.029	mg/L
Pb†	937.2	3.48	0.37%	[10.0]	mg/L

Sequence No.: 7
Sample ID: High Level Cal
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 75

Autosampler Location: 6
Date Collected: 2/10/2015 11:53:01 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: High Level Cal

Analyte	Back Pressure	Flow
All	220.0 kPa	0.55 L/min

Mean Data: High Level Cal

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	1583918.6	12354.31	0.78%	0.9153	mg/L
Ag 328.068†	481366.8	627.19	0.13%	[2.00]	mg/L
Al 308.215†	5920.0	85.95	1.45%	[10.0]	mg/L
As 188.979†	5185.5	15.65	0.30%	[2.00]	mg/L
Ba 233.527†	2206406.5	3513.17	0.16%	[10.0]	mg/L
Be 313.107†	574369.5	730.52	0.13%	[0.250]	mg/L
Ca 317.933†	245028.5	1345.33	0.55%	[50.0]	mg/L
Cd 226.502†	91464.1	135.83	0.15%	[1.00]	mg/L
Co 228.616†	137858.1	160.51	0.12%	[2.50]	mg/L
Cr 267.716†	275289.7	53.70	0.02%	[2.00]	mg/L
Cu 324.752†	351603.8	756.64	0.22%	[1.25]	mg/L
Fe 273.955†	2747.7	40.43	1.47%	[5.00]	mg/L
K 766.490†	151933.1	921.69	0.61%	[50.0]	mg/L
Mg 279.077†	1188493.0	1886.59	0.16%	[50.0]	mg/L
Mn 257.610†	3368765.5	1735.70	0.05%	[3.00]	mg/L
Na 589.592†	435694.0	3475.86	0.80%	[50.0]	mg/L

Ni 231.604†	416724.2	56.03	0.01%	[8.00] mg/L
Pb 220.353†	11732.8	84.40	0.72%	[1.00] mg/L
Sb 206.836†	49286.0	47.37	0.10%	[12.0] mg/L
Se 196.026†	2895.4	27.14	0.94%	[1.00] mg/L
Tl 190.801†	2781.1	31.47	1.13%	[2.00] mg/L
V 292.402†	455220.6	245.47	0.05%	[2.50] mg/L
Zn 213.857†	4819.0	57.60	1.20%	[4.00] mg/L
Pb†	88.0	0.87	0.99%	[1.00] mg/L
Ag 338.289†	223221.2	298.03	0.13%	[2.00] mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	4	Lin Thru 0	0.0	240700	0.00000	0.999999	
Al 308.215	4	Lin Thru 0	0.0	592.4	0.00000	0.999978	
As 188.979	4	Lin Thru 0	0.0	2593	0.00000	0.999999	
Ba 233.527	4	Lin Thru 0	0.0	220700	0.00000	0.999973	
Be 313.107	4	Lin Thru 0	0.0	2299000	0.00000	0.999978	
Ca 317.933	4	Lin Thru 0	0.0	4921	0.00000	0.999873	
Cd 226.502	4	Lin Thru 0	0.0	91470	0.00000	0.999997	
Co 228.616	4	Lin Thru 0	0.0	55170	0.00000	0.999988	
Cr 267.716	4	Lin Thru 0	0.0	137600	0.00000	0.999999	
Cu 324.752	4	Lin Thru 0	0.0	281400	0.00000	0.999984	
Fe 273.955	4	Lin Thru 0	0.0	549.5	0.00000	0.999999	
K 766.490	4	Lin Thru 0	0.0	3042	0.00000	0.999988	
Mg 279.077	4	Lin Thru 0	0.0	23920	0.00000	0.999685	
Mn 257.610	4	Lin Thru 0	0.0	1123000	0.00000	1.000000	
Na 589.592	4	Lin Thru 0	0.0	8705	0.00000	0.999955	
Ni 231.604	4	Lin Thru 0	0.0	52090	0.00000	1.000000	
Pb 220.353	4	Lin Thru 0	0.0	11730	0.00000	0.999996	
Sb 206.836	4	Lin Thru 0	0.0	4107	0.00000	1.000000	
Se 196.026	4	Lin Thru 0	0.0	2895	0.00000	0.999989	
Tl 190.801	4	Lin Thru 0	0.0	1390	0.00000	0.999993	
V 292.402	4	Lin Thru 0	0.0	182100	0.00000	0.999997	
Zn 213.857	4	Lin Thru 0	0.0	1205	0.00000	0.999971	
Pb	3	Lin Thru 0	0.0	93.67	0.00000	0.999976	
Ag 338.289	4	Lin Thru 0	0.0	111600	0.00000	1.000000	

Sequence No.: 8
Sample ID: IPC
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 75

Autosampler Location: 6
Date Collected: 2/10/2015 11:57:19 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: IPC

Analyte	Back Pressure	Flow
All	220.0 kPa	0.55 L/min

Mean Data: IPC

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	1584759.3	0.9158	mg/L	0.00154				0.17%
Ag 328.068†	481931.8	2.003	mg/L	0.0026	2.003	mg/L	0.0026	0.13%
QC value within limits for Ag 328.068 Recovery = 100.17%								
Al 308.215†	5866.5	9.898	mg/L	0.1306	9.898	mg/L	0.1306	1.32%
QC value within limits for Al 308.215 Recovery = 98.98%								
As 188.979†	5177.0	1.998	mg/L	0.0055	1.998	mg/L	0.0055	0.27%
QC value within limits for As 188.979 Recovery = 99.88%								
Ba 233.527†	2212791.8	10.03	mg/L	0.005	10.03	mg/L	0.005	0.05%
QC value within limits for Ba 233.527 Recovery = 100.25%								
Be 313.107†	574782.8	0.2504	mg/L	0.00001	0.2504	mg/L	0.00001	0.00%
QC value within limits for Be 313.107 Recovery = 100.14%								
Ca 317.933†	249621.9	50.73	mg/L	0.541	50.73	mg/L	0.541	1.07%
QC value within limits for Ca 317.933 Recovery = 101.46%								
Cd 226.502†	91805.6	1.002	mg/L	0.0038	1.002	mg/L	0.0038	0.38%
QC value within limits for Cd 226.502 Recovery = 100.16%								
Co 228.616†	138054.0	2.502	mg/L	0.0002	2.502	mg/L	0.0002	0.01%

	QC value within limits for Co 228.616 Recovery = 100.10%					
Cr 267.716†	275225.6	1.999 mg/L	0.0001	1.999 mg/L	0.0001	0.01%
	QC value within limits for Cr 267.716 Recovery = 99.93%					
Cu 324.752†	351699.7	1.250 mg/L	0.0006	1.250 mg/L	0.0006	0.04%
	QC value within limits for Cu 324.752 Recovery = 100.02%					
Fe 273.955†	2764.9	4.991 mg/L	0.0017	4.991 mg/L	0.0017	0.03%
	QC value within limits for Fe 273.955 Recovery = 99.83%					
K 766.490†	154218.6	50.69 mg/L	0.425	50.69 mg/L	0.425	0.84%
	QC value within limits for K 766.490 Recovery = 101.39%					
Mg 279.077†	1190055.3	49.74 mg/L	0.001	49.74 mg/L	0.001	0.00%
	QC value within limits for Mg 279.077 Recovery = 99.49%					
Mn 257.610†	3376403.5	3.007 mg/L	0.0020	3.007 mg/L	0.0020	0.07%
	QC value within limits for Mn 257.610 Recovery = 100.24%					
Na 589.592†	441781.1	50.75 mg/L	0.407	50.75 mg/L	0.407	0.80%
	QC value within limits for Na 589.592 Recovery = 101.50%					
Ni 231.604†	417698.9	8.019 mg/L	0.0109	8.019 mg/L	0.0109	0.14%
	QC value within limits for Ni 231.604 Recovery = 100.23%					
Pb 220.353†	11740.6	1.006 mg/L	0.0054	1.006 mg/L	0.0054	0.54%
	QC value within limits for Pb 220.353 Recovery = 100.60%					
Sb 206.836†	49560.0	12.03 mg/L	0.004	12.03 mg/L	0.004	0.04%
	QC value within limits for Sb 206.836 Recovery = 100.24%					
Se 196.026†	2876.2	0.9900 mg/L	0.00499	0.9900 mg/L	0.00499	0.50%
	QC value within limits for Se 196.026 Recovery = 99.00%					
Tl 190.801†	2799.5	1.974 mg/L	0.0190	1.974 mg/L	0.0190	0.96%
	QC value within limits for Tl 190.801 Recovery = 98.71%					
V 292.402†	455899.6	2.519 mg/L	0.0011	2.519 mg/L	0.0011	0.04%
	QC value within limits for V 292.402 Recovery = 100.74%					
Zn 213.857†	4815.5	3.952 mg/L	0.1072	3.952 mg/L	0.1072	2.71%
	QC value within limits for Zn 213.857 Recovery = 98.81%					
Pb†	88.8	0.9531 mg/L	0.08663	0.9531 mg/L	0.08663	9.09%
	QC value within limits for Pb Recovery = 95.31%					
Ag 338.289†	223341.4	2.047 mg/L	0.0014	2.047 mg/L	0.0014	0.07%

All analyte(s) passed QC.

Sequence No.: 9 **Autosampler Location: 7**
Sample ID: ICV **Date Collected: 2/10/2015 12:01:37 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 75 **Auto Dilution Factor: 1**

Nebulizer Parameters: ICV

Analyte	Back Pressure	Flow
All	220.0 kPa	0.55 L/min

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	1631282.6	0.9427 mg/L	0.00061			0.06%
Ag 328.068†	295069.9	1.227 mg/L	0.0006	1.227 mg/L	0.0006	0.05%
	QC value within limits for Ag 328.068 Recovery = 98.19%					
Al 308.215†	5959.5	10.05 mg/L	0.168	10.05 mg/L	0.168	1.67%
	QC value within limits for Al 308.215 Recovery = 100.55%					
As 188.979†	1292.7	0.4991 mg/L	0.00671	0.4991 mg/L	0.00671	1.34%
	QC value within limits for As 188.979 Recovery = 99.81%					
Ba 233.527†	2240544.2	10.15 mg/L	0.009	10.15 mg/L	0.009	0.09%
	QC value within limits for Ba 233.527 Recovery = 101.51%					
Be 313.107†	589178.4	0.2564 mg/L	0.00062	0.2564 mg/L	0.00062	0.24%
	QC value within limits for Be 313.107 Recovery = 102.58%					
Ca 317.933†	127679.6	25.95 mg/L	0.011	25.95 mg/L	0.011	0.04%
	QC value within limits for Ca 317.933 Recovery = 103.79%					
Cd 226.502†	23696.6	0.2580 mg/L	0.00005	0.2580 mg/L	0.00005	0.02%
	QC value within limits for Cd 226.502 Recovery = 103.18%					
Co 228.616†	143730.2	2.605 mg/L	0.0009	2.605 mg/L	0.0009	0.03%
	QC value within limits for Co 228.616 Recovery = 104.21%					
Cr 267.716†	135917.3	0.9865 mg/L	0.00111	0.9865 mg/L	0.00111	0.11%
	QC value within limits for Cr 267.716 Recovery = 98.65%					
Cu 324.752†	349548.2	1.243 mg/L	0.0010	1.243 mg/L	0.0010	0.08%
	QC value within limits for Cu 324.752 Recovery = 99.41%					

Fe 273.955†	2702.9	4.876 mg/L	0.0238	4.876 mg/L	0.0238	0.49%
QC value within limits for Fe 273.955 Recovery = 97.51%						
K 766.490†	76093.8	25.01 mg/L	0.026	25.01 mg/L	0.026	0.10%
QC value within limits for K 766.490 Recovery = 100.05%						
Mg 279.077†	607410.2	25.39 mg/L	0.005	25.39 mg/L	0.005	0.02%
QC value within limits for Mg 279.077 Recovery = 101.56%						
Mn 257.610†	2841045.6	2.530 mg/L	0.0023	2.530 mg/L	0.0023	0.09%
QC value within limits for Mn 257.610 Recovery = 101.22%						
Na 589.592†	214669.2	24.66 mg/L	0.002	24.66 mg/L	0.002	0.01%
QC value within limits for Na 589.592 Recovery = 98.64%						
Ni 231.604†	132107.4	2.536 mg/L	0.0002	2.536 mg/L	0.0002	0.01%
QC value within limits for Ni 231.604 Recovery = 101.44%						
Pb 220.353†	5825.2	0.4997 mg/L	0.00450	0.4997 mg/L	0.00450	0.90%
QC value within limits for Pb 220.353 Recovery = 99.93%						
Sb 206.836†	21220.9	5.151 mg/L	0.0218	5.151 mg/L	0.0218	0.42%
QC value within limits for Sb 206.836 Recovery = 103.02%						
Se 196.026†	1473.9	0.5046 mg/L	0.00679	0.5046 mg/L	0.00679	1.35%
QC value within limits for Se 196.026 Recovery = 100.92%						
Tl 190.801†	787.2	0.5248 mg/L	0.00017	0.5248 mg/L	0.00017	0.03%
QC value within limits for Tl 190.801 Recovery = 104.95%						
V 292.402†	470201.0	2.589 mg/L	0.0046	2.589 mg/L	0.0046	0.1%
QC value within limits for V 292.402 Recovery = 103.58%						
Zn 213.857†	3182.8	2.626 mg/L	0.0111	2.626 mg/L	0.0111	0.42%
QC value within limits for Zn 213.857 Recovery = 105.03%						
Pb†	46.6	0.4974 mg/L	0.00238	0.4974 mg/L	0.00238	0.48%
QC value within limits for Pb Recovery = 99.47%						
Ag 338.289†	137047.9	1.253 mg/L	0.0019	1.253 mg/L	0.0019	0.15%

All analyte(s) passed QC.

Sequence No.: 10
Sample ID: ICB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 75

Autosampler Location: 1
Date Collected: 2/10/2015 12:05:54 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ICB

Analyte	Back Pressure	Flow
All	220.0 kPa	0.55 L/min

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	1675384.9	0.9682	mg/L	0.00860				0.89%
Ag 328.068†	340.9	0.0014	mg/L	0.00038	0.0014	mg/L	0.00038	26.90%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	16.2	0.0273	mg/L	0.01105	0.0273	mg/L	0.01105	40.4%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	-1.0	-0.0004	mg/L	0.00478	-0.0004	mg/L	0.00478	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	81.1	0.0004	mg/L	0.00008	0.0004	mg/L	0.00008	22.37%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	38.3	0.0000	mg/L	0.00003	0.0000	mg/L	0.00003	199.81%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	-12.2	-0.0025	mg/L	0.00638	-0.0025	mg/L	0.00638	257.52%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 226.502†	9.5	0.0001	mg/L	0.00011	0.0001	mg/L	0.00011	102.06%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	2.9	0.0001	mg/L	0.00007	0.0001	mg/L	0.00007	134.39%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	11.4	0.0001	mg/L	0.00013	0.0001	mg/L	0.00013	160.48%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	126.9	0.0005	mg/L	0.00046	0.0005	mg/L	0.00046	101.85%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 273.955†	1.8	0.0033	mg/L	0.00780	0.0033	mg/L	0.00780	234.93%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490†	-13.7	-0.0045	mg/L	0.01757	-0.0045	mg/L	0.01757	390.34%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 279.077†	100.9	0.0042	mg/L	0.00154	0.0042	mg/L	0.00154	36.49%

QC value within limits for Mg 279.077 Recovery = Not calculated

Mn 257.610†	122.6	0.0001 mg/L	0.00005	0.0001 mg/L	0.00005	48.21%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Na 589.592†	-12464.2	-1.432 mg/L	0.0059	-1.432 mg/L	0.0059	0.41%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	33.2	0.0006 mg/L	0.00010	0.0006 mg/L	0.00010	16.01%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	4.8	0.0004 mg/L	0.00101	0.0004 mg/L	0.00101	252.70%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	59.4	0.0145 mg/L	0.00361	0.0145 mg/L	0.00361	24.92%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-3.4	-0.0012 mg/L	0.00335	-0.0012 mg/L	0.00335	288.22%
QC value within limits for Se 196.026 Recovery = Not calculated						
Tl 190.801†	0.2	0.0002 mg/L	0.00247	0.0002 mg/L	0.00247	>999.9%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	27.4	0.0002 mg/L	0.00006	0.0002 mg/L	0.00006	42.36%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	0.8	0.0007 mg/L	0.00122	0.0007 mg/L	0.00122	180.51%
QC value within limits for Zn 213.857 Recovery = Not calculated						
Pb†	-0.2	-0.0026 mg/L	0.00175	-0.0026 mg/L	0.00175	67.07%
QC value within limits for Pb Recovery = Not calculated						
Ag 338.289†	34.7	0.0003 mg/L	0.00086	0.0003 mg/L	0.00086	276.07%

All analyte(s) passed QC.

Sequence No.: 11 **Autosampler Location: 2**
Sample ID: LLREF **Date Collected: 2/10/2015 12:10:10 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 75 **Auto Dilution Factor: 1**

Nebulizer Parameters: LLREF

Analyte	Back Pressure	Flow
All	220.0 kPa	0.55 L/min

Mean Data: LLREF

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	1729762.0	0.9996	mg/L	0.00102				0.10%
Ag 328.068†	2702.7	0.0112	mg/L	0.00054	0.0112	mg/L	0.00054	4.84%
QC value within limits for Ag 328.068 Recovery = 112.29%								
Al 308.215†	133.4	0.2255	mg/L	0.01205	0.2255	mg/L	0.01205	5.34%
QC value within limits for Al 308.215 Recovery = 112.76%								
As 188.979†	17.0	0.0066	mg/L	0.00245	0.0066	mg/L	0.00245	36.94%
QC value less than the lower limit for As 188.979 Recovery = 66.43%								
Ba 233.527†	24313.5	0.1102	mg/L	0.00022	0.1102	mg/L	0.00022	0.20%
QC value within limits for Ba 233.527 Recovery = 110.15%								
Be 313.107†	11894.0	0.0052	mg/L	0.00004	0.0052	mg/L	0.00004	0.68%
QC value within limits for Be 313.107 Recovery = 103.51%								
Ca 317.933†	12720.1	2.585	mg/L	0.0218	2.585	mg/L	0.0218	0.84%
QC value within limits for Ca 317.933 Recovery = 103.40%								
Cd 226.502†	511.0	0.0055	mg/L	0.00010	0.0055	mg/L	0.00010	1.84%
QC value within limits for Cd 226.502 Recovery = 110.99%								
Co 228.616†	3080.9	0.0558	mg/L	0.00006	0.0558	mg/L	0.00006	0.10%
QC value within limits for Co 228.616 Recovery = 111.69%								
Cr 267.716†	1550.4	0.0113	mg/L	0.00041	0.0113	mg/L	0.00041	3.61%
QC value within limits for Cr 267.716 Recovery = 112.55%								
Cu 324.752†	7316.5	0.0260	mg/L	0.00013	0.0260	mg/L	0.00013	0.49%
QC value within limits for Cu 324.752 Recovery = 104.04%								
Fe 273.955†	57.6	0.1044	mg/L	0.00230	0.1044	mg/L	0.00230	2.20%
QC value within limits for Fe 273.955 Recovery = 104.42%								
K 766.490†	7888.3	2.593	mg/L	0.0575	2.593	mg/L	0.0575	2.22%
QC value within limits for K 766.490 Recovery = 103.72%								
Mg 279.077†	63303.3	2.646	mg/L	0.0088	2.646	mg/L	0.0088	0.33%
QC value within limits for Mg 279.077 Recovery = 105.84%								
Mn 257.610†	16896.1	0.0151	mg/L	0.00004	0.0151	mg/L	0.00004	0.26%
QC value within limits for Mn 257.610 Recovery = 100.34%								
Na 589.592†	10699.5	1.229	mg/L	0.0160	1.229	mg/L	0.0160	1.30%
QC value less than the lower limit for Na 589.592 Recovery = 49.17%								

Ni 231.604†	2337.1	0.0449 mg/L	0.00009	0.0449 mg/L	0.00009	0.19%
QC value within limits for Ni 231.604 Recovery = 112.16%						
Pb 220.353†	153.5	0.0131 mg/L	0.00010	0.0131 mg/L	0.00010	0.77%
QC value greater than the upper limit for Pb 220.353 Recovery = 131.45%						
Sb 206.836†	261.5	0.0636 mg/L	0.00337	0.0636 mg/L	0.00337	5.30%
QC value within limits for Sb 206.836 Recovery = 105.92%						
Se 196.026†	25.5	0.0089 mg/L	0.00079	0.0089 mg/L	0.00079	8.94%
QC value within limits for Se 196.026 Recovery = 88.63%						
Tl 190.801†	33.4	0.0234 mg/L	0.00193	0.0234 mg/L	0.00193	8.27%
QC value within limits for Tl 190.801 Recovery = 93.49%						
V 292.402†	4812.2	0.0265 mg/L	0.00011	0.0265 mg/L	0.00011	0.41%
QC value within limits for V 292.402 Recovery = 106.04%						
Zn 213.857†	79.8	0.0657 mg/L	0.00112	0.0657 mg/L	0.00112	1.70%
QC value within limits for Zn 213.857 Recovery = 109.58%						
Pb†	2.6	0.0283 mg/L	0.01576	0.0283 mg/L	0.01576	55.76%
Ag 338.289†	1175.4	0.0108 mg/L	0.00041	0.0108 mg/L	0.00041	3.81%

QC Failed. Continue with analysis.

Sequence No.: 12
Sample ID: LLREF Radial Pb
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 75

Autosampler Location: 4
Date Collected: 2/10/2015 12:14:26 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: LLREF Radial Pb

Analyte	Back Pressure	Flow
All	220.0 kPa	0.55 L/min

Mean Data: LLREF Radial Pb

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	1745676.6	1.009	mg/L	0.0026				0.26%
Ag 328.068†	54.2	0.0002	mg/L	0.00048	0.0002	mg/L	0.00048	207.11%
Al 308.215†	1.0	0.0016	mg/L	0.01100	0.0016	mg/L	0.01100	672.18%
As 188.979†	-5.1	-0.0020	mg/L	0.00602	-0.0020	mg/L	0.00602	307.74%
Ba 233.527†	-52.8	-0.0002	mg/L	0.00003	-0.0002	mg/L	0.00003	12.12%
Be 313.107†	113.8	0.0000	mg/L	0.00005	0.0000	mg/L	0.00005	94.94%
Ca 317.933†	-58.5	-0.0119	mg/L	0.00758	-0.0119	mg/L	0.00758	63.85%
Cd 226.502†	14.4	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001	7.38%
Co 228.616†	10.8	0.0002	mg/L	0.00048	0.0002	mg/L	0.00048	246.67%
Cr 267.716†	-37.9	-0.0003	mg/L	0.00029	-0.0003	mg/L	0.00029	103.52%
Cu 324.752†	-52.1	-0.0002	mg/L	0.00004	-0.0002	mg/L	0.00004	22.41%
Fe 273.955†	10.1	0.0183	mg/L	0.00160	0.0183	mg/L	0.00160	8.72%
K 766.490†	-299.7	-0.0985	mg/L	0.00223	-0.0985	mg/L	0.00223	2.27%
Mg 279.077†	138.8	0.0058	mg/L	0.00109	0.0058	mg/L	0.00109	18.87%
Mn 257.610†	-100.0	-0.0001	mg/L	0.00000	-0.0001	mg/L	0.00000	0.71%
Na 589.592†	-12617.5	-1.449	mg/L	0.0018	-1.449	mg/L	0.0018	0.13%
Ni 231.604†	4.2	0.0001	mg/L	0.00032	0.0001	mg/L	0.00032	400.30%
Pb 220.353†	1267.2	0.1080	mg/L	0.00114	0.1080	mg/L	0.00114	1.06%
QC value within limits for Pb 220.353 Recovery = 108.02%								
Sb 206.836†	8.4	0.0021	mg/L	0.00563	0.0021	mg/L	0.00563	274.31%
Se 196.026†	-0.1	-0.0001	mg/L	0.00321	-0.0001	mg/L	0.00321	>999.9%
Tl 190.801†	-0.6	-0.0005	mg/L	0.00018	-0.0005	mg/L	0.00018	39.35%
V 292.402†	68.8	0.0004	mg/L	0.00004	0.0004	mg/L	0.00004	11.27%
Zn 213.857†	1.8	0.0015	mg/L	0.00140	0.0015	mg/L	0.00140	91.79%
Pb†	7.7	0.0827	mg/L	0.03803	0.0827	mg/L	0.03803	46.00%
QC value within limits for Pb Recovery = 82.66%								
Ag 338.289†	161.2	0.0014	mg/L	0.00020	0.0014	mg/L	0.00020	14.02%

All analyte(s) passed QC.

Sequence No.: 13
Sample ID: ICSAB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 75

Autosampler Location: 8
Date Collected: 2/10/2015 12:18:45 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	220.0 kPa	0.55 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	1773993.1	1.025	mg/L	0.0002				0.02%
Ag 328.068†	176132.3	0.7557	mg/L	0.00037	0.7557	mg/L	0.00037	0.05%
QC value within limits for Ag 328.068 Recovery = 100.76%								
Al 308.215†	165921.8	280.1	mg/L	0.71	280.1	mg/L	0.71	0.25%
QC value within limits for Al 308.215 Recovery = 112.03%								
As 188.979†	6380.3	2.478	mg/L	0.0031	2.478	mg/L	0.0031	0.13%
QC value within limits for As 188.979 Recovery = 99.12%								
Ba 233.527†	162988.2	0.7384	mg/L	0.00040	0.7384	mg/L	0.00040	0.05%
QC value within limits for Ba 233.527 Recovery = 98.46%								
Be 313.107†	575315.3	0.2504	mg/L	0.00035	0.2504	mg/L	0.00035	0.14%
QC value within limits for Be 313.107 Recovery = 100.15%								
Ca 317.933†	1326014.6	269.5	mg/L	1.39	269.5	mg/L	1.39	0.51%
QC value within limits for Ca 317.933 Recovery = 107.79%								
Cd 226.502†	65717.8	0.7059	mg/L	0.00081	0.7059	mg/L	0.00081	0.12%
QC value within limits for Cd 226.502 Recovery = 94.12%								
Co 228.616†	39661.6	0.7189	mg/L	0.00471	0.7189	mg/L	0.00471	0.65%
QC value within limits for Co 228.616 Recovery = 95.86%								
Cr 267.716†	97687.9	0.7104	mg/L	0.00048	0.7104	mg/L	0.00048	0.07%
QC value within limits for Cr 267.716 Recovery = 94.72%								
Cu 324.752†	209476.9	0.7563	mg/L	0.00074	0.7563	mg/L	0.00074	0.1%
QC value within limits for Cu 324.752 Recovery = 100.84%								
Fe 273.955†	52682.4	95.86	mg/L	0.042	95.86	mg/L	0.042	0.04%
QC value within limits for Fe 273.955 Recovery = 95.86%								
K 766.490†	164690.4	54.14	mg/L	0.301	54.14	mg/L	0.301	0.56%
QC value within limits for K 766.490 Recovery = 108.27%								
Mg 279.077†	6085465.0	254.4	mg/L	0.00	254.4	mg/L	0.00	0.00%
QC value within limits for Mg 279.077 Recovery = 101.75%								
Mn 257.610†	528845.2	0.4711	mg/L	0.00023	0.4711	mg/L	0.00023	0.05%
QC value within limits for Mn 257.610 Recovery = 94.22%								
Na 589.592†	-13516.5	-1.553	mg/L	0.0115	-1.553	mg/L	0.0115	0.74%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	36747.4	0.7054	mg/L	0.00089	0.7054	mg/L	0.00089	0.13%
QC value within limits for Ni 231.604 Recovery = 94.06%								
Pb 220.353†	27876.9	2.286	mg/L	0.0065	2.286	mg/L	0.0065	0.28%
QC value within limits for Pb 220.353 Recovery = 91.44%								
Sb 206.836†	-318.7	0.0342	mg/L	0.02022	0.0342	mg/L	0.02022	59.13%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	3433.4	1.195	mg/L	0.0015	1.195	mg/L	0.0015	0.12%
QC value within limits for Se 196.026 Recovery = 95.61%								
Tl 190.801†	3249.6	2.312	mg/L	0.0047	2.312	mg/L	0.0047	0.21%
QC value within limits for Tl 190.801 Recovery = 92.46%								
V 292.402†	138340.4	0.7650	mg/L	0.00042	0.7650	mg/L	0.00042	0.06%
QC value within limits for V 292.402 Recovery = 102.00%								
Zn 213.857†	965.6	0.7663	mg/L	0.00346	0.7663	mg/L	0.00346	0.45%
QC value within limits for Zn 213.857 Recovery = 102.17%								
Pb†	219.7	2.257	mg/L	0.0269	2.257	mg/L	0.0269	1.19%
QC value within limits for Pb Recovery = 90.27%								
Ag 338.289†	87309.5	0.7983	mg/L	0.00174	0.7983	mg/L	0.00174	0.2%

All analyte(s) passed QC.

Sequence No.: 14
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 75

Autosampler Location: 7
Date Collected: 2/10/2015 12:22:30 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	220.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	1620286.3	0.9364	mg/L	0.00202				0.22%
Ag 328.068†	295298.4	1.228	mg/L	0.0007	1.228	mg/L	0.0007	0.06%
QC value within limits for Ag 328.068 Recovery = 98.27%								
Al 308.215†	5993.5	10.11	mg/L	0.045	10.11	mg/L	0.045	0.45%
QC value within limits for Al 308.215 Recovery = 101.12%								
As 188.979†	1314.6	0.5075	mg/L	0.00156	0.5075	mg/L	0.00156	0.31%
QC value within limits for As 188.979 Recovery = 101.50%								
Ba 233.527†	2241847.4	10.16	mg/L	0.014	10.16	mg/L	0.014	0.14%
QC value within limits for Ba 233.527 Recovery = 101.57%								
Be 313.107†	585023.6	0.2546	mg/L	0.00059	0.2546	mg/L	0.00059	0.23%
QC value within limits for Be 313.107 Recovery = 101.86%								
Ca 317.933†	128347.4	26.08	mg/L	0.035	26.08	mg/L	0.035	0.14%
QC value within limits for Ca 317.933 Recovery = 104.33%								
Cd 226.502†	23689.9	0.2579	mg/L	0.00064	0.2579	mg/L	0.00064	0.25%
QC value within limits for Cd 226.502 Recovery = 103.15%								
Co 228.616†	143955.3	2.609	mg/L	0.0054	2.609	mg/L	0.0054	0.21%
QC value within limits for Co 228.616 Recovery = 104.37%								
Cr 267.716†	135911.1	0.9865	mg/L	0.00014	0.9865	mg/L	0.00014	0.01%
QC value within limits for Cr 267.716 Recovery = 98.65%								
Cu 324.752†	350451.5	1.246	mg/L	0.0001	1.246	mg/L	0.0001	0.01%
QC value within limits for Cu 324.752 Recovery = 99.66%								
Fe 273.955†	2754.3	4.969	mg/L	0.0165	4.969	mg/L	0.0165	0.33%
QC value within limits for Fe 273.955 Recovery = 99.39%								
K 766.490†	76176.1	25.04	mg/L	0.073	25.04	mg/L	0.073	0.29%
QC value within limits for K 766.490 Recovery = 100.16%								
Mg 279.077†	609066.7	25.46	mg/L	0.006	25.46	mg/L	0.006	0.02%
QC value within limits for Mg 279.077 Recovery = 101.84%								
Mn 257.610†	2847876.6	2.537	mg/L	0.0027	2.537	mg/L	0.0027	0.11%
QC value within limits for Mn 257.610 Recovery = 101.46%								
Na 589.592†	212408.9	24.40	mg/L	0.040	24.40	mg/L	0.040	0.16%
QC value within limits for Na 589.592 Recovery = 97.61%								
Ni 231.604†	132467.1	2.543	mg/L	0.0012	2.543	mg/L	0.0012	0.05%
QC value within limits for Ni 231.604 Recovery = 101.72%								
Pb 220.353†	5879.8	0.5043	mg/L	0.00244	0.5043	mg/L	0.00244	0.48%
QC value within limits for Pb 220.353 Recovery = 100.86%								
Sb 206.836†	21432.4	5.203	mg/L	0.0117	5.203	mg/L	0.0117	0.22%
QC value within limits for Sb 206.836 Recovery = 104.05%								
Se 196.026†	1479.5	0.5065	mg/L	0.00276	0.5065	mg/L	0.00276	0.55%
QC value within limits for Se 196.026 Recovery = 101.30%								
Tl 190.801†	804.9	0.5375	mg/L	0.00652	0.5375	mg/L	0.00652	1.21%
QC value within limits for Tl 190.801 Recovery = 107.50%								
V 292.402†	469652.9	2.586	mg/L	0.0008	2.586	mg/L	0.0008	0.03%
QC value within limits for V 292.402 Recovery = 103.46%								
Zn 213.857†	3240.1	2.673	mg/L	0.0206	2.673	mg/L	0.0206	0.77%
QC value within limits for Zn 213.857 Recovery = 106.93%								
Pb†	42.5	0.4544	mg/L	0.03105	0.4544	mg/L	0.03105	6.83%
QC value within limits for Pb Recovery = 90.88%								
Ag 338.289†	136884.9	1.251	mg/L	0.0008	1.251	mg/L	0.0008	0.07%

All analyte(s) passed QC.

Sequence No.: 15 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 2/10/2015 12:26:48 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 75 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	220.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	1666295.8	0.9629	mg/L	0.00347				0.36%

Ag 328.068†	372.1	0.0015 mg/L	0.00037	0.0015 mg/L	0.00037	23.78%	
QC value within limits for Ag 328.068 Recovery = Not calculated							
Al 308.215†	-8.8	-0.0149 mg/L	0.00615	-0.0149 mg/L	0.00615	41.28%	
QC value within limits for Al 308.215 Recovery = Not calculated							
As 188.979†	-5.7	-0.0022 mg/L	0.00133	-0.0022 mg/L	0.00133	60.86%	
QC value within limits for As 188.979 Recovery = Not calculated							
Ba 233.527†	47.7	0.0002 mg/L	0.00009	0.0002 mg/L	0.00009	43.45%	
QC value within limits for Ba 233.527 Recovery = Not calculated							
Be 313.107†	10.4	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	456.74%	
QC value within limits for Be 313.107 Recovery = Not calculated							
Ca 317.933†	-89.9	-0.0183 mg/L	0.00600	-0.0183 mg/L	0.00600	32.88%	
QC value within limits for Ca 317.933 Recovery = Not calculated							
Cd 226.502†	20.3	0.0002 mg/L	0.00010	0.0002 mg/L	0.00010	43.37%	
QC value within limits for Cd 226.502 Recovery = Not calculated							
Co 228.616†	0.2	0.0000 mg/L	0.00000	0.0000 mg/L	0.00000	17.47%	
QC value within limits for Co 228.616 Recovery = Not calculated							
Cr 267.716†	14.1	0.0001 mg/L	0.00032	0.0001 mg/L	0.00032	310.56%	
QC value within limits for Cr 267.716 Recovery = Not calculated							
Cu 324.752†	10.8	0.0000 mg/L	0.00004	0.0000 mg/L	0.00004	96.88%	
QC value within limits for Cu 324.752 Recovery = Not calculated							
Fe 273.955†	2.0	0.0036 mg/L	0.01627	0.0036 mg/L	0.01627	451.81%	
QC value within limits for Fe 273.955 Recovery = Not calculated							
K 766.490†	-91.1	-0.0300 mg/L	0.07422	-0.0300 mg/L	0.07422	247.76%	
QC value within limits for K 766.490 Recovery = Not calculated							
Mg 279.077†	-16.6	-0.0007 mg/L	0.00704	-0.0007 mg/L	0.00704	>999.9%	
QC value within limits for Mg 279.077 Recovery = Not calculated							
Mn 257.610†	152.0	0.0001 mg/L	0.00004	0.0001 mg/L	0.00004	28.69%	
QC value within limits for Mn 257.610 Recovery = Not calculated							
Na 589.592†	-15207.3	-1.747 mg/L	0.0032	-1.747 mg/L	0.0032	0.18%	
QC value within limits for Na 589.592 Recovery = Not calculated							
Ni 231.604†	48.1	0.0009 mg/L	0.00023	0.0009 mg/L	0.00023	25.17%	
QC value within limits for Ni 231.604 Recovery = Not calculated							
Pb 220.353†	21.6	0.0018 mg/L	0.00042	0.0018 mg/L	0.00042	22.67%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.836†	7.6	0.0018 mg/L	0.00480	0.0018 mg/L	0.00480	261.33%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	-2.1	-0.0007 mg/L	0.00468	-0.0007 mg/L	0.00468	658.27%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Tl 190.801†	3.7	0.0026 mg/L	0.00068	0.0026 mg/L	0.00068	25.84%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
V 292.402†	-71.1	-0.0004 mg/L	0.00003	-0.0004 mg/L	0.00003	8.38%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	1.4	0.0011 mg/L	0.00485	0.0011 mg/L	0.00485	431.66%	
QC value within limits for Zn 213.857 Recovery = Not calculated							
Pb†	-4.2	-0.0444 mg/L	0.01976	-0.0444 mg/L	0.01976	44.50%	
QC value within limits for Pb Recovery = Not calculated							
Ag 338.289†	15.5	0.0001 mg/L	0.00022	0.0001 mg/L	0.00022	157.53%	

All analyte(s) passed QC.

Sequence No.: 16
Sample ID: Blk 2/9 ww
Analyst: AMM
Initial Sample Wt:
Dilution:
Wash Time: 75

Autosampler Location: 38
Date Collected: 2/10/2015 12:31:03 PM
Data Type: Original
Initial Sample Vol: 50 mL
Sample Prep Vol: 50 mL
Auto Dilution Factor: 1

Nebulizer Parameters: Blk 2/9 ww

Analyte	Back Pressure	Flow
All	220.0 kPa	0.55 L/min

Mean Data: Blk 2/9 ww

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	1715280.4	0.9912	mg/L	0.00822				0.83%
Ag 328.068†	55.4	0.0002	mg/L	0.00046	0.0002	mg/L	0.00046	198.69%
Al 308.215†	-6.9	-0.0117	mg/L	0.01931	-0.0117	mg/L	0.01931	164.82%
As 188.979†	-6.3	-0.0024	mg/L	0.00065	-0.0024	mg/L	0.00065	26.74%
Ba 233.527†	-69.7	-0.0003	mg/L	0.00010	-0.0003	mg/L	0.00010	32.30%
Be 313.107†	75.5	0.0000	mg/L	0.00005	0.0000	mg/L	0.00005	139.06%

Ca 317.933†	62.0	0.0126	mg/L	0.00391	0.0126	mg/L	0.00391 31.01%
Cd 226.502†	15.8	0.0002	mg/L	0.00010	0.0002	mg/L	0.00010 57.44%
Co 228.616†	-0.3	-0.0000	mg/L	0.00006	-0.0000	mg/L	0.00006 >999.9%
Cr 267.716†	-10.8	-0.0001	mg/L	0.00018	-0.0001	mg/L	0.00018 231.09%
Cu 324.752†	9.7	0.0000	mg/L	0.00008	0.0000	mg/L	0.00008 235.23%
Fe 273.955†	0.4	0.0007	mg/L	0.00567	0.0007	mg/L	0.00567 845.76%
K 766.490†	50.7	0.0167	mg/L	0.01027	0.0167	mg/L	0.01027 61.62%
Mg 279.077†	432.5	0.0181	mg/L	0.00071	0.0181	mg/L	0.00071 3.91%
Mn 257.610†	82.3	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001 19.17%
Na 589.592†	-1241.5	-0.1426	mg/L	0.04906	-0.1426	mg/L	0.04906 34.40%
Ni 231.604†	-0.1	-0.0000	mg/L	0.00013	-0.0000	mg/L	0.00013 >999.9%
Pb 220.353†	49.0	0.0042	mg/L	0.00286	0.0042	mg/L	0.00286 68.41%
Sb 206.836†	-15.7	-0.0038	mg/L	0.00288	-0.0038	mg/L	0.00288 75.25%
Se 196.026†	2.0	0.0007	mg/L	0.00241	0.0007	mg/L	0.00241 348.34%
Tl 190.801†	-0.7	-0.0005	mg/L	0.00210	-0.0005	mg/L	0.00210 436.95%
V 292.402†	81.6	0.0004	mg/L	0.00080	0.0004	mg/L	0.00080 179.76%
Zn 213.857†	11.7	0.0097	mg/L	0.00067	0.0097	mg/L	0.00067 6.88%
Pb†	-2.1	-0.0227	mg/L	0.00418	-0.0227	mg/L	0.00418 18.41%
Ag 338.289†	-148.9	-0.0013	mg/L	0.00253	-0.0013	mg/L	0.00253 189.76%

Sequence No.: 17
Sample ID: lcs
Analyst: AMM
Initial Sample Wt:
Dilution:
Wash Time: 75

Autosampler Location: 39
Date Collected: 2/10/2015 12:35:20 PM
Data Type: Original
Initial Sample Vol: 50 mL
Sample Prep Vol: 50 mL
Auto Dilution Factor: 1

Nebulizer Parameters: lcs

Analyte	Back Pressure	Flow
All	220.0 kPa	0.55 L/min

Mean Data: lcs

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	1638644.4	0.9470	mg/L	0.00255				0.27%
Ag 328.068†	59617.1	0.2485	mg/L	0.00045	0.2485	mg/L	0.00045	0.18%
Al 308.215†	1582.9	2.672	mg/L	0.0226	2.672	mg/L	0.0226	0.85%
As 188.979†	6409.5	2.471	mg/L	0.0462	2.471	mg/L	0.0462	1.87%
Ba 233.527†	567945.2	2.573	mg/L	0.0019	2.573	mg/L	0.0019	0.07%
Be 313.107†	1139438.6	0.4961	mg/L	0.00111	0.4961	mg/L	0.00111	0.22%
Ca 317.933†	21115.9	4.291	mg/L	0.0007	4.291	mg/L	0.0007	0.02%
Cd 226.502†	95542.8	1.043	mg/L	0.0004	1.043	mg/L	0.0004	0.04%
Co 228.616†	63058.0	1.143	mg/L	0.0243	1.143	mg/L	0.0243	2.13%
Cr 267.716†	348220.3	2.529	mg/L	0.0055	2.529	mg/L	0.0055	0.22%
Cu 324.752†	726294.3	2.581	mg/L	0.0004	2.581	mg/L	0.0004	0.02%
Fe 273.955†	1376.8	2.492	mg/L	0.0005	2.492	mg/L	0.0005	0.02%
K 766.490†	133373.7	43.84	mg/L	0.207	43.84	mg/L	0.207	0.47%
Mg 279.077†	200576.2	8.384	mg/L	0.0028	8.384	mg/L	0.0028	0.03%
Mn 257.610†	1134750.4	1.011	mg/L	0.0002	1.011	mg/L	0.0002	0.02%
Na 589.592†	102069.7	11.73	mg/L	0.088	11.73	mg/L	0.088	0.75%
Ni 231.604†	285810.8	5.487	mg/L	0.0027	5.487	mg/L	0.0027	0.05%
Pb 220.353†	30274.8	2.584	mg/L	0.0570	2.584	mg/L	0.0570	2.21%
Sb 206.836†	10544.3	2.516	mg/L	0.0664	2.516	mg/L	0.0664	2.64%
Se 196.026†	7398.0	2.553	mg/L	0.0647	2.553	mg/L	0.0647	2.54%
Tl 190.801†	3567.8	2.548	mg/L	0.0844	2.548	mg/L	0.0844	3.31%
V 292.402†	177822.2	0.9955	mg/L	0.00033	0.9955	mg/L	0.00033	0.03%
Zn 213.857†	3311.9	2.721	mg/L	0.0066	2.721	mg/L	0.0066	0.24%
Pb†	236.9	2.529	mg/L	0.0853	2.529	mg/L	0.0853	3.37%
Ag 338.289†	24885.8	0.2776	mg/L	0.00212	0.2776	mg/L	0.00212	0.77%

Sequence No.: 18
Sample ID: lcs dup
Analyst: AMM
Initial Sample Wt:
Dilution:
Wash Time: 75

Autosampler Location: 40
Date Collected: 2/10/2015 12:38:59 PM
Data Type: Original
Initial Sample Vol: 50 mL
Sample Prep Vol: 50 mL
Auto Dilution Factor: 1

Nebulizer Parameters: lcs dup

Analyte	Back Pressure	Flow
All	219.0 kPa	0.55 L/min

Mean Data: lcs dup

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	1652873.6	0.9552	mg/L	0.00811				0.85%
Ag 328.068†	58032.1	0.2419	mg/L	0.00065	0.2419	mg/L	0.00065	0.27%
Al 308.215†	1536.1	2.593	mg/L	0.0228	2.593	mg/L	0.0228	0.88%
As 188.979†	6332.1	2.441	mg/L	0.0057	2.441	mg/L	0.0057	0.23%
Ba 233.527†	553957.6	2.510	mg/L	0.0017	2.510	mg/L	0.0017	0.07%
Be 313.107†	1106818.3	0.4819	mg/L	0.00071	0.4819	mg/L	0.00071	0.15%
Ca 317.933†	20518.6	4.170	mg/L	0.0401	4.170	mg/L	0.0401	0.96%
Cd 226.502†	92930.0	1.015	mg/L	0.0003	1.015	mg/L	0.0003	0.03%
Co 228.616†	62101.5	1.126	mg/L	0.0107	1.126	mg/L	0.0107	0.95%
Cr 267.716†	338253.7	2.457	mg/L	0.0012	2.457	mg/L	0.0012	0.05%
Cu 324.752†	703962.9	2.502	mg/L	0.0042	2.502	mg/L	0.0042	0.17%
Fe 273.955†	1318.8	2.387	mg/L	0.0181	2.387	mg/L	0.0181	0.76%
K 766.490†	130076.1	42.76	mg/L	0.431	42.76	mg/L	0.431	1.01%
Mg 279.077†	192882.8	8.063	mg/L	0.0011	8.063	mg/L	0.0011	0.01%
Mn 257.610†	1098104.1	0.9781	mg/L	0.00017	0.9781	mg/L	0.00017	0.02%
Na 589.592†	102284.5	11.75	mg/L	0.187	11.75	mg/L	0.187	1.59%
Ni 231.604†	276476.9	5.308	mg/L	0.0043	5.308	mg/L	0.0043	0.08%
Pb 220.353†	29466.1	2.515	mg/L	0.0213	2.515	mg/L	0.0213	0.85%
Sb 206.836†	10355.2	2.471	mg/L	0.0377	2.471	mg/L	0.0377	1.53%
Se 196.026†	7274.0	2.510	mg/L	0.0150	2.510	mg/L	0.0150	0.60%
Tl 190.801†	3588.3	2.563	mg/L	0.0253	2.563	mg/L	0.0253	0.99%
V 292.402†	172624.7	0.9665	mg/L	0.00181	0.9665	mg/L	0.00181	0.19%
Zn 213.857†	3228.5	2.653	mg/L	0.0157	2.653	mg/L	0.0157	0.59%
Pb†	228.0	2.434	mg/L	0.0099	2.434	mg/L	0.0099	0.41%
Ag 338.289†	24828.3	0.2755	mg/L	0.00136	0.2755	mg/L	0.00136	0.4%

Sequence No.: 19
Sample ID: 150389-11
Analyst: AMM
Initial Sample Wt:
Dilution:
Wash Time: 75

Autosampler Location: 41
Date Collected: 2/10/2015 12:42:38 PM
Data Type: Original
Initial Sample Vol: 50 mL
Sample Prep Vol: 25 mL
Auto Dilution Factor: 1

Nebulizer Parameters: 150389-11

Analyte	Back Pressure	Flow
All	220.0 kPa	0.55 L/min

Mean Data: 150389-11

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	1482113.9	0.8565	mg/L	0.00656				0.77%
Ag 328.068†	345.8	0.0021	mg/L	0.00058	0.0010	mg/L	0.00029	28.29%
Al 308.215†	51.6	0.0872	mg/L	0.03227	0.0436	mg/L	0.01614	37.03%
As 188.979†	3.8	0.0017	mg/L	0.00373	0.0008	mg/L	0.00187	223.05%
Ba 233.527†	1213.6	0.0055	mg/L	0.00007	0.0027	mg/L	0.00003	1.26%
Be 313.107†	-261.4	-0.0001	mg/L	0.00004	-0.0001	mg/L	0.00002	34.16%
Ca 317.933†	5510.4	1.120	mg/L	0.0090	0.5599	mg/L	0.00449	0.80%
Cd 226.502†	47.3	0.0003	mg/L	0.00017	0.0002	mg/L	0.00009	53.90%
Co 228.616†	14.8	0.0003	mg/L	0.00028	0.0001	mg/L	0.00014	102.31%
Cr 267.716†	1106.5	0.0081	mg/L	0.00013	0.0040	mg/L	0.00007	1.6%
Cu 324.752†	21754.3	0.0775	mg/L	0.00002	0.0388	mg/L	0.00001	0.0%
Fe 273.955†	1088.7	1.981	mg/L	0.0117	0.9906	mg/L	0.00587	0.59%
K 766.490†	11706.2	3.848	mg/L	0.2662	1.924	mg/L	0.1331	6.9%
Mg 279.077†	7781.1	0.3252	mg/L	0.00210	0.1626	mg/L	0.00105	0.65%
Mn 257.610†	9107.3	0.0081	mg/L	0.00004	0.0041	mg/L	0.00002	0.51%
Na 589.592†	19804077.1	2275	mg/L	19.88	1138	mg/L	9.94	0.87%
Ni 231.604†	4882.4	0.0937	mg/L	0.00073	0.0469	mg/L	0.00036	0.78%
Pb 220.353†	80.5	0.0070	mg/L	0.00064	0.0035	mg/L	0.00032	9.09%
Sb 206.836†	-24.8	-0.0053	mg/L	0.00280	-0.0027	mg/L	0.00140	52.64%
Se 196.026†	3.4	0.0009	mg/L	0.00024	0.0004	mg/L	0.00012	27.60%
Tl 190.801†	18.8	0.0137	mg/L	0.00293	0.0068	mg/L	0.00147	21.44%

V 292.402†	93.2	0.0006 mg/L	0.00021	0.0003 mg/L	0.00011	36.96%
Zn 213.857†	41.3	0.0336 mg/L	0.00066	0.0168 mg/L	0.00033	1.95%
Pb†	4.2	0.0445 mg/L	0.10606	0.0223 mg/L	0.05303	238.20%
Ag 338.289†	-318.3	-0.0027 mg/L	0.00034	-0.0013 mg/L	0.00017	12.65%

Sequence No.: 20
Sample ID: 150389-12
Analyst: AMM
Initial Sample Wt:
Dilution:
Wash Time: 75

Autosampler Location: 42
Date Collected: 2/10/2015 12:46:58 PM
Data Type: Original
Initial Sample Vol: 50 mL
Sample Prep Vol: 25 mL
Auto Dilution Factor: 1

Nebulizer Parameters: 150389-12

Analyte	Back Pressure	Flow
All	232.0 kPa	0.55 L/min

Mean Data: 150389-12

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	1394927.8	0.8061	mg/L	0.00012				0.01%
Ag 328.068†	354.4	0.0015	mg/L	0.00073	0.0007	mg/L	0.00037	49.33%
Al 308.215†	50.5	0.0853	mg/L	0.01095	0.0426	mg/L	0.00547	12.84%
As 188.979†	10.8	0.0042	mg/L	0.00120	0.0021	mg/L	0.00060	28.25%
Ba 233.527†	682.6	0.0031	mg/L	0.00016	0.0015	mg/L	0.00008	5.19%
Be 313.107†	-375.6	-0.0002	mg/L	0.00001	-0.0001	mg/L	0.00001	9.19%
Ca 317.933†	8914.0	1.812	mg/L	0.0012	0.9058	mg/L	0.00060	0.07%
Cd 226.502†	-7.6	-0.0001	mg/L	0.00006	-0.0001	mg/L	0.00003	50.96%
Co 228.616†	25.0	0.0005	mg/L	0.00016	0.0002	mg/L	0.00008	35.41%
Cr 267.716†	140.2	0.0010	mg/L	0.00074	0.0005	mg/L	0.00037	72.26%
Cu 324.752†	1480.9	0.0053	mg/L	0.00040	0.0026	mg/L	0.00020	7.59%
Fe 273.955†	58.3	0.1062	mg/L	0.01678	0.0531	mg/L	0.00839	15.81%
K 766.490†	15893.6	5.224	mg/L	0.0718	2.612	mg/L	0.0359	1.37%
Mg 279.077†	11586.9	0.4843	mg/L	0.00084	0.2422	mg/L	0.00042	0.17%
Mn 257.610†	7479.2	0.0067	mg/L	0.00024	0.0033	mg/L	0.00012	3.56%
Na 589.592†	23295940.0	2676	mg/L	11.96	1338	mg/L	5.98	0.45%
Ni 231.604†	2705.1	0.0519	mg/L	0.00169	0.0260	mg/L	0.00085	3.26%
Pb 220.353†	17.7	0.0015	mg/L	0.00350	0.0008	mg/L	0.00175	227.81%
Sb 206.836†	-28.2	-0.0068	mg/L	0.00400	-0.0034	mg/L	0.00200	58.86%
Se 196.026†	-19.2	-0.0065	mg/L	0.00179	-0.0033	mg/L	0.00090	27.37%
Tl 190.801†	8.2	0.0060	mg/L	0.00584	0.0030	mg/L	0.00292	97.56%
V 292.402†	29.8	0.0002	mg/L	0.00029	0.0001	mg/L	0.00014	166.63%
Zn 213.857†	33.2	0.0271	mg/L	0.00408	0.0136	mg/L	0.00204	15.05%
Pb†	0.9	0.0099	mg/L	0.01979	0.0049	mg/L	0.00990	200.47%
Ag 338.289†	-477.7	-0.0043	mg/L	0.00086	-0.0021	mg/L	0.00043	20.15%

Sequence No.: 21
Sample ID: 150392-01
Analyst: AMM
Initial Sample Wt:
Dilution:
Wash Time: 75

Autosampler Location: 43
Date Collected: 2/10/2015 12:51:18 PM
Data Type: Original
Initial Sample Vol: 50 mL
Sample Prep Vol: 25 mL
Auto Dilution Factor: 1

Nebulizer Parameters: 150392-01

Analyte	Back Pressure	Flow
All	234.0 kPa	0.55 L/min

Mean Data: 150392-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	1566835.4	0.9055	mg/L	0.00549				0.61%
Ag 328.068†	191.0	-0.0004	mg/L	0.00018	-0.0002	mg/L	0.00009	45.02%
Al 308.215†	51.8	0.0874	mg/L	0.00215	0.0437	mg/L	0.00108	2.46%
As 188.979†	-7.7	-0.0002	mg/L	0.00473	-0.0001	mg/L	0.00237	>999.9%
Ba 233.527†	14200.1	0.0643	mg/L	0.00027	0.0322	mg/L	0.00013	0.42%
Be 313.107†	-62.2	-0.0000	mg/L	0.00002	-0.0000	mg/L	0.00001	89.26%
Ca 317.933†	447237.9	90.89	mg/L	0.142	45.45	mg/L	0.071	0.16%

Cd 226.502†	16.2	-0.0005 mg/L	0.00010	-0.0003 mg/L	0.00005	18.67%
Co 228.616†	16.6	0.0003 mg/L	0.00019	0.0002 mg/L	0.00009	62.48%
Cr 267.716†	54.1	0.0004 mg/L	0.00017	0.0002 mg/L	0.00009	43.44%
Cu 324.752†	37257.8	0.1324 mg/L	0.00054	0.0662 mg/L	0.00027	0.41%
Fe 273.955†	70.7	0.1286 mg/L	0.00002	0.0643 mg/L	0.00001	0.02%
K 766.490†	11365.7	3.736 mg/L	0.0370	1.868 mg/L	0.0185	0.99%
Mg 279.077†	521717.8	21.81 mg/L	0.033	10.90 mg/L	0.016	0.15%
Mn 257.610†	10052.9	0.0090 mg/L	0.00002	0.0045 mg/L	0.00001	0.1%
Na 589.592†	1261437.4	144.9 mg/L	0.70	72.46 mg/L	0.349	0.48%
Ni 231.604†	64.8	0.0012 mg/L	0.00027	0.0006 mg/L	0.00013	21.40%
Pb 220.353†	-55.0	-0.0033 mg/L	0.00149	-0.0017 mg/L	0.00075	44.61%
Sb 206.836†	-12.6	-0.0030 mg/L	0.00619	-0.0015 mg/L	0.00309	206.20%
Se 196.026†	-45.5	-0.0102 mg/L	0.00180	-0.0051 mg/L	0.00090	17.52%
Tl 190.801†	-43.0	-0.0276 mg/L	0.00490	-0.0138 mg/L	0.00245	17.77%
V 292.402†	206.9	0.0011 mg/L	0.00023	0.0006 mg/L	0.00011	19.83%
Zn 213.857†	50.3	0.0339 mg/L	0.00178	0.0169 mg/L	0.00089	5.26%
Pb†	2.9	0.0499 mg/L	0.00992	0.0250 mg/L	0.00496	19.88%
Ag 338.289†	48.3	0.0004 mg/L	0.00004	0.0002 mg/L	0.00002	9.03%

Sequence No.: 22
Sample ID: 150400-01
Analyst: AMM
Initial Sample Wt:
Dilution: 5X
Wash Time: 75

Autosampler Location: 44
Date Collected: 2/10/2015 12:55:36 PM
Data Type: Original
Initial Sample Vol: 50 mL
Sample Prep Vol: 25 mL
Auto Dilution Factor: 1

Nebulizer Parameters: 150400-01

Analyte	Back Pressure	Flow
All	236.0 kPa	0.55 L/min

Mean Data: 150400-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	1233029.1	0.7126	mg/L	0.00341				0.48%
Ag 328.068†	646.3	0.0005	mg/L	0.00215	0.0012	mg/L	0.00538	430.94%
Al 308.215†	278.4	0.4699	mg/L	0.00696	1.175	mg/L	0.0174	1.48%
As 188.979†	-211.8	-0.0765	mg/L	0.00221	-0.1913	mg/L	0.00553	2.89%
Ba 233.527†	7891.1	0.0358	mg/L	0.00002	0.0894	mg/L	0.00004	0.05%
Be 313.107†	-461.0	-0.0002	mg/L	0.00003	-0.0005	mg/L	0.00007	14.13%
Ca 317.933†	829541.2	168.6	mg/L	0.00	421.5	mg/L	0.01	0.00%
Cd 226.502†	-522.5	-0.0070	mg/L	0.00009	-0.0175	mg/L	0.00024	1.35%
Co 228.616†	-198.1	-0.0036	mg/L	0.00023	-0.0090	mg/L	0.00057	6.30%
Cr 267.716†	4287.8	0.0312	mg/L	0.00015	0.0779	mg/L	0.00038	0.49%
Cu 324.752†	8618.7	0.0307	mg/L	0.00003	0.0767	mg/L	0.00008	0.11%
Fe 273.955†	209.0	0.3804	mg/L	0.00341	0.9510	mg/L	0.00852	0.90%
K 766.490†	43355.9	14.25	mg/L	0.385	35.63	mg/L	0.962	2.70%
Mg 279.077†	230754.5	9.646	mg/L	0.0097	24.11	mg/L	0.024	0.10%
Mn 257.610†	34197.8	0.0305	mg/L	0.00013	0.0761	mg/L	0.00031	0.41%
Na 589.592†	42763645.1	4913	mg/L	9.82	12280	mg/L	24.56	0.20%
Ni 231.604†	702.3	0.0135	mg/L	0.00057	0.0337	mg/L	0.00142	4.21%
Pb 220.353†	168.2	0.0171	mg/L	0.00126	0.0428	mg/L	0.00315	7.36%
Sb 206.836†	55.4	0.0131	mg/L	0.00236	0.0328	mg/L	0.00589	17.95%
Se 196.026†	625.1	0.2261	mg/L	0.00631	0.5651	mg/L	0.01577	2.79%
Tl 190.801†	-364.0	-0.2556	mg/L	0.00897	-0.6390	mg/L	0.02242	3.51%
V 292.402†	627.4	0.0037	mg/L	0.00043	0.0092	mg/L	0.00107	11.67%
Zn 213.857†	119.4	0.0844	mg/L	0.00212	0.2109	mg/L	0.00529	2.51%
Pb†	-8.1	-0.0517	mg/L	0.10200	-0.1293	mg/L	0.25501	197.28%
Ag 338.289†	-1709.0	-0.0147	mg/L	0.00099	-0.0366	mg/L	0.00248	6.76%

Sequence No.: 23
Sample ID: 150402-04
Analyst: AMM
Initial Sample Wt:
Dilution:
Wash Time: 75

Autosampler Location: 45
Date Collected: 2/10/2015 12:59:59 PM
Data Type: Original
Initial Sample Vol: 50 mL
Sample Prep Vol: 25 mL
Auto Dilution Factor: 1

Nebulizer Parameters: 150402-04

Analyte	Back Pressure	Flow
All	238.0 kPa	0.55 L/min

Mean Data: 150402-04

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	1620432.1	0.9364	mg/L	0.00015				0.02%
Ag 328.068†	343.3	0.0005	mg/L	0.00049	0.0003	mg/L	0.00024	91.07%
Al 308.215†	242.4	0.4091	mg/L	0.01285	0.2046	mg/L	0.00642	3.14%
As 188.979†	-3.7	0.0008	mg/L	0.00060	0.0004	mg/L	0.00030	73.10%
Ba 233.527†	11764.7	0.0533	mg/L	0.00022	0.0267	mg/L	0.00011	0.40%
Be 313.107†	-53.6	-0.0000	mg/L	0.00002	-0.0000	mg/L	0.00001	83.13%
Ca 317.933†	355915.4	72.33	mg/L	0.475	36.17	mg/L	0.237	0.66%
Cd 226.502†	20.5	-0.0003	mg/L	0.00005	-0.0002	mg/L	0.00002	14.16%
Co 228.616†	8.0	0.0001	mg/L	0.00033	0.0001	mg/L	0.00017	227.61%
Cr 267.716†	858.2	0.0062	mg/L	0.00002	0.0031	mg/L	0.00001	0.35%
Cu 324.752†	32029.7	0.1138	mg/L	0.00101	0.0569	mg/L	0.00051	0.89%
Fe 273.955†	176.4	0.3210	mg/L	0.01771	0.1605	mg/L	0.00886	5.52%
K 766.490†	12719.0	4.181	mg/L	0.0565	2.090	mg/L	0.0283	1.35%
Mg 279.077†	432232.7	18.07	mg/L	0.044	9.034	mg/L	0.0220	0.24%
Mn 257.610†	7311.0	0.0065	mg/L	0.00001	0.0033	mg/L	0.00000	0.12%
Na 589.592†	374771.6	43.05	mg/L	1.085	21.53	mg/L	0.543	2.52%
Ni 231.604†	228.7	0.0044	mg/L	0.00005	0.0022	mg/L	0.00002	1.11%
Pb 220.353†	-35.8	-0.0021	mg/L	0.00296	-0.0011	mg/L	0.00148	140.91%
Sb 206.836†	-35.9	-0.0086	mg/L	0.00024	-0.0043	mg/L	0.00012	2.74%
Se 196.026†	-47.0	-0.0119	mg/L	0.00013	-0.0059	mg/L	0.00007	1.12%
Tl 190.801†	-38.5	-0.0250	mg/L	0.00060	-0.0125	mg/L	0.00030	2.38%
V 292.402†	53.2	0.0003	mg/L	0.00020	0.0002	mg/L	0.00010	59.09%
Zn 213.857†	133.5	0.1045	mg/L	0.00773	0.0522	mg/L	0.00386	7.40%
Rb†	-3.3	-0.0209	mg/L	0.01169	-0.0104	mg/L	0.00584	56.00%
Ag 338.289†	-41.8	-0.0002	mg/L	0.00130	-0.0001	mg/L	0.00065	534.45%

Sequence No.: 24
Sample ID: 150408-04
Analyst: AMM
Initial Sample Wt:
Dilution:
Wash Time: 75

Autosampler Location: 46
Date Collected: 2/10/2015 1:04:13 PM
Data Type: Original
Initial Sample Vol: 50 mL
Sample Prep Vol: 25 mL
Auto Dilution Factor: 1

Nebulizer Parameters: 150408-04

Analyte	Back Pressure	Flow
All	236.0 kPa	0.55 L/min

Mean Data: 150408-04

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	1558069.0	0.9004	mg/L	0.00096				0.11%
Ag 328.068†	254.0	0.0005	mg/L	0.00048	0.0003	mg/L	0.00024	95.08%
Al 308.215†	2035.0	3.435	mg/L	0.0100	1.718	mg/L	0.0050	0.29%
As 188.979†	1.9	0.0019	mg/L	0.00472	0.0009	mg/L	0.00236	251.49%
Ba 233.527†	2125.3	0.0096	mg/L	0.00013	0.0048	mg/L	0.00007	1.38%
Be 313.107†	-343.7	-0.0001	mg/L	0.00000	-0.0001	mg/L	0.00000	0.84%
Ca 317.933†	198568.8	40.35	mg/L	0.633	20.18	mg/L	0.317	1.57%
Cd 226.502†	-19.6	-0.0006	mg/L	0.00003	-0.0003	mg/L	0.00002	5.62%
Co 228.616†	24.0	0.0004	mg/L	0.00010	0.0002	mg/L	0.00005	23.10%
Cr 267.716†	28911.8	0.2100	mg/L	0.00083	0.1050	mg/L	0.00042	0.40%
Cu 324.752†	4562.3	0.0162	mg/L	0.00042	0.0081	mg/L	0.00021	2.56%
Fe 273.955†	69.7	0.1271	mg/L	0.00216	0.0636	mg/L	0.00108	1.70%
K 766.490†	50507.9	16.60	mg/L	0.247	8.301	mg/L	0.1237	1.49%
Mg 279.077†	234883.2	9.818	mg/L	0.0186	4.909	mg/L	0.0093	0.19%
Mn 257.610†	8604.8	0.0077	mg/L	0.00017	0.0038	mg/L	0.00008	2.17%
Na 589.592†	5313464.5	610.4	mg/L	0.81	305.2	mg/L	0.40	0.13%
Ni 231.604†	1251.4	0.0240	mg/L	0.00012	0.0120	mg/L	0.00006	0.48%
Pb 220.353†	-28.0	-0.0030	mg/L	0.00122	-0.0015	mg/L	0.00061	41.23%
Sb 206.836†	-11.9	-0.0062	mg/L	0.00030	-0.0031	mg/L	0.00015	4.74%
Se 196.026†	-22.5	-0.0052	mg/L	0.00581	-0.0026	mg/L	0.00291	112.31%
Tl 190.801†	-23.7	-0.0160	mg/L	0.00479	-0.0080	mg/L	0.00239	29.86%
V 292.402†	761.1	0.0058	mg/L	0.00119	0.0029	mg/L	0.00060	20.71%

Zn 213.857†	319.1	0.2611 mg/L	0.00555	0.1305 mg/L	0.00278 2.13%
Pb†	-8.7	-0.0862 mg/L	0.01668	-0.0431 mg/L	0.00834 19.34%
Ag 338.289†	-447.9	0.0004 mg/L	0.00013	0.0002 mg/L	0.00007 32.59%

Sequence No.: 25 **Autosampler Location:** 7
Sample ID: CCV **Date Collected:** 2/10/2015 1:08:32 PM
Analyst: **Data Type:** Original
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 75 **Auto Dilution Factor:** 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	236.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	1579866.0	0.9130	mg/L	0.00274				0.30%
Ag 328.068†	295688.3	1.230	mg/L	0.0001	1.230	mg/L	0.0001	0.01%
QC value within limits for Ag 328.068 Recovery = 98.40%								
Al 308.215†	5906.6	9.966	mg/L	0.0475	9.966	mg/L	0.0475	0.48%
QC value within limits for Al 308.215 Recovery = 99.66%								
As 188.979†	1289.9	0.4980	mg/L	0.00166	0.4980	mg/L	0.00166	0.33%
QC value within limits for As 188.979 Recovery = 99.60%								
Ba 233.527†	2239951.0	10.15	mg/L	0.006	10.15	mg/L	0.006	0.06%
QC value within limits for Ba 233.527 Recovery = 101.48%								
Be 313.107†	585241.7	0.2547	mg/L	0.00104	0.2547	mg/L	0.00104	0.41%
QC value within limits for Be 313.107 Recovery = 101.89%								
Ca 317.933†	127540.2	25.92	mg/L	0.016	25.92	mg/L	0.016	0.06%
QC value within limits for Ca 317.933 Recovery = 103.68%								
Cd 226.502†	23557.4	0.2564	mg/L	0.00127	0.2564	mg/L	0.00127	0.49%
QC value within limits for Cd 226.502 Recovery = 102.57%								
Co 228.616†	144439.5	2.618	mg/L	0.0004	2.618	mg/L	0.0004	0.02%
QC value within limits for Co 228.616 Recovery = 104.73%								
Cr 267.716†	136193.8	0.9885	mg/L	0.00327	0.9885	mg/L	0.00327	0.33%
QC value within limits for Cr 267.716 Recovery = 98.85%								
Cu 324.752†	351018.7	1.248	mg/L	0.0003	1.248	mg/L	0.0003	0.02%
QC value within limits for Cu 324.752 Recovery = 99.82%								
Fe 273.955†	2697.9	4.867	mg/L	0.0477	4.867	mg/L	0.0477	0.98%
QC value within limits for Fe 273.955 Recovery = 97.33%								
K 766.490†	76275.4	25.07	mg/L	0.036	25.07	mg/L	0.036	0.14%
QC value within limits for K 766.490 Recovery = 100.29%								
Mg 279.077†	610584.8	25.52	mg/L	0.033	25.52	mg/L	0.033	0.13%
QC value within limits for Mg 279.077 Recovery = 102.09%								
Mn 257.610†	2846075.5	2.535	mg/L	0.0020	2.535	mg/L	0.0020	0.08%
QC value within limits for Mn 257.610 Recovery = 101.40%								
Na 589.592†	222521.9	25.56	mg/L	0.039	25.56	mg/L	0.039	0.15%
QC value within limits for Na 589.592 Recovery = 102.25%								
Ni 231.604†	132999.5	2.553	mg/L	0.0071	2.553	mg/L	0.0071	0.28%
QC value within limits for Ni 231.604 Recovery = 102.13%								
Pb 220.353†	5856.3	0.5024	mg/L	0.00308	0.5024	mg/L	0.00308	0.61%
QC value within limits for Pb 220.353 Recovery = 100.48%								
Sb 206.836†	21161.3	5.136	mg/L	0.0126	5.136	mg/L	0.0126	0.24%
QC value within limits for Sb 206.836 Recovery = 102.73%								
Se 196.026†	1459.9	0.4997	mg/L	0.00551	0.4997	mg/L	0.00551	1.10%
QC value within limits for Se 196.026 Recovery = 99.95%								
Tl 190.801†	787.7	0.5249	mg/L	0.00261	0.5249	mg/L	0.00261	0.50%
QC value within limits for Tl 190.801 Recovery = 104.99%								
V 292.402†	470972.5	2.594	mg/L	0.0046	2.594	mg/L	0.0046	0.18%
QC value within limits for V 292.402 Recovery = 103.75%								
Zn 213.857†	3155.2	2.603	mg/L	0.0175	2.603	mg/L	0.0175	0.67%
QC value within limits for Zn 213.857 Recovery = 104.11%								
Pb†	45.8	0.4893	mg/L	0.00863	0.4893	mg/L	0.00863	1.76%
QC value within limits for Pb Recovery = 97.85%								
Ag 338.289†	137127.8	1.253	mg/L	0.0002	1.253	mg/L	0.0002	0.02%

All analyte(s) passed QC.

Sequence No.: 26
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 75

Autosampler Location: 1
Date Collected: 2/10/2015 1:12:51 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	236.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	1666340.8	0.9630	mg/L	0.00663				0.6%
Ag 328.068†	371.3	0.0015	mg/L	0.00053	0.0015	mg/L	0.00053	34.61%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-13.1	-0.0220	mg/L	0.00592	-0.0220	mg/L	0.00592	26.85%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	-0.8	-0.0003	mg/L	0.00002	-0.0003	mg/L	0.00002	5.09%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	80.6	0.0004	mg/L	0.00016	0.0004	mg/L	0.00016	44.57%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	83.1	0.0000	mg/L	0.00005	0.0000	mg/L	0.00005	124.70%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	-160.8	-0.0327	mg/L	0.00114	-0.0327	mg/L	0.00114	3.49%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 226.502†	6.4	0.0001	mg/L	0.00008	0.0001	mg/L	0.00008	111.65%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	3.5	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	15.04%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	38.4	0.0003	mg/L	0.00024	0.0003	mg/L	0.00024	86.08%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	-93.9	-0.0003	mg/L	0.00010	-0.0003	mg/L	0.00010	29.77%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 273.955†	1.4	0.0026	mg/L	0.00021	0.0026	mg/L	0.00021	7.85%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490†	233.0	0.0766	mg/L	0.02110	0.0766	mg/L	0.02110	27.55%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 279.077†	47.6	0.0020	mg/L	0.00680	0.0020	mg/L	0.00680	341.99%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	6.0	0.0000	mg/L	0.00000	0.0000	mg/L	0.00000	45.4%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Na 589.592†	-2780.0	-0.3194	mg/L	0.00871	-0.3194	mg/L	0.00871	2.73%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	32.2	0.0006	mg/L	0.00014	0.0006	mg/L	0.00014	21.99%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-0.4	-0.0000	mg/L	0.00030	-0.0000	mg/L	0.00030	>999.9%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	31.3	0.0076	mg/L	0.00189	0.0076	mg/L	0.00189	24.86%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	0.8	0.0003	mg/L	0.00576	0.0003	mg/L	0.00576	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Tl 190.801†	3.5	0.0025	mg/L	0.00186	0.0025	mg/L	0.00186	74.89%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	78.6	0.0004	mg/L	0.00007	0.0004	mg/L	0.00007	15.17%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 213.857†	3.1	0.0025	mg/L	0.00017	0.0025	mg/L	0.00017	6.88%
QC value within limits for Zn 213.857 Recovery = Not calculated								
Pb†	-2.2	-0.0238	mg/L	0.04840	-0.0238	mg/L	0.04840	203.73%
QC value within limits for Pb Recovery = Not calculated								
Ag 338.289†	44.1	0.0004	mg/L	0.00072	0.0004	mg/L	0.00072	179.28%

All analyte(s) passed QC.

Sequence No.: 27
Sample ID: 150412-02
Analyst: AMM
Initial Sample Wt:
Dilution: 5X

Autosampler Location: 47
Date Collected: 2/10/2015 1:17:02 PM
Data Type: Original
Initial Sample Vol: 50 mL
Sample Prep Vol: 25 mL

Wash Time: 75 Auto Dilution Factor: 1

Nebulizer Parameters: 150412-02

Analyte	Back Pressure	Flow
All	236.0 kPa	0.55 L/min

Mean Data: 150412-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	1226943.0	0.7090	mg/L	0.00141				0.20%
Ag 328.068†	596.4	-0.0007	mg/L	0.00023	-0.0016	mg/L	0.00058	35.26%
Al 308.215†	225.6	0.3807	mg/L	0.01942	0.9517	mg/L	0.04854	5.10%
As 188.979†	-169.5	-0.0580	mg/L	0.00183	-0.1451	mg/L	0.00457	3.15%
Ba 233.527†	7947.3	0.0360	mg/L	0.00008	0.0900	mg/L	0.00019	0.21%
Be 313.107†	-337.4	-0.0001	mg/L	0.00003	-0.0004	mg/L	0.00007	20.42%
Ca 317.933†	1180107.7	239.8	mg/L	0.36	599.6	mg/L	0.90	0.15%
Cd 226.502†	-482.1	-0.0071	mg/L	0.00007	-0.0178	mg/L	0.00017	0.95%
Co 228.616†	-166.1	-0.0030	mg/L	0.00018	-0.0075	mg/L	0.00044	5.85%
Cr 267.716†	3668.1	0.0267	mg/L	0.00013	0.0666	mg/L	0.00032	0.48%
Cu 324.752†	7169.4	0.0255	mg/L	0.00035	0.0638	mg/L	0.00089	1.39%
Fe 273.955†	245.7	0.4472	mg/L	0.00039	1.118	mg/L	0.0010	0.09%
K 766.490†	47424.5	15.59	mg/L	0.397	38.97	mg/L	0.993	2.55%
Mg 279.077†	117777.1	4.923	mg/L	0.0097	12.31	mg/L	0.024	0.20%
Mn 257.610†	37103.2	0.0330	mg/L	0.00004	0.0826	mg/L	0.00009	0.11%
Na 589.592†	Saturated2							
Ni 231.604†	361.7	0.0069	mg/L	0.00001	0.0174	mg/L	0.00003	0.15%
Pb 220.353†	92.8	0.0121	mg/L	0.00345	0.0302	mg/L	0.00863	28.54%
Sb 206.836†	38.2	0.0090	mg/L	0.00477	0.0226	mg/L	0.01192	52.72%
Se 196.026†	511.3	0.1910	mg/L	0.00536	0.4776	mg/L	0.01339	2.80%
Tl 190.801†	-328.1	-0.2271	mg/L	0.00765	-0.5676	mg/L	0.01912	3.37%
V 292.402†	588.8	0.0034	mg/L	0.00027	0.0086	mg/L	0.00068	7.90%
Zn 213.857†	126.6	0.0842	mg/L	0.00187	0.2104	mg/L	0.00468	2.22%
Pb†	-0.1	0.0482	mg/L	0.11391	0.1205	mg/L	0.28477	236.38%
Ag 338.289†	-1546.3	-0.0133	mg/L	0.00122	-0.0332	mg/L	0.00306	9.21%

Sequence No.: 28
Sample ID: 150414-04
Analyst: AMM
Initial Sample Wt:
Dilution:
Wash Time: 75

Autosampler Location: 48
Date Collected: 2/10/2015 1:21:18 PM
Data Type: Original
Initial Sample Vol: 50 mL
Sample Prep Vol: 25 mL
Auto Dilution Factor: 1

Nebulizer Parameters: 150414-04

Analyte	Back Pressure	Flow
All	240.0 kPa	0.55 L/min

Mean Data: 150414-04

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	1522832.6	0.8800	mg/L	0.00075				0.09%
Ag 328.068†	-1020.0	0.0001	mg/L	0.00008	0.0000	mg/L	0.00004	157.47%
Al 308.215†	52.8	0.0893	mg/L	0.01127	0.0447	mg/L	0.00564	12.62%
As 188.979†	-2.4	0.0021	mg/L	0.00696	0.0010	mg/L	0.00348	335.11%
Ba 233.527†	9066.9	0.0411	mg/L	0.00023	0.0205	mg/L	0.00011	0.56%
Be 313.107†	-304.5	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	12.79%
Ca 317.933†	253528.4	51.52	mg/L	0.115	25.76	mg/L	0.057	0.22%
Cd 226.502†	121.1	-0.0005	mg/L	0.00002	-0.0002	mg/L	0.00001	3.44%
Co 228.616†	772.4	0.0140	mg/L	0.00003	0.0070	mg/L	0.00002	0.24%
Cr 267.716†	13185.1	0.0960	mg/L	0.00008	0.0480	mg/L	0.00004	0.09%
Cu 324.752†	13456.2	0.0497	mg/L	0.00079	0.0249	mg/L	0.00040	1.59%
Fe 273.955†	8497.9	15.46	mg/L	0.065	7.732	mg/L	0.0324	0.42%
K 766.490†	13657.4	4.489	mg/L	0.0127	2.245	mg/L	0.0063	0.28%
Mg 279.077†	292465.6	12.23	mg/L	0.024	6.113	mg/L	0.0120	0.20%
Mn 257.610†	268315.7	0.2389	mg/L	0.00010	0.1195	mg/L	0.00005	0.04%
Na 589.592†	5198711.2	597.2	mg/L	1.48	298.6	mg/L	0.74	0.25%
Ni 231.604†	6842.2	0.1314	mg/L	0.00067	0.0657	mg/L	0.00034	0.51%
Pb 220.353†	327.8	0.0298	mg/L	0.00034	0.0149	mg/L	0.00017	1.14%

Sb 206.836†	-66.3	-0.0115	mg/L	0.00331	-0.0057	mg/L	0.00166	28.88%
Se 196.026†	-27.4	-0.0093	mg/L	0.00158	-0.0046	mg/L	0.00079	17.00%
Tl 190.801†	-21.3	-0.0128	mg/L	0.00475	-0.0064	mg/L	0.00238	37.09%
V 292.402†	487.5	0.0034	mg/L	0.00023	0.0017	mg/L	0.00011	6.63%
Zn 213.857†	97.6	0.0745	mg/L	0.00156	0.0373	mg/L	0.00078	2.09%
Pb†	-1.2	-0.0024	mg/L	0.02825	-0.0012	mg/L	0.01412	>999.9%
Ag 338.289†	-192.2	0.0003	mg/L	0.00210	0.0001	mg/L	0.00105	716.83%

Sequence No.: 29
Sample ID: 150415-04
Analyst: AMM
Initial Sample Wt:
Dilution:
Wash Time: 75

Autosampler Location: 49
Date Collected: 2/10/2015 1:25:39 PM
Data Type: Original
Initial Sample Vol: 50 mL
Sample Prep Vol: 25 mL
Auto Dilution Factor: 1

Nebulizer Parameters: 150415-04

Analyte	Back Pressure	Flow
All	238.0 kPa	0.55 L/min

Mean Data: 150415-04

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	1636262.6	0.9456	mg/L	0.00898				0.95%
Ag 328.068†	86.3	-0.0006	mg/L	0.00002	-0.0003	mg/L	0.00001	3.41%
Al 308.215†	23866.9	40.29	mg/L	0.218	20.14	mg/L	0.109	0.54%
As 188.979†	10.5	0.0063	mg/L	0.00121	0.0031	mg/L	0.00061	19.36%
Ba 233.527†	9954.5	0.0451	mg/L	0.00055	0.0225	mg/L	0.00028	1.22%
Be 313.107†	-54.3	-0.0000	mg/L	0.00001	-0.0000	mg/L	0.00001	960.70%
Ca 317.933†	341385.0	69.38	mg/L	0.832	34.69	mg/L	0.416	1.20%
Cd 226.502†	149.7	0.0007	mg/L	0.00016	0.0003	mg/L	0.00008	23.53%
Co 228.616†	158.2	0.0029	mg/L	0.00018	0.0014	mg/L	0.00009	6.15%
Cr 267.716†	17496.7	0.1271	mg/L	0.00125	0.0636	mg/L	0.00063	0.98%
Cu 324.752†	26293.4	0.0936	mg/L	0.00007	0.0468	mg/L	0.00003	0.07%
Fe 273.955†	814.0	1.481	mg/L	0.0191	0.7407	mg/L	0.00955	1.29%
K 766.490†	11550.2	3.797	mg/L	0.0054	1.898	mg/L	0.0027	0.14%
Mg 279.077†	420965.1	17.60	mg/L	0.021	8.798	mg/L	0.0107	0.12%
Mn 257.610†	48314.1	0.0430	mg/L	0.00006	0.0215	mg/L	0.00003	0.15%
Na 589.592†	1026867.1	118.0	mg/L	1.82	58.98	mg/L	0.908	1.54%
Ni 231.604†	12305.7	0.2362	mg/L	0.00213	0.1181	mg/L	0.00107	0.90%
Pb 220.353†	841.2	0.0586	mg/L	0.00207	0.0293	mg/L	0.00104	3.53%
Sb 206.836†	-19.0	0.0056	mg/L	0.00030	0.0028	mg/L	0.00015	5.41%
Se 196.026†	-68.6	-0.0180	mg/L	0.00576	-0.0090	mg/L	0.00288	31.98%
Tl 190.801†	-17.3	-0.0140	mg/L	0.01039	-0.0070	mg/L	0.00520	74.16%
V 292.402†	924.9	0.0060	mg/L	0.00023	0.0030	mg/L	0.00011	3.77%
Zn 213.857†	274.1	0.2201	mg/L	0.00178	0.1100	mg/L	0.00089	0.81%
Pb†	-0.3	-0.0095	mg/L	0.01861	-0.0048	mg/L	0.00931	195.3%
Ag 338.289†	-512.8	-0.0019	mg/L	0.00015	-0.0010	mg/L	0.00008	7.84%

Sequence No.: 30
Sample ID: 150415-04 dup
Analyst: AMM
Initial Sample Wt:
Dilution:
Wash Time: 75

Autosampler Location: 50
Date Collected: 2/10/2015 1:29:58 PM
Data Type: Original
Initial Sample Vol: 50 mL
Sample Prep Vol: 25 mL
Auto Dilution Factor: 1

Nebulizer Parameters: 150415-04 dup

Analyte	Back Pressure	Flow
All	237.0 kPa	0.55 L/min

Mean Data: 150415-04 dup

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	1615851.6	0.9338	mg/L	0.00718				0.77%
Ag 328.068†	123.4	-0.0005	mg/L	0.00019	-0.0002	mg/L	0.00009	40.99%
Al 308.215†	24116.3	40.71	mg/L	0.535	20.35	mg/L	0.268	1.32%
As 188.979†	6.2	0.0046	mg/L	0.00072	0.0023	mg/L	0.00036	15.68%

Ba 233.527†	10003.7	0.0453 mg/L	0.00051	0.0227 mg/L	0.00026	1.14%
Be 313.107†	26.5	0.0000 mg/L	0.00003	0.0000 mg/L	0.00002	89.99%
Ca 317.933†	343289.8	69.77 mg/L	0.555	34.88 mg/L	0.277	0.80%
Cd 226.502†	146.2	0.0006 mg/L	0.00005	0.0003 mg/L	0.00003	8.18%
Co 228.616†	156.9	0.0028 mg/L	0.00034	0.0014 mg/L	0.00017	11.83%
Cr 267.716†	17561.5	0.1276 mg/L	0.00079	0.0638 mg/L	0.00039	0.62%
Cu 324.752†	25927.0	0.0923 mg/L	0.00021	0.0462 mg/L	0.00011	0.23%
Fe 273.955†	831.6	1.513 mg/L	0.0036	0.7567 mg/L	0.00179	0.24%
K 766.490†	11263.3	3.702 mg/L	0.0371	1.851 mg/L	0.0185	1.00%
Mg 279.077†	418573.1	17.50 mg/L	0.009	8.748 mg/L	0.0046	0.05%
Mn 257.610†	48033.7	0.0428 mg/L	0.00004	0.0214 mg/L	0.00002	0.10%
Na 589.592†	1013792.3	116.5 mg/L	1.15	58.23 mg/L	0.577	0.99%
Ni 231.604†	12423.7	0.2385 mg/L	0.00226	0.1193 mg/L	0.00113	0.95%
Pb 220.353†	844.6	0.0588 mg/L	0.00021	0.0294 mg/L	0.00011	0.36%
Sb 206.836†	-38.5	0.0010 mg/L	0.00093	0.0005 mg/L	0.00046	92.89%
Se 196.026†	-52.2	-0.0123 mg/L	0.00525	-0.0061 mg/L	0.00263	42.69%
Tl 190.801†	-13.1	-0.0111 mg/L	0.00164	-0.0055 mg/L	0.00082	14.83%
V 292.402†	937.6	0.0061 mg/L	0.00050	0.0031 mg/L	0.00025	8.22%
Zn 213.857†	278.9	0.2241 mg/L	0.00880	0.1120 mg/L	0.00440	3.93%
Pb†	5.5	0.0520 mg/L	0.00684	0.0260 mg/L	0.00342	13.16%
Ag 338.289†	-681.1	-0.0034 mg/L	0.00225	-0.0017 mg/L	0.00113	65.95%

Sequence No.: 31
Sample ID: 140415-04 spk
Analyst: AMM
Initial Sample Wt:
Dilution:
Wash Time: 75

Autosampler Location: 51
Date Collected: 2/10/2015 1:34:15 PM
Data Type: Original
Initial Sample Vol: 50 mL
Sample Prep Vol: 25 mL
Auto Dilution Factor: 1

Nebulizer Parameters: 140415-04 spk

Analyte	Back Pressure	Flow
All	237.0 kPa	0.55 L/min

Mean Data: 140415-04 spk

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	1536159.9	0.8877	mg/L	0.00295				0.33%
Ag 328.068†	58761.2	0.2440	mg/L	0.00026	0.1220	mg/L	0.00013	0.11%
Al 308.215†	25992.3	43.88	mg/L	0.013	21.94	mg/L	0.007	0.03%
As 188.979†	6384.0	2.464	mg/L	0.0017	1.232	mg/L	0.0009	0.07%
Ba 233.527†	561946.7	2.546	mg/L	0.0026	1.273	mg/L	0.0013	0.10%
Be 313.107†	1135661.1	0.4944	mg/L	0.00046	0.2472	mg/L	0.00023	0.09%
Ca 317.933†	371089.7	75.42	mg/L	0.153	37.71	mg/L	0.077	0.20%
Cd 226.502†	90780.9	0.9904	mg/L	0.00332	0.4952	mg/L	0.00166	0.33%
Co 228.616†	61296.6	1.111	mg/L	0.0071	0.5555	mg/L	0.00357	0.64%
Cr 267.716†	353119.9	2.565	mg/L	0.0015	1.283	mg/L	0.0008	0.06%
Cu 324.752†	726128.3	2.580	mg/L	0.0000	1.290	mg/L	0.0000	0.00%
Fe 273.955†	2161.8	3.921	mg/L	0.0205	1.960	mg/L	0.0102	0.52%
K 766.490†	145368.6	47.78	mg/L	0.147	23.89	mg/L	0.073	0.31%
Mg 279.077†	624652.3	26.11	mg/L	0.055	13.06	mg/L	0.027	0.21%
Mn 257.610†	1168061.8	1.040	mg/L	0.0012	0.5202	mg/L	0.00059	0.11%
Na 589.592†	1130231.0	129.8	mg/L	0.39	64.92	mg/L	0.194	0.30%
Ni 231.604†	284907.3	5.469	mg/L	0.0091	2.735	mg/L	0.0045	0.17%
Pb 220.353†	29513.4	2.506	mg/L	0.0143	1.253	mg/L	0.0072	0.57%
Sb 206.836†	10492.2	2.515	mg/L	0.0108	1.258	mg/L	0.0054	0.43%
Se 196.026†	6957.0	2.406	mg/L	0.0272	1.203	mg/L	0.0136	1.13%
Tl 190.801†	3386.3	2.416	mg/L	0.0177	1.208	mg/L	0.0088	0.73%
V 292.402†	177843.0	0.9959	mg/L	0.00013	0.4980	mg/L	0.00007	0.01%
Zn 213.857†	3453.0	2.832	mg/L	0.0146	1.416	mg/L	0.0073	0.52%
Pb†	228.0	2.427	mg/L	0.0199	1.213	mg/L	0.0099	0.82%
Ag 338.289†	24171.2	0.2719	mg/L	0.00064	0.1360	mg/L	0.00032	0.24%

Sequence No.: 32
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 75

Autosampler Location: 7
Date Collected: 2/10/2015 1:37:59 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	237.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	1565446.7	0.9047	mg/L	0.00504				0.56%
Ag 328.068†	296187.6	1.232	mg/L	0.0001	1.232	mg/L	0.0001	0.00%
QC value within limits for Ag 328.068 Recovery = 98.56%								
Al 308.215†	5899.1	9.953	mg/L	0.0728	9.953	mg/L	0.0728	0.73%
QC value within limits for Al 308.215 Recovery = 99.53%								
As 188.979†	1268.9	0.4899	mg/L	0.00454	0.4899	mg/L	0.00454	0.93%
QC value within limits for As 188.979 Recovery = 97.97%								
Ba 233.527†	2230465.7	10.11	mg/L	0.009	10.11	mg/L	0.009	0.09%
QC value within limits for Ba 233.527 Recovery = 101.05%								
Be 313.107†	584213.1	0.2543	mg/L	0.00118	0.2543	mg/L	0.00118	0.46%
QC value within limits for Be 313.107 Recovery = 101.71%								
Ca 317.933†	125409.3	25.49	mg/L	0.096	25.49	mg/L	0.096	0.38%
QC value within limits for Ca 317.933 Recovery = 101.95%								
Cd 226.502†	24989.0	0.2721	mg/L	0.00223	0.2721	mg/L	0.00223	0.82%
QC value within limits for Cd 226.502 Recovery = 108.84%								
Co 228.616†	143510.7	2.601	mg/L	0.0017	2.601	mg/L	0.0017	0.06%
QC value within limits for Co 228.616 Recovery = 104.05%								
Cr 267.716†	135492.8	0.9834	mg/L	0.00060	0.9834	mg/L	0.00060	0.06%
QC value within limits for Cr 267.716 Recovery = 98.34%								
Cu 324.752†	352254.0	1.252	mg/L	0.0009	1.252	mg/L	0.0009	0.07%
QC value within limits for Cu 324.752 Recovery = 100.17%								
Fe 273.955†	2666.7	4.810	mg/L	0.0297	4.810	mg/L	0.0297	0.62%
QC value within limits for Fe 273.955 Recovery = 96.20%								
K 766.490†	76356.3	25.10	mg/L	0.037	25.10	mg/L	0.037	0.1[illegible]%
QC value within limits for K 766.490 Recovery = 100.40%								
Mg 279.077†	605180.4	25.30	mg/L	0.020	25.30	mg/L	0.020	0.08%
QC value within limits for Mg 279.077 Recovery = 101.19%								
Mn 257.610†	2835899.3	2.526	mg/L	0.0002	2.526	mg/L	0.0002	0.01%
QC value within limits for Mn 257.610 Recovery = 101.04%								
Na 589.592†	219576.8	25.22	mg/L	0.072	25.22	mg/L	0.072	0.29%
QC value within limits for Na 589.592 Recovery = 100.90%								
Ni 231.604†	131989.4	2.534	mg/L	0.0095	2.534	mg/L	0.0095	0.38%
QC value within limits for Ni 231.604 Recovery = 101.35%								
Pb 220.353†	5760.3	0.4942	mg/L	0.00451	0.4942	mg/L	0.00451	0.91%
QC value within limits for Pb 220.353 Recovery = 98.83%								
Sb 206.836†	21010.6	5.100	mg/L	0.0557	5.100	mg/L	0.0557	1.09%
QC value within limits for Sb 206.836 Recovery = 102.00%								
Se 196.026†	1439.6	0.4928	mg/L	0.00231	0.4928	mg/L	0.00231	0.47%
QC value within limits for Se 196.026 Recovery = 98.55%								
Tl 190.801†	796.0	0.5311	mg/L	0.00025	0.5311	mg/L	0.00025	0.05%
QC value within limits for Tl 190.801 Recovery = 106.22%								
V 292.402†	469875.4	2.588	mg/L	0.0040	2.588	mg/L	0.0040	0.16%
QC value within limits for V 292.402 Recovery = 103.50%								
Zn 213.857†	3141.7	2.592	mg/L	0.0203	2.592	mg/L	0.0203	0.79%
QC value within limits for Zn 213.857 Recovery = 103.67%								
Pb†	42.5	0.4535	mg/L	0.01115	0.4535	mg/L	0.01115	2.46%
QC value within limits for Pb Recovery = 90.70%								
Ag 338.289†	137191.7	1.254	mg/L	0.0004	1.254	mg/L	0.0004	0.03%

All analyte(s) passed QC.

Sequence No.: 33
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 75

Autosampler Location: 1
Date Collected: 2/10/2015 1:42:16 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	237.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	1614150.8	0.9328	mg/L	0.00546				0.59%
Ag 328.068†	196.5	0.0008	mg/L	0.00032	0.0008	mg/L	0.00032	39.27%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	3.9	0.0066	mg/L	0.00745	0.0066	mg/L	0.00745	113.46%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	-2.8	-0.0011	mg/L	0.00010	-0.0011	mg/L	0.00010	9.19%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	77.1	0.0003	mg/L	0.00000	0.0003	mg/L	0.00000	1.39%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	1.1	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	>999.9%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	-162.6	-0.0330	mg/L	0.00326	-0.0330	mg/L	0.00326	9.85%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 226.502†	11.4	0.0001	mg/L	0.00000	0.0001	mg/L	0.00000	0.21%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	7.3	0.0001	mg/L	0.00016	0.0001	mg/L	0.00016	117.37%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	17.0	0.0001	mg/L	0.00019	0.0001	mg/L	0.00019	157.12%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	-88.0	-0.0003	mg/L	0.00026	-0.0003	mg/L	0.00026	84.50%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 273.955†	1.9	0.0035	mg/L	0.00089	0.0035	mg/L	0.00089	25.72%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490†	48.6	0.0160	mg/L	0.04757	0.0160	mg/L	0.04757	297.80%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 279.077†	96.7	0.0040	mg/L	0.00315	0.0040	mg/L	0.00315	77.86%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	70.4	0.0001	mg/L	0.00006	0.0001	mg/L	0.00006	93.87%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Na 589.592†	-7991.7	-0.9181	mg/L	0.00532	-0.9181	mg/L	0.00532	0.58%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	22.1	0.0004	mg/L	0.00025	0.0004	mg/L	0.00025	59.63%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-0.9	-0.0001	mg/L	0.00158	-0.0001	mg/L	0.00158	>999.9%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	23.6	0.0057	mg/L	0.00357	0.0057	mg/L	0.00357	62.22%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-0.6	-0.0002	mg/L	0.00172	-0.0002	mg/L	0.00172	860.22%
QC value within limits for Se 196.026 Recovery = Not calculated								
Tl 190.801†	2.3	0.0016	mg/L	0.00663	0.0016	mg/L	0.00663	407.74%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	107.3	0.0006	mg/L	0.00008	0.0006	mg/L	0.00008	14.11%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 213.857†	2.6	0.0021	mg/L	0.00150	0.0021	mg/L	0.00150	70.43%
QC value within limits for Zn 213.857 Recovery = Not calculated								
Pb†	0.4	0.0044	mg/L	0.01398	0.0044	mg/L	0.01398	314.69%
QC value within limits for Pb Recovery = Not calculated								
Ag 338.289†	-190.7	-0.0017	mg/L	0.00186	-0.0017	mg/L	0.00186	109.09%

All analyte(s) passed QC.

Sequence No.: 34 **Autosampler Location: 2**
Sample ID: LLREF **Date Collected: 2/10/2015 1:46:32 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 75 **Auto Dilution Factor: 1**

Nebulizer Parameters: LLREF

Analyte	Back Pressure	Flow
All	237.0 kPa	0.55 L/min

Mean Data: LLREF

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD

Y 371.029	1665274.3	0.9623 mg/L	0.00402				0.42%
Ag 328.068†	2807.5	0.0117 mg/L	0.00043	0.0117 mg/L	0.00043		3.66%
QC value within limits for Ag 328.068 Recovery = 116.60%							
Al 308.215†	111.6	0.1887 mg/L	0.00592	0.1887 mg/L	0.00592		3.14%
QC value within limits for Al 308.215 Recovery = 94.36%							
As 188.979†	19.8	0.0077 mg/L	0.00032	0.0077 mg/L	0.00032		4.18%
QC value within limits for As 188.979 Recovery = 77.16%							
Ba 233.527†	24413.7	0.1106 mg/L	0.00257	0.1106 mg/L	0.00257		2.32%
QC value within limits for Ba 233.527 Recovery = 110.61%							
Be 313.107†	11870.6	0.0052 mg/L	0.00001	0.0052 mg/L	0.00001		0.29%
QC value within limits for Be 313.107 Recovery = 103.31%							
Ca 317.933†	12560.1	2.553 mg/L	0.0145	2.553 mg/L	0.0145		0.57%
QC value within limits for Ca 317.933 Recovery = 102.10%							
Cd 226.502†	506.5	0.0055 mg/L	0.00009	0.0055 mg/L	0.00009		1.57%
QC value within limits for Cd 226.502 Recovery = 110.05%							
Co 228.616†	3113.3	0.0564 mg/L	0.00026	0.0564 mg/L	0.00026		0.45%
QC value within limits for Co 228.616 Recovery = 112.86%							
Cr 267.716†	1598.9	0.0116 mg/L	0.00014	0.0116 mg/L	0.00014		1.20%
QC value within limits for Cr 267.716 Recovery = 116.06%							
Cu 324.752†	7430.7	0.0264 mg/L	0.00006	0.0264 mg/L	0.00006		0.21%
QC value within limits for Cu 324.752 Recovery = 105.65%							
Fe 273.955†	49.6	0.0899 mg/L	0.01424	0.0899 mg/L	0.01424		15.85%
QC value within limits for Fe 273.955 Recovery = 89.86%							
K 766.490†	7966.2	2.619 mg/L	0.0148	2.619 mg/L	0.0148		0.56%
QC value within limits for K 766.490 Recovery = 104.74%							
Mg 279.077†	63504.2	2.654 mg/L	0.0469	2.654 mg/L	0.0469		1.77%
QC value within limits for Mg 279.077 Recovery = 106.18%							
Mn 257.610†	16880.5	0.0150 mg/L	0.00037	0.0150 mg/L	0.00037		2.47%
QC value within limits for Mn 257.610 Recovery = 100.25%							
Na 589.592†	14547.0	1.671 mg/L	0.0145	1.671 mg/L	0.0145		0.87%
QC value less than the lower limit for Na 589.592 Recovery = 66.85%							
Ni 231.604†	2359.1	0.0453 mg/L	0.00028	0.0453 mg/L	0.00028		0.62%
QC value within limits for Ni 231.604 Recovery = 113.22%							
Pb 220.353†	159.5	0.0137 mg/L	0.00163	0.0137 mg/L	0.00163		11.93%
QC value greater than the upper limit for Pb 220.353 Recovery = 136.71%							
Sb 206.836†	235.8	0.0573 mg/L	0.00364	0.0573 mg/L	0.00364		6.36%
QC value within limits for Sb 206.836 Recovery = 95.45%							
Se 196.026†	32.4	0.0112 mg/L	0.00842	0.0112 mg/L	0.00842		74.95%
QC value within limits for Se 196.026 Recovery = 112.39%							
Tl 190.801†	40.2	0.0283 mg/L	0.00258	0.0283 mg/L	0.00258		9.13%
QC value within limits for Tl 190.801 Recovery = 113.19%							
V 292.402†	4871.1	0.0268 mg/L	0.00124	0.0268 mg/L	0.00124		4.67%
QC value within limits for V 292.402 Recovery = 107.34%							
Zn 213.857†	85.4	0.0704 mg/L	0.00164	0.0704 mg/L	0.00164		2.33%
QC value within limits for Zn 213.857 Recovery = 117.35%							
Pb†	2.3	0.0252 mg/L	0.08373	0.0252 mg/L	0.08373		331.98%
Ag 338.289†	1077.4	0.0099 mg/L	0.00018	0.0099 mg/L	0.00018		1.78%

QC Failed. Continue with analysis.

==========

Sequence No.: 35 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 2/10/2015 1:50:50 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 75 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	237.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	1576292.5	0.9109	mg/L	0.00425				0.47%
Ag 328.068†	296269.0	1.232	mg/L	0.0003	1.232	mg/L	0.0003	0.02%
QC value within limits for Ag 328.068 Recovery = 98.59%								
Al 308.215†	5835.2	9.845	mg/L	0.0693	9.845	mg/L	0.0693	0.70%
QC value within limits for Al 308.215 Recovery = 98.45%								
As 188.979†	1284.7	0.4960	mg/L	0.00707	0.4960	mg/L	0.00707	1.43%

QC value within limits for As 188.979 Recovery = 99.20%						
Ba 233.527†	2238703.0	10.14 mg/L	0.010	10.14 mg/L	0.010	0.09%
QC value within limits for Ba 233.527 Recovery = 101.43%						
Be 313.107†	585039.7	0.2546 mg/L	0.00020	0.2546 mg/L	0.00020	0.08%
QC value within limits for Be 313.107 Recovery = 101.86%						
Ca 317.933†	126039.7	25.61 mg/L	0.144	25.61 mg/L	0.144	0.56%
QC value within limits for Ca 317.933 Recovery = 102.46%						
Cd 226.502†	23542.6	0.2563 mg/L	0.00063	0.2563 mg/L	0.00063	0.25%
QC value within limits for Cd 226.502 Recovery = 102.51%						
Co 228.616†	143862.6	2.608 mg/L	0.0022	2.608 mg/L	0.0022	0.08%
QC value within limits for Co 228.616 Recovery = 104.31%						
Cr 267.716†	136243.9	0.9889 mg/L	0.00312	0.9889 mg/L	0.00312	0.32%
QC value within limits for Cr 267.716 Recovery = 98.89%						
Cu 324.752†	351409.4	1.249 mg/L	0.0011	1.249 mg/L	0.0011	0.08%
QC value within limits for Cu 324.752 Recovery = 99.94%						
Fe 273.955†	2683.0	4.839 mg/L	0.0515	4.839 mg/L	0.0515	1.06%
QC value within limits for Fe 273.955 Recovery = 96.79%						
K 766.490†	76640.7	25.19 mg/L	0.171	25.19 mg/L	0.171	0.68%
QC value within limits for K 766.490 Recovery = 100.77%						
Mg 279.077†	608298.5	25.43 mg/L	0.015	25.43 mg/L	0.015	0.06%
QC value within limits for Mg 279.077 Recovery = 101.71%						
Mn 257.610†	2843642.6	2.533 mg/L	0.0021	2.533 mg/L	0.0021	0.08%
QC value within limits for Mn 257.610 Recovery = 101.31%						
Na 589.592†	217578.2	25.00 mg/L	0.169	25.00 mg/L	0.169	0.68%
QC value within limits for Na 589.592 Recovery = 99.98%						
Ni 231.604†	132610.7	2.546 mg/L	0.0005	2.546 mg/L	0.0005	0.02%
QC value within limits for Ni 231.604 Recovery = 101.83%						
Pb 220.353†	5825.7	0.4998 mg/L	0.00197	0.4998 mg/L	0.00197	0.39%
QC value within limits for Pb 220.353 Recovery = 99.96%						
Sb 206.836†	21152.7	5.134 mg/L	0.0242	5.134 mg/L	0.0242	0.47%
QC value within limits for Sb 206.836 Recovery = 102.68%						
Se 196.026†	1445.1	0.4946 mg/L	0.00045	0.4946 mg/L	0.00045	0.09%
QC value within limits for Se 196.026 Recovery = 98.93%						
Tl 190.801†	788.0	0.5253 mg/L	0.00561	0.5253 mg/L	0.00561	1.07%
QC value within limits for Tl 190.801 Recovery = 105.06%						
V 292.402†	471037.3	2.594 mg/L	0.0035	2.594 mg/L	0.0035	0.13%
QC value within limits for V 292.402 Recovery = 103.76%						
Zn 213.857†	3144.3	2.594 mg/L	0.0139	2.594 mg/L	0.0139	0.54%
QC value within limits for Zn 213.857 Recovery = 103.75%						
Pb†	42.1	0.4493 mg/L	0.02625	0.4493 mg/L	0.02625	5.84%
QC value less than the lower limit for Pb Recovery = 89.86%						
Ag 338.289†	137187.7	1.254 mg/L	0.0004	1.254 mg/L	0.0004	0.03%

QC Failed. Continue with analysis.

Sequence No.: 36 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 2/10/2015 1:55:07 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 75 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	237.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	1633280.9	0.9439 mg/L	0.00940			1.00%
Ag 328.068†	288.8	0.0012 mg/L	0.00056	0.0012 mg/L	0.00056	46.39%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 308.215†	-5.7	-0.0096 mg/L	0.02583	-0.0096 mg/L	0.02583	268.88%
QC value within limits for Al 308.215 Recovery = Not calculated						
As 188.979†	0.3	0.0001 mg/L	0.00214	0.0001 mg/L	0.00214	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated						
Ba 233.527†	116.8	0.0005 mg/L	0.00000	0.0005 mg/L	0.00000	0.40%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	31.6	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	119.56%
QC value within limits for Be 313.107 Recovery = Not calculated						

Ca 317.933†	-145.8	-0.0296 mg/L	0.00374	-0.0296 mg/L	0.00374	12.63%
QC value within limits for Ca 317.933 Recovery = Not calculated						
Cd 226.502†	10.1	0.0001 mg/L	0.00009	0.0001 mg/L	0.00009	82.61%
QC value within limits for Cd 226.502 Recovery = Not calculated						
Co 228.616†	8.4	0.0002 mg/L	0.00003	0.0002 mg/L	0.00003	21.03%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	27.3	0.0002 mg/L	0.00006	0.0002 mg/L	0.00006	29.20%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	53.6	0.0002 mg/L	0.00018	0.0002 mg/L	0.00018	95.49%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 273.955†	1.6	0.0030 mg/L	0.00267	0.0030 mg/L	0.00267	90.13%
QC value within limits for Fe 273.955 Recovery = Not calculated						
K 766.490†	92.5	0.0304 mg/L	0.00385	0.0304 mg/L	0.00385	12.64%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 279.077†	-25.0	-0.0010 mg/L	0.00385	-0.0010 mg/L	0.00385	367.53%
QC value within limits for Mg 279.077 Recovery = Not calculated						
Mn 257.610†	104.6	0.0001 mg/L	0.00003	0.0001 mg/L	0.00003	34.63%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Na 589.592†	-9293.9	-1.068 mg/L	0.0028	-1.068 mg/L	0.0028	0.26%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	25.9	0.0005 mg/L	0.00018	0.0005 mg/L	0.00018	36.14%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	19.2	0.0016 mg/L	0.00090	0.0016 mg/L	0.00090	54.8%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	14.4	0.0035 mg/L	0.00083	0.0035 mg/L	0.00083	23.8%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-1.0	-0.0004 mg/L	0.00166	-0.0004 mg/L	0.00166	472.90%
QC value within limits for Se 196.026 Recovery = Not calculated						
Tl 190.801†	2.5	0.0018 mg/L	0.00076	0.0018 mg/L	0.00076	41.96%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	80.6	0.0004 mg/L	0.00024	0.0004 mg/L	0.00024	53.58%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	3.3	0.0027 mg/L	0.00277	0.0027 mg/L	0.00277	101.38%
QC value within limits for Zn 213.857 Recovery = Not calculated						
Pb†	0.2	0.0023 mg/L	0.04571	0.0023 mg/L	0.04571	>999.9%
QC value within limits for Pb Recovery = Not calculated						
Ag 338.289†	-89.0	-0.0008 mg/L	0.00015	-0.0008 mg/L	0.00015	19.08%

All analyte(s) passed QC.

Sequence No.: 37
Sample ID: Blk 2/9 w
Analyst: AMM
Initial Sample Wt:
Dilution:
Wash Time: 75

Autosampler Location: 52
Date Collected: 2/10/2015 1:59:23 PM
Data Type: Original
Initial Sample Vol: 50 mL
Sample Prep Vol: 50 mL
Auto Dilution Factor: 1

Nebulizer Parameters: Blk 2/9 w

Analyte	Back Pressure	Flow
All	237.0 kPa	0.55 L/min

Mean Data: Blk 2/9 w

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	1696662.1	0.9805	mg/L	0.00099				0.10%
Ag 328.068†	201.0	0.0008	mg/L	0.00002	0.0008	mg/L	0.00002	2.71%
Al 308.215†	-16.8	-0.0284	mg/L	0.00003	-0.0284	mg/L	0.00003	0.10%
As 188.979†	-7.2	-0.0028	mg/L	0.00275	-0.0028	mg/L	0.00275	98.92%
Ba 233.527†	-73.3	-0.0003	mg/L	0.00009	-0.0003	mg/L	0.00009	27.13%
Be 313.107†	51.5	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	61.57%
Ca 317.933†	-165.7	-0.0337	mg/L	0.00542	-0.0337	mg/L	0.00542	16.10%
Cd 226.502†	18.6	0.0002	mg/L	0.00004	0.0002	mg/L	0.00004	17.43%
Co 228.616†	6.5	0.0001	mg/L	0.00005	0.0001	mg/L	0.00005	43.27%
Cr 267.716†	-4.6	-0.0000	mg/L	0.00035	-0.0000	mg/L	0.00035	>999.9%
Cu 324.752†	76.5	0.0003	mg/L	0.00012	0.0003	mg/L	0.00012	45.55%
Fe 273.955†	3.9	0.0071	mg/L	0.02046	0.0071	mg/L	0.02046	290.09%
K 766.490†	38.2	0.0125	mg/L	0.01838	0.0125	mg/L	0.01838	146.43%
Mg 279.077†	347.6	0.0145	mg/L	0.00352	0.0145	mg/L	0.00352	24.26%
Mn 257.610†	-177.6	-0.0002	mg/L	0.00000	-0.0002	mg/L	0.00000	0.50%
Na 589.592†	-2515.2	-0.2889	mg/L	0.00635	-0.2889	mg/L	0.00635	2.20%

Ni 231.604†	4.9	0.0001 mg/L	0.00005	0.0001 mg/L	0.00005	51.78%
Pb 220.353†	9.0	0.0008 mg/L	0.00008	0.0008 mg/L	0.00008	9.91%
Sb 206.836†	-15.6	-0.0038 mg/L	0.00247	-0.0038 mg/L	0.00247	65.03%
Se 196.026†	3.7	0.0013 mg/L	0.00520	0.0013 mg/L	0.00520	407.15%
Tl 190.801†	1.8	0.0013 mg/L	0.00540	0.0013 mg/L	0.00540	409.97%
V 292.402†	-11.3	-0.0001 mg/L	0.00039	-0.0001 mg/L	0.00039	625.48%
Zn 213.857†	5.3	0.0044 mg/L	0.00251	0.0044 mg/L	0.00251	56.66%
Pb†	-3.2	-0.0344 mg/L	0.04742	-0.0344 mg/L	0.04742	137.82%
Ag 338.289†	-48.3	-0.0004 mg/L	0.00006	-0.0004 mg/L	0.00006	12.77%

Sequence No.: 38
Sample ID: lcs
Analyst: AMM
Initial Sample Wt:
Dilution:
Wash Time: 75

Autosampler Location: 53
Date Collected: 2/10/2015 2:03:36 PM
Data Type: Original
Initial Sample Vol: 50 mL
Sample Prep Vol: 50 mL
Auto Dilution Factor: 1

Nebulizer Parameters: lcs

Analyte	Back Pressure	Flow
All	237.0 kPa	0.55 L/min

Mean Data: lcs

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	1621575.8	0.9371	mg/L	0.00183				0.20%
Ag 328.068†	59269.0	0.2471	mg/L	0.00070	0.2471	mg/L	0.00070	0.28%
Al 308.215†	1527.8	2.579	mg/L	0.0178	2.579	mg/L	0.0178	0.69%
As 188.979†	6300.6	2.429	mg/L	0.0383	2.429	mg/L	0.0383	1.58%
Ba 233.527†	561566.8	2.544	mg/L	0.0040	2.544	mg/L	0.0040	0.16%
Be 313.107†	1142158.7	0.4972	mg/L	0.00069	0.4972	mg/L	0.00069	0.14%
Ca 317.933†	20418.0	4.149	mg/L	0.0166	4.149	mg/L	0.0166	0.40%
Cd 226.502†	95676.7	1.045	mg/L	0.0055	1.045	mg/L	0.0055	0.52%
Co 228.616†	62559.0	1.134	mg/L	0.0102	1.134	mg/L	0.0102	0.90%
Cr 267.716†	344620.1	2.503	mg/L	0.0043	2.503	mg/L	0.0043	0.17%
Cu 324.752†	715688.6	2.543	mg/L	0.0039	2.543	mg/L	0.0039	0.15%
Fe 273.955†	1317.8	2.385	mg/L	0.0131	2.385	mg/L	0.0131	0.55%
K 766.490†	132043.8	43.40	mg/L	0.030	43.40	mg/L	0.030	0.07%
Mg 279.077†	197345.5	8.249	mg/L	0.0259	8.249	mg/L	0.0259	0.31%
Mn 257.610†	1120556.9	0.9980	mg/L	0.00123	0.9980	mg/L	0.00123	0.12%
Na 589.592†	101661.1	11.68	mg/L	0.017	11.68	mg/L	0.017	0.14%
Ni 231.604†	282981.5	5.432	mg/L	0.0271	5.432	mg/L	0.0271	0.50%
Pb 220.353†	29784.1	2.543	mg/L	0.0128	2.543	mg/L	0.0128	0.51%
Sb 206.836†	10370.8	2.474	mg/L	0.0193	2.474	mg/L	0.0193	0.78%
Se 196.026†	7311.2	2.523	mg/L	0.0202	2.523	mg/L	0.0202	0.80%
Tl 190.801†	3497.3	2.498	mg/L	0.0110	2.498	mg/L	0.0110	0.44%
V 292.402†	175483.2	0.9825	mg/L	0.00264	0.9825	mg/L	0.00264	0.27%
Zn 213.857†	3201.0	2.629	mg/L	0.0056	2.629	mg/L	0.0056	0.21%
Pb†	224.3	2.394	mg/L	0.0344	2.394	mg/L	0.0344	1.43%
Ag 338.289†	24840.0	0.2766	mg/L	0.00255	0.2766	mg/L	0.00255	0.92%

Sequence No.: 39
Sample ID: lcs dup
Analyst: AMM
Initial Sample Wt:
Dilution:
Wash Time: 75

Autosampler Location: 54
Date Collected: 2/10/2015 2:07:14 PM
Data Type: Original
Initial Sample Vol: 50 mL
Sample Prep Vol: 50 mL
Auto Dilution Factor: 1

Nebulizer Parameters: lcs dup

Analyte	Back Pressure	Flow
All	237.0 kPa	0.55 L/min

Mean Data: lcs dup

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	1609964.4	0.9304	mg/L	0.00530				0.57%
Ag 328.068†	59914.4	0.2498	mg/L	0.00039	0.2498	mg/L	0.00039	0.15%

Al 308.215†	1564.3	2.641 mg/L	0.0159	2.641 mg/L	0.0159	0.60%
As 188.979†	6422.1	2.476 mg/L	0.0009	2.476 mg/L	0.0009	0.04%
Ba 233.527†	565746.7	2.563 mg/L	0.0035	2.563 mg/L	0.0035	0.14%
Be 313.107†	1149486.3	0.5004 mg/L	0.00176	0.5004 mg/L	0.00176	0.35%
Ca 317.933†	20627.6	4.192 mg/L	0.0083	4.192 mg/L	0.0083	0.20%
Cd 226.502†	95822.5	1.046 mg/L	0.0025	1.046 mg/L	0.0025	0.24%
Co 228.616†	63595.6	1.153 mg/L	0.0114	1.153 mg/L	0.0114	0.99%
Cr 267.716†	346961.8	2.520 mg/L	0.0019	2.520 mg/L	0.0019	0.07%
Cu 324.752†	720242.6	2.559 mg/L	0.0016	2.559 mg/L	0.0016	0.06%
Fe 273.955†	1333.5	2.414 mg/L	0.0364	2.414 mg/L	0.0364	1.51%
K 766.490†	134090.1	44.08 mg/L	0.291	44.08 mg/L	0.291	0.66%
Mg 279.077†	198357.3	8.291 mg/L	0.0182	8.291 mg/L	0.0182	0.22%
Mn 257.610†	1126375.1	1.003 mg/L	0.0012	1.003 mg/L	0.0012	0.12%
Na 589.592†	104160.7	11.97 mg/L	0.113	11.97 mg/L	0.113	0.94%
Ni 231.604†	283628.6	5.445 mg/L	0.0149	5.445 mg/L	0.0149	0.27%
Pb 220.353†	30142.8	2.573 mg/L	0.0234	2.573 mg/L	0.0234	0.91%
Sb 206.836†	10570.6	2.522 mg/L	0.0096	2.522 mg/L	0.0096	0.38%
Se 196.026†	7422.0	2.561 mg/L	0.0109	2.561 mg/L	0.0109	0.42%
Tl 190.801†	3639.6	2.600 mg/L	0.0072	2.600 mg/L	0.0072	0.28%
V 292.402†	177037.9	0.9912 mg/L	0.00099	0.9912 mg/L	0.00099	0.10%
Zn 213.857†	3250.6	2.670 mg/L	0.0229	2.670 mg/L	0.0229	0.86%
Pb†	234.3	2.501 mg/L	0.0362	2.501 mg/L	0.0362	1.45%
Ag 338.289†	25109.8	0.2794 mg/L	0.00237	0.2794 mg/L	0.00237	0.85%

Sequence No.: 40
Sample ID: 150382-01
Analyst: AMM
Initial Sample Wt:
Dilution:
Wash Time: 75

Autosampler Location: 55
Date Collected: 2/10/2015 2:10:53 PM
Data Type: Original
Initial Sample Vol: 50 mL
Sample Prep Vol: 50 mL
Auto Dilution Factor: 1

Nebulizer Parameters: 150382-01

Analyte	Back Pressure	Flow
All	237.0 kPa	0.55 L/min

Mean Data: 150382-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	1584630.6	0.9157	mg/L	0.00278				0.30%
Ag 328.068†	353.7	0.0001	mg/L	0.00026	0.0001	mg/L	0.00026	352.29%
Al 308.215†	7.7	0.0130	mg/L	0.04279	0.0130	mg/L	0.04279	329.79%
As 188.979†	11.6	0.0082	mg/L	0.00243	0.0082	mg/L	0.00243	29.65%
Ba 233.527†	20629.1	0.0935	mg/L	0.00060	0.0935	mg/L	0.00060	0.64%
Be 313.107†	-99.1	-0.0000	mg/L	0.00002	-0.0000	mg/L	0.00002	51.10%
Ca 317.933†	586572.0	119.2	mg/L	0.52	119.2	mg/L	0.52	0.44%
Cd 226.502†	10.8	-0.0008	mg/L	0.00009	-0.0008	mg/L	0.00009	11.11%
Co 228.616†	8.0	0.0001	mg/L	0.00014	0.0001	mg/L	0.00014	99.35%
Cr 267.716†	141.5	0.0010	mg/L	0.00065	0.0010	mg/L	0.00065	62.70%
Cu 324.752†	546.1	0.0020	mg/L	0.00012	0.0020	mg/L	0.00012	6.03%
Fe 273.955†	398.1	0.7244	mg/L	0.00744	0.7244	mg/L	0.00744	1.03%
K 766.490†	38497.7	12.65	mg/L	0.024	12.65	mg/L	0.024	0.19%
Mg 279.077†	758438.2	31.70	mg/L	0.040	31.70	mg/L	0.040	0.13%
Mn 257.610†	95613.7	0.0851	mg/L	0.00009	0.0851	mg/L	0.00009	0.10%
Na 589.592†	746142.8	85.72	mg/L	0.443	85.72	mg/L	0.443	0.52%
Ni 231.604†	57.1	0.0011	mg/L	0.00028	0.0011	mg/L	0.00028	25.57%
Pb 220.353†	-79.4	-0.0050	mg/L	0.00119	-0.0050	mg/L	0.00119	23.92%
Sb 206.836†	-15.3	-0.0034	mg/L	0.00798	-0.0034	mg/L	0.00798	232.70%
Se 196.026†	-42.5	-0.0076	mg/L	0.00824	-0.0076	mg/L	0.00824	108.29%
Tl 190.801†	-50.0	-0.0315	mg/L	0.00208	-0.0315	mg/L	0.00208	6.62%
V 292.402†	262.8	0.0015	mg/L	0.00032	0.0015	mg/L	0.00032	22.13%
Zn 213.857†	34.3	0.0181	mg/L	0.00171	0.0181	mg/L	0.00171	9.46%
Pb†	-8.5	-0.0663	mg/L	0.01708	-0.0663	mg/L	0.01708	25.73%
Ag 338.289†	61.7	0.0006	mg/L	0.00193	0.0006	mg/L	0.00193	334.36%

Sequence No.: 41
Sample ID: 150382-02
Analyst: AMM
Initial Sample Wt:

Autosampler Location: 56
Date Collected: 2/10/2015 2:15:12 PM
Data Type: Original
Initial Sample Vol: 50 mL

Dilution:
Wash Time: 75

Sample Prep Vol: 50 mL
Auto Dilution Factor: 1

Nebulizer Parameters: 150382-02

Analyte	Back Pressure	Flow
All	236.0 kPa	0.55 L/min

Mean Data: 150382-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	1601600.9	0.9256	mg/L	0.00314				0.34%
Ag 328.068†	225.4	-0.0000	mg/L	0.00051	-0.0000	mg/L	0.00051	>999.9%
Al 308.215†	-3.5	-0.0059	mg/L	0.00699	-0.0059	mg/L	0.00699	118.26%
As 188.979†	-0.3	0.0025	mg/L	0.00159	0.0025	mg/L	0.00159	64.80%
Ba 233.527†	20037.9	0.0908	mg/L	0.00001	0.0908	mg/L	0.00001	0.01%
Be 313.107†	-163.7	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	15.08%
Ca 317.933†	405856.1	82.48	mg/L	0.473	82.48	mg/L	0.473	0.57%
Cd 226.502†	5.1	-0.0006	mg/L	0.00024	-0.0006	mg/L	0.00024	40.09%
Co 228.616†	22.0	0.0004	mg/L	0.00009	0.0004	mg/L	0.00009	23.09%
Cr 267.716†	99.8	0.0007	mg/L	0.00016	0.0007	mg/L	0.00016	22.39%
Cu 324.752†	509.2	0.0019	mg/L	0.00056	0.0019	mg/L	0.00056	30.11%
Fe 273.955†	273.6	0.4979	mg/L	0.00645	0.4979	mg/L	0.00645	1.30%
K 766.490†	80490.2	26.46	mg/L	0.151	26.46	mg/L	0.151	0.57%
Mg 279.077†	913416.9	38.18	mg/L	0.054	38.18	mg/L	0.054	0.14%
Mn 257.610†	53356.9	0.0475	mg/L	0.00024	0.0475	mg/L	0.00024	0.50%
Na 589.592†	1122545.8	129.0	mg/L	0.67	129.0	mg/L	0.67	0.52%
Ni 231.604†	92.9	0.0018	mg/L	0.00008	0.0018	mg/L	0.00008	4.35%
Pb 220.353†	-45.5	-0.0028	mg/L	0.00048	-0.0028	mg/L	0.00048	16.75%
Sb 206.836†	-21.6	-0.0051	mg/L	0.00403	-0.0051	mg/L	0.00403	79.68%
Se 196.026†	-38.8	-0.0085	mg/L	0.00663	-0.0085	mg/L	0.00663	78.09%
Tl 190.801†	-45.7	-0.0298	mg/L	0.00337	-0.0298	mg/L	0.00337	11.31%
V 292.402†	-8.7	-0.0000	mg/L	0.00023	-0.0000	mg/L	0.00023	538.62%
Zn 213.857†	21.1	0.0103	mg/L	0.00353	0.0103	mg/L	0.00353	34.08%
Pb†	-5.0	-0.0361	mg/L	0.05781	-0.0361	mg/L	0.05781	160.05%
Ag 338.289†	-148.3	-0.0013	mg/L	0.00038	-0.0013	mg/L	0.00038	28.65%

Sequence No.: 42
Sample ID: 150382-03
Analyst: AMM
Initial Sample Wt:
Dilution:
Wash Time: 75

Autosampler Location: 57
Date Collected: 2/10/2015 2:19:27 PM
Data Type: Original
Initial Sample Vol: 50 mL
Sample Prep Vol: 50 mL
Auto Dilution Factor: 1

Nebulizer Parameters: 150382-03

Analyte	Back Pressure	Flow
All	236.0 kPa	0.55 L/min

Mean Data: 150382-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	1603322.7	0.9265	mg/L	0.00585				0.63%
Ag 328.068†	-188.6	-0.0005	mg/L	0.00002	-0.0005	mg/L	0.00002	4.17%
Al 308.215†	-9.2	-0.0155	mg/L	0.00216	-0.0155	mg/L	0.00216	13.93%
As 188.979†	8.0	0.0063	mg/L	0.00094	0.0063	mg/L	0.00094	15.06%
Ba 233.527†	23676.5	0.1073	mg/L	0.00031	0.1073	mg/L	0.00031	0.29%
Be 313.107†	-204.5	-0.0001	mg/L	0.00002	-0.0001	mg/L	0.00002	19.78%
Ca 317.933†	436673.9	88.74	mg/L	0.048	88.74	mg/L	0.048	0.05%
Cd 226.502†	29.9	-0.0008	mg/L	0.00009	-0.0008	mg/L	0.00009	12.01%
Co 228.616†	51.9	0.0009	mg/L	0.00003	0.0009	mg/L	0.00003	2.98%
Cr 267.716†	89.5	0.0007	mg/L	0.00051	0.0007	mg/L	0.00051	72.75%
Cu 324.752†	482.7	0.0023	mg/L	0.00004	0.0023	mg/L	0.00004	1.83%
Fe 273.955†	2581.1	4.697	mg/L	0.0086	4.697	mg/L	0.0086	0.18%
K 766.490†	107038.3	35.18	mg/L	0.033	35.18	mg/L	0.033	0.09%
Mg 279.077†	863095.2	36.08	mg/L	0.069	36.08	mg/L	0.069	0.19%
Mn 257.610†	243263.1	0.2166	mg/L	0.00002	0.2166	mg/L	0.00002	0.01%
Na 589.592†	1048832.6	120.5	mg/L	0.17	120.5	mg/L	0.17	0.14%
Ni 231.604†	104.4	0.0020	mg/L	0.00026	0.0020	mg/L	0.00026	13.06%

Pb 220.353†	-50.6	-0.0029	mg/L	0.00302	-0.0029	mg/L	0.00302 105.28%
Sb 206.836†	-40.9	-0.0080	mg/L	0.00102	-0.0080	mg/L	0.00102 12.80%
Se 196.026†	-42.1	-0.0101	mg/L	0.00439	-0.0101	mg/L	0.00439 43.54%
Tl 190.801†	-38.1	-0.0238	mg/L	0.00072	-0.0238	mg/L	0.00072 3.02%
V 292.402†	248.1	0.0014	mg/L	0.00024	0.0014	mg/L	0.00024 17.33%
Zn 213.857†	19.0	0.0077	mg/L	0.00024	0.0077	mg/L	0.00024 3.09%
Pb†	-9.9	-0.0871	mg/L	0.01230	-0.0871	mg/L	0.01230 14.11%
Ag 338.289†	-46.8	-0.0004	mg/L	0.00189	-0.0004	mg/L	0.00189 467.81%

Sequence No.: 43
Sample ID: 150382-04
Analyst: AMM
Initial Sample Wt:
Dilution:
Wash Time: 75

Autosampler Location: 58
Date Collected: 2/10/2015 2:23:43 PM
Data Type: Original
Initial Sample Vol: 50 mL
Sample Prep Vol: 50 mL
Auto Dilution Factor: 1

Nebulizer Parameters: 150382-04

Analyte	Back Pressure	Flow
All	236.0 kPa	0.55 L/min

Mean Data: 150382-04

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	1630841.0	0.9425	mg/L	0.00087				0.09%
Ag 328.068†	-294.3	-0.0010	mg/L	0.00105	-0.0010	mg/L	0.00105	109.51%
Al 308.215†	4.3	0.0073	mg/L	0.01873	0.0073	mg/L	0.01873	257.69%
As 188.979†	-8.0	0.0002	mg/L	0.00414	0.0002	mg/L	0.00414	>999.9%
Ba 233.527†	19289.7	0.0874	mg/L	0.00023	0.0874	mg/L	0.00023	0.26%
Be 313.107†	-62.7	-0.0000	mg/L	0.00003	-0.0000	mg/L	0.00003	104.76%
Ca 317.933†	457699.0	93.02	mg/L	0.353	93.02	mg/L	0.353	0.38%
Cd 226.502†	32.4	-0.0008	mg/L	0.00003	-0.0008	mg/L	0.00003	4.23%
Co 228.616†	14.1	0.0003	mg/L	0.00005	0.0003	mg/L	0.00005	20.69%
Cr 267.716†	43.4	0.0004	mg/L	0.00021	0.0004	mg/L	0.00021	57.24%
Cu 324.752†	265.1	0.0015	mg/L	0.00034	0.0015	mg/L	0.00034	22.35%
Fe 273.955†	2616.3	4.761	mg/L	0.0091	4.761	mg/L	0.0091	0.19%
K 766.490†	19535.9	6.422	mg/L	0.0340	6.422	mg/L	0.0340	0.53%
Mg 279.077†	827793.1	34.60	mg/L	0.025	34.60	mg/L	0.025	0.07%
Mn 257.610†	28880.8	0.0257	mg/L	0.00006	0.0257	mg/L	0.00006	0.23%
Na 589.592†	579394.5	66.56	mg/L	0.296	66.56	mg/L	0.296	0.44%
Ni 231.604†	18.2	0.0003	mg/L	0.00025	0.0003	mg/L	0.00025	72.36%
Pb 220.353†	-54.1	-0.0031	mg/L	0.00039	-0.0031	mg/L	0.00039	12.58%
Sb 206.836†	-38.4	-0.0073	mg/L	0.00617	-0.0073	mg/L	0.00617	84.54%
Se 196.026†	-38.6	-0.0086	mg/L	0.00157	-0.0086	mg/L	0.00157	18.23%
Tl 190.801†	-43.0	-0.0272	mg/L	0.00097	-0.0272	mg/L	0.00097	3.56%
V 292.402†	110.6	0.0006	mg/L	0.00038	0.0006	mg/L	0.00038	61.76%
Zn 213.857†	27.9	0.0147	mg/L	0.00466	0.0147	mg/L	0.00466	31.76%
Pb†	-8.2	-0.0681	mg/L	0.02017	-0.0681	mg/L	0.02017	29.61%
Ag 338.289†	-10.6	-0.0001	mg/L	0.00340	-0.0001	mg/L	0.00340	>999.9%

Sequence No.: 44
Sample ID: 150382-05
Analyst: AMM
Initial Sample Wt:
Dilution:
Wash Time: 75

Autosampler Location: 59
Date Collected: 2/10/2015 2:27:59 PM
Data Type: Original
Initial Sample Vol: 50 mL
Sample Prep Vol: 50 mL
Auto Dilution Factor: 1

Nebulizer Parameters: 150382-05

Analyte	Back Pressure	Flow
All	236.0 kPa	0.55 L/min

Mean Data: 150382-05

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	1637297.8	0.9462	mg/L	0.00499				0.53%
Ag 328.068†	-1111.6	-0.0021	mg/L	0.00069	-0.0021	mg/L	0.00069	32.47%
Al 308.215†	12.6	0.0212	mg/L	0.01451	0.0212	mg/L	0.01451	68.36%

As 188.979†	0.4	0.0060 mg/L	0.00226	0.0060 mg/L	0.00226	37.77%
Ba 233.527†	33965.9	0.1539 mg/L	0.00040	0.1539 mg/L	0.00040	0.26%
Be 313.107†	-159.5	-0.0001 mg/L	0.00005	-0.0001 mg/L	0.00005	75.75%
Ca 317.933†	721066.3	146.5 mg/L	0.66	146.5 mg/L	0.66	0.45%
Cd 226.502†	73.0	-0.0016 mg/L	0.00007	-0.0016 mg/L	0.00007	4.25%
Co 228.616†	35.0	0.0006 mg/L	0.00037	0.0006 mg/L	0.00037	58.99%
Cr 267.716†	4.5	0.0002 mg/L	0.00020	0.0002 mg/L	0.00020	114.51%
Cu 324.752†	469.2	0.0034 mg/L	0.00017	0.0034 mg/L	0.00017	5.01%
Fe 273.955†	7643.1	13.91 mg/L	0.204	13.91 mg/L	0.204	1.46%
K 766.490†	35195.5	11.57 mg/L	0.093	11.57 mg/L	0.093	0.80%
Mg 279.077†	820948.3	34.32 mg/L	0.028	34.32 mg/L	0.028	0.08%
Mn 257.610†	948120.9	0.8443 mg/L	0.00071	0.8443 mg/L	0.00071	0.08%
Na 589.592†	505101.4	58.03 mg/L	0.231	58.03 mg/L	0.231	0.40%
Ni 231.604†	10.5	0.0002 mg/L	0.00042	0.0002 mg/L	0.00042	210.70%
Pb 220.353†	-70.3	-0.0029 mg/L	0.00322	-0.0029 mg/L	0.00322	111.14%
Sb 206.836†	-71.9	-0.0115 mg/L	0.00022	-0.0115 mg/L	0.00022	1.91%
Se 196.026†	-39.5	-0.0074 mg/L	0.00282	-0.0074 mg/L	0.00282	38.21%
Tl 190.801†	-55.7	-0.0339 mg/L	0.00406	-0.0339 mg/L	0.00406	11.97%
V 292.402†	204.7	0.0011 mg/L	0.00012	0.0011 mg/L	0.00012	10.98%
Zn 213.857†	36.3	0.0162 mg/L	0.00004	0.0162 mg/L	0.00004	0.23%
Pb†	-9.0	-0.0657 mg/L	0.06429	-0.0657 mg/L	0.06429	97.84%
Ag 338.289†	63.2	0.0006 mg/L	0.00204	0.0006 mg/L	0.00204	358.83%

Sequence No.: 45
Sample ID: 150382-06
Analyst: AMM
Initial Sample Wt:
Dilution:
Wash Time: 75

Autosampler Location: 60
Date Collected: 2/10/2015 2:32:20 PM
Data Type: Original
Initial Sample Vol: 50 mL
Sample Prep Vol: 50 mL
Auto Dilution Factor: 1

Nebulizer Parameters: 150382-06

Analyte	Back Pressure	Flow
All	237.0 kPa	0.55 L/min

Mean Data: 150382-06

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	1625701.3	0.9395	mg/L	0.00253				0.27%
Ag 328.068†	153.0	-0.0002	mg/L	0.00143	-0.0002	mg/L	0.00143	772.06%
Al 308.215†	-4.5	-0.0077	mg/L	0.04941	-0.0077	mg/L	0.04941	645.05%
As 188.979†	-11.5	-0.0003	mg/L	0.00548	-0.0003	mg/L	0.00548	>999.99%
Ba 233.527†	10217.0	0.0463	mg/L	0.00016	0.0463	mg/L	0.00016	0.35%
Be 313.107†	-168.3	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	17.33%
Ca 317.933†	615471.1	125.1	mg/L	1.24	125.1	mg/L	1.24	0.99%
Cd 226.502†	2.5	-0.0012	mg/L	0.00004	-0.0012	mg/L	0.00004	3.64%
Co 228.616†	23.6	0.0004	mg/L	0.00011	0.0004	mg/L	0.00011	26.50%
Cr 267.716†	-18.9	-0.0001	mg/L	0.00014	-0.0001	mg/L	0.00014	123.75%
Cu 324.752†	294.9	0.0014	mg/L	0.00042	0.0014	mg/L	0.00042	30.16%
Fe 273.955†	1509.3	2.747	mg/L	0.0171	2.747	mg/L	0.0171	0.62%
K 766.490†	35211.4	11.57	mg/L	0.131	11.57	mg/L	0.131	1.13%
Mg 279.077†	754628.4	31.54	mg/L	0.044	31.54	mg/L	0.044	0.14%
Mn 257.610†	138448.3	0.1233	mg/L	0.00009	0.1233	mg/L	0.00009	0.07%
Na 589.592†	437202.8	50.23	mg/L	0.522	50.23	mg/L	0.522	1.04%
Ni 231.604†	25.2	0.0005	mg/L	0.00010	0.0005	mg/L	0.00010	20.23%
Pb 220.353†	-93.7	-0.0060	mg/L	0.00138	-0.0060	mg/L	0.00138	23.16%
Sb 206.836†	-54.7	-0.0121	mg/L	0.00276	-0.0121	mg/L	0.00276	22.74%
Se 196.026†	-42.4	-0.0076	mg/L	0.00094	-0.0076	mg/L	0.00094	12.43%
Tl 190.801†	-55.4	-0.0350	mg/L	0.00200	-0.0350	mg/L	0.00200	5.72%
V 292.402†	316.8	0.0017	mg/L	0.00045	0.0017	mg/L	0.00045	26.10%
Zn 213.857†	21.4	0.0067	mg/L	0.00578	0.0067	mg/L	0.00578	86.06%
Pb†	-11.6	-0.0975	mg/L	0.03472	-0.0975	mg/L	0.03472	35.61%
Ag 338.289†	136.7	0.0012	mg/L	0.00042	0.0012	mg/L	0.00042	34.49%

Sequence No.: 46
Sample ID: 150382-07
Analyst: AMM
Initial Sample Wt:
Dilution:

Autosampler Location: 61
Date Collected: 2/10/2015 2:36:34 PM
Data Type: Original
Initial Sample Vol: 50 mL
Sample Prep Vol: 50 mL

Wash Time: 75 Auto Dilution Factor: 1

Nebulizer Parameters: 150382-07

Analyte	Back Pressure	Flow
All	236.0 kPa	0.55 L/min

Mean Data: 150382-07

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	1594338.1	0.9214	mg/L	0.00133				0.14%
Ag 328.068†	10.7	-0.0006	mg/L	0.00024	-0.0006	mg/L	0.00024	44.05%
Al 308.215†	7.1	0.0120	mg/L	0.02940	0.0120	mg/L	0.02940	245.94%
As 188.979†	6.2	0.0059	mg/L	0.00044	0.0059	mg/L	0.00044	7.39%
Ba 233.527†	19769.2	0.0896	mg/L	0.00026	0.0896	mg/L	0.00026	0.29%
Be 313.107†	-314.0	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	7.98%
Ca 317.933†	525772.9	106.9	mg/L	0.33	106.9	mg/L	0.33	0.31%
Cd 226.502†	15.2	-0.0009	mg/L	0.00022	-0.0009	mg/L	0.00022	25.71%
Co 228.616†	42.8	0.0008	mg/L	0.00008	0.0008	mg/L	0.00008	9.84%
Cr 267.716†	78.6	0.0006	mg/L	0.00044	0.0006	mg/L	0.00044	73.17%
Cu 324.752†	306.6	0.0014	mg/L	0.00040	0.0014	mg/L	0.00040	28.47%
Fe 273.955†	1462.0	2.661	mg/L	0.0092	2.661	mg/L	0.0092	0.35%
K 766.490†	50716.2	16.67	mg/L	0.008	16.67	mg/L	0.008	0.05%
Mg 279.077†	697445.9	29.15	mg/L	0.037	29.15	mg/L	0.037	0.13%
Mn 257.610†	98321.9	0.0876	mg/L	0.00072	0.0876	mg/L	0.00072	0.82%
Na 589.592†	1129532.2	129.8	mg/L	0.47	129.8	mg/L	0.47	0.36%
Ni 231.604†	58.0	0.0011	mg/L	0.00048	0.0011	mg/L	0.00048	42.97%
Pb 220.353†	-98.2	-0.0066	mg/L	0.00070	-0.0066	mg/L	0.00070	10.50%
Sb 206.836†	-38.0	-0.0081	mg/L	0.00093	-0.0081	mg/L	0.00093	11.50%
Se 196.026†	-43.3	-0.0090	mg/L	0.00402	-0.0090	mg/L	0.00402	44.64%
Tl 190.801†	-44.5	-0.0279	mg/L	0.00021	-0.0279	mg/L	0.00021	0.74%
V 292.402†	194.3	0.0011	mg/L	0.00028	0.0011	mg/L	0.00028	25.77%
Zn 213.857†	19.8	0.0069	mg/L	0.00592	0.0069	mg/L	0.00592	85.35%
Pb†	-6.8	-0.0506	mg/L	0.02609	-0.0506	mg/L	0.02609	51.56%
Ag 338.289†	-151.1	-0.0013	mg/L	0.00029	-0.0013	mg/L	0.00029	21.89%

Sequence No.: 47 Autosampler Location: 7
Sample ID: CCV Date Collected: 2/10/2015 2:40:58 PM
Analyst: Data Type: Original
Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:
Wash Time: 75 Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	237.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	1587030.8	0.9171	mg/L	0.00368				0.40%
Ag 328.068†	296265.5	1.232	mg/L	0.0012	1.232	mg/L	0.0012	0.10%
QC value within limits for Ag 328.068 Recovery = 98.59%								
Al 308.215†	5908.3	9.968	mg/L	0.0914	9.968	mg/L	0.0914	0.92%
QC value within limits for Al 308.215 Recovery = 99.68%								
As 188.979†	1263.8	0.4879	mg/L	0.00138	0.4879	mg/L	0.00138	0.28%
QC value within limits for As 188.979 Recovery = 97.58%								
Ba 233.527†	2242390.0	10.16	mg/L	0.025	10.16	mg/L	0.025	0.25%
QC value within limits for Ba 233.527 Recovery = 101.59%								
Be 313.107†	587513.7	0.2557	mg/L	0.00087	0.2557	mg/L	0.00087	0.34%
QC value within limits for Be 313.107 Recovery = 102.29%								
Ca 317.933†	126499.0	25.71	mg/L	0.217	25.71	mg/L	0.217	0.84%
QC value within limits for Ca 317.933 Recovery = 102.83%								
Cd 226.502†	23702.6	0.2580	mg/L	0.00190	0.2580	mg/L	0.00190	0.74%
QC value within limits for Cd 226.502 Recovery = 103.21%								
Co 228.616†	144360.4	2.617	mg/L	0.0052	2.617	mg/L	0.0052	0.20%
QC value within limits for Co 228.616 Recovery = 104.67%								
Cr 267.716†	136291.8	0.9892	mg/L	0.00037	0.9892	mg/L	0.00037	0.04%

QC value within limits for Cr 267.716 Recovery = 98.92%

Cu 324.752†	351449.6	1.249 mg/L	0.0007	1.249 mg/L	0.0007	0.06%

QC value within limits for Cu 324.752 Recovery = 99.95%

Fe 273.955†	2708.5	4.886 mg/L	0.0171	4.886 mg/L	0.0171	0.35%

QC value within limits for Fe 273.955 Recovery = 97.72%

K 766.490†	76111.2	25.02 mg/L	0.111	25.02 mg/L	0.111	0.44%

QC value within limits for K 766.490 Recovery = 100.07%

Mg 279.077†	611568.6	25.56 mg/L	0.023	25.56 mg/L	0.023	0.09%

QC value within limits for Mg 279.077 Recovery = 102.25%

Mn 257.610†	2851874.5	2.540 mg/L	0.0047	2.540 mg/L	0.0047	0.18%

QC value within limits for Mn 257.610 Recovery = 101.60%

Na 589.592†	213110.5	24.48 mg/L	0.161	24.48 mg/L	0.161	0.66%

QC value within limits for Na 589.592 Recovery = 97.93%

Ni 231.604†	132924.7	2.552 mg/L	0.0045	2.552 mg/L	0.0045	0.18%

QC value within limits for Ni 231.604 Recovery = 102.07%

Pb 220.353†	5843.8	0.5013 mg/L	0.00629	0.5013 mg/L	0.00629	1.25%

QC value within limits for Pb 220.353 Recovery = 100.26%

Sb 206.836†	21269.0	5.163 mg/L	0.0312	5.163 mg/L	0.0312	0.6%

QC value within limits for Sb 206.836 Recovery = 103.25%

Se 196.026†	1471.1	0.5036 mg/L	0.00606	0.5036 mg/L	0.00606	1.20%

QC value within limits for Se 196.026 Recovery = 100.72%

Tl 190.801†	777.3	0.5175 mg/L	0.00605	0.5175 mg/L	0.00605	1.17%

QC value within limits for Tl 190.801 Recovery = 103.49%

V 292.402†	471396.0	2.596 mg/L	0.0005	2.596 mg/L	0.0005	0.02%

QC value within limits for V 292.402 Recovery = 103.84%

Zn 213.857†	3183.6	2.626 mg/L	0.0034	2.626 mg/L	0.0034	0.13%

QC value within limits for Zn 213.857 Recovery = 105.06%

Pb†	37.4	0.3991 mg/L	0.07208	0.3991 mg/L	0.07208	18.06%

QC value less than the lower limit for Pb Recovery = 79.82%

Ag 338.289†	137230.1	1.254 mg/L	0.0027	1.254 mg/L	0.0027	0.21%

QC Failed. Continue with analysis.

Sequence No.: 48 **Autosampler Location: 1**
Sample ID: CCB **Date Collected: 2/10/2015 2:45:15 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 75 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	237.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	1642636.7	0.9493	mg/L	0.00439				0.46%
Ag 328.068†	475.7	0.0020	mg/L	0.00065	0.0020	mg/L	0.00065	33.12%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-7.9	-0.0133	mg/L	0.00168	-0.0133	mg/L	0.00168	12.60%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	-7.3	-0.0028	mg/L	0.00191	-0.0028	mg/L	0.00191	67.39%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	87.0	0.0004	mg/L	0.00026	0.0004	mg/L	0.00026	65.61%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	20.0	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	220.54%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	-173.7	-0.0353	mg/L	0.00075	-0.0353	mg/L	0.00075	2.14%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 226.502†	21.2	0.0002	mg/L	0.00003	0.0002	mg/L	0.00003	14.28%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	0.4	0.0000	mg/L	0.00010	0.0000	mg/L	0.00010	>999.9%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	24.3	0.0002	mg/L	0.00004	0.0002	mg/L	0.00004	24.66%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	25.5	0.0001	mg/L	0.00015	0.0001	mg/L	0.00015	160.74%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 273.955†	0.6	0.0012	mg/L	0.01190	0.0012	mg/L	0.01190	>999.9%
QC value within limits for Fe 273.955 Recovery = Not calculated								

K 766.490†	4.5	0.0015 mg/L	0.00561	0.0015 mg/L	0.00561	381.45%
QC value within limits for K 766.490 Recovery = Not calculated						
Mg 279.077†	-7.4	-0.0003 mg/L	0.00391	-0.0003 mg/L	0.00391	>999.9%
QC value within limits for Mg 279.077 Recovery = Not calculated						
Mn 257.610†	98.1	0.0001 mg/L	0.00000	0.0001 mg/L	0.00000	2.52%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Na 589.592†	-12964.1	-1.489 mg/L	0.0025	-1.489 mg/L	0.0025	0.17%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	36.2	0.0007 mg/L	0.00025	0.0007 mg/L	0.00025	36.08%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	9.6	0.0008 mg/L	0.00232	0.0008 mg/L	0.00232	281.77%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	10.8	0.0026 mg/L	0.00116	0.0026 mg/L	0.00116	44.07%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-1.7	-0.0006 mg/L	0.00509	-0.0006 mg/L	0.00509	869.53%
QC value within limits for Se 196.026 Recovery = Not calculated						
Tl 190.801†	5.3	0.0038 mg/L	0.00099	0.0038 mg/L	0.00099	25.89%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	83.9	0.0005 mg/L	0.00009	0.0005 mg/L	0.00009	18.41%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	1.2	0.0010 mg/L	0.00038	0.0010 mg/L	0.00038	39.29%
QC value within limits for Zn 213.857 Recovery = Not calculated						
Pb†	0.1	0.0011 mg/L	0.03293	0.0011 mg/L	0.03293	>999.9%
QC value within limits for Pb Recovery = Not calculated						
Ag 338.289†	-153.0	-0.0014 mg/L	0.00049	-0.0014 mg/L	0.00049	35.88%

All analyte(s) passed QC.

Sequence No.: 49 **Autosampler Location: 62**
Sample ID: 150382-07 dup **Date Collected: 2/10/2015 2:49:30 PM**
Analyst: AMM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 50 mL**
Dilution: **Sample Prep Vol: 50 mL**
Wash Time: 75 **Auto Dilution Factor: 1**

Nebulizer Parameters: 150382-07 dup

Analyte	Back Pressure	Flow
All	237.0 kPa	0.55 L/min

Mean Data: 150382-07 dup

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	1596507.4	0.9226	mg/L	0.00290				0.31%
Ag 328.068†	105.2	-0.0002	mg/L	0.00055	-0.0002	mg/L	0.00055	313.34%
Al 308.215†	-1.0	-0.0017	mg/L	0.00419	-0.0017	mg/L	0.00419	253.01%
As 188.979†	-1.7	0.0029	mg/L	0.00031	0.0029	mg/L	0.00031	10.79%
Ba 233.527†	19565.2	0.0886	mg/L	0.00007	0.0886	mg/L	0.00007	0.08%
Be 313.107†	-231.2	-0.0001	mg/L	0.00003	-0.0001	mg/L	0.00003	27.82%
Ca 317.933†	527781.1	107.3	mg/L	0.33	107.3	mg/L	0.33	0.31%
Cd 226.502†	10.4	-0.0009	mg/L	0.00002	-0.0009	mg/L	0.00002	1.89%
Co 228.616†	45.1	0.0008	mg/L	0.00004	0.0008	mg/L	0.00004	4.46%
Cr 267.716†	6.1	0.0001	mg/L	0.00034	0.0001	mg/L	0.00034	467.82%
Cu 324.752†	194.1	0.0010	mg/L	0.00017	0.0010	mg/L	0.00017	16.74%
Fe 273.955†	1450.5	2.640	mg/L	0.0158	2.640	mg/L	0.0158	0.60%
K 766.490†	51161.3	16.82	mg/L	0.167	16.82	mg/L	0.167	0.99%
Mg 279.077†	689861.2	28.84	mg/L	0.061	28.84	mg/L	0.061	0.21%
Mn 257.610†	96648.8	0.0861	mg/L	0.00004	0.0861	mg/L	0.00004	0.04%
Na 589.592†	1132435.4	130.1	mg/L	0.07	130.1	mg/L	0.07	0.05%
Ni 231.604†	50.7	0.0010	mg/L	0.00045	0.0010	mg/L	0.00045	46.61%
Pb 220.353†	-85.8	-0.0056	mg/L	0.00356	-0.0056	mg/L	0.00356	63.92%
Sb 206.836†	-43.4	-0.0094	mg/L	0.00171	-0.0094	mg/L	0.00171	18.10%
Se 196.026†	-36.0	-0.0064	mg/L	0.00840	-0.0064	mg/L	0.00840	130.57%
Tl 190.801†	-44.4	-0.0278	mg/L	0.00734	-0.0278	mg/L	0.00734	26.38%
V 292.402†	177.8	0.0010	mg/L	0.00026	0.0010	mg/L	0.00026	26.99%
Zn 213.857†	23.2	0.0097	mg/L	0.00581	0.0097	mg/L	0.00581	60.00%
Pb†	-8.1	-0.0647	mg/L	0.04068	-0.0647	mg/L	0.04068	62.91%
Ag 338.289†	-225.0	-0.0020	mg/L	0.00106	-0.0020	mg/L	0.00106	52.72%

Sequence No.: 50 **Autosampler Location: 63**

Sample ID: 150382-07 spk
Analyst: AMM
Initial Sample Wt:
Dilution:
Wash Time: 75

Date Collected: 2/10/2015 2:53:51 PM
Data Type: Original
Initial Sample Vol: 50 mL
Sample Prep Vol: 50 mL
Auto Dilution Factor: 1

Nebulizer Parameters: 150382-07 spk

Analyte	Back Pressure	Flow
All	237.0 kPa	0.55 L/min

Mean Data: 150382-07 spk

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	1578835.3	0.9124	mg/L	0.00349				0.38%
Ag 328.068†	60153.1	0.2502	mg/L	0.00040	0.2502	mg/L	0.00040	0.16%
Al 308.215†	1589.3	2.682	mg/L	0.0064	2.682	mg/L	0.0064	0.24%
As 188.979†	6597.6	2.547	mg/L	0.0209	2.547	mg/L	0.0209	0.82%
Ba 233.527†	570710.1	2.586	mg/L	0.0051	2.586	mg/L	0.0051	0.20%
Be 313.107†	1169986.6	0.5093	mg/L	0.00123	0.5093	mg/L	0.00123	0.24%
Ca 317.933†	548844.9	111.5	mg/L	0.41	111.5	mg/L	0.41	0.37%
Cd 226.502†	91928.4	1.003	mg/L	0.0002	1.003	mg/L	0.0002	0.02%
Co 228.616†	60804.7	1.102	mg/L	0.0068	1.102	mg/L	0.0068	0.62%
Cr 267.716†	347082.2	2.521	mg/L	0.0038	2.521	mg/L	0.0038	0.15%
Cu 324.752†	722583.2	2.568	mg/L	0.0016	2.568	mg/L	0.0016	0.06%
Fe 273.955†	2823.0	5.124	mg/L	0.0644	5.124	mg/L	0.0644	1.26%
K 766.490†	181036.0	59.51	mg/L	0.288	59.51	mg/L	0.288	0.48%
Mg 279.077†	880715.9	36.81	mg/L	0.076	36.81	mg/L	0.076	0.21%
Mn 257.610†	1220993.6	1.087	mg/L	0.0020	1.087	mg/L	0.0020	0.18%
Na 589.592†	1231427.6	141.5	mg/L	0.68	141.5	mg/L	0.68	0.48%
Ni 231.604†	270846.0	5.200	mg/L	0.0026	5.200	mg/L	0.0026	0.05%
Pb 220.353†	28898.6	2.469	mg/L	0.0139	2.469	mg/L	0.0139	0.56%
Sb 206.836†	10704.1	2.556	mg/L	0.0148	2.556	mg/L	0.0148	0.58%
Se 196.026†	7096.3	2.455	mg/L	0.0065	2.455	mg/L	0.0065	0.26%
Tl 190.801†	3365.1	2.407	mg/L	0.0024	2.407	mg/L	0.0024	0.10%
V 292.402†	182169.4	1.019	mg/L	0.0004	1.019	mg/L	0.0004	0.04%
Zn 213.857†	3240.0	2.653	mg/L	0.0167	2.653	mg/L	0.0167	0.63%
Pb†	223.8	2.411	mg/L	0.0372	2.411	mg/L	0.0372	1.54%
Ag 338.289†	25390.5	0.2820	mg/L	0.00164	0.2820	mg/L	0.00164	0.58%

Sequence No.: 51
Sample ID: 150382-08
Analyst: AMM
Initial Sample Wt:
Dilution:
Wash Time: 75

Autosampler Location: 64
Date Collected: 2/10/2015 2:57:32 PM
Data Type: Original
Initial Sample Vol: 50 mL
Sample Prep Vol: 50 mL
Auto Dilution Factor: 1

Nebulizer Parameters: 150382-08

Analyte	Back Pressure	Flow
All	236.0 kPa	0.55 L/min

Mean Data: 150382-08

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	1624573.4	0.9388	mg/L	0.00393				0.42%
Ag 328.068†	9.6	-0.0003	mg/L	0.00037	-0.0003	mg/L	0.00037	106.17%
Al 308.215†	3.2	0.0054	mg/L	0.02488	0.0054	mg/L	0.02488	462.80%
As 188.979†	0.4	0.0032	mg/L	0.00279	0.0032	mg/L	0.00279	87.57%
Ba 233.527†	398177.9	1.804	mg/L	0.0015	1.804	mg/L	0.0015	0.08%
Be 313.107†	-129.9	-0.0001	mg/L	0.00003	-0.0001	mg/L	0.00003	61.28%
Ca 317.933†	445834.2	90.61	mg/L	0.047	90.61	mg/L	0.047	0.05%
Cd 226.502†	22.8	-0.0007	mg/L	0.00006	-0.0007	mg/L	0.00006	9.58%
Co 228.616†	70.1	0.0013	mg/L	0.00017	0.0013	mg/L	0.00017	13.23%
Cr 267.716†	78.8	0.0006	mg/L	0.00008	0.0006	mg/L	0.00008	13.00%
Cu 324.752†	500.0	0.0021	mg/L	0.00016	0.0021	mg/L	0.00016	7.42%
Fe 273.955†	1449.9	2.639	mg/L	0.0018	2.639	mg/L	0.0018	0.07%
K 766.490†	38410.3	12.63	mg/L	0.065	12.63	mg/L	0.065	0.51%
Mg 279.077†	840718.7	35.14	mg/L	0.041	35.14	mg/L	0.041	0.12%

Mn 257.610†	622864.7	0.5547 mg/L	0.00064	0.5547 mg/L	0.00064	0.12%
Na 589.592†	1457245.8	167.4 mg/L	0.11	167.4 mg/L	0.11	0.06%
Ni 231.604†	60.2	0.0012 mg/L	0.00032	0.0012 mg/L	0.00032	27.82%
Pb 220.353†	-66.2	-0.0043 mg/L	0.00002	-0.0043 mg/L	0.00002	0.53%
Sb 206.836†	-19.1	-0.0035 mg/L	0.00242	-0.0035 mg/L	0.00242	68.64%
Se 196.026†	-40.0	-0.0088 mg/L	0.00652	-0.0088 mg/L	0.00652	73.77%
Tl 190.801†	-40.3	-0.0255 mg/L	0.00276	-0.0255 mg/L	0.00276	10.85%
V 292.402†	89.3	0.0005 mg/L	0.00032	0.0005 mg/L	0.00032	65.27%
Zn 213.857†	25.4	0.0130 mg/L	0.00262	0.0130 mg/L	0.00262	20.14%
Pb†	-3.3	-0.0163 mg/L	0.00058	-0.0163 mg/L	0.00058	3.56%
Ag 338.289†	7.1	0.0001 mg/L	0.00142	0.0001 mg/L	0.00142	>999.9%

Sequence No.: 52
Sample ID: 150382-09
Analyst: AMM
Initial Sample Wt:
Dilution:
Wash Time: 75

Autosampler Location: 65
Date Collected: 2/10/2015 3:01:52 PM
Data Type: Original
Initial Sample Vol: 50 mL
Sample Prep Vol: 50 mL
Auto Dilution Factor: 1

Nebulizer Parameters: 150382-09

Analyte	Back Pressure	Flow
All	236.0 kPa	0.55 L/min

Mean Data: 150382-09

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	1612060.4	0.9316	mg/L	0.00292				0.31%
Ag 328.068†	234.7	0.0001	mg/L	0.00025	0.0001	mg/L	0.00025	358.60%
Al 308.215†	-6.8	-0.0115	mg/L	0.04072	-0.0115	mg/L	0.04072	353.57%
As 188.979†	-12.4	-0.0015	mg/L	0.00015	-0.0015	mg/L	0.00015	9.70%
Ba 233.527†	32334.0	0.1465	mg/L	0.00111	0.1465	mg/L	0.00111	0.76%
Be 313.107†	-236.9	-0.0001	mg/L	0.00000	-0.0001	mg/L	0.00000	3.98%
Ca 317.933†	498140.9	101.2	mg/L	0.13	101.2	mg/L	0.13	0.12%
Cd 226.502†	-1.3	-0.0009	mg/L	0.00011	-0.0009	mg/L	0.00011	11.81%
Co 228.616†	4.1	0.0001	mg/L	0.00018	0.0001	mg/L	0.00018	246.28%
Cr 267.716†	49.3	0.0004	mg/L	0.00004	0.0004	mg/L	0.00004	10.47%
Cu 324.752†	347.8	0.0014	mg/L	0.00006	0.0014	mg/L	0.00006	4.14%
Fe 273.955†	811.6	1.477	mg/L	0.0036	1.477	mg/L	0.0036	0.24%
K 766.490†	28346.4	9.318	mg/L	0.0329	9.318	mg/L	0.0329	0.35%
Mg 279.077†	748779.5	31.30	mg/L	0.021	31.30	mg/L	0.021	0.07%
Mn 257.610†	38935.1	0.0347	mg/L	0.00018	0.0347	mg/L	0.00018	0.52%
Na 589.592†	798364.5	91.72	mg/L	0.107	91.72	mg/L	0.107	0.12%
Ni 231.604†	4.2	0.0001	mg/L	0.00006	0.0001	mg/L	0.00006	77.50%
Pb 220.353†	-60.5	-0.0036	mg/L	0.00114	-0.0036	mg/L	0.00114	31.30%
Sb 206.836†	-37.2	-0.0084	mg/L	0.00504	-0.0084	mg/L	0.00504	59.68%
Se 196.026†	-30.9	-0.0048	mg/L	0.00062	-0.0048	mg/L	0.00062	12.89%
Tl 190.801†	-53.3	-0.0345	mg/L	0.00015	-0.0345	mg/L	0.00015	0.43%
V 292.402†	166.8	0.0009	mg/L	0.00053	0.0009	mg/L	0.00053	57.33%
Zn 213.857†	20.6	0.0082	mg/L	0.00160	0.0082	mg/L	0.00160	19.55%
Pb†	-7.6	-0.0596	mg/L	0.00158	-0.0596	mg/L	0.00158	2.65%
Ag 338.289†	131.3	0.0012	mg/L	0.00161	0.0012	mg/L	0.00161	135.52%

Sequence No.: 53
Sample ID: 150382-10
Analyst: AMM
Initial Sample Wt:
Dilution:
Wash Time: 75

Autosampler Location: 66
Date Collected: 2/10/2015 3:06:15 PM
Data Type: Original
Initial Sample Vol: 50 mL
Sample Prep Vol: 50 mL
Auto Dilution Factor: 1

Nebulizer Parameters: 150382-10

Analyte	Back Pressure	Flow
All	236.0 kPa	0.55 L/min

Mean Data: 150382-10

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD

Y 371.029	1640418.2	0.9480	mg/L	0.00108			0.11%
Ag 328.068†	-73.2	-0.0015	mg/L	0.00011	-0.0015	mg/L	0.00011 7.60%
Al 308.215†	-7.0	-0.0118	mg/L	0.01522	-0.0118	mg/L	0.01522 128.95%
As 188.979†	-12.7	-0.0008	mg/L	0.00431	-0.0008	mg/L	0.00431 519.92%
Ba 233.527†	26192.1	0.1187	mg/L	0.00019	0.1187	mg/L	0.00019 0.16%
Be 313.107†	-75.4	-0.0000	mg/L	0.00003	-0.0000	mg/L	0.00003 93.63%
Ca 317.933†	628797.3	127.8	mg/L	0.75	127.8	mg/L	0.75 0.59%
Cd 226.502†	1.4	-0.0011	mg/L	0.00006	-0.0011	mg/L	0.00006 5.47%
Co 228.616†	14.9	0.0003	mg/L	0.00002	0.0003	mg/L	0.00002 7.97%
Cr 267.716†	-12.3	-0.0001	mg/L	0.00031	-0.0001	mg/L	0.00031 437.68%
Cu 324.752†	440.5	0.0018	mg/L	0.00009	0.0018	mg/L	0.00009 4.96%
Fe 273.955†	941.1	1.713	mg/L	0.0027	1.713	mg/L	0.0027 0.16%
K 766.490†	24409.5	8.024	mg/L	0.0091	8.024	mg/L	0.0091 0.11%
Mg 279.077†	951671.5	39.78	mg/L	0.045	39.78	mg/L	0.045 0.11%
Mn 257.610†	69993.4	0.0623	mg/L	0.00014	0.0623	mg/L	0.00014 0.22%
Na 589.592†	584425.3	67.14	mg/L	0.419	67.14	mg/L	0.419 0.62%
Ni 231.604†	-18.1	-0.0003	mg/L	0.00013	-0.0003	mg/L	0.00013 38.11%
Pb 220.353†	-126.0	-0.0088	mg/L	0.00095	-0.0088	mg/L	0.00095 10.80%
Sb 206.836†	-32.9	-0.0073	mg/L	0.00353	-0.0073	mg/L	0.00353 48.47%
Se 196.026†	-39.3	-0.0062	mg/L	0.00154	-0.0062	mg/L	0.00154 24.92%
Tl 190.801†	-57.9	-0.0368	mg/L	0.00470	-0.0368	mg/L	0.00470 12.77%
V 292.402†	180.8	0.0010	mg/L	0.00027	0.0010	mg/L	0.00027 27.38%
Zn 213.857†	22.3	0.0073	mg/L	0.00531	0.0073	mg/L	0.00531 73.29%
Pb†	-11.3	-0.0942	mg/L	0.01688	-0.0942	mg/L	0.01688 17.92%
Ag 338.289†	271.8	0.0024	mg/L	0.00071	0.0024	mg/L	0.00071 28.99%

Sequence No.: 54 **Autosampler Location: 67**
Sample ID: 150382-11 **Date Collected: 2/10/2015 3:10:30 PM**
Analyst: AMM **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol: 50 mL**
Dilution: **Sample Prep Vol: 50 mL**
Wash Time: 75 **Auto Dilution Factor: 1**

Nebulizer Parameters: 150382-11

Analyte	Back Pressure	Flow
All	236.0 kPa	0.55 L/min

Mean Data: 150382-11

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	1624834.5	0.9390	mg/L	0.00257				0.27%
Ag 328.068†	-556.9	-0.0019	mg/L	0.00015	-0.0019	mg/L	0.00015	7.99%
Al 308.215†	15.7	0.0266	mg/L	0.03279	0.0266	mg/L	0.03279	123.34%
As 188.979†	-11.1	0.0011	mg/L	0.00149	0.0011	mg/L	0.00149	131.29%
Ba 233.527†	10626.6	0.0481	mg/L	0.00039	0.0481	mg/L	0.00039	0.81%
Be 313.107†	-190.3	-0.0001	mg/L	0.00003	-0.0001	mg/L	0.00003	35.00%
Ca 317.933†	746896.8	151.8	mg/L	1.37	151.8	mg/L	1.37	0.90%
Cd 226.502†	34.2	-0.0015	mg/L	0.00026	-0.0015	mg/L	0.00026	17.49%
Co 228.616†	120.4	0.0022	mg/L	0.00014	0.0022	mg/L	0.00014	6.43%
Cr 267.716†	56.9	0.0005	mg/L	0.00031	0.0005	mg/L	0.00031	62.68%
Cu 324.752†	1209.6	0.0053	mg/L	0.00039	0.0053	mg/L	0.00039	7.35%
Fe 273.955†	4312.7	7.848	mg/L	0.0202	7.848	mg/L	0.0202	0.26%
K 766.490†	34720.7	11.41	mg/L	0.075	11.41	mg/L	0.075	0.66%
Mg 279.077†	977664.7	40.87	mg/L	0.052	40.87	mg/L	0.052	0.13%
Mn 257.610†	1398860.8	1.246	mg/L	0.0019	1.246	mg/L	0.0019	0.15%
Na 589.592†	956378.7	109.9	mg/L	0.47	109.9	mg/L	0.47	0.43%
Ni 231.604†	137.1	0.0026	mg/L	0.00010	0.0026	mg/L	0.00010	3.66%
Pb 220.353†	-6.4	0.0022	mg/L	0.00253	0.0022	mg/L	0.00253	116.80%
Sb 206.836†	-64.4	-0.0123	mg/L	0.00299	-0.0123	mg/L	0.00299	24.28%
Se 196.026†	-31.8	-0.0033	mg/L	0.00180	-0.0033	mg/L	0.00180	54.61%
Tl 190.801†	-56.0	-0.0342	mg/L	0.00436	-0.0342	mg/L	0.00436	12.73%
V 292.402†	200.2	0.0011	mg/L	0.00007	0.0011	mg/L	0.00007	6.11%
Zn 213.857†	27.3	0.0088	mg/L	0.00020	0.0088	mg/L	0.00020	2.31%
Pb†	-10.3	-0.0782	mg/L	0.01278	-0.0782	mg/L	0.01278	16.34%
Ag 338.289†	10.4	0.0001	mg/L	0.00214	0.0001	mg/L	0.00214	>999.9%

Sequence No.: 55 **Autosampler Location: 68**
Sample ID: 150382-12 **Date Collected: 2/10/2015 3:14:48 PM**

Analyst: AMM
Initial Sample Wt:
Dilution:
Wash Time: 75

Data Type: Original
Initial Sample Vol: 50 mL
Sample Prep Vol: 50 mL
Auto Dilution Factor: 1

Nebulizer Parameters: 150382-12

Analyte	Back Pressure	Flow
All	236.0 kPa	0.55 L/min

Mean Data: 150382-12

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	1662200.8	0.9606	mg/L	0.00724				0.75%
Ag 328.068†	271.6	-0.0006	mg/L	0.00016	-0.0006	mg/L	0.00016	25.47%
Al 308.215†	-10.2	-0.0172	mg/L	0.00421	-0.0172	mg/L	0.00421	24.44%
As 188.979†	-5.1	0.0021	mg/L	0.00286	0.0021	mg/L	0.00286	139.27%
Ba 233.527†	14072.5	0.0638	mg/L	0.00009	0.0638	mg/L	0.00009	0.14%
Be 313.107†	-139.4	-0.0001	mg/L	0.00002	-0.0001	mg/L	0.00002	28.35%
Ca 317.933†	647559.6	131.6	mg/L	0.68	131.6	mg/L	0.68	0.52%
Cd 226.502†	6.5	-0.0009	mg/L	0.00004	-0.0009	mg/L	0.00004	4.13%
Co 228.616†	46.3	0.0008	mg/L	0.00001	0.0008	mg/L	0.00001	0.61%
Cr 267.716†	-27.6	-0.0002	mg/L	0.00001	-0.0002	mg/L	0.00001	3.51%
Cu 324.752†	620.4	0.0022	mg/L	0.00055	0.0022	mg/L	0.00055	24.87%
Fe 273.955†	37.5	0.0683	mg/L	0.00128	0.0683	mg/L	0.00128	1.87%
K 766.490†	32470.8	10.67	mg/L	0.086	10.67	mg/L	0.086	0.81%
Mg 279.077†	761499.8	31.83	mg/L	0.047	31.83	mg/L	0.047	0.15%
Mn 257.610†	319296.0	0.2843	mg/L	0.00011	0.2843	mg/L	0.00011	0.04%
Na 589.592†	362163.3	41.60	mg/L	0.273	41.60	mg/L	0.273	0.66%
Ni 231.604†	171.4	0.0033	mg/L	0.00018	0.0033	mg/L	0.00018	5.60%
Pb 220.353†	-90.1	-0.0057	mg/L	0.00135	-0.0057	mg/L	0.00135	23.67%
Sb 206.836†	-30.2	-0.0073	mg/L	0.00342	-0.0073	mg/L	0.00342	46.65%
Se 196.026†	-21.7	0.0005	mg/L	0.00218	0.0005	mg/L	0.00218	472.83%
Tl 190.801†	-52.4	-0.0327	mg/L	0.00621	-0.0327	mg/L	0.00621	18.98%
V 292.402†	26.5	0.0001	mg/L	0.00039	0.0001	mg/L	0.00039	272.09%
Zn 213.857†	34.5	0.0172	mg/L	0.00183	0.0172	mg/L	0.00183	10.64%
Pb†	-2.1	0.0048	mg/L	0.01190	0.0048	mg/L	0.01190	247.46%
Ag 338.289†	245.3	0.0022	mg/L	0.00247	0.0022	mg/L	0.00247	112.65%

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Sequence No.: 56
Sample ID: 150382-13
Analyst: AMM
Initial Sample Wt:
Dilution:
Wash Time: 75

Autosampler Location: 69
Date Collected: 2/10/2015 3:19:03 PM
Data Type: Original
Initial Sample Vol: 50 mL
Sample Prep Vol: 50 mL
Auto Dilution Factor: 1

Nebulizer Parameters: 150382-13

Analyte	Back Pressure	Flow
All	236.0 kPa	0.55 L/min

Mean Data: 150382-13

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	1636369.4	0.9456	mg/L	0.00009				0.01%
Ag 328.068†	-1032.4	-0.0019	mg/L	0.00104	-0.0019	mg/L	0.00104	53.54%
Al 308.215†	13.4	0.0226	mg/L	0.00601	0.0226	mg/L	0.00601	26.61%
As 188.979†	2.6	0.0069	mg/L	0.00115	0.0069	mg/L	0.00115	16.65%
Ba 233.527†	34279.4	0.1553	mg/L	0.00060	0.1553	mg/L	0.00060	0.39%
Be 313.107†	-84.9	-0.0000	mg/L	0.00001	-0.0000	mg/L	0.00001	13.70%
Ca 317.933†	735829.9	149.5	mg/L	0.87	149.5	mg/L	0.87	0.58%
Cd 226.502†	90.8	-0.0014	mg/L	0.00003	-0.0014	mg/L	0.00003	2.36%
Co 228.616†	40.2	0.0007	mg/L	0.00011	0.0007	mg/L	0.00011	14.55%
Cr 267.716†	-26.0	-0.0000	mg/L	0.00020	-0.0000	mg/L	0.00020	430.80%
Cu 324.752†	232.2	0.0025	mg/L	0.00007	0.0025	mg/L	0.00007	2.77%
Fe 273.955†	7477.5	13.61	mg/L	0.074	13.61	mg/L	0.074	0.54%
K 766.490†	35541.8	11.68	mg/L	0.040	11.68	mg/L	0.040	0.34%
Mg 279.077†	826331.8	34.54	mg/L	0.036	34.54	mg/L	0.036	0.10%
Mn 257.610†	941029.5	0.8380	mg/L	0.00000	0.8380	mg/L	0.00000	0.00%

Na 589.592†	512297.4	58.85 mg/L	0.324	58.85 mg/L	0.324	0.55%
Ni 231.604†	15.7	0.0003 mg/L	0.00034	0.0003 mg/L	0.00034	111.41%
Pb 220.353†	-65.8	-0.0025 mg/L	0.00075	-0.0025 mg/L	0.00075	30.02%
Sb 206.836†	-73.6	-0.0121 mg/L	0.00106	-0.0121 mg/L	0.00106	8.78%
Se 196.026†	-23.7	-0.0017 mg/L	0.00293	-0.0017 mg/L	0.00293	171.27%
Tl 190.801†	-47.3	-0.0278 mg/L	0.01504	-0.0278 mg/L	0.01504	54.16%
V 292.402†	212.3	0.0012 mg/L	0.00003	0.0012 mg/L	0.00003	2.77%
Zn 213.857†	32.4	0.0128 mg/L	0.00294	0.0128 mg/L	0.00294	22.99%
Pb†	-4.2	-0.0133 mg/L	0.01447	-0.0133 mg/L	0.01447	109.08%
Ag 338.289†	293.2	0.0026 mg/L	0.00091	0.0026 mg/L	0.00091	34.79%

Sequence No.: 57 **Autosampler Location: 7**
Sample ID: CCV **Date Collected: 2/10/2015 3:23:22 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
Wash Time: 75 **Auto Dilution Factor: 1**

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	236.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	1614876.3	0.9332	mg/L	0.00149				0.16%
Ag 328.068†	295145.8	1.228	mg/L	0.0001	1.228	mg/L	0.0001	0.01%
QC value within limits for Ag 328.068 Recovery = 98.22%								
Al 308.215†	5891.6	9.940	mg/L	0.1022	9.940	mg/L	0.1022	1.03%
QC value within limits for Al 308.215 Recovery = 99.40%								
As 188.979†	1284.3	0.4958	mg/L	0.00083	0.4958	mg/L	0.00083	0.17%
QC value within limits for As 188.979 Recovery = 99.17%								
Ba 233.527†	2236942.3	10.13	mg/L	0.021	10.13	mg/L	0.021	0.20%
QC value within limits for Ba 233.527 Recovery = 101.35%								
Be 313.107†	586738.7	0.2554	mg/L	0.00056	0.2554	mg/L	0.00056	0.22%
QC value within limits for Be 313.107 Recovery = 102.15%								
Ca 317.933†	127696.7	25.95	mg/L	0.143	25.95	mg/L	0.143	0.55%
QC value within limits for Ca 317.933 Recovery = 103.81%								
Cd 226.502†	23650.3	0.2574	mg/L	0.00102	0.2574	mg/L	0.00102	0.39%
QC value within limits for Cd 226.502 Recovery = 102.98%								
Co 228.616†	144181.2	2.613	mg/L	0.0021	2.613	mg/L	0.0021	0.08%
QC value within limits for Co 228.616 Recovery = 104.54%								
Cr 267.716†	136449.3	0.9904	mg/L	0.00092	0.9904	mg/L	0.00092	0.09%
QC value within limits for Cr 267.716 Recovery = 99.04%								
Cu 324.752†	350371.5	1.246	mg/L	0.0001	1.246	mg/L	0.0001	0.01%
QC value within limits for Cu 324.752 Recovery = 99.64%								
Fe 273.955†	2730.1	4.925	mg/L	0.0089	4.925	mg/L	0.0089	0.18%
QC value within limits for Fe 273.955 Recovery = 98.50%								
K 766.490†	76181.2	25.04	mg/L	0.205	25.04	mg/L	0.205	0.82%
QC value within limits for K 766.490 Recovery = 100.17%								
Mg 279.077†	610062.5	25.50	mg/L	0.002	25.50	mg/L	0.002	0.01%
QC value within limits for Mg 279.077 Recovery = 102.00%								
Mn 257.610†	2846144.7	2.535	mg/L	0.0031	2.535	mg/L	0.0031	0.12%
QC value within limits for Mn 257.610 Recovery = 101.40%								
Na 589.592†	212535.8	24.42	mg/L	0.104	24.42	mg/L	0.104	0.43%
QC value within limits for Na 589.592 Recovery = 97.66%								
Ni 231.604†	132427.9	2.542	mg/L	0.0021	2.542	mg/L	0.0021	0.08%
QC value within limits for Ni 231.604 Recovery = 101.69%								
Pb 220.353†	5854.9	0.5023	mg/L	0.00068	0.5023	mg/L	0.00068	0.14%
QC value within limits for Pb 220.353 Recovery = 100.45%								
Sb 206.836†	21239.3	5.155	mg/L	0.0129	5.155	mg/L	0.0129	0.25%
QC value within limits for Sb 206.836 Recovery = 103.11%								
Se 196.026†	1457.0	0.4987	mg/L	0.00544	0.4987	mg/L	0.00544	1.09%
QC value within limits for Se 196.026 Recovery = 99.75%								
Tl 190.801†	781.4	0.5205	mg/L	0.00038	0.5205	mg/L	0.00038	0.07%
QC value within limits for Tl 190.801 Recovery = 104.09%								
V 292.402†	471502.5	2.597	mg/L	0.0024	2.597	mg/L	0.0024	0.09%
QC value within limits for V 292.402 Recovery = 103.86%								
Zn 213.857†	3216.3	2.654	mg/L	0.0096	2.654	mg/L	0.0096	0.36%

QC value within limits for Zn 213.857 Recovery = 106.14%

Pb†	43.1	0.4607 mg/L	0.08737	0.4607 mg/L	0.08737	18.97%

QC value within limits for Pb Recovery = 92.13%

Ag 338.289†	136696.9	1.250 mg/L	0.0011	1.250 mg/L	0.0011	0.08%

All analyte(s) passed QC.

Sequence No.: 58
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 75

Autosampler Location: 1
Date Collected: 2/10/2015 3:27:39 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	236.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	1680809.8	0.9713	mg/L	0.00412				0.4
Ag 328.068†	8.8	0.0000	mg/L	0.00097	0.0000	mg/L	0.00097	>999.9
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	-8.3	-0.0141	mg/L	0.02112	-0.0141	mg/L	0.02112	150.10
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	-3.4	-0.0013	mg/L	0.00044	-0.0013	mg/L	0.00044	33.26%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	44.7	0.0002	mg/L	0.00005	0.0002	mg/L	0.00005	23.05%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	39.9	0.0000	mg/L	0.00000	0.0000	mg/L	0.00000	10.54%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	-163.6	-0.0332	mg/L	0.00382	-0.0332	mg/L	0.00382	11.50%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 226.502†	29.5	0.0003	mg/L	0.00001	0.0003	mg/L	0.00001	2.96%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	3.8	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	15.11%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	49.7	0.0004	mg/L	0.00010	0.0004	mg/L	0.00010	26.60%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	21.9	0.0001	mg/L	0.00038	0.0001	mg/L	0.00038	483.92%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 273.955†	3.4	0.0062	mg/L	0.00079	0.0062	mg/L	0.00079	12.71%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490†	-146.6	-0.0482	mg/L	0.02001	-0.0482	mg/L	0.02001	41.54%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 279.077†	12.6	0.0005	mg/L	0.00159	0.0005	mg/L	0.00159	301.73%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	78.4	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	16.3
QC value within limits for Mn 257.610 Recovery = Not calculated								
Na 589.592†	-14443.3	-1.659	mg/L	0.0080	-1.659	mg/L	0.0080	0.46
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	14.7	0.0003	mg/L	0.00066	0.0003	mg/L	0.00066	233.71
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	18.1	0.0015	mg/L	0.00057	0.0015	mg/L	0.00057	36.87%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	31.7	0.0077	mg/L	0.00264	0.0077	mg/L	0.00264	34.24%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-3.0	-0.0010	mg/L	0.00230	-0.0010	mg/L	0.00230	220.22%
QC value within limits for Se 196.026 Recovery = Not calculated								
Tl 190.801†	0.4	0.0003	mg/L	0.00170	0.0003	mg/L	0.00170	566.78%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	78.0	0.0004	mg/L	0.00095	0.0004	mg/L	0.00095	220.49%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 213.857†	-1.8	-0.0015	mg/L	0.00071	-0.0015	mg/L	0.00071	48.25%
QC value within limits for Zn 213.857 Recovery = Not calculated								
Pb†	-2.0	-0.0217	mg/L	0.00581	-0.0217	mg/L	0.00581	26.77%
QC value within limits for Pb Recovery = Not calculated								
Ag 338.289†	-109.4	-0.0010	mg/L	0.00120	-0.0010	mg/L	0.00120	123.16%

All analyte(s) passed QC.

Sequence No.: 59
Sample ID: LLREF
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 75

Autosampler Location: 2
Date Collected: 2/10/2015 3:31:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: LLREF

Analyte	Back Pressure	Flow
All	235.0 kPa	0.55 L/min

Mean Data: LLREF

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	1730078.0	0.9998	mg/L	0.00294				0.29%
Ag 328.068†	2629.6	0.0109	mg/L	0.00068	0.0109	mg/L	0.00068	6.20%
QC value within limits for Ag 328.068 Recovery = 109.26%								
Al 308.215†	118.0	0.1995	mg/L	0.00503	0.1995	mg/L	0.00503	2.52%
QC value within limits for Al 308.215 Recovery = 99.75%								
As 188.979†	19.5	0.0076	mg/L	0.00330	0.0076	mg/L	0.00330	43.43%
QC value within limits for As 188.979 Recovery = 75.89%								
Ba 233.527†	24543.1	0.1112	mg/L	0.00003	0.1112	mg/L	0.00003	0.03%
QC value within limits for Ba 233.527 Recovery = 111.19%								
Be 313.107†	11893.9	0.0052	mg/L	0.00004	0.0052	mg/L	0.00004	0.73%
QC value within limits for Be 313.107 Recovery = 103.51%								
Ca 317.933†	12687.5	2.578	mg/L	0.0030	2.578	mg/L	0.0030	0.12%
QC value within limits for Ca 317.933 Recovery = 103.14%								
Cd 226.502†	514.4	0.0056	mg/L	0.00025	0.0056	mg/L	0.00025	4.41%
QC value within limits for Cd 226.502 Recovery = 111.74%								
Co 228.616†	3086.5	0.0559	mg/L	0.00002	0.0559	mg/L	0.00002	0.04%
QC value within limits for Co 228.616 Recovery = 111.89%								
Cr 267.716†	1564.3	0.0114	mg/L	0.00006	0.0114	mg/L	0.00006	0.51%
QC value within limits for Cr 267.716 Recovery = 113.56%								
Cu 324.752†	7588.2	0.0270	mg/L	0.00070	0.0270	mg/L	0.00070	2.58%
QC value within limits for Cu 324.752 Recovery = 107.90%								
Fe 273.955†	58.9	0.1067	mg/L	0.00187	0.1067	mg/L	0.00187	1.75%
QC value within limits for Fe 273.955 Recovery = 106.66%								
K 766.490†	7822.5	2.571	mg/L	0.0329	2.571	mg/L	0.0329	1.28%
QC value within limits for K 766.490 Recovery = 102.85%								
Mg 279.077†	64509.4	2.697	mg/L	0.0006	2.697	mg/L	0.0006	0.02%
QC value within limits for Mg 279.077 Recovery = 107.86%								
Mn 257.610†	17290.0	0.0154	mg/L	0.00009	0.0154	mg/L	0.00009	0.61%
QC value within limits for Mn 257.610 Recovery = 102.68%								
Na 589.592†	8888.5	1.021	mg/L	0.0111	1.021	mg/L	0.0111	1.09%
QC value less than the lower limit for Na 589.592 Recovery = 40.84%								
Ni 231.604†	2367.6	0.0455	mg/L	0.00002	0.0455	mg/L	0.00002	0.04%
QC value within limits for Ni 231.604 Recovery = 113.63%								
Pb 220.353†	99.1	0.0085	mg/L	0.00083	0.0085	mg/L	0.00083	9.71%
QC value within limits for Pb 220.353 Recovery = 85.20%								
Sb 206.836†	262.0	0.0637	mg/L	0.00866	0.0637	mg/L	0.00866	13.61%
QC value within limits for Sb 206.836 Recovery = 106.11%								
Se 196.026†	26.2	0.0091	mg/L	0.00096	0.0091	mg/L	0.00096	10.52%
QC value within limits for Se 196.026 Recovery = 91.02%								
Tl 190.801†	30.3	0.0212	mg/L	0.00487	0.0212	mg/L	0.00487	22.98%
QC value within limits for Tl 190.801 Recovery = 84.79%								
V 292.402†	4851.4	0.0267	mg/L	0.00025	0.0267	mg/L	0.00025	0.94%
QC value within limits for V 292.402 Recovery = 106.90%								
Zn 213.857†	82.7	0.0682	mg/L	0.00073	0.0682	mg/L	0.00073	1.06%
QC value within limits for Zn 213.857 Recovery = 113.67%								
Pb†	-1.8	-0.0184	mg/L	0.00228	-0.0184	mg/L	0.00228	12.38%
Ag 338.289†	1201.5	0.0110	mg/L	0.00264	0.0110	mg/L	0.00264	23.86%

QC Failed. Continue with analysis.

Sequence No.: 60
Sample ID: CCV
Analyst:
Initial Sample Wt:

Autosampler Location: 7
Date Collected: 2/10/2015 3:36:12 PM
Data Type: Original
Initial Sample Vol:

Dilution:
Wash Time: 75

Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	235.0 kPa	0.55 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	1628243.3	0.9409	mg/L	0.00774				0.82%
Ag 328.068†	295074.1	1.227	mg/L	0.0012	1.227	mg/L	0.0012	0.10%
QC value within limits for Ag 328.068 Recovery = 98.20%								
Al 308.215†	5849.8	9.870	mg/L	0.0133	9.870	mg/L	0.0133	0.14%
QC value within limits for Al 308.215 Recovery = 98.70%								
As 188.979†	1287.1	0.4969	mg/L	0.00345	0.4969	mg/L	0.00345	0.70%
QC value within limits for As 188.979 Recovery = 99.38%								
Ba 233.527†	2245716.3	10.17	mg/L	0.028	10.17	mg/L	0.028	0.27%
QC value within limits for Ba 233.527 Recovery = 101.74%								
Be 313.107†	587788.7	0.2558	mg/L	0.00033	0.2558	mg/L	0.00033	0.13%
QC value within limits for Be 313.107 Recovery = 102.34%								
Ca 317.933†	126902.0	25.79	mg/L	0.366	25.79	mg/L	0.366	1.42%
QC value within limits for Ca 317.933 Recovery = 103.16%								
Cd 226.502†	23783.7	0.2589	mg/L	0.00114	0.2589	mg/L	0.00114	0.44%
QC value within limits for Cd 226.502 Recovery = 103.56%								
Co 228.616†	144530.0	2.620	mg/L	0.0055	2.620	mg/L	0.0055	0.21%
QC value within limits for Co 228.616 Recovery = 104.79%								
Cr 267.716†	136597.0	0.9914	mg/L	0.00001	0.9914	mg/L	0.00001	0.00%
QC value within limits for Cr 267.716 Recovery = 99.14%								
Cu 324.752†	350194.5	1.245	mg/L	0.0010	1.245	mg/L	0.0010	0.08%
QC value within limits for Cu 324.752 Recovery = 99.59%								
Fe 273.955†	2724.5	4.915	mg/L	0.0570	4.915	mg/L	0.0570	1.16%
QC value within limits for Fe 273.955 Recovery = 98.30%								
K 766.490†	75976.6	24.97	mg/L	0.392	24.97	mg/L	0.392	1.57%
QC value within limits for K 766.490 Recovery = 99.90%								
Mg 279.077†	613120.8	25.63	mg/L	0.051	25.63	mg/L	0.051	0.20%
QC value within limits for Mg 279.077 Recovery = 102.51%								
Mn 257.610†	2854908.2	2.543	mg/L	0.0047	2.543	mg/L	0.0047	0.19%
QC value within limits for Mn 257.610 Recovery = 101.71%								
Na 589.592†	210628.5	24.20	mg/L	0.352	24.20	mg/L	0.352	1.46%
QC value within limits for Na 589.592 Recovery = 96.79%								
Ni 231.604†	133131.0	2.556	mg/L	0.0007	2.556	mg/L	0.0007	0.03%
QC value within limits for Ni 231.604 Recovery = 102.23%								
Pb 220.353†	5856.5	0.5024	mg/L	0.00898	0.5024	mg/L	0.00898	1.79%
QC value within limits for Pb 220.353 Recovery = 100.49%								
Sb 206.836†	21204.3	5.147	mg/L	0.0550	5.147	mg/L	0.0550	1.07%
QC value within limits for Sb 206.836 Recovery = 102.94%								
Se 196.026†	1450.6	0.4965	mg/L	0.00454	0.4965	mg/L	0.00454	0.91%
QC value within limits for Se 196.026 Recovery = 99.30%								
Tl 190.801†	785.6	0.5234	mg/L	0.00637	0.5234	mg/L	0.00637	1.22%
QC value within limits for Tl 190.801 Recovery = 104.68%								
V 292.402†	472369.2	2.601	mg/L	0.0053	2.601	mg/L	0.0053	0.20%
QC value within limits for V 292.402 Recovery = 104.05%								
Zn 213.857†	3196.1	2.637	mg/L	0.0273	2.637	mg/L	0.0273	1.03%
QC value within limits for Zn 213.857 Recovery = 105.47%								
Pb†	45.2	0.4829	mg/L	0.00940	0.4829	mg/L	0.00940	1.95%
QC value within limits for Pb Recovery = 96.59%								
Ag 338.289†	136904.3	1.252	mg/L	0.0001	1.252	mg/L	0.0001	0.01%

All analyte(s) passed QC.

Sequence No.: 61
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:
Wash Time: 75

Autosampler Location: 1
Date Collected: 2/10/2015 3:40:30 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	235.0 kPa	0.55 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	1659458.9	0.9590	mg/L	0.00858				0.89%
Ag 328.068†	490.9	0.0020	mg/L	0.00038	0.0020	mg/L	0.00038	18.55%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 308.215†	0.6	0.0010	mg/L	0.00359	0.0010	mg/L	0.00359	352.38%
QC value within limits for Al 308.215 Recovery = Not calculated								
As 188.979†	-7.3	-0.0028	mg/L	0.00111	-0.0028	mg/L	0.00111	39.35%
QC value within limits for As 188.979 Recovery = Not calculated								
Ba 233.527†	66.1	0.0003	mg/L	0.00009	0.0003	mg/L	0.00009	30.14%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-36.7	-0.0000	mg/L	0.00001	-0.0000	mg/L	0.00001	40.39%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 317.933†	-172.8	-0.0351	mg/L	0.00061	-0.0351	mg/L	0.00061	1.73%
QC value within limits for Ca 317.933 Recovery = Not calculated								
Cd 226.502†	13.4	0.0001	mg/L	0.00023	0.0001	mg/L	0.00023	159.6%
QC value within limits for Cd 226.502 Recovery = Not calculated								
Co 228.616†	14.3	0.0003	mg/L	0.00003	0.0003	mg/L	0.00003	12.0%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	40.5	0.0003	mg/L	0.00010	0.0003	mg/L	0.00010	34.15%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	-194.9	-0.0007	mg/L	0.00013	-0.0007	mg/L	0.00013	18.65%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 273.955†	6.9	0.0126	mg/L	0.01758	0.0126	mg/L	0.01758	140.06%
QC value within limits for Fe 273.955 Recovery = Not calculated								
K 766.490†	-140.6	-0.0462	mg/L	0.00160	-0.0462	mg/L	0.00160	3.45%
QC value within limits for K 766.490 Recovery = Not calculated								
Mg 279.077†	107.5	0.0045	mg/L	0.00249	0.0045	mg/L	0.00249	55.36%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	88.6	0.0001	mg/L	0.00000	0.0001	mg/L	0.00000	3.54%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Na 589.592†	-14442.7	-1.659	mg/L	0.0152	-1.659	mg/L	0.0152	0.91%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	37.2	0.0007	mg/L	0.00013	0.0007	mg/L	0.00013	17.86%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	12.9	0.0011	mg/L	0.00142	0.0011	mg/L	0.00142	129.38%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	1.3	0.0003	mg/L	0.00336	0.0003	mg/L	0.00336	>999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-9.9	-0.0034	mg/L	0.00556	-0.0034	mg/L	0.00556	162.16%
QC value within limits for Se 196.026 Recovery = Not calculated								
Tl 190.801†	6.3	0.0045	mg/L	0.00698	0.0045	mg/L	0.00698	154.22%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	129.7	0.0007	mg/L	0.00018	0.0007	mg/L	0.00018	24.8%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 213.857†	4.2	0.0035	mg/L	0.00126	0.0035	mg/L	0.00126	36.3%
QC value within limits for Zn 213.857 Recovery = Not calculated								
Pb†	2.3	0.0251	mg/L	0.01083	0.0251	mg/L	0.01083	43.24%
QC value within limits for Pb Recovery = Not calculated								
Ag 338.289†	-213.0	-0.0019	mg/L	0.00067	-0.0019	mg/L	0.00067	35.39%

All analyte(s) passed QC.

Sequence No.: 62
Sample ID: Sample070
Analyst: AMM
Initial Sample Wt:
Dilution:
Wash Time: 75
User canceled analysis.

Autosampler Location: 70
Date Collected: 2/10/2015 3:44:47 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:
Auto Dilution Factor: 1

HCl lot#: C471251
HNO3 lot #: C472038
TCLP Fluid#: —

Spike 1 lot#: 091514
Spike 2 lot#: 1 @500mL
Spike 3 lot#:
Spike 4 lot#: 031414 @2mL
Temperature: 94°C

METALS PREP - aqueous

DATE: 2-9-15
INITIALS: JG
Page 1 of 1

PrepBatch: PB150209WW
QC Batch: QC150209WW

Lab Sample #	Sample Type	Method	Metals	Initial Volume (ml)	Final Volume (ml)	Comments	CC
Blk	W	3005		50	50		
LCS	↓			↓	↓		
LCSdup							
352-01	GW		JMet1			~~ASpec1~~ B Na	P3
-02	↓		↓			Na, Fe, Mn, As	↓
-03						Na	
-04						Na, Fe, Mn, As	
-05						↓	↓
-06						Na	
-07						Na, Fe, Mn, As	P3-1
-08						Na	P3
-09						Na, Fe, Mn, As	↓
-10						Na	
-11						↓	
-12						Na, Fe, Mn, As	
-13						↓	↓
-07 dup						↓	P3-1
-07 spk	↓		↓	↓	↓	↓	↓

Digestion Method: EPA SW-846 3005 (ICP)

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www.adirondackenvironmental.com

Paradigm Environmental Services
179 Lake Avenue
Rochester, New York 14608

Attention: Valentina Miller

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TITLE PAGE

On February 6, 2015 thirteen water samples were received by Adirondack Environmental Services, Inc. from Paradigm Environmental Services. These samples were analyzed for Total Organic Carbon. The project was completed on February 24, 2015.

Laboratory Manager

Date: 2/24/15

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SAMPLE DATA

SUMMARY PACKAGE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY

Customer Sample Code	Laboratory Sample Code	*VOA GC/MS Method	*BNA GC/MS Method	*PCB GC Method	*Pest GC Method	*Herb GC Method	*Metals	*Other CN
LI-RW1-PI9	150206016-001							X
LI-RW2-PI9	150206016-002							X
LI-RW3-PI9	150206016-003							X
LI-RW5-PI9	150206016-004							X
LI-B102-MW-PI9	150206016-005							X
LI-B106-MW-PI9	150206016-006							X
LI-B108-MW-PI9	150206016-007							X
LI-RW12-PI9	150206016-008							X
LI-RW6-PI9	150206016-009							X
LI-RW7-PI9	150206016-010							X
LI-RW4-PI9	150206016-011							X
LI-RW9-PI9	150206016-012							X
LI-Dup-PI9	150206016-013							X

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSES

Laboratory Sample ID	Matrix	Metals Requested	Date Rec'd at Lab	Date Prepared	Date Analyzed
150206016-001	WATER	Total Organic Carbon	2/6/15		2/12/15
150206016-002	WATER	Total Organic Carbon	2/6/15		2/12/15
150206016-003	WATER	Total Organic Carbon	2/6/15		2/12/15
150206016-004	WATER	Total Organic Carbon	2/6/15		2/12/15
150206016-005	WATER	Total Organic Carbon	2/6/15		2/12/15
150206016-006	WATER	Total Organic Carbon	2/6/15		2/12/15
150206016-007	WATER	Total Organic Carbon	2/6/15		2/12/15
150206016-008	WATER	Total Organic Carbon	2/6/15		2/12/15
150206016-009	WATER	Total Organic Carbon	2/6/15		2/12/15
150206016-010	WATER	Total Organic Carbon	2/6/15		2/12/15
150206016-011	WATER	Total Organic Carbon	2/6/15		2/12/15
150206016-012	WATER	Total Organic Carbon	2/6/15		2/12/15
150206016-013	WATER	Total Organic Carbon	2/6/15		2/12/15

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Case Narrative

Client: Paradigm Environmental Services

Case: PA 1503

SDG: LI-B102-MW-PI9

Sample ID	Laboratory Sample ID	Date Received	VTSR	Matrix
LI-RW1-PI9	150206016-001	02/06/15	11:00	Water
LI-RW2-PI9	150206016-002	02/06/15	11:00	Water
LI-RW3-PI9	150206016-003	02/06/15	11:00	Water
LI-RW5-PI9	150206016-004	02/06/15	11:00	Water
LI-B102-MW-PI9	150206016-005	02/06/15	11:00	Water
LI-B106-MW-PI9	150206016-006	02/06/15	11:00	Water
LI-B108-MW-PI9	150206016-007	02/06/15	11:00	Water
LI-RW12-PI9	150206016-008	02/06/15	11:00	Water
LI-RW6-PI9	150206016-009	02/06/15	11:00	Water
LI-RW7-PI9	150206016-010	02/06/15	11:00	Water
LI-RW4-PI9	150206016-011	02/06/15	11:00	Water
LI-RW9-PI9	150206016-012	02/06/15	11:00	Water
LI-Dup-PI9	150206016-013	02/06/15	11:00	Water

Inorganics

1) This project required the analysis of Total Organic Carbon.

2) The samples received on 2/6/15 had a temperature of 5 °C.

3) Sample LI-B108-MW-PI9 (AES sample number 150206016-007) was used as the matrix spike sample for Total Organic Carbon. The recovery for the Total Organic Carbon matrix spike was outside required limits. The recovery for the Total Organic Carbon matrix spike was 50 %. The results for Total Organic Carbon are flagged with an "N" as specified by the protocol. This indicates possible matrix interference.

4) Sample LI-B108-MW-PI9 (AES sample number 150206016-007) was used as the duplicate sample for Total Organic Carbon. The recovery between sample LI-B108-MW-PI9 (AES sample number 150206016-007) and the duplicate sample for the analyte Total Organic Carbon was outside the required limits for sample duplication. This analyte is flagged with an " * " as required by the protocol.

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"I certify that this data package is in compliance with the terms and conditions of the protocol, both technically and for completeness, to the best of my knowledge, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Laboratory Manager

Date: 2/24/15

U.S. EPA - CLP

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CONVENTIONALS ANALYSIS DATA SHEET

LI-B102-MW-PI9

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: PA 1503 SAS No.: SDG No.: LI-B102-MW-PI9

Matrix (soil/water): Water Lab Sample ID: 150206016-005

Level (Low/Med): Low Date Received: 2/6/15

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)	6500		N*	SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Total Petroleum Hydrocarbons				EPA 1664
Cyanide				EPA 335.4
Total Phosphate				SM 4500 P E
Total Suspended Solids				SM 2540D
Color				SM 2120B
Hexavalent Chromium				SM 3500 Cr D

Comments _____

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FORM I - CONV

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CONVENTIONALS ANALYSIS DATA SHEET

LI-B106-MW-PI9

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: PA 1503 SAS No.: SDG No.: LI-B102-MW-PI9

Matrix (soil/water): Water Lab Sample ID: 150206016-006

Level (Low/Med): Low Date Received: 2/6/15

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)	3100		N*	SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Total Petroleum Hydrocarbons				EPA 1664
Cyanide				EPA 335.4
Total Phosphate				SM 4500 P E
Total Suspended Solids				SM 2540D
Color				SM 2120B
Hexavalent Chromium				SM 3500 Cr D

Comments _____

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FORM I - CONV

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CONVENTIONALS ANALYSIS DATA SHEET

LI-B108-MW-PI9

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: PA 1503 SAS No.: SDG No.: LI-B102-MW-PI9

Matrix (soil/water): Water Lab Sample ID: 150206016-007

Level (Low/Med): Low Date Received: 2/6/15

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)	18100		N*	SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Total Petroleum Hydrocarbons				EPA 1664
Cyanide				EPA 335.4
Total Phosphate				SM 4500 P E
Total Suspended Solids				SM 2540D
Color				SM 2120B
Hexavalent Chromium				SM 3500 Cr D

Comments _____

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FORM I - CONV

U.S. EPA - CLP

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CONVENTIONALS ANALYSIS DATA SHEET

LI-RW1-PI9

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: PA 1503 SAS No.: SDG No.: LI-B102-MW-PI9

Matrix (soil/water): Water Lab Sample ID: 150206016-001

Level (Low/Med): Low Date Received: 2/6/15

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)	9900		N*	SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Total Petroleum Hydrocarbons				EPA 1664
Cyanide				EPA 335.4
Total Phosphate				SM 4500 P E
Total Suspended Solids				SM 2540D
Color				SM 2120B
Hexavalent Chromium				SM 3500 Cr D

Comments _____

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FORM I - CONV

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CONVENTIONALS ANALYSIS DATA SHEET

LI-RW2-PI9

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: PA 1503 SAS No.: SDG No.: LI-B102-MW-PI9

Matrix (soil/water): Water Lab Sample ID: 150206016-002

Level (Low/Med): Low Date Received: 2/6/15

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)	9800		N*	SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Total Petroleum Hydrocarbons				EPA 1664
Cyanide				EPA 335.4
Total Phosphate				SM 4500 P E
Total Suspended Solids				SM 2540D
Color				SM 2120B
Hexavalent Chromium				SM 3500 Cr D

Comments _____

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FORM I - CONV

U.S. EPA - CLP

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CONVENTIONALS ANALYSIS DATA SHEET

LI-RW3-PI9

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: PA 1503 SAS No.: SDG No.: LI-B102-MW-PI9

Matrix (soil/water): Water Lab Sample ID: 150206016-003

Level (Low/Med): Low Date Received: 2/6/15

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)	10300		N*	SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Total Petroleum Hydrocarbons				EPA 1664
Cyanide				EPA 335.4
Total Phosphate				SM 4500 P E
Total Suspended Solids				SM 2540D
Color				SM 2120B
Hexavalent Chromium				SM 3500 Cr D

Comments _____

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FORM I - CONV

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CONVENTIONALS ANALYSIS DATA SHEET

LI-RW4-PI9

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: PA 1503 SAS No.: SDG No.: LI-B102-MW-PI9

Matrix (soil/water): Water Lab Sample ID: 150206016-011

Level (Low/Med): Low Date Received: 2/6/15

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)	5900		N*	SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Total Petroleum Hydrocarbons				EPA 1664
Cyanide				EPA 335.4
Total Phosphate				SM 4500 P E
Total Suspended Solids				SM 2540D
Color				SM 2120B
Hexavalent Chromium				SM 3500 Cr D

Comments _____

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FORM I - CONV

U.S. EPA - CLP

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CONVENTIONALS ANALYSIS DATA SHEET

LI-RW5-PI9

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: PA 1503 SAS No.: SDG No.: LI-B102-MW-PI9

Matrix (soil/water): Water Lab Sample ID: 150206016-004

Level (Low/Med): Low Date Received: 2/6/15

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)	4600		N*	SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Total Petroleum Hydrocarbons				EPA 1664
Cyanide				EPA 335.4
Total Phosphate				SM 4500 P E
Total Suspended Solids				SM 2540D
Color				SM 2120B
Hexavalent Chromium				SM 3500 Cr D

Comments _____

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FORM I - CONV

U.S. EPA - CLP

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CONVENTIONALS ANALYSIS DATA SHEET

LI-RW6-PI9

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: PA 1503 SAS No.: SDG No.: LI-B102-MW-PI9

Matrix (soil/water): Water Lab Sample ID: 150206016-009

Level (Low/Med): Low Date Received: 2/6/15

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)	14000		N*	SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Total Petroleum Hydrocarbons				EPA 1664
Cyanide				EPA 335.4
Total Phosphate				SM 4500 P E
Total Suspended Solids				SM 2540D
Color				SM 2120B
Hexavalent Chromium				SM 3500 Cr D

Comments _____

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FORM I - CONV

U.S. EPA - CLP

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CONVENTIONALS ANALYSIS DATA SHEET

LI-RW7-PI9

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: PA 1503 SAS No.: SDG No.: LI-B102-MW-PI9

Matrix (soil/water): Water Lab Sample ID: 150206016-010

Level (Low/Med): Low Date Received: 2/6/15

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)	2500		N*	SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Total Petroleum Hydrocarbons				EPA 1664
Cyanide				EPA 335.4
Total Phosphate				SM 4500 P E
Total Suspended Solids				SM 2540D
Color				SM 2120B
Hexavalent Chromium				SM 3500 Cr D

Comments _____

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FORM I - CONV

U.S. EPA - CLP

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CONVENTIONALS ANALYSIS DATA SHEET

LI-RW9-PI9

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: PA 1503 SAS No.: SDG No.: LI-B102-MW-PI9

Matrix (soil/water): Water Lab Sample ID: 150206016-012

Level (Low/Med): Low Date Received: 2/6/15

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)	2400		N*	SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Total Petroleum Hydrocarbons				EPA 1664
Cyanide				EPA 335.4
Total Phosphate				SM 4500 P E
Total Suspended Solids				SM 2540D
Color				SM 2120B
Hexavalent Chromium				SM 3500 Cr D

Comments _____

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FORM I - CONV

U.S. EPA - CLP

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CONVENTIONALS ANALYSIS DATA SHEET

LI-RW12-PI9

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: PA 1503 SAS No.: SDG No.: LI-B102-MW-PI9

Matrix (soil/water): Water Lab Sample ID: 150206016-008

Level (Low/Med): Low Date Received: 2/6/15

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)	33900		N*	SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Total Petroleum Hydrocarbons				EPA 1664
Cyanide				EPA 335.4
Total Phosphate				SM 4500 P E
Total Suspended Solids				SM 2540D
Color				SM 2120B
Hexavalent Chromium				SM 3500 Cr D

Comments _____

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FORM I - CONV

U.S. EPA - CLP

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CONVENTIONALS ANALYSIS DATA SHEET

LI-Dup-PI9

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: PA 1503 SAS No.: SDG No.: LI-B102-MW-PI9

Matrix (soil/water): Water Lab Sample ID: 150206016-013

Level (Low/Med): Low Date Received: 2/6/15

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)	6000		N*	SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Total Petroleum Hydrocarbons				EPA 1664
Cyanide				EPA 335.4
Total Phosphate				SM 4500 P E
Total Suspended Solids				SM 2540D
Color				SM 2120B
Hexavalent Chromium				SM 3500 Cr D

Comments _____

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FORM I - CONV

U.S. EPA - CLP

6
DUPLICATES

LI-B108-MW-PI9

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: PA 1503 SAS No.: SDG No.: LI-B102-MW-PI9

Matrix (soil/water): Water Level (Low/Med): Low

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Control Limit % R	Sample (S)	C	Duplicate (D)	C	% R	Q	M
TKN as N								
Ammonia, as N								
Nitrate								
COD								
BOD 5								
TOC	20	18100		13900		26.3	*	
TDS								
Sulfate								
Alkalinity								
Total Phenols								
Chloride								
Bromide								
Nitrite								
Oil & Grease								
Cyanide								
Total Phosphate								
Total Suspended Solids								
Color								
Hexavalent Chromium								

Comments _____

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FORM VI - CONV

U.S. EPA - CLP

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SPIKE SAMPLE RECOVERY

LI-B108-MW-PI9

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: PA 1503 SAS No.: SDG No.: LI-B102-MW-PI9

Matrix (soil/water): Water Level (Low/Med): Low

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Control Limit % R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	% R	Q	M
TKN as N									
Ammonia, as N									
Nitrate									
COD									
BOD 5									
TOC	75-125	30600		18100		25000	50	N	
TDS									
Sulfate									
Alkalinity									
Total Phenols									
Chloride									
Bromide									
Nitrite									
Oil & Grease									
Cyanide									
Total Phosphate									
Total Suspended Solids									
Color									
Hexavalent Chromium									

Comments _____

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FORM V (Part 1) - CONV

U.S. EPA - CLP

3
BLANKS

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: PA 1503 SAS No.: SDG No.: LI-B102-MW-PI9

Preparation Blank Matrix: Water

Preparation Blank Concentration Units: ug/L

Analyte	Initial Calib. Blank(ug/L)	C	Continuing Calibration 1	C	2	C	3	C	Prep. Blank	C	Method
TKN as N											SM 4500 NH3 C
Ammonia, as N											EPA 350.1
Nitrate											SM 4500 N03 H
COD											EPA 410.4
BOD 5											SM 5210B
TOC	1000	U	1000	U	1000	U	1000	U	1000	U	SM 5310C
TDS											SM 2540C
Sulfate											EPA 300.0
Alkalinity											SM 2320B
Total Phenols											EPA 420.1
Chloride											EPA 300.0
Bromide											EPA 300.0
Nitrite											SM 4500 N02 B
Total Petroleum Hydrocarbons											EPA 1664
Cyanide											EPA 335.4
Total Phosphate											SM 4500 P E
Total Suspended Solids											SM 2540D
Color											SM 2120B
Hexavalent Chromium											SM 3500 Cr D

Comments _____

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SAMPLE DATA

PACKAGE

Adirondack Environmental Services, Inc.

Experience is the Solution

314 North Pearl Street · Albany, New York 12207 · (518) 434-4546 · Fax (518) 434-0891
www.adirondackenvironmental.com

Case Narrative

Client: Paradigm Environmental Services

Case: PA 1503

SDG: LI-B102-MW-PI9

Sample ID	Laboratory Sample ID	Date Received	VTSR	Matrix
LI-RW1-PI9	150206016-001	02/06/15	11:00	Water
LI-RW2-PI9	150206016-002	02/06/15	11:00	Water
LI-RW3-PI9	150206016-003	02/06/15	11:00	Water
LI-RW5-PI9	150206016-004	02/06/15	11:00	Water
LI-B102-MW-PI9	150206016-005	02/06/15	11:00	Water
LI-B106-MW-PI9	150206016-006	02/06/15	11:00	Water
LI-B108-MW-PI9	150206016-007	02/06/15	11:00	Water
LI-RW12-PI9	150206016-008	02/06/15	11:00	Water
LI-RW6-PI9	150206016-009	02/06/15	11:00	Water
LI-RW7-PI9	150206016-010	02/06/15	11:00	Water
LI-RW4-PI9	150206016-011	02/06/15	11:00	Water
LI-RW9-PI9	150206016-012	02/06/15	11:00	Water
LI-Dup-PI9	150206016-013	02/06/15	11:00	Water

Inorganics

1) This project required the analysis of Total Organic Carbon.

2) The samples received on 2/6/15 had a temperature of 5 °C.

3) Sample LI-B108-MW-PI9 (AES sample number 150206016-007) was used as the matrix spike sample for Total Organic Carbon. The recovery for the Total Organic Carbon matrix spike was outside required limits. The recovery for the Total Organic Carbon matrix spike was 50 %. The results for Total Organic Carbon are flagged with an "N" as specified by the protocol. This indicates possible matrix interference.

4) Sample LI-B108-MW-PI9 (AES sample number 150206016-007) was used as the duplicate sample for Total Organic Carbon. The recovery between sample LI-B108-MW-PI9 (AES sample number 150206016-007) and the duplicate sample for the analyte Total Organic Carbon was outside the required limits for sample duplication. This analyte is flagged with an " * " as required by the protocol.

Experience is the Solution
314 North Pearl Street · Albany, New York 12207 · (518) 434-4546 · Fax (518) 434-0891
www.adirondackenvironmental.com

"I certify that this data package is in compliance with the terms and conditions of the protocol, both technically and for completeness, to the best of my knowledge, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Laboratory Manager

Date: 2/24/15

1502060l6

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

1 of 2

CHAIN OF CUSTODY

ADIRONDACK: ELAP ID: 10709

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:		INVOICE TO:			
COMPANY:	Paradigm Environmental	COMPANY:	Same	LAB PROJECT #:	CLIENT PROJECT #:
ADDRESS:		ADDRESS:			
CITY: STATE: ZIP:		CITY: STATE: ZIP:		TURNAROUND TIME: (WORKING DAYS)	
PHONE: FAX:		PHONE: FAX:		STD / OTHER	
PROJECT NAME/SITE NAME:		ATTN:	Kate Hansen	ATTN:	Meridith Dillman
		COMMENTS:	Please email results to khansen@paradigmenv.com and jdaloia@paradigmenv.com	Date Due:	2/13/15 for data

REQUESTED ANALYSIS

Report J Flags

ASP Cat B package due 2/26
SDG closed
REMARKS
SW-846 HT's

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER OF CONTAINERS	TOC									PARADIGM LAB SAMPLE NUMBER
1	2/3/15	08:50		X	150382-01	WG	2	X									LI-RW-1-PI9
2		09:45			02												LI-RW-2-PI9
3		10:40			03												LI-RW-3-PI9
4		16:20			04												LI-RW-5-PI9
5		14:45			05												LI-B102-MW-PI9
6		13:05			06												LI-B106-MW-PI9
7		11:35			07		6 bottles		-	Do MS/MSD	on	#	07				LI-B108-MW-PI9
8	2/4/15	09:10			08		2										LI-RW-12-PI9
9		10:30			09												LI-RW-6-PI9
10		11:55			10												LI-RW-7-PI9

LAB USE ONLY BELOW THIS LINE

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter		NELAC Compliance	
Container Type:		Y ☐	N ☐
Comments:	not from HRS		
Preservation:		Y ☐	N ☐
Comments:			
Holding Time:		Y ☑	N ☐
Comments:			
Temperature:	5° C	Y ☐	N ☐
Comments:			

Client

Sampled By: [signature] Date/Time: 2/5/15 16:00

Relinquished By: Date/Time:

Received By: [signature] Date/Time: 2-6-15 11:00 AM

Received @ Lab By: Date/Time:

Total Cost:

P.I.F.

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150206016

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

ADIRONDACK: ELAP ID: 10709

REPORT TO:		INVOICE TO:			
COMPANY:	Paradigm Environmental	COMPANY:	Same	LAB PROJECT #:	CLIENT PROJECT #:
ADDRESS:		ADDRESS:			
CITY: STATE: ZIP:		CITY: STATE: ZIP:		TURNAROUND TIME: (WORKING DAYS)	
PHONE: FAX:		PHONE: FAX:		STD OTHER	
PROJECT NAME/SITE NAME:		ATTN:	Kate Hansen	ATTN:	Meridith Dillman	1 2 3 X 5	
		COMMENTS:	Please email results to khansen@paradigmenv.com and jdaloia@paradigmenv.com	Date Due:	

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	TOC										REMARKS	PARADIGM LAB SAMPLE NUMBER				
1	2/4/15	15:05		X	150382-11	WG	2	X										LI-RW-4-PI9			0	1	1
2	↓	13:10		↓	12	↓	↓	↓										LI-RW-9-PI9			0	1	2
3	2/3/15	14:50		↓	13	↓	↓	↓										LI-DUP-PI9			0	1	3
4																							
5																							
6																							
7																							
8																							
9																							
10																							

LAB USE ONLY BELOW THIS LINE

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter	NELAC Compliance	
Container Type: (Comments: wet from ice)	Y ☐	N ☐
Preservation: (Comments:)	Y ☐	N ☐
Holding Time: (Comments:)	Y ☐	N ☐
Temperature: 5°C (Comments:)	Y ☐	N ☐

Client

Sampled By: SP2 Date/Time: 2/5/15 16:00

Relinquished By: UPS Date/Time:

Received By: Date/Time: 2-6-15 11:00A

Received @ Lab By: Date/Time:

Total Cost:

P.I.F.

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Sample ID:	Action:	ActionDate:	ID:	NewLocation:	Purpose:
150206016-001A	Receiving	2/6/2015 11:05:42 AM	log in		
150206016-001A	Logout	2/12/2015 6:39:00 PM	RK	Ravi Kriss	toc
150206016-002A	Receiving	2/6/2015 11:05:42 AM	log in		
150206016-002A	Logout	2/12/2015 6:56:00 PM	RK	Ravi Kriss	toc
150206016-003A	Receiving	2/6/2015 11:05:42 AM	log in		
150206016-003A	Logout	2/12/2015 7:12:00 PM	RK	Ravi Kriss	toc
150206016-004A	Receiving	2/6/2015 11:05:42 AM	log in		
150206016-004A	Logout	2/12/2015 7:29:00 PM	RK	Ravi Kriss	toc
150206016-005A	Receiving	2/6/2015 11:05:42 AM	log in		
150206016-005A	Logout	2/12/2015 7:45:00 PM	RK	Ravi Kriss	toc
150206016-006A	Receiving	2/6/2015 11:05:42 AM	log in		
150206016-006A	Logout	2/12/2015 8:02:00 PM	RK	Ravi Kriss	toc
150206016-007A	Receiving	2/6/2015 11:05:42 AM	log in		
150206016-007A	Logout	2/12/2015 8:18:00 PM	RK	Ravi Kriss	toc
150206016-008A	Receiving	2/6/2015 11:05:42 AM	log in		
150206016-008A	Logout	2/12/2015 9:09:00 PM	RK	Ravi Kriss	toc
150206016-009A	Receiving	2/6/2015 11:05:42 AM	log in		
150206016-009A	Logout	2/12/2015 10:01:00 PM	RK	Ravi Kriss	toc
150206016-010A	Receiving	2/6/2015 11:05:42 AM	log in		
150206016-010A	Logout	2/12/2015 10:18:00 PM	RK	Ravi Kriss	toc
150206016-011A	Receiving	2/6/2015 11:05:42 AM	log in		
150206016-011A	Logout	2/12/2015 10:34:00 PM	RK	Ravi Kriss	toc
150206016-012A	Receiving	2/6/2015 11:05:42 AM	log in		
150206016-012A	Logout	2/12/2015 10:50:00 PM	RK	Ravi Kriss	toc
150206016-013A	Receiving	2/6/2015 11:05:42 AM	log in		
150206016-013A	Logout	2/12/2015 11:59:00 PM	RK	Ravi Kriss	toc

INORGANIC

ANALYSIS

U.S. EPA - CLP

1

CONVENTIONALS ANALYSIS DATA SHEET

LI-B102-MW-PI9

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: PA 1503 SAS No.: SDG No.: LI-B102-MW-PI9

Matrix (soil/water): Water Lab Sample ID: 150206016-005

Level (Low/Med): Low Date Received: 2/6/15

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)	6500		N*	SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Total Petroleum Hydrocarbons				EPA 1664
Cyanide				EPA 335.4
Total Phosphate				SM 4500 P E
Total Suspended Solids				SM 2540D
Color				SM 2120B
Hexavalent Chromium				SM 3500 Cr D

Comments _____

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CONVENTIONALS ANALYSIS DATA SHEET

LI-B106-MW-PI9

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: PA 1503 SAS No.: SDG No.: LI-B102-MW-PI9

Matrix (soil/water): Water Lab Sample ID: 150206016-006

Level (Low/Med): Low Date Received: 2/6/15

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)	3100		N*	SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Total Petroleum Hydrocarbons				EPA 1664
Cyanide				EPA 335.4
Total Phosphate				SM 4500 P E
Total Suspended Solids				SM 2540D
Color				SM 2120B
Hexavalent Chromium				SM 3500 Cr D

Comments _____

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CONVENTIONALS ANALYSIS DATA SHEET

LI-B108-MW-PI9

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: PA 1503 SAS No.: SDG No.: LI-B102-MW-PI9

Matrix (soil/water): Water Lab Sample ID: 150206016-007

Level (Low/Med): Low Date Received: 2/6/15

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)	18100		N*	SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Total Petroleum Hydrocarbons				EPA 1664
Cyanide				EPA 335.4
Total Phosphate				SM 4500 P E
Total Suspended Solids				SM 2540D
Color				SM 2120B
Hexavalent Chromium				SM 3500 Cr D

Comments _____

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CONVENTIONALS ANALYSIS DATA SHEET

LI-RW1-PI9

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: PA 1503 SAS No.: SDG No.: LI-B102-MW-PI9

Matrix (soil/water): Water Lab Sample ID: 150206016-001

Level (Low/Med): Low Date Received: 2/6/15

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)	9900		N*	SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Total Petroleum Hydrocarbons				EPA 1664
Cyanide				EPA 335.4
Total Phosphate				SM 4500 P E
Total Suspended Solids				SM 2540D
Color				SM 2120B
Hexavalent Chromium				SM 3500 Cr D

Comments _____

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CONVENTIONALS ANALYSIS DATA SHEET

LI-RW2-PI9

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: PA 1503 SAS No.: SDG No.: LI-B102-MW-PI9

Matrix (soil/water): Water Lab Sample ID: 150206016-002

Level (Low/Med): Low Date Received: 2/6/15

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)	9800		N*	SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Total Petroleum Hydrocarbons				EPA 1664
Cyanide				EPA 335.4
Total Phosphate				SM 4500 P E
Total Suspended Solids				SM 2540D
Color				SM 2120B
Hexavalent Chromium				SM 3500 Cr D

Comments _____

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CONVENTIONALS ANALYSIS DATA SHEET

LI-RW3-PI9

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: PA 1503 SAS No.: SDG No.: LI-B102-MW-PI9

Matrix (soil/water): Water Lab Sample ID: 150206016-003

Level (Low/Med): Low Date Received: 2/6/15

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)	10300		N*	SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Total Petroleum Hydrocarbons				EPA 1664
Cyanide				EPA 335.4
Total Phosphate				SM 4500 P E
Total Suspended Solids				SM 2540D
Color				SM 2120B
Hexavalent Chromium				SM 3500 Cr D

Comments _____

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CONVENTIONALS ANALYSIS DATA SHEET

LI-RW4-PI9

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: PA 1503 SAS No.: SDG No.: LI-B102-MW-PI9

Matrix (soil/water): Water Lab Sample ID: 150206016-011

Level (Low/Med): Low Date Received: 2/6/15

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)	5900		N*	SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Total Petroleum Hydrocarbons				EPA 1664
Cyanide				EPA 335.4
Total Phosphate				SM 4500 P E
Total Suspended Solids				SM 2540D
Color				SM 2120B
Hexavalent Chromium				SM 3500 Cr D

Comments _____

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CONVENTIONALS ANALYSIS DATA SHEET

LI-RW5-PI9

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: PA 1503 SAS No.: SDG No.: LI-B102-MW-PI9

Matrix (soil/water): Water Lab Sample ID: 150206016-004

Level (Low/Med): Low Date Received: 2/6/15

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)	4600		N*	SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Total Petroleum Hydrocarbons				EPA 1664
Cyanide				EPA 335.4
Total Phosphate				SM 4500 P E
Total Suspended Solids				SM 2540D
Color				SM 2120B
Hexavalent Chromium				SM 3500 Cr D

Comments _____

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CONVENTIONALS ANALYSIS DATA SHEET

LI-RW6-PI9

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: PA 1503 SAS No.: SDG No.: LI-B102-MW-PI9

Matrix (soil/water): Water Lab Sample ID: 150206016-009

Level (Low/Med): Low Date Received: 2/6/15

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)	14000		N*	SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Total Petroleum Hydrocarbons				EPA 1664
Cyanide				EPA 335.4
Total Phosphate				SM 4500 P E
Total Suspended Solids				SM 2540D
Color				SM 2120B
Hexavalent Chromium				SM 3500 Cr D

Comments _____

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CONVENTIONALS ANALYSIS DATA SHEET

LI-RW7-PI9

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: PA 1503 SAS No.: SDG No.: LI-B102-MW-PI9

Matrix (soil/water): Water Lab Sample ID: 150206016-010

Level (Low/Med): Low Date Received: 2/6/15

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)	2500		N*	SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Total Petroleum Hydrocarbons				EPA 1664
Cyanide				EPA 335.4
Total Phosphate				SM 4500 P E
Total Suspended Solids				SM 2540D
Color				SM 2120B
Hexavalent Chromium				SM 3500 Cr D

Comments _____

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CONVENTIONALS ANALYSIS DATA SHEET

LI-RW9-PI9

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: PA 1503 SAS No.: SDG No.: LI-B102-MW-PI9

Matrix (soil/water): Water Lab Sample ID: 150206016-012

Level (Low/Med): Low Date Received: 2/6/15

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)	2400		N*	SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Total Petroleum Hydrocarbons				EPA 1664
Cyanide				EPA 335.4
Total Phosphate				SM 4500 P E
Total Suspended Solids				SM 2540D
Color				SM 2120B
Hexavalent Chromium				SM 3500 Cr D

Comments _____

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FORM I - CONV

U.S. EPA - CLP

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CONVENTIONALS ANALYSIS DATA SHEET

LI-RW12-PI9

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: PA 1503 SAS No.: SDG No.: LI-B102-MW-PI9

Matrix (soil/water): Water Lab Sample ID: 150206016-008

Level (Low/Med): Low Date Received: 2/6/15

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)	33900		N*	SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Total Petroleum Hydrocarbons				EPA 1664
Cyanide				EPA 335.4
Total Phosphate				SM 4500 P E
Total Suspended Solids				SM 2540D
Color				SM 2120B
Hexavalent Chromium				SM 3500 Cr D

Comments _____

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U.S. EPA - CLP

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CONVENTIONALS ANALYSIS DATA SHEET

LI-Dup-PI9

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: PA 1503 SAS No.: SDG No.: LI-B102-MW-PI9

Matrix (soil/water): Water Lab Sample ID: 150206016-013

Level (Low/Med): Low Date Received: 2/6/15

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Concentration	C	Q	Method
Total Kjeldahl Nitrogen, as N				SM 4500 NH3 C
Ammonia, as N				EPA 350.1
Nitrate				SM 4500 N03 H
Chemical Oxygen Demand (COD)				EPA 410.4
Biochemical Oxygen Demand (BOD 5)				SM 5210B
Total Organic Carbon (TOC)	6000		N*	SM 5310C
Total Dissolved Solids (TDS)				SM 2540C
Sulfate				EPA 300.0
Alkalinity				SM 2320B
Total Phenols				EPA 420.1
Chloride				EPA 300.0
Bromide				EPA 300.0
Nitrite				SM 4500 N02 B
Total Petroleum Hydrocarbons				EPA 1664
Cyanide				EPA 335.4
Total Phosphate				SM 4500 P E
Total Suspended Solids				SM 2540D
Color				SM 2120B
Hexavalent Chromium				SM 3500 Cr D

Comments _____

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FORM I - CONV

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: PA 1503 SAS No.: SDG No.: LI-B102-MW-PI9

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units : ug/L

Analyte	Initial Calibration			Continuing Calibration			Method
	TRUE	Found	% R	TRUE	Found	% R	
TKN as N							SM 4500 NH3 C
Ammonia, as N							EPA 350.1
Nitrate							SM 4500 N03 H
COD							EPA 410.4
BOD 5							SM 5210B
TOC	50000	48700	97	50000	50300	101	SM 5310C
TDS							SM 2540C
Sulfate							EPA 300.0
Alkalinity							SM 2320B
Total Phenols							EPA 420.1
Chloride							EPA 300.0
Bromide							EPA 300.0
Nitrite							SM 4500 N02 B
Total Petroleum Hydrocarbons							EPA 1664
Cyanide							EPA 335.4
Total Phosphate							SM 4500 P E
Total Suspended Solids							SM 2540D
Color							SM 2120B
Hexavalent Chromium							SM 3500 Cr D

Comments _____

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U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: PA 1503 SAS No.: SDG No.: LI-B102-MW-PI9

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units : ug/L

Analyte	Continuing Calibration			Continuing Calibration			Method
	TRUE	Found	% R	TRUE	Found	% R	
TKN as N							SM 4500 NH3 C
Ammonia, as N							EPA 350.1
Nitrate							SM 4500 N03 H
COD							EPA 410.4
BOD 5							SM 5210B
TOC	50000	50200	100	50000	49900	100	SM 5310C
TDS							SM 2540C
Sulfate							EPA 300.0
Alkalinity							SM 2320B
Total Phenols							EPA 420.1
Chloride							EPA 300.0
Bromide							EPA 300.0
Nitrite							SM 4500 N02 B
Total Petroleum Hydrocarbons							EPA 1664
Cyanide							EPA 335.4
Total Phosphate							SM 4500 P E
Total Suspended Solids							SM 2540D
Color							SM 2120B
Hexavalent Chromium							SM 3500 Cr D

Comments _____

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U.S. EPA - CLP

2A
CRQL STANDARDS FOR CONVENTIONALS

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: PA 1503 SAS No.: SDG No.: LI-B102-MW-PI9

Initial Calibration Source:

Continuing Calibration Source:

Concentration Units : ug/L

Analyte	Initial Calibration			Initial Calibration			Method
	TRUE	Found	% R	TRUE	Found	% R	
TKN as N							SM 4500 NH3 C
Ammonia, as N							EPA 350.1
Nitrate							SM 4500 N03 H
COD							EPA 410.4
BOD 5							SM 5210B
TOC	1000	1094	109	1000	1855	186	SM 5310C
TDS							SM 2540C
Sulfate							EPA 300.0
Alkalinity							SM 2320B
Total Phenols							EPA 420.1
Chloride							EPA 300.0
Bromide							EPA 300.0
Nitrite							SM 4500 N02 B
Total Petroleum Hydrocarbons							EPA 1664
Cyanide							EPA 335.4
Total Phosphate							SM 4500 P E
Total Suspended Solids							SM 2540D
Color							SM 2120B
Hexavalent Chromium							SM 3500 Cr D

Comments _____

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FORM II (Part 2) - CONV

U.S. EPA - CLP

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BLANKS

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: PA 1503 SAS No.: SDG No.: LI-B102-MW-PI9

Preparation Blank Matrix: Water

Preparation Blank Concentration Units: ug/L

Analyte	Initial Calib. Blank(ug/L)	C	Continuing Calibration 1	C	2	C	3	C	Prep. Blank	C	Method
TKN as N											SM 4500 NH3 C
Ammonia, as N											EPA 350.1
Nitrate											SM 4500 N03 H
COD											EPA 410.4
BOD 5											SM 5210B
TOC	1000	U	1000	U	1000	U	1000	U	1000	U	SM 5310C
TDS											SM 2540C
Sulfate											EPA 300.0
Alkalinity											SM 2320B
Total Phenols											EPA 420.1
Chloride											EPA 300.0
Bromide											EPA 300.0
Nitrite											SM 4500 N02 B
Total Petroleum Hydrocarbons											EPA 1664
Cyanide											EPA 335.4
Total Phosphate											SM 4500 P E
Total Suspended Solids											SM 2540D
Color											SM 2120B
Hexavalent Chromium											SM 3500 Cr D

Comments _____

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FORM III - CONV

U.S. EPA - CLP

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SPIKE SAMPLE RECOVERY

LI-B108-MW-PI9

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: PA 1503 SAS No.: SDG No.: LI-B102-MW-PI9

Matrix (soil/water): Water Level (Low/Med): Low

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Control Limit % R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	% R	Q	M
TKN as N									
Ammonia, as N									
Nitrate									
COD									
BOD 5									
TOC	75-125	30600		18100		25000	50	N	
TDS									
Sulfate									
Alkalinity									
Total Phenols									
Chloride									
Bromide									
Nitrite									
Oil & Grease									
Cyanide									
Total Phosphate									
Total Suspended Solids									
Color									
Hexavalent Chromium									

Comments _____

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FORM V (Part 1) - CONV

U.S. EPA - CLP

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DUPLICATES

LI-B108-MW-PI9

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: PA 1503 SAS No.: SDG No.: LI-B102-MW-PI9

Matrix (soil/water): Water Level (Low/Med): Low

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/Kg dry weight): ug/L

Analyte	Control Limit % R	Sample (S)	C	Duplicate (D)	C	% R	Q	M
TKN as N								
Ammonia, as N								
Nitrate								
COD								
BOD 5								
TOC	20	18100		13900		26.3	*	
TDS								
Sulfate								
Alkalinity								
Total Phenols								
Chloride								
Bromide								
Nitrite								
Oil & Grease								
Cyanide								
Total Phosphate								
Total Suspended Solids								
Color								
Hexavalent Chromium								

Comments _____

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FORM VI - CONV

U.S. EPA - CLP

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LABORATORY CONTROL SAMPLE

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: PA 1503 SAS No.: SDG: LI-B102-MW-PI9

Aqueous LCS Source:

Solid LCS Source:

Concentration Units : ug/L

Analyte	Aqueous (ug/L)			Solid (mg/Kg)					
	TRUE	Found	% R	TRUE	Found	C	Limits		% R
TKN as N									
Ammonia, as N									
Nitrate									
COD									
BOD 5									
TOC	30000	28800	96						
TDS									
Sulfate									
Alkalinity									
Total Phenols									
Chloride									
Bromide									
Nitrite									
Oil & Grease									
Cyanide									
Total Phosphate									
Total Suspended Solids									
Color									
Hexavalent Chromium									

Comments _____

_____

_____

FORM VII - CONV

U.S. EPA - CLP

7

LABORATORY CONTROL SAMPLE

LAB NAME: Adirondack Environmental CONTRACT:

LAB CODE: AES Case No.: PA 1503 SAS No.: SDG: LI-B102-MW-PI9

Aqueous LCS Source:

Solid LCS Source:

Concentration Units : ug/L

Analyte	Aqueous (ug/L)			Solid (mg/Kg)					
	TRUE	Found	% R	TRUE	Found	C	Limits		% R
TKN as N									
Ammonia, as N									
Nitrate									
COD									
BOD 5									
TOC	30000	29900	100						
TDS									
Sulfate									
Alkalinity									
Total Phenols									
Chloride									
Bromide									
Nitrite									
Oil & Grease									
Cyanide									
Total Phosphate									
Total Suspended Solids									
Color									
Hexavalent Chromium									

Comments _____

_____

_____

FORM VII - CONV

RAW QC

DATA

TOC 02121SRK
Sodium Persulfate - WC3-9
21% H_3PO_4 - WC3-79-B
30mg/L - LCS - WC3-79-E
TCU - 520 mg/L 02/12/15 E
CRI - 1.0 mg/L 02/12 RK

Detailed Analysis Report Report Date/Time: 2015/02/13 12:13
Instrument: TOC

Sample ID: cleaning Mode: UTIL
Method ID: Cleaning Procedure Samp. Type: Sample
Calib. ID: toc 20-200ppmC File Name: 02121158
User ID: Wetchem File Vers: 5
Date/Time: 2015/02/12 12:05 Samp. Vers: 1
Cal. Vers: 3 Meth. Vers: 1
ICCal.Ver: 0

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.1380	22.7606	3752634	11.60	14.18	300
2	0.2392	4.7843	1087360	14.09	14.58	89
3	-0.0316	-0.6320	284299	13.25	13.74	77
4	-0.0764	-1.5279	151480	12.89	13.38	70
5	-0.0893	-1.7866	113125	12.79	13.29	69

<<Statistics>> Mean: 0.2360 Std Dev: 0.5217 RSD:221.1
Last Message Given: Max Integration Time Reached

Sample ID: cleaning Mode: UTIL
Method ID: Cleaning Procedure Samp. Type: Sample
Calib. ID: toc 20-200ppmC File Name: 02121158
User ID: Wetchem File Vers: 5
Date/Time: 2015/02/12 12:24 Samp. Vers: 1
Cal. Vers: 3 Meth. Vers: 1
ICCal.Ver: 0

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.0002	0.0035	378530	12.66	13.16	96
2	-0.0852	-1.7034	125455	12.84	13.33	73
3	-0.0886	-1.7727	115183	12.68	13.18	72
4	-0.0947	-1.8943	97148	12.60	13.09	67
5	-0.0949	-1.8972	96722	12.53	13.03	68

<<Statistics>> Mean: -0.0726 Std Dev: 0.0409 RSD: -56.32

Sample ID: cleaning Mode: UTIL
Method ID: Cleaning Procedure Samp. Type: Sample
Calib. ID: toc 20-200ppmC File Name: 02121158
User ID: Wetchem File Vers: 5
Date/Time: 2015/02/12 12:41 Samp. Vers: 1
Cal. Vers: 3 Meth. Vers: 1
ICCal.Ver: 0

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.0011	0.0222	381304	12.62	13.12	96
2	-0.0958	-1.9164	93871	12.74	13.24	69
3	-0.1008	-2.0156	79167	12.66	13.16	67
4	-0.0992	-1.9838	83876	12.64	13.14	69
5	-0.0994	-1.9881	83239	12.66	13.16	68

<<Statistics>> Mean: -0.0788 Std Dev: 0.0447 RSD: -56.74

(Signatures)

Sample ID: blank
Method ID: Blank TC Ranges 3 4 & 5
Calib. ID: Default
User ID: Wetchem
Date/Time: 2015/02/12 13:00
Cal. Vers: 1
ICCal.Ver: 0

Mode: TC
Samp. Type: tBlk34
File Name: 02121158
File Vers: 5
Samp. Vers: 1
Meth. Vers: 1

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.0000	0.0000	202655	12.78	13.28	93
2	0.0000	0.0000	187713	12.84	13.33	89
3	0.0000	0.0000	197597	12.72	13.22	92
4	0.0000	0.0000	200303	12.70	13.19	93
5	0.0000	0.0000	193317	12.77	13.27	91

<<Statistics>> Mean: 196317 Std Dev: 5931.39 RSD: 3.02

5ml TOC Stock QS to 500 ml DI

02/12 RK

Sample ID: ICV 50 mg/l
Method ID: TOC Range 20-200 ppmC
Calib. ID: toc 20-200ppmC
User ID: Wetchem
Date/Time: 2015/02/12 14:25
Cal. Vers: 3
ICCal.Ver: 0

Mode: TOC
Samp. Type: Sample
File Name: 02121158
File Vers: 5
Samp. Vers: 1
Meth. Vers: 1

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	48.6094	24.3047	3800637	12.21	13.21	143
2	48.7592	24.3796	3811742	12.23	13.23	143
3	48.6146	24.3073	3801019	12.30	13.29	139

<<Statistics>> Mean: 48.6611 Std Dev: 0.0850 RSD: 0.17

Sample ID: ICB
Method ID: TOC Range 20-200 ppmC
Calib. ID: toc 20-200ppmC
User ID: Wetchem
Date/Time: 2015/02/12 14:43
Cal. Vers: 3
ICCal.Ver: 0

Mode: TOC
Samp. Type: Sample
File Name: 02121158
File Vers: 5
Samp. Vers: 1
Meth. Vers: 1

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2748	0.1374	217445	12.08	13.08	85
2	0.3004	0.1502	219343	12.05	13.05	86
3	0.2372	0.1186	214654	12.03	13.02	86

<<Statistics>> Mean: 0.2708 Std Dev: 0.0318 RSD: 11.75

Sample ID: CRI 1.0 mg/l
Method ID: TOC Range 20-200 ppmC
Calib. ID: toc 20-200ppmC
User ID: Wetchem

Mode: TOC
Samp. Type: Sample
File Name: 02121158
File Vers: 5

(Signatures)

Date/Time: 2015/02/12 14:59 Samp. Vers: 1
Cal. Vers: 3 Meth. Vers: 1
ICCal.Ver: 0

CRI - 2ml TOC std QS to 100ml DI 02/12 RK

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.1217	0.5608	280226	11.96	12.96	88
2	1.0588	0.5294	275561	12.05	13.04	86
3	1.1019	0.5510	278761	12.04	13.04	87

<<Statistics>> Mean: 1.0941 Std Dev: 0.0322 RSD: 2.94

Sample ID: 150129028-001C Mode: TOC
Method ID: TOC Range 20-200 ppmC Samp. Type: Sample
Calib. ID: toc 20-200ppmC File Name: 02121158
User ID: Wetchem File Vers: 5
Date/Time: 2015/02/12 15:16 Samp. Vers: 1
Cal. Vers: 3 Meth. Vers: 1
ICCal.Ver: 0

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.5026	1.2513	382597	12.01	13.01	151
2	2.1519	1.0760	356600	12.05	13.05	139
3	1.8996	0.9498	337899	12.06	13.05	132

<<Statistics>> Mean: 2.1847 Std Dev: 0.3028 RSD: 13.86

Sample ID: 150204032-003K Mode: TOC
Method ID: TOC Range 20-200 ppmC Samp. Type: Sample
Calib. ID: toc 20-200ppmC File Name: 02121158
User ID: Wetchem File Vers: 5
Date/Time: 2015/02/12 15:35 Samp. Vers: 1
Cal. Vers: 3 Meth. Vers: 1
ICCal.Ver: 0

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	7.6042	3.8021	760794	11.96	12.96	180
2	7.1852	3.5926	729736	12.02	13.02	172
3	7.2023	3.6011	730998	11.99	12.99	168

<<Statistics>> Mean: 7.3306 Std Dev: 0.2371 RSD: 3.23

Sample ID: 150129015-001A Mode: TOC
Method ID: TOC Range 20-200 ppmC Samp. Type: Sample
Calib. ID: toc 20-200ppmC File Name: 02121158
User ID: Wetchem File Vers: 5
Date/Time: 2015/02/12 15:54 Samp. Vers: 1
Cal. Vers: 3 Meth. Vers: 1
ICCal.Ver: 0

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time

pH c2

(Signatures)

PH<2

1	3.6684	1.8342	469023	11.84	12.84	93
2	3.7530	1.8765	475290	11.75	12.75	93
3	3.6202	1.8101	465451	11.76	12.75	93

<<Statistics>> Mean: 3.6805 Std Dev: 0.0672 RSD: 1.83

Sample ID: LCS 30 mg/l
Method ID: TOC Range 20-200 ppmC
Calib. ID: toc 20-200ppmC
User ID: Wetchem
Date/Time: 2015/02/12 16:10
Cal. Vers: 3
ICCal.Ver: 0

Mode: TOC
Samp. Type: Sample
File Name: 02121158
File Vers: 5
Samp. Vers: 1
Meth. Vers: 1

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	28.9248	14.4624	2341352	11.62	12.62	131
2	28.6173	14.3087	2318561	11.62	12.62	130
3	28.9289	14.4644	2341655	11.58	12.58	130

<<Statistics>> Mean: 28.8236 Std Dev: 0.1787 RSD: 0.62

Sample ID: 150129015-002A
Method ID: TOC Range 20-200 ppmC
Calib. ID: toc 20-200ppmC
User ID: Wetchem
Date/Time: 2015/02/12 16:28
Cal. Vers: 3
ICCal.Ver: 0

Mode: TOC
Samp. Type: Sample
File Name: 02121158
File Vers: 5
Samp. Vers: 1
Meth. Vers: 1

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.9723	1.4861	417417	11.34	12.34	95
2	2.9070	1.4535	412580	11.29	12.29	96
3	2.6851	1.3425	396126	11.33	12.33	94

<<Statistics>> Mean: 2.8548 Std Dev: 0.1506 RSD: 5.27

Sample ID: 150129015-003A
Method ID: TOC Range 20-200 ppmC
Calib. ID: toc 20-200ppmC
User ID: Wetchem
Date/Time: 2015/02/12 16:44
Cal. Vers: 3
ICCal.Ver: 0

Mode: TOC
Samp. Type: Sample
File Name: 02121158
File Vers: 5
Samp. Vers: 1
Meth. Vers: 1

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.8311	1.9156	481084	11.14	12.13	94
2	3.8043	1.9021	479093	11.18	12.17	94
3	3.7794	1.8897	477247	11.09	12.08	95

<<Statistics>> Mean: 3.8049 Std Dev: 0.0259 RSD: 0.68

(Signatures)

PH 2.2

Sample ID: 150129015-004A
Method ID: TOC Range 20-200 ppmC
Calib. ID: toc 20-200ppmC
User ID: Wetchem
Date/Time: 2015/02/12 17:00
Cal. Vers: 3
ICCal.Ver: 0

Mode: TOC
Samp. Type: Sample
File Name: 02121158
File Vers: 5
Samp. Vers: 1
Meth. Vers: 1

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.0032	1.5016	419710	10.94	11.94	91
2	2.7675	1.3838	402236	11.05	12.05	90
3	3.0069	1.5035	419984	10.96	11.96	92

<<Statistics>> Mean: 2.9259 Std Dev: 0.1372 RSD: 4.69

Sample ID: 150129015-005A
Method ID: TOC Range 20-200 ppmC
Calib. ID: toc 20-200ppmC
User ID: Wetchem
Date/Time: 2015/02/12 17:16
Cal. Vers: 3
ICCal.Ver: 0

Mode: TOC
Samp. Type: Sample
File Name: 02121158
File Vers: 5
Samp. Vers: 1
Meth. Vers: 1

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.9339	1.4670	414572	10.86	11.85	90
2	2.8974	1.4487	411862	10.81	11.79	91
3	2.9134	1.4567	413055	10.86	11.85	92

<<Statistics>> Mean: 2.9149 Std Dev: 0.0183 RSD: 0.63

Sample ID: 150129015-006A
Method ID: TOC Range 20-200 ppmC
Calib. ID: toc 20-200ppmC
User ID: Wetchem
Date/Time: 2015/02/12 17:32
Cal. Vers: 3
ICCal.Ver: 0

Mode: TOC
Samp. Type: Sample
File Name: 02121158
File Vers: 5
Samp. Vers: 1
Meth. Vers: 1

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	5.1312	2.5656	577464	10.78	11.78	94
2	5.1665	2.5832	580079	10.79	11.79	94
3	5.1594	2.5797	579557	10.76	11.76	95

<<Statistics>> Mean: 5.1524 Std Dev: 0.0187 RSD: 0.36

Sample ID: CCV 50 mg/l
Method ID: TOC Range 20-200 ppmC
Calib. ID: toc 20-200ppmC
User ID: Wetchem
Date/Time: 2015/02/12 17:49
Cal. Vers: 3
ICCal.Ver: 0

Mode: TOC
Samp. Type: Sample
File Name: 02121158
File Vers: 5
Samp. Vers: 1
Meth. Vers: 1

(Signatures)

pH<2

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.1711	0.0856	209759	10.70	11.70	85
2	0.1164	0.0582	205700	10.72	11.72	86
3	0.0251	0.0125	198930	10.75	11.75	83

<<Statistics>> Mean: 0.1042 Std Dev: 0.0738 RSD: 70.83

Sample ID: CCB
Method ID: TOC Range 20-200 ppmC
Calib. ID: toc 20-200ppmC
User ID: Wetchem
Date/Time: 2015/02/12 18:04
Cal. Vers: 3
ICCal.Ver: 0

Mode: TOC
Samp. Type: Sample
File Name: 02121158
File Vers: 5
Samp. Vers: 1
Meth. Vers: 1

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.0485	0.0243	200669	10.72	11.71	83
2	-0.0008	-0.0004	197010	10.70	11.70	84
3	0.1192	0.0596	205910	10.66	11.66	84

<<Statistics>> Mean: 0.0556 Std Dev: 0.0603 RSD:108.5

pH<2

Sample ID: CCV 50 mg/l
Method ID: TOC Range 20-200 ppmC
Calib. ID: toc 20-200ppmC
User ID: Wetchem
Date/Time: 2015/02/12 18:21
Cal. Vers: 3
ICCal.Ver: 0

Mode: TOC
Samp. Type: Sample
File Name: 02121158
File Vers: 5
Samp. Vers: 1
Meth. Vers: 1

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	50.6036	25.3018	3948470	10.65	11.65	146
2	49.6494	24.8247	3877734	10.70	11.70	145
3	50.6098	25.3049	3948931	10.70	11.70	142

<<Statistics>> Mean: 50.2876 Std Dev: 0.5527 RSD: 1.10

Sample ID: 150206016-001A
Method ID: TOC Range 20-200 ppmC
Calib. ID: toc 20-200ppmC
User ID: Wetchem
Date/Time: 2015/02/12 18:39
Cal. Vers: 3
ICCal.Ver: 0

Mode: TOC
Samp. Type: Sample
File Name: 02121158
File Vers: 5
Samp. Vers: 1
Meth. Vers: 1

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.1062	5.0531	946278	10.63	11.63	102
2	9.8313	4.9156	925895	10.68	11.67	101
3	9.7413	4.8707	919225	10.60	11.60	102

(Signatures)

pH<2

<<Statistics>> Mean: 9.8929 Std Dev: 0.1901 RSD: 1.92

Sample ID: 150206016-002A Mode: TOC
Method ID: TOC Range 20-200 ppmC Samp. Type: Sample
Calib. ID: toc 20-200ppmC File Name: 02121158
User ID: Wetchem File Vers: 5
Date/Time: 2015/02/12 18:56 Samp. Vers: 1
Cal. Vers: 3 Meth. Vers: 1
ICCal.Ver: 0

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.7763	4.8882	921822	10.59	11.59	103
2	9.9085	4.9542	931618	10.64	11.63	103
3	9.7938	4.8969	923113	10.62	11.62	101

<<Statistics>> Mean: 9.8262 Std Dev: 0.0718 RSD: 0.73

Sample ID: 150206016-003A Mode: TOC
Method ID: TOC Range 20-200 ppmC Samp. Type: Sample
Calib. ID: toc 20-200ppmC File Name: 02121158
User ID: Wetchem File Vers: 5
Date/Time: 2015/02/12 19:12 Samp. Vers: 1
Cal. Vers: 3 Meth. Vers: 1
ICCal.Ver: 0

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	9.9564	4.9782	935172	10.66	11.66	102
2	10.4694	5.2347	973200	10.65	11.65	104
3	10.4779	5.2390	973831	10.64	11.64	103

<<Statistics>> Mean: 10.3012 Std Dev: 0.2987 RSD: 2.90

Sample ID: 150206016-004A Mode: TOC
Method ID: TOC Range 20-200 ppmC Samp. Type: Sample
Calib. ID: toc 20-200ppmC File Name: 02121158
User ID: Wetchem File Vers: 5
Date/Time: 2015/02/12 19:29 Samp. Vers: 1
Cal. Vers: 3 Meth. Vers: 1
ICCal.Ver: 0

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.7053	2.3527	545894	10.59	11.58	96
2	4.4741	2.2370	528748	10.67	11.67	94
3	4.4932	2.2466	530169	10.63	11.63	95

<<Statistics>> Mean: 4.5575 Std Dev: 0.1284 RSD: 2.82

Sample ID: 150206016-005A Mode: TOC
Method ID: TOC Range 20-200 ppmC Samp. Type: Sample
Calib. ID: toc 20-200ppmC File Name: 02121158
User ID: Wetchem File Vers: 5
Date/Time: 2015/02/12 19:45 Samp. Vers: 1

(Signatures)

pH<2

Cal. Vers: 3 Meth. Vers: 1
ICCal.Ver: 0

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6.5575	3.2787	683196	10.76	11.76	97
2	6.4521	3.2260	675384	10.78	11.77	98
3	6.5432	3.2716	682138	10.77	11.76	99

<<Statistics>> Mean: 6.5176 Std Dev: 0.0572 RSD: 0.88

Sample ID: 150206016-006A Mode: TOC
Method ID: TOC Range 20-200 ppmC Samp. Type: Sample
Calib. ID: toc 20-200ppmC File Name: 02121158
User ID: Wetchem File Vers: 5
Date/Time: 2015/02/12 20:02 Samp. Vers: 1
Cal. Vers: 3 Meth. Vers: 1
ICCal.Ver: 0

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	3.1812	1.5906	432903	10.82	11.81	92
2	3.0394	1.5197	422394	10.84	11.83	91
3	2.9468	1.4734	415531	10.94	11.94	91

<<Statistics>> Mean: 3.0558 Std Dev: 0.1180 RSD: 3.86

Sample ID: 150206016-007A Mode: TOC
Method ID: TOC Range 20-200 ppmC Samp. Type: Sample
Calib. ID: toc 20-200ppmC File Name: 02121158
User ID: Wetchem File Vers: 5
Date/Time: 2015/02/12 20:18 Samp. Vers: 1
Cal. Vers: 3 Meth. Vers: 1
ICCal.Ver: 0

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	18.0912	9.0456	1538231	10.95	11.95	109
2	18.1628	9.0814	1543538	11.00	12.00	108
3	18.1675	9.0837	1543883	10.98	11.98	109

<<Statistics>> Mean: 18.1405 Std Dev: 0.0427 RSD: 0.24

Sample ID: 150206016-007A dup Mode: TOC
Method ID: TOC Range 20-200 ppmC Samp. Type: Sample
Calib. ID: toc 20-200ppmC File Name: 02121158
User ID: Wetchem File Vers: 5
Date/Time: 2015/02/12 20:35 Samp. Vers: 1
Cal. Vers: 3 Meth. Vers: 1
ICCal.Ver: 0

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13.8964	6.9482	1227251	11.04	12.04	106

(Signatures)

pH 12

2	13.9816	6.9908	1233567	11.07	12.07	107
3	13.6804	6.8402	1211244	11.06	12.06	105

<<Statistics>> Mean: 13.8528 Std Dev: 0.1552 RSD: 1.12

Sample ID: 150206016-007A ms
Method ID: TOC Range 20-200 ppmC
Calib. ID: toc 20-200ppmC
User ID: Wetchem
Date/Time: 2015/02/12 20:52
Cal. Vers: 3
ICCal.Ver: 0

Mode: TOC
Samp. Type: Sample
File Name: 02121158
File Vers: 5
Samp. Vers: 1
Meth. Vers: 1

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	30.5612	15.2806	2462665	11.11	12.10	117
2	30.7459	15.3730	2476361	11.16	12.15	115
3	30.4279	15.2139	2452781	11.18	12.18	115

<<Statistics>> Mean: 30.5783 Std Dev: 0.1597 RSD: 0.52

Sample ID: 150206016-008A
Method ID: TOC Range 20-200 ppmC
Calib. ID: toc 20-200ppmC
User ID: Wetchem
Date/Time: 2015/02/12 21:09
Cal. Vers: 3
ICCal.Ver: 0

Mode: TOC
Samp. Type: Sample
File Name: 02121158
File Vers: 5
Samp. Vers: 1
Meth. Vers: 1

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	34.3056	17.1528	2740249	11.15	12.15	126
2	33.7571	16.8785	2699586	11.23	12.23	124
3	33.7846	16.8923	2701623	11.22	12.21	125

<<Statistics>> Mean: 33.9491 Std Dev: 0.3091 RSD: 0.91

Sample ID: CCV 50 mg/l
Method ID: TOC Range 20-200 ppmC
Calib. ID: toc 20-200ppmC
User ID: Wetchem
Date/Time: 2015/02/12 21:27
Cal. Vers: 3
ICCal.Ver: 0

Mode: TOC
Samp. Type: Sample
File Name: 02121158
File Vers: 5
Samp. Vers: 1
Meth. Vers: 1

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	50.4475	25.2238	3936899	11.14	12.13	146
2	49.9239	24.9620	3898084	11.32	12.32	139
3	50.2859	25.1429	3924916	11.35	12.35	140

<<Statistics>> Mean: 50.2191 Std Dev: 0.2681 RSD: 0.53

Sample ID: CCB
Mode: TOC

(Signatures)

PH2

Method ID: TOC Range 20-200 ppmC Samp. Type: Sample
Calib. ID: toc 20-200ppmC File Name: 02121158
User ID: Wetchem File Vers: 5
Date/Time: 2015/02/12 21:45 Samp. Vers: 1
Cal. Vers: 3 Meth. Vers: 1
ICCal.Ver: 0

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.4440	0.2220	229989	11.32	12.31	85
2	0.4122	0.2061	227633	11.31	12.31	85
3	0.4735	0.2367	232171	11.25	12.24	84

<<Statistics>> Mean: 0.4432 Std Dev: 0.0306 RSD: 6.91

Sample ID: 150206016-009A Mode: TOC
Method ID: TOC Range 20-200 ppmC Samp. Type: Sample
Calib. ID: toc 20-200ppmC File Name: 02121158
User ID: Wetchem File Vers: 5
Date/Time: 2015/02/12 22:01 Samp. Vers: 1
Cal. Vers: 3 Meth. Vers: 1
ICCal.Ver: 0

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	14.1735	7.0867	1247795	11.34	12.34	104
2	14.0130	7.0065	1235897	11.37	12.37	104
3	13.8574	6.9287	1224361	11.38	12.37	104

<<Statistics>> Mean: 14.0146 Std Dev: 0.1581 RSD: 1.13

Sample ID: 150206016-010A Mode: TOC
Method ID: TOC Range 20-200 ppmC Samp. Type: Sample
Calib. ID: toc 20-200ppmC File Name: 02121158
User ID: Wetchem File Vers: 5
Date/Time: 2015/02/12 22:18 Samp. Vers: 1
Cal. Vers: 3 Meth. Vers: 1
ICCal.Ver: 0

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.6252	1.3126	391690	11.40	12.40	90
2	2.4870	1.2435	381444	11.37	12.37	91
3	2.3094	1.1547	368278	11.43	12.42	89

<<Statistics>> Mean: 2.4739 Std Dev: 0.1583 RSD: 6.40

Sample ID: 150206016-011A Mode: TOC
Method ID: TOC Range 20-200 ppmC Samp. Type: Sample
Calib. ID: toc 20-200ppmC File Name: 02121158
User ID: Wetchem File Vers: 5
Date/Time: 2015/02/12 22:34 Samp. Vers: 1
Cal. Vers: 3 Meth. Vers: 1
ICCal.Ver: 0

				Beginning	Ending	Integration

(Signatures)

Rep #	ppm C	ug C	Raw Data	Baseline	Baseline	Time
1	6.0699	3.0349	647050	11.41	12.40	97
2	5.8919	2.9460	633860	11.46	12.45	96
3	5.8423	2.9211	630178	11.43	12.43	96

<<Statistics>> Mean: 5.9347 Std Dev: 0.1197 RSD: 2.02

Sample ID: 150206016-012A
Method ID: TOC Range 20-200 ppmC
Calib. ID: toc 20-200ppmC
User ID: Wetchem
Date/Time: 2015/02/12 22:50
Cal. Vers: 3
ICCal.Ver: 0

Mode: TOC
Samp. Type: Sample
File Name: 02121158
File Vers: 5
Samp. Vers: 1
Meth. Vers: 1

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	2.5186	1.2593	383786	11.34	12.33	90
2	2.3423	1.1711	370714	11.36	12.35	89
3	2.4346	1.2173	377560	11.29	12.29	90

<<Statistics>> Mean: 2.4319 Std Dev: 0.0882 RSD: 3.63

Sample ID: CRI 1.0 mg/l
Method ID: TOC Range 20-200 ppmC
Calib. ID: toc 20-200ppmC
User ID: Wetchem
Date/Time: 2015/02/12 23:06
Cal. Vers: 3
ICCal.Ver: 0

Mode: TOC
Samp. Type: Sample
File Name: 02121158
File Vers: 5
Samp. Vers: 1
Meth. Vers: 1

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.9232	0.9616	339644	11.51	12.50	90
2	1.7964	0.8982	330242	11.63	12.62	89
3	1.8450	0.9225	333851	11.61	12.60	89

<<Statistics>> Mean: 1.8549 Std Dev: 0.0640 RSD: 3.45

Sample ID: LCS 30 mg/l
Method ID: TOC Range 20-200 ppmC
Calib. ID: toc 20-200ppmC
User ID: Wetchem
Date/Time: 2015/02/12 23:23
Cal. Vers: 3
ICCal.Ver: 0

Mode: TOC
Samp. Type: Sample
File Name: 02121158
File Vers: 5
Samp. Vers: 1
Meth. Vers: 1

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	29.8406	14.9203	2409243	11.60	12.60	137
2	30.0620	15.0310	2425658	11.72	12.71	132
3	29.8579	14.9289	2410528	11.76	12.76	132

<<Statistics>> Mean: 29.9201 Std Dev: 0.1231 RSD: 0.41

(Signatures)

Sample ID: blank
Method ID: Blank TC Ranges 3 4 & 5
Calib. ID: Default
User ID: Wetchem
Date/Time: 2015/02/12 23:36
Cal. Vers: 1
ICCal.Ver: 0

Mode: TC
Samp. Type: tBlk34
File Name: 02121158
File Vers: 5
Samp. Vers: 1
Meth. Vers: 1

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.0000	0.0000	288788	11.77	12.27	100
2	0.0000	0.0000	267218	11.82	12.31	99
3	0.0000	0.0000	268617	11.77	12.27	100
4	0.0000	0.0000	263006	11.78	12.28	99
5	0.0000	0.0000	270747	11.81	12.30	102

<<Statistics>> Mean: 271675 Std Dev: 9976.02 RSD: 3.67

Sample ID: 150206016-013A
Method ID: TOC Range 20-200 ppmC
Calib. ID: toc 20-200ppmC
User ID: Wetchem
Date/Time: 2015/02/12 23:59
Cal. Vers: 3
ICCal.Ver: 0

Mode: TOC
Samp. Type: Sample
File Name: 02121158
File Vers: 5
Samp. Vers: 1
Meth. Vers: 1

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6.0795	3.0398	718151	11.91	12.90	100
2	5.9847	2.9923	711117	12.01	13.01	100
3	5.9877	2.9939	711343	11.95	12.95	101

<<Statistics>> Mean: 6.0173 Std Dev: 0.0539 RSD: 0.90

Sample ID: 150210017-001C
Method ID: TOC Range 20-200 ppmC
Calib. ID: toc 20-200ppmC
User ID: Wetchem
Date/Time: 2015/02/13 00:16
Cal. Vers: 3
ICCal.Ver: 0

Mode: TOC
Samp. Type: Sample
File Name: 02121158
File Vers: 5
Samp. Vers: 1
Meth. Vers: 1

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	4.4409	2.2205	596676	11.97	12.96	154
2	4.3006	2.1503	586276	12.02	13.01	144
3	4.2621	2.1310	583417	12.03	13.03	145

<<Statistics>> Mean: 4.3345 Std Dev: 0.0941 RSD: 2.17

Sample ID: 150203033-001G 1:10
Method ID: TOC Range 20-200 ppmC
Calib. ID: toc 20-200ppmC
User ID: Wetchem

Mode: TOC
Samp. Type: Sample
File Name: 02121158
File Vers: 5

Date/Time: 2015/02/13 00:34 Samp. Vers: 1
Cal. Vers: 3 Meth. Vers: 1
ICCal.Ver: 0

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	6.3971	3.1986	741696	12.06	13.05	102
2	6.4573	3.2287	746157	12.04	13.04	103
3	6.3914	3.1957	741267	12.10	13.10	102

<<Statistics>> Mean: 6.4153 Std Dev: 0.0365 RSD: 0.57

Sample ID: 150203033-002 Mode: TOC
Method ID: TOC Range 20-200 ppmC Samp. Type: Sample
Calib. ID: toc 20-200ppmC File Name: 02121158
User ID: Wetchem File Vers: 5
Date/Time: 2015/02/13 00:51 Samp. Vers: 1
Cal. Vers: 3 Meth. Vers: 1
ICCal.Ver: 0

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	14.3944	7.1972	1334555	12.08	13.07	119
2	14.1457	7.0729	1316121	12.15	13.14	118
3	13.9771	6.9886	1303624	12.17	13.16	117

<<Statistics>> Mean: 14.1724 Std Dev: 0.2099 RSD: 1.48

Sample ID: CCV 50 mg/l Mode: TOC
Method ID: TOC Range 20-200 ppmC Samp. Type: Sample
Calib. ID: toc 20-200ppmC File Name: 02121158
User ID: Wetchem File Vers: 5
Date/Time: 2015/02/13 01:09 Samp. Vers: 1
Cal. Vers: 3 Meth. Vers: 1
ICCal.Ver: 0

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	49.7070	24.8535	3952383	12.14	13.13	148
2	50.0222	25.0111	3975751	12.22	13.21	146
3	49.8813	24.9406	3965305	12.28	13.28	143

<<Statistics>> Mean: 49.8701 Std Dev: 0.1579 RSD: 0.32

Sample ID: CCB Mode: TOC
Method ID: TOC Range 20-200 ppmC Samp. Type: Sample
Calib. ID: toc 20-200ppmC File Name: 02121158
User ID: Wetchem File Vers: 5
Date/Time: 2015/02/13 01:27 Samp. Vers: 1
Cal. Vers: 3 Meth. Vers: 1
ICCal.Ver: 0

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time

(Signatures)

1	0.6088	0.3044	312588	12.13	13.12	89
2	0.6024	0.3012	312112	12.17	13.17	90
3	0.5539	0.2770	308522	12.20	13.19	90

<<Statistics>> Mean: 0.5884 Std Dev: 0.0300 RSD: 5.10

Sample ID: cleaning
Method ID: Cleaning Procedure
Calib. ID: toc 20-200ppmC
User ID: Wetchem
Date/Time: 2015/02/13 01:40
Cal. Vers: 3
ICCal.Ver: 0

Mode: UTIL
Samp. Type: Sample
File Name: 02121158
File Vers: 5
Samp. Vers: 1
Meth. Vers: 1

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.1954	3.9073	846775	12.07	12.57	126
2	0.0176	0.3511	319511	12.24	12.74	90
3	-0.0084	-0.1686	242460	12.23	12.73	90
4	-0.0235	-0.4709	197634	12.20	12.70	88
5	-0.0371	-0.7426	157352	12.17	12.67	80

<<Statistics>> Mean: 0.0288 Std Dev: 0.0953 RSD:331.4

Sample ID: cleaning
Method ID: Cleaning Procedure
Calib. ID: toc 20-200ppmC
User ID: Wetchem
Date/Time: 2015/02/13 01:59
Cal. Vers: 3
ICCal.Ver: 0

Mode: UTIL
Samp. Type: Sample
File Name: 02121158
File Vers: 5
Samp. Vers: 1
Meth. Vers: 1

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2042	4.0839	872953	12.18	12.68	110
2	-0.0266	-0.5320	188572	12.17	12.67	81
3	-0.0152	-0.3032	222496	12.09	12.58	84
4	-0.0067	-0.1347	247487	12.11	12.61	87
5	-0.0403	-0.8058	147984	12.09	12.59	79

<<Statistics>> Mean: 0.0231 Std Dev: 0.1020 RSD:442.0

Signatures for Data file: 02121158.bin

No signatures found.

**********End of Detailed Report Analysis Data

(Signatures)

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-1-PI12		
Lab Sample ID:	151696-01	**Date Sampled:**	5/5/2015
Matrix:	Groundwater	**Date Received:**	5/5/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Sodium	**175**	mg/L		5/8/2015 14:36

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 5/7/2015
Data File: 050815a

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Report Prepared Friday, May 15, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-1-PI12
Lab Sample ID: 151696-01 **Date Sampled:** 5/5/2015
Matrix: Groundwater **Date Received:** 5/5/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/7/2015 18:13
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/7/2015 18:13
1,1,2-Trichloroethane	< 2.00	ug/L		5/7/2015 18:13
1,1-Dichloroethane	< 2.00	ug/L		5/7/2015 18:13
1,1-Dichloroethene	< 2.00	ug/L		5/7/2015 18:13
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/7/2015 18:13
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/7/2015 18:13
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/7/2015 18:13
1,2-Dibromoethane	< 2.00	ug/L		5/7/2015 18:13
1,2-Dichlorobenzene	< 2.00	ug/L		5/7/2015 18:13
1,2-Dichloroethane	< 2.00	ug/L		5/7/2015 18:13
1,2-Dichloropropane	< 2.00	ug/L		5/7/2015 18:13
1,3-Dichlorobenzene	< 2.00	ug/L		5/7/2015 18:13
1,4-Dichlorobenzene	< 2.00	ug/L		5/7/2015 18:13
1,4-dioxane	< 20.0	ug/L		5/7/2015 18:13
2-Butanone	< 10.0	ug/L		5/7/2015 18:13
2-Hexanone	< 5.00	ug/L		5/7/2015 18:13
4-Methyl-2-pentanone	< 5.00	ug/L		5/7/2015 18:13
Acetone	< 10.0	ug/L		5/7/2015 18:13
Benzene	< 0.700	ug/L		5/7/2015 18:13
Bromochloromethane	< 5.00	ug/L		5/7/2015 18:13
Bromodichloromethane	< 2.00	ug/L		5/7/2015 18:13
Bromoform	< 5.00	ug/L		5/7/2015 18:13
Bromomethane	< 2.00	ug/L		5/7/2015 18:13
Carbon disulfide	< 2.00	ug/L		5/7/2015 18:13
Carbon Tetrachloride	< 2.00	ug/L		5/7/2015 18:13
Chlorobenzene	< 2.00	ug/L		5/7/2015 18:13

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-1-PI12		
Lab Sample ID:	151696-01	**Date Sampled:**	5/5/2015
Matrix:	Groundwater	**Date Received:**	5/5/2015

Chloroethane	< 2.00	ug/L	5/7/2015	18:13
Chloroform	< 2.00	ug/L	5/7/2015	18:13
Chloromethane	< 2.00	ug/L	5/7/2015	18:13
cis-1,2-Dichloroethene	< 2.00	ug/L	5/7/2015	18:13
cis-1,3-Dichloropropene	< 2.00	ug/L	5/7/2015	18:13
Cyclohexane	< 10.0	ug/L	5/7/2015	18:13
Dibromochloromethane	< 2.00	ug/L	5/7/2015	18:13
Dichlorodifluoromethane	< 2.00	ug/L	5/7/2015	18:13
Ethylbenzene	< 2.00	ug/L	5/7/2015	18:13
Freon 113	< 2.00	ug/L	5/7/2015	18:13
Isopropylbenzene	< 2.00	ug/L	5/7/2015	18:13
m,p-Xylene	< 2.00	ug/L	5/7/2015	18:13
Methyl acetate	< 2.00	ug/L	5/7/2015	18:13
Methyl tert-butyl Ether	< 2.00	ug/L	5/7/2015	18:13
Methylcyclohexane	< 2.00	ug/L	5/7/2015	18:13
Methylene chloride	< 5.00	ug/L	5/7/2015	18:13
o-Xylene	< 2.00	ug/L	5/7/2015	18:13
Styrene	< 5.00	ug/L	5/7/2015	18:13
Tetrachloroethene	< 2.00	ug/L	5/7/2015	18:13
Toluene	< 2.00	ug/L	5/7/2015	18:13
trans-1,2-Dichloroethene	< 2.00	ug/L	5/7/2015	18:13
trans-1,3-Dichloropropene	< 2.00	ug/L	5/7/2015	18:13
Trichloroethene	< 2.00	ug/L	5/7/2015	18:13
Trichlorofluoromethane	< 2.00	ug/L	5/7/2015	18:13
Vinyl chloride	**2.98**	ug/L	5/7/2015	18:13

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-1-PI12
Lab Sample ID: 151696-01 **Date Sampled:** 5/5/2015
Matrix: Groundwater **Date Received:** 5/5/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**96.4**	82.3 - 115		5/7/2015	18:13
4-Bromofluorobenzene	**89.0**	85.5 - 111		5/7/2015	18:13
Pentafluorobenzene	**94.9**	91.2 - 107		5/7/2015	18:13
Toluene-D8	**97.3**	90.9 - 108		5/7/2015	18:13

Method Reference(s): EPA 8260C
EPA 5030
Data File: x22615.D

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Report Prepared Friday, May 15, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-1-PI12		
Lab Sample ID:	151696-01	**Date Sampled:**	5/5/2015
Matrix:	Groundwater	**Date Received:**	5/5/2015

Total Organic Carbon

Analyte	Result	Units	Qualifier	Date Analyzed
Total Organic Carbon	**4.5**	mg/L		5/12/2015

Method Reference(s): SM 5310 C
Subcontractor ELAP ID: 10709

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Report Prepared Friday, May 15, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-2-PI12		
Lab Sample ID:	151696-02	**Date Sampled:**	5/5/2015
Matrix:	Groundwater	**Date Received:**	5/5/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	< 0.0100	mg/L		5/8/2015 15:58
Iron	**1.85**	mg/L		5/8/2015 15:58
Manganese	**0.0663**	mg/L		5/8/2015 15:58
Sodium	**60.6**	mg/L		5/8/2015 15:58

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 5/7/2015
Data File: 050815a

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Report Prepared Friday, May 15, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-2-PI12		
Lab Sample ID:	151696-02	**Date Sampled:**	5/5/2015
Matrix:	Groundwater	**Date Received:**	5/5/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/7/2015 18:36
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/7/2015 18:36
1,1,2-Trichloroethane	< 2.00	ug/L		5/7/2015 18:36
1,1-Dichloroethane	< 2.00	ug/L		5/7/2015 18:36
1,1-Dichloroethene	< 2.00	ug/L		5/7/2015 18:36
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/7/2015 18:36
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/7/2015 18:36
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/7/2015 18:36
1,2-Dibromoethane	< 2.00	ug/L		5/7/2015 18:36
1,2-Dichlorobenzene	< 2.00	ug/L		5/7/2015 18:36
1,2-Dichloroethane	< 2.00	ug/L		5/7/2015 18:36
1,2-Dichloropropane	< 2.00	ug/L		5/7/2015 18:36
1,3-Dichlorobenzene	< 2.00	ug/L		5/7/2015 18:36
1,4-Dichlorobenzene	< 2.00	ug/L		5/7/2015 18:36
1,4-dioxane	< 20.0	ug/L		5/7/2015 18:36
2-Butanone	< 10.0	ug/L		5/7/2015 18:36
2-Hexanone	< 5.00	ug/L		5/7/2015 18:36
4-Methyl-2-pentanone	< 5.00	ug/L		5/7/2015 18:36
Acetone	< 10.0	ug/L		5/7/2015 18:36
Benzene	< 0.700	ug/L		5/7/2015 18:36
Bromochloromethane	< 5.00	ug/L		5/7/2015 18:36
Bromodichloromethane	< 2.00	ug/L		5/7/2015 18:36
Bromoform	< 5.00	ug/L		5/7/2015 18:36
Bromomethane	< 2.00	ug/L		5/7/2015 18:36
Carbon disulfide	< 2.00	ug/L		5/7/2015 18:36
Carbon Tetrachloride	< 2.00	ug/L		5/7/2015 18:36
Chlorobenzene	< 2.00	ug/L		5/7/2015 18:36

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-2-PI12
Lab Sample ID: 151696-02 **Date Sampled:** 5/5/2015
Matrix: Groundwater **Date Received:** 5/5/2015

Chloroethane	< 2.00	ug/L		5/7/2015	18:36
Chloroform	< 2.00	ug/L		5/7/2015	18:36
Chloromethane	< 2.00	ug/L		5/7/2015	18:36
cis-1,2-Dichloroethene	< 2.00	ug/L		5/7/2015	18:36
cis-1,3-Dichloropropene	< 2.00	ug/L		5/7/2015	18:36
Cyclohexane	< 10.0	ug/L		5/7/2015	18:36
Dibromochloromethane	< 2.00	ug/L		5/7/2015	18:36
Dichlorodifluoromethane	< 2.00	ug/L		5/7/2015	18:36
Ethylbenzene	< 2.00	ug/L		5/7/2015	18:36
Freon 113	< 2.00	ug/L		5/7/2015	18:36
Isopropylbenzene	< 2.00	ug/L		5/7/2015	18:36
m,p-Xylene	< 2.00	ug/L		5/7/2015	18:36
Methyl acetate	< 2.00	ug/L		5/7/2015	18:36
Methyl tert-butyl Ether	< 2.00	ug/L		5/7/2015	18:36
Methylcyclohexane	< 2.00	ug/L		5/7/2015	18:36
Methylene chloride	< 5.00	ug/L		5/7/2015	18:36
o-Xylene	< 2.00	ug/L		5/7/2015	18:36
Styrene	< 5.00	ug/L		5/7/2015	18:36
Tetrachloroethene	< 2.00	ug/L		5/7/2015	18:36
Toluene	< 2.00	ug/L		5/7/2015	18:36
trans-1,2-Dichloroethene	**1.17**	ug/L	J	5/7/2015	18:36
trans-1,3-Dichloropropene	< 2.00	ug/L		5/7/2015	18:36
Trichloroethene	< 2.00	ug/L		5/7/2015	18:36
Trichlorofluoromethane	< 2.00	ug/L		5/7/2015	18:36
Vinyl chloride	**1.26**	ug/L	J	5/7/2015	18:36

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-2-PI12
Lab Sample ID: 151696-02 **Date Sampled:** 5/5/2015
Matrix: Groundwater **Date Received:** 5/5/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**96.0**	82.3 - 115		5/7/2015	18:36
4-Bromofluorobenzene	**89.5**	85.5 - 111		5/7/2015	18:36
Pentafluorobenzene	**95.2**	91.2 - 107		5/7/2015	18:36
Toluene-D8	**96.5**	90.9 - 108		5/7/2015	18:36

Method Reference(s): EPA 8260C
EPA 5030
Data File: x22616.D

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Report Prepared Friday, May 15, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-2-PI12		
Lab Sample ID:	151696-02	**Date Sampled:**	5/5/2015
Matrix:	Groundwater	**Date Received:**	5/5/2015

Total Organic Carbon

Analyte	Result	Units	Qualifier	Date Analyzed
Total Organic Carbon	**2.7**	mg/L		5/12/2015

Method Reference(s): SM 5310 C
Subcontractor ELAP ID: 10709

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Report Prepared Friday, May 15, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-3-PI12		
Lab Sample ID:	151696-03	**Date Sampled:**	5/5/2015
Matrix:	Groundwater	**Date Received:**	5/5/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Sodium	**85.3**	mg/L		5/8/2015 16:02

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 5/7/2015
Data File: 050815a

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Report Prepared Friday, May 15, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-3-PI12		
Lab Sample ID:	151696-03	**Date Sampled:**	5/5/2015
Matrix:	Groundwater	**Date Received:**	5/5/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/7/2015 19:00
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/7/2015 19:00
1,1,2-Trichloroethane	< 2.00	ug/L		5/7/2015 19:00
1,1-Dichloroethane	< 2.00	ug/L		5/7/2015 19:00
1,1-Dichloroethene	< 2.00	ug/L		5/7/2015 19:00
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/7/2015 19:00
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/7/2015 19:00
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/7/2015 19:00
1,2-Dibromoethane	< 2.00	ug/L		5/7/2015 19:00
1,2-Dichlorobenzene	< 2.00	ug/L		5/7/2015 19:00
1,2-Dichloroethane	< 2.00	ug/L		5/7/2015 19:00
1,2-Dichloropropane	< 2.00	ug/L		5/7/2015 19:00
1,3-Dichlorobenzene	< 2.00	ug/L		5/7/2015 19:00
1,4-Dichlorobenzene	< 2.00	ug/L		5/7/2015 19:00
1,4-dioxane	< 20.0	ug/L		5/7/2015 19:00
2-Butanone	< 10.0	ug/L		5/7/2015 19:00
2-Hexanone	< 5.00	ug/L		5/7/2015 19:00
4-Methyl-2-pentanone	< 5.00	ug/L		5/7/2015 19:00
Acetone	< 10.0	ug/L		5/7/2015 19:00
Benzene	< 0.700	ug/L		5/7/2015 19:00
Bromochloromethane	< 5.00	ug/L		5/7/2015 19:00
Bromodichloromethane	< 2.00	ug/L		5/7/2015 19:00
Bromoform	< 5.00	ug/L		5/7/2015 19:00
Bromomethane	< 2.00	ug/L		5/7/2015 19:00
Carbon disulfide	< 2.00	ug/L		5/7/2015 19:00
Carbon Tetrachloride	< 2.00	ug/L		5/7/2015 19:00
Chlorobenzene	< 2.00	ug/L		5/7/2015 19:00

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-3-PI12
Lab Sample ID: 151696-03 **Date Sampled:** 5/5/2015
Matrix: Groundwater **Date Received:** 5/5/2015

Chloroethane	< 2.00	ug/L		5/7/2015	19:00
Chloroform	< 2.00	ug/L		5/7/2015	19:00
Chloromethane	< 2.00	ug/L		5/7/2015	19:00
cis-1,2-Dichloroethene	**1.23**	ug/L	J	5/7/2015	19:00
cis-1,3-Dichloropropene	< 2.00	ug/L		5/7/2015	19:00
Cyclohexane	< 10.0	ug/L		5/7/2015	19:00
Dibromochloromethane	< 2.00	ug/L		5/7/2015	19:00
Dichlorodifluoromethane	< 2.00	ug/L		5/7/2015	19:00
Ethylbenzene	< 2.00	ug/L		5/7/2015	19:00
Freon 113	< 2.00	ug/L		5/7/2015	19:00
Isopropylbenzene	< 2.00	ug/L		5/7/2015	19:00
m,p-Xylene	< 2.00	ug/L		5/7/2015	19:00
Methyl acetate	< 2.00	ug/L		5/7/2015	19:00
Methyl tert-butyl Ether	**2.12**	ug/L		5/7/2015	19:00
Methylcyclohexane	< 2.00	ug/L		5/7/2015	19:00
Methylene chloride	< 5.00	ug/L		5/7/2015	19:00
o-Xylene	< 2.00	ug/L		5/7/2015	19:00
Styrene	< 5.00	ug/L		5/7/2015	19:00
Tetrachloroethene	< 2.00	ug/L		5/7/2015	19:00
Toluene	< 2.00	ug/L		5/7/2015	19:00
trans-1,2-Dichloroethene	**3.63**	ug/L		5/7/2015	19:00
trans-1,3-Dichloropropene	< 2.00	ug/L		5/7/2015	19:00
Trichloroethene	**1.04**	ug/L	J	5/7/2015	19:00
Trichlorofluoromethane	< 2.00	ug/L		5/7/2015	19:00
Vinyl chloride	**4.41**	ug/L		5/7/2015	19:00

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-3-PI12
Lab Sample ID: 151696-03 **Date Sampled:** 5/5/2015
Matrix: Groundwater **Date Received:** 5/5/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**97.1**	82.3 - 115		5/7/2015 19:00
4-Bromofluorobenzene	**86.8**	85.5 - 111		5/7/2015 19:00
Pentafluorobenzene	**97.5**	91.2 - 107		5/7/2015 19:00
Toluene-D8	**96.4**	90.9 - 108		5/7/2015 19:00

Method Reference(s): EPA 8260C
EPA 5030
Data File: x22617.D

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-3-PI12		
Lab Sample ID:	151696-03	**Date Sampled:**	5/5/2015
Matrix:	Groundwater	**Date Received:**	5/5/2015

Total Organic Carbon

Analyte	Result	Units	Qualifier	Date Analyzed
Total Organic Carbon	**6.1**	mg/L		5/12/2015

Method Reference(s): SM 5310 C
Subcontractor ELAP ID: 10709

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Report Prepared Friday, May 15, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-4-PI12		
Lab Sample ID:	151696-04	**Date Sampled:**	5/4/2015
Matrix:	Groundwater	**Date Received:**	5/5/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Sodium	**86.9**	mg/L		5/8/2015 16:07

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 5/7/2015
Data File: 050815a

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Report Prepared Friday, May 15, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-4-PI12		
Lab Sample ID:	151696-04	**Date Sampled:**	5/4/2015
Matrix:	Groundwater	**Date Received:**	5/5/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/7/2015 19:23
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/7/2015 19:23
1,1,2-Trichloroethane	< 2.00	ug/L		5/7/2015 19:23
1,1-Dichloroethane	< 2.00	ug/L		5/7/2015 19:23
1,1-Dichloroethene	< 2.00	ug/L		5/7/2015 19:23
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/7/2015 19:23
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/7/2015 19:23
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/7/2015 19:23
1,2-Dibromoethane	< 2.00	ug/L		5/7/2015 19:23
1,2-Dichlorobenzene	< 2.00	ug/L		5/7/2015 19:23
1,2-Dichloroethane	< 2.00	ug/L		5/7/2015 19:23
1,2-Dichloropropane	< 2.00	ug/L		5/7/2015 19:23
1,3-Dichlorobenzene	< 2.00	ug/L		5/7/2015 19:23
1,4-Dichlorobenzene	< 2.00	ug/L		5/7/2015 19:23
1,4-dioxane	< 20.0	ug/L		5/7/2015 19:23
2-Butanone	< 10.0	ug/L		5/7/2015 19:23
2-Hexanone	< 5.00	ug/L		5/7/2015 19:23
4-Methyl-2-pentanone	< 5.00	ug/L		5/7/2015 19:23
Acetone	< 10.0	ug/L		5/7/2015 19:23
Benzene	< 0.700	ug/L		5/7/2015 19:23
Bromochloromethane	< 5.00	ug/L		5/7/2015 19:23
Bromodichloromethane	< 2.00	ug/L		5/7/2015 19:23
Bromoform	< 5.00	ug/L		5/7/2015 19:23
Bromomethane	< 2.00	ug/L		5/7/2015 19:23
Carbon disulfide	< 2.00	ug/L		5/7/2015 19:23
Carbon Tetrachloride	< 2.00	ug/L		5/7/2015 19:23
Chlorobenzene	< 2.00	ug/L		5/7/2015 19:23

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-4-PI12
Lab Sample ID: 151696-04 **Date Sampled:** 5/4/2015
Matrix: Groundwater **Date Received:** 5/5/2015

Chloroethane	< 2.00	ug/L	5/7/2015	19:23
Chloroform	< 2.00	ug/L	5/7/2015	19:23
Chloromethane	< 2.00	ug/L	5/7/2015	19:23
cis-1,2-Dichloroethene	**14.8**	ug/L	5/7/2015	19:23
cis-1,3-Dichloropropene	< 2.00	ug/L	5/7/2015	19:23
Cyclohexane	< 10.0	ug/L	5/7/2015	19:23
Dibromochloromethane	< 2.00	ug/L	5/7/2015	19:23
Dichlorodifluoromethane	< 2.00	ug/L	5/7/2015	19:23
Ethylbenzene	< 2.00	ug/L	5/7/2015	19:23
Freon 113	< 2.00	ug/L	5/7/2015	19:23
Isopropylbenzene	< 2.00	ug/L	5/7/2015	19:23
m,p-Xylene	< 2.00	ug/L	5/7/2015	19:23
Methyl acetate	< 2.00	ug/L	5/7/2015	19:23
Methyl tert-butyl Ether	< 2.00	ug/L	5/7/2015	19:23
Methylcyclohexane	< 2.00	ug/L	5/7/2015	19:23
Methylene chloride	< 5.00	ug/L	5/7/2015	19:23
o-Xylene	< 2.00	ug/L	5/7/2015	19:23
Styrene	< 5.00	ug/L	5/7/2015	19:23
Tetrachloroethene	**18.7**	ug/L	5/7/2015	19:23
Toluene	< 2.00	ug/L	5/7/2015	19:23
trans-1,2-Dichloroethene	< 2.00	ug/L	5/7/2015	19:23
trans-1,3-Dichloropropene	< 2.00	ug/L	5/7/2015	19:23
Trichloroethene	**8.94**	ug/L	5/7/2015	19:23
Trichlorofluoromethane	< 2.00	ug/L	5/7/2015	19:23
Vinyl chloride	**5.15**	ug/L	5/7/2015	19:23

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Report Prepared Friday, May 15, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-4-PI12
Lab Sample ID: 151696-04 **Date Sampled:** 5/4/2015
Matrix: Groundwater **Date Received:** 5/5/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**96.9**	82.3 - 115		5/7/2015 19:23
4-Bromofluorobenzene	**88.8**	85.5 - 111		5/7/2015 19:23
Pentafluorobenzene	**95.7**	91.2 - 107		5/7/2015 19:23
Toluene-D8	**97.7**	90.9 - 108		5/7/2015 19:23

Method Reference(s): EPA 8260C
EPA 5030
Data File: x22618.D

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-4-PI12		
Lab Sample ID:	151696-04	**Date Sampled:**	5/4/2015
Matrix:	Groundwater	**Date Received:**	5/5/2015

Total Organic Carbon

Analyte	Result	Units	Qualifier	Date Analyzed
Total Organic Carbon	**5.4**	mg/L		5/12/2015

Method Reference(s): SM 5310 C
Subcontractor ELAP ID: 10709

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Report Prepared Friday, May 15, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-5-PI12		
Lab Sample ID:	151696-05	**Date Sampled:**	5/4/2015
Matrix:	Groundwater	**Date Received:**	5/5/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	< 0.0100	mg/L		5/8/2015 16:11
Iron	**9.91**	mg/L		5/8/2015 16:11
Manganese	**0.0298**	mg/L		5/8/2015 16:11
Sodium	**44.6**	mg/L		5/8/2015 16:11

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 5/7/2015
Data File: 050815a

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Report Prepared Friday, May 15, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-5-PI12		
Lab Sample ID:	151696-05	**Date Sampled:**	5/4/2015
Matrix:	Groundwater	**Date Received:**	5/5/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/7/2015 19:47
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/7/2015 19:47
1,1,2-Trichloroethane	< 2.00	ug/L		5/7/2015 19:47
1,1-Dichloroethane	< 2.00	ug/L		5/7/2015 19:47
1,1-Dichloroethene	< 2.00	ug/L		5/7/2015 19:47
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/7/2015 19:47
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/7/2015 19:47
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/7/2015 19:47
1,2-Dibromoethane	< 2.00	ug/L		5/7/2015 19:47
1,2-Dichlorobenzene	< 2.00	ug/L		5/7/2015 19:47
1,2-Dichloroethane	< 2.00	ug/L		5/7/2015 19:47
1,2-Dichloropropane	< 2.00	ug/L		5/7/2015 19:47
1,3-Dichlorobenzene	< 2.00	ug/L		5/7/2015 19:47
1,4-Dichlorobenzene	< 2.00	ug/L		5/7/2015 19:47
1,4-dioxane	< 20.0	ug/L		5/7/2015 19:47
2-Butanone	< 10.0	ug/L		5/7/2015 19:47
2-Hexanone	< 5.00	ug/L		5/7/2015 19:47
4-Methyl-2-pentanone	< 5.00	ug/L		5/7/2015 19:47
Acetone	< 10.0	ug/L		5/7/2015 19:47
Benzene	< 0.700	ug/L		5/7/2015 19:47
Bromochloromethane	< 5.00	ug/L		5/7/2015 19:47
Bromodichloromethane	< 2.00	ug/L		5/7/2015 19:47
Bromoform	< 5.00	ug/L		5/7/2015 19:47
Bromomethane	< 2.00	ug/L		5/7/2015 19:47
Carbon disulfide	< 2.00	ug/L		5/7/2015 19:47
Carbon Tetrachloride	< 2.00	ug/L		5/7/2015 19:47
Chlorobenzene	< 2.00	ug/L		5/7/2015 19:47

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-5-PI12
Lab Sample ID: 151696-05 **Date Sampled:** 5/4/2015
Matrix: Groundwater **Date Received:** 5/5/2015

Chloroethane	< 2.00	ug/L		5/7/2015	19:47
Chloroform	< 2.00	ug/L		5/7/2015	19:47
Chloromethane	< 2.00	ug/L		5/7/2015	19:47
cis-1,2-Dichloroethene	**4.52**	ug/L		5/7/2015	19:47
cis-1,3-Dichloropropene	< 2.00	ug/L		5/7/2015	19:47
Cyclohexane	< 10.0	ug/L		5/7/2015	19:47
Dibromochloromethane	< 2.00	ug/L		5/7/2015	19:47
Dichlorodifluoromethane	< 2.00	ug/L		5/7/2015	19:47
Ethylbenzene	< 2.00	ug/L		5/7/2015	19:47
Freon 113	< 2.00	ug/L		5/7/2015	19:47
Isopropylbenzene	< 2.00	ug/L		5/7/2015	19:47
m,p-Xylene	< 2.00	ug/L		5/7/2015	19:47
Methyl acetate	< 2.00	ug/L		5/7/2015	19:47
Methyl tert-butyl Ether	< 2.00	ug/L		5/7/2015	19:47
Methylcyclohexane	< 2.00	ug/L		5/7/2015	19:47
Methylene chloride	< 5.00	ug/L		5/7/2015	19:47
o-Xylene	< 2.00	ug/L		5/7/2015	19:47
Styrene	< 5.00	ug/L		5/7/2015	19:47
Tetrachloroethene	< 2.00	ug/L		5/7/2015	19:47
Toluene	< 2.00	ug/L		5/7/2015	19:47
trans-1,2-Dichloroethene	< 2.00	ug/L		5/7/2015	19:47
trans-1,3-Dichloropropene	< 2.00	ug/L		5/7/2015	19:47
Trichloroethene	< 2.00	ug/L		5/7/2015	19:47
Trichlorofluoromethane	< 2.00	ug/L		5/7/2015	19:47
Vinyl chloride	**1.61**	ug/L	J	5/7/2015	19:47

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-5-PI12
Lab Sample ID: 151696-05 **Date Sampled:** 5/4/2015
Matrix: Groundwater **Date Received:** 5/5/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**98.2**	82.3 - 115		5/7/2015	19:47
4-Bromofluorobenzene	**89.3**	85.5 - 111		5/7/2015	19:47
Pentafluorobenzene	**93.3**	91.2 - 107		5/7/2015	19:47
Toluene-D8	**96.5**	90.9 - 108		5/7/2015	19:47

Method Reference(s): EPA 8260C
EPA 5030
Data File: x22619.D

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Report Prepared Friday, May 15, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-5-PI12		
Lab Sample ID:	151696-05	**Date Sampled:**	5/4/2015
Matrix:	Groundwater	**Date Received:**	5/5/2015

Total Organic Carbon

Analyte	Result	Units	Qualifier	Date Analyzed
Total Organic Carbon	**2.2**	mg/L		5/12/2015

Method Reference(s): SM 5310 C
Subcontractor ELAP ID: 10709

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Report Prepared Friday, May 15, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-6-PI12		
Lab Sample ID:	151696-06	**Date Sampled:**	5/4/2015
Matrix:	Groundwater	**Date Received:**	5/5/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	< 0.0100	mg/L		5/8/2015 16:15
Iron	**0.864**	mg/L		5/8/2015 16:15
Manganese	**0.0309**	mg/L		5/8/2015 16:15
Sodium	**68.8**	mg/L		5/8/2015 16:15

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 5/7/2015
Data File: 050815a

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Report Prepared Friday, May 15, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-6-PI12		
Lab Sample ID:	151696-06	**Date Sampled:**	5/4/2015
Matrix:	Groundwater	**Date Received:**	5/5/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 10.0	ug/L		5/7/2015 20:32
1,1,2,2-Tetrachloroethane	< 10.0	ug/L		5/7/2015 20:32
1,1,2-Trichloroethane	< 10.0	ug/L		5/7/2015 20:32
1,1-Dichloroethane	< 10.0	ug/L		5/7/2015 20:32
1,1-Dichloroethene	< 10.0	ug/L		5/7/2015 20:32
1,2,3-Trichlorobenzene	< 25.0	ug/L		5/7/2015 20:32
1,2,4-Trichlorobenzene	< 25.0	ug/L		5/7/2015 20:32
1,2-Dibromo-3-Chloropropane	< 50.0	ug/L		5/7/2015 20:32
1,2-Dibromoethane	< 10.0	ug/L		5/7/2015 20:32
1,2-Dichlorobenzene	< 10.0	ug/L		5/7/2015 20:32
1,2-Dichloroethane	< 10.0	ug/L		5/7/2015 20:32
1,2-Dichloropropane	< 10.0	ug/L		5/7/2015 20:32
1,3-Dichlorobenzene	< 10.0	ug/L		5/7/2015 20:32
1,4-Dichlorobenzene	< 10.0	ug/L		5/7/2015 20:32
1,4-dioxane	< 100	ug/L		5/7/2015 20:32
2-Butanone	< 50.0	ug/L		5/7/2015 20:32
2-Hexanone	< 25.0	ug/L		5/7/2015 20:32
4-Methyl-2-pentanone	< 25.0	ug/L		5/7/2015 20:32
Acetone	< 50.0	ug/L		5/7/2015 20:32
Benzene	< 3.50	ug/L		5/7/2015 20:32
Bromochloromethane	< 25.0	ug/L		5/7/2015 20:32
Bromodichloromethane	< 10.0	ug/L		5/7/2015 20:32
Bromoform	< 25.0	ug/L		5/7/2015 20:32
Bromomethane	< 10.0	ug/L		5/7/2015 20:32
Carbon disulfide	< 10.0	ug/L		5/7/2015 20:32
Carbon Tetrachloride	< 10.0	ug/L		5/7/2015 20:32
Chlorobenzene	< 10.0	ug/L		5/7/2015 20:32

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-6-PI12
Lab Sample ID: 151696-06 **Date Sampled:** 5/4/2015
Matrix: Groundwater **Date Received:** 5/5/2015

Chloroethane	< 10.0	ug/L		5/7/2015	20:32
Chloroform	< 10.0	ug/L		5/7/2015	20:32
Chloromethane	< 10.0	ug/L		5/7/2015	20:32
cis-1,2-Dichloroethene	**373**	ug/L		5/7/2015	20:32
cis-1,3-Dichloropropene	< 10.0	ug/L		5/7/2015	20:32
Cyclohexane	< 50.0	ug/L		5/7/2015	20:32
Dibromochloromethane	< 10.0	ug/L		5/7/2015	20:32
Dichlorodifluoromethane	< 10.0	ug/L		5/7/2015	20:32
Ethylbenzene	< 10.0	ug/L		5/7/2015	20:32
Freon 113	< 10.0	ug/L		5/7/2015	20:32
Isopropylbenzene	< 10.0	ug/L		5/7/2015	20:32
m,p-Xylene	< 10.0	ug/L		5/7/2015	20:32
Methyl acetate	< 10.0	ug/L		5/7/2015	20:32
Methyl tert-butyl Ether	< 10.0	ug/L		5/7/2015	20:32
Methylcyclohexane	< 10.0	ug/L		5/7/2015	20:32
Methylene chloride	< 25.0	ug/L		5/7/2015	20:32
o-Xylene	< 10.0	ug/L		5/7/2015	20:32
Styrene	< 25.0	ug/L		5/7/2015	20:32
Tetrachloroethene	< 10.0	ug/L		5/7/2015	20:32
Toluene	< 10.0	ug/L		5/7/2015	20:32
trans-1,2-Dichloroethene	**6.18**	ug/L	J	5/7/2015	20:32
trans-1,3-Dichloropropene	< 10.0	ug/L		5/7/2015	20:32
Trichloroethene	< 10.0	ug/L		5/7/2015	20:32
Trichlorofluoromethane	< 10.0	ug/L		5/7/2015	20:32
Vinyl chloride	**367**	ug/L		5/7/2015	20:32

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-6-PI12
Lab Sample ID: 151696-06 **Date Sampled:** 5/4/2015
Matrix: Groundwater **Date Received:** 5/5/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**98.7**	82.3 - 115		5/7/2015	20:32
4-Bromofluorobenzene	**87.5**	85.5 - 111		5/7/2015	20:32
Pentafluorobenzene	**95.0**	91.2 - 107		5/7/2015	20:32
Toluene-D8	**94.5**	90.9 - 108		5/7/2015	20:32

Method Reference(s): EPA 8260C
EPA 5030
Data File: x22621.D

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Report Prepared Friday, May 15, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-6-PI12		
Lab Sample ID:	151696-06	**Date Sampled:**	5/4/2015
Matrix:	Groundwater	**Date Received:**	5/5/2015

Total Organic Carbon

Analyte	Result	Units	Qualifier	Date Analyzed
Total Organic Carbon	**3.0**	mg/L		5/12/2015

Method Reference(s): SM 5310 C
Subcontractor ELAP ID: 10709

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Report Prepared Friday, May 15, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-7-PI12		
Lab Sample ID:	151696-07	**Date Sampled:**	5/4/2015
Matrix:	Groundwater	**Date Received:**	5/5/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Sodium	**49.9**	mg/L		5/8/2015 16:20

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 5/7/2015
Data File: 050815a

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Report Prepared Friday, May 15, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-7-PI12		
Lab Sample ID:	151696-07	**Date Sampled:**	5/4/2015
Matrix:	Groundwater	**Date Received:**	5/5/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/7/2015 20:09
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/7/2015 20:09
1,1,2-Trichloroethane	< 2.00	ug/L		5/7/2015 20:09
1,1-Dichloroethane	< 2.00	ug/L		5/7/2015 20:09
1,1-Dichloroethene	< 2.00	ug/L		5/7/2015 20:09
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/7/2015 20:09
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/7/2015 20:09
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/7/2015 20:09
1,2-Dibromoethane	< 2.00	ug/L		5/7/2015 20:09
1,2-Dichlorobenzene	< 2.00	ug/L		5/7/2015 20:09
1,2-Dichloroethane	< 2.00	ug/L		5/7/2015 20:09
1,2-Dichloropropane	< 2.00	ug/L		5/7/2015 20:09
1,3-Dichlorobenzene	< 2.00	ug/L		5/7/2015 20:09
1,4-Dichlorobenzene	< 2.00	ug/L		5/7/2015 20:09
1,4-dioxane	< 20.0	ug/L		5/7/2015 20:09
2-Butanone	< 10.0	ug/L		5/7/2015 20:09
2-Hexanone	< 5.00	ug/L		5/7/2015 20:09
4-Methyl-2-pentanone	< 5.00	ug/L		5/7/2015 20:09
Acetone	< 10.0	ug/L		5/7/2015 20:09
Benzene	< 0.700	ug/L		5/7/2015 20:09
Bromochloromethane	< 5.00	ug/L		5/7/2015 20:09
Bromodichloromethane	< 2.00	ug/L		5/7/2015 20:09
Bromoform	< 5.00	ug/L		5/7/2015 20:09
Bromomethane	< 2.00	ug/L		5/7/2015 20:09
Carbon disulfide	< 2.00	ug/L		5/7/2015 20:09
Carbon Tetrachloride	< 2.00	ug/L		5/7/2015 20:09
Chlorobenzene	< 2.00	ug/L		5/7/2015 20:09

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PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-7-PI12
Lab Sample ID: 151696-07 **Date Sampled:** 5/4/2015
Matrix: Groundwater **Date Received:** 5/5/2015

Chloroethane	< 2.00	ug/L		5/7/2015	20:09
Chloroform	< 2.00	ug/L		5/7/2015	20:09
Chloromethane	< 2.00	ug/L		5/7/2015	20:09
cis-1,2-Dichloroethene	< 2.00	ug/L		5/7/2015	20:09
cis-1,3-Dichloropropene	< 2.00	ug/L		5/7/2015	20:09
Cyclohexane	< 10.0	ug/L		5/7/2015	20:09
Dibromochloromethane	< 2.00	ug/L		5/7/2015	20:09
Dichlorodifluoromethane	< 2.00	ug/L		5/7/2015	20:09
Ethylbenzene	< 2.00	ug/L		5/7/2015	20:09
Freon 113	< 2.00	ug/L		5/7/2015	20:09
Isopropylbenzene	< 2.00	ug/L		5/7/2015	20:09
m,p-Xylene	< 2.00	ug/L		5/7/2015	20:09
Methyl acetate	< 2.00	ug/L		5/7/2015	20:09
Methyl tert-butyl Ether	< 2.00	ug/L		5/7/2015	20:09
Methylcyclohexane	< 2.00	ug/L		5/7/2015	20:09
Methylene chloride	< 5.00	ug/L		5/7/2015	20:09
o-Xylene	< 2.00	ug/L		5/7/2015	20:09
Styrene	< 5.00	ug/L		5/7/2015	20:09
Tetrachloroethene	< 2.00	ug/L		5/7/2015	20:09
Toluene	< 2.00	ug/L		5/7/2015	20:09
trans-1,2-Dichloroethene	< 2.00	ug/L		5/7/2015	20:09
trans-1,3-Dichloropropene	< 2.00	ug/L		5/7/2015	20:09
Trichloroethene	**1.29**	ug/L	J	5/7/2015	20:09
Trichlorofluoromethane	< 2.00	ug/L		5/7/2015	20:09
Vinyl chloride	**2.87**	ug/L		5/7/2015	20:09

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-7-PI12
Lab Sample ID: 151696-07 **Date Sampled:** 5/4/2015
Matrix: Groundwater **Date Received:** 5/5/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**98.8**	82.3 - 115		5/7/2015	20:09
4-Bromofluorobenzene	**87.9**	85.5 - 111		5/7/2015	20:09
Pentafluorobenzene	**92.8**	91.2 - 107		5/7/2015	20:09
Toluene-D8	**96.0**	90.9 - 108		5/7/2015	20:09

Method Reference(s): EPA 8260C
EPA 5030
Data File: x22620.D

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Report Prepared Friday, May 15, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-7-PI12		
Lab Sample ID:	151696-07	**Date Sampled:**	5/4/2015
Matrix:	Groundwater	**Date Received:**	5/5/2015

Total Organic Carbon

Analyte	Result	Units	Qualifier	Date Analyzed
Total Organic Carbon	**3.1**	mg/L		5/12/2015

Method Reference(s): SM 5310 C
Subcontractor ELAP ID: 10709

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Report Prepared Friday, May 15, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-9-PI12		
Lab Sample ID:	151696-08	**Date Sampled:**	5/4/2015
Matrix:	Groundwater	**Date Received:**	5/5/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	< 0.0100	mg/L		5/8/2015 16:24
Iron	**0.0765**	mg/L	J	5/8/2015 16:24
Manganese	**0.214**	mg/L		5/8/2015 16:24
Sodium	**32.0**	mg/L		5/8/2015 16:24

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 5/7/2015
Data File: 050815a

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-9-PI12
Lab Sample ID: 151696-08 **Date Sampled:** 5/4/2015
Matrix: Groundwater **Date Received:** 5/5/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/9/2015 01:49
1,1,2,2-Tetrachloroethane	< 2.00	ug/L	M	5/9/2015 01:49
1,1,2-Trichloroethane	< 2.00	ug/L		5/9/2015 01:49
1,1-Dichloroethane	< 2.00	ug/L		5/9/2015 01:49
1,1-Dichloroethene	< 2.00	ug/L		5/9/2015 01:49
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/9/2015 01:49
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/9/2015 01:49
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/9/2015 01:49
1,2-Dibromoethane	< 2.00	ug/L		5/9/2015 01:49
1,2-Dichlorobenzene	< 2.00	ug/L		5/9/2015 01:49
1,2-Dichloroethane	< 2.00	ug/L		5/9/2015 01:49
1,2-Dichloropropane	< 2.00	ug/L		5/9/2015 01:49
1,3-Dichlorobenzene	< 2.00	ug/L		5/9/2015 01:49
1,4-Dichlorobenzene	< 2.00	ug/L		5/9/2015 01:49
1,4-dioxane	< 20.0	ug/L		5/9/2015 01:49
2-Butanone	< 10.0	ug/L		5/9/2015 01:49
2-Hexanone	< 5.00	ug/L		5/9/2015 01:49
4-Methyl-2-pentanone	< 5.00	ug/L		5/9/2015 01:49
Acetone	< 10.0	ug/L		5/9/2015 01:49
Benzene	< 0.700	ug/L		5/9/2015 01:49
Bromochloromethane	< 5.00	ug/L		5/9/2015 01:49
Bromodichloromethane	< 2.00	ug/L		5/9/2015 01:49
Bromoform	< 5.00	ug/L	M	5/9/2015 01:49
Bromomethane	< 2.00	ug/L		5/9/2015 01:49
Carbon disulfide	< 2.00	ug/L		5/9/2015 01:49
Carbon Tetrachloride	< 2.00	ug/L		5/9/2015 01:49
Chlorobenzene	< 2.00	ug/L		5/9/2015 01:49

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-9-PI12
Lab Sample ID: 151696-08 **Date Sampled:** 5/4/2015
Matrix: Groundwater **Date Received:** 5/5/2015

Chloroethane	< 2.00	ug/L	5/9/2015	01:49
Chloroform	< 2.00	ug/L	5/9/2015	01:49
Chloromethane	< 2.00	ug/L	5/9/2015	01:49
cis-1,2-Dichloroethene	< 2.00	ug/L	5/9/2015	01:49
cis-1,3-Dichloropropene	< 2.00	ug/L	5/9/2015	01:49
Cyclohexane	< 10.0	ug/L	5/9/2015	01:49
Dibromochloromethane	< 2.00	ug/L	5/9/2015	01:49
Dichlorodifluoromethane	< 2.00	ug/L	5/9/2015	01:49
Ethylbenzene	< 2.00	ug/L	5/9/2015	01:49
Freon 113	< 2.00	ug/L	5/9/2015	01:49
Isopropylbenzene	< 2.00	ug/L	5/9/2015	01:49
m,p-Xylene	< 2.00	ug/L	5/9/2015	01:49
Methyl acetate	< 2.00	ug/L	5/9/2015	01:49
Methyl tert-butyl Ether	< 2.00	ug/L	5/9/2015	01:49
Methylcyclohexane	< 2.00	ug/L	5/9/2015	01:49
Methylene chloride	< 5.00	ug/L	5/9/2015	01:49
o-Xylene	< 2.00	ug/L	5/9/2015	01:49
Styrene	< 5.00	ug/L	5/9/2015	01:49
Tetrachloroethene	**2.13**	ug/L	5/9/2015	01:49
Toluene	< 2.00	ug/L	5/9/2015	01:49
trans-1,2-Dichloroethene	< 2.00	ug/L	5/9/2015	01:49
trans-1,3-Dichloropropene	< 2.00	ug/L	5/9/2015	01:49
Trichloroethene	< 2.00	ug/L	5/9/2015	01:49
Trichlorofluoromethane	< 2.00	ug/L	5/9/2015	01:49
Vinyl chloride	< 2.00	ug/L	5/9/2015	01:49

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-9-PI12
Lab Sample ID: 151696-08 **Date Sampled:** 5/4/2015
Matrix: Groundwater **Date Received:** 5/5/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**106**	82.3 - 115		5/9/2015	01:49
4-Bromofluorobenzene	**87.8**	85.5 - 111		5/9/2015	01:49
Pentafluorobenzene	**96.8**	91.2 - 107		5/9/2015	01:49
Toluene-D8	**94.0**	90.9 - 108		5/9/2015	01:49

Method Reference(s): EPA 8260C
EPA 5030
Data File: x22668.D

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Report Prepared Friday, May 15, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-9-PI12		
Lab Sample ID:	151696-08	**Date Sampled:**	5/4/2015
Matrix:	Groundwater	**Date Received:**	5/5/2015

Total Organic Carbon

Analyte	Result	Units	Qualifier	Date Analyzed
Total Organic Carbon	**1.7**	mg/L		5/12/2015

Method Reference(s): SM 5310 C
Subcontractor ELAP ID: 10709

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Report Prepared Friday, May 15, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-12-PI12		
Lab Sample ID:	151696-09	**Date Sampled:**	5/4/2015
Matrix:	Groundwater	**Date Received:**	5/5/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Sodium	**213**	mg/L		5/8/2015 16:45

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 5/7/2015
Data File: 050815a

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Report Prepared Friday, May 15, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-12-PI12		
Lab Sample ID:	151696-09	**Date Sampled:**	5/4/2015
Matrix:	Groundwater	**Date Received:**	5/5/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/9/2015 01:26
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/9/2015 01:26
1,1,2-Trichloroethane	< 2.00	ug/L		5/9/2015 01:26
1,1-Dichloroethane	< 2.00	ug/L		5/9/2015 01:26
1,1-Dichloroethene	< 2.00	ug/L		5/9/2015 01:26
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/9/2015 01:26
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/9/2015 01:26
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/9/2015 01:26
1,2-Dibromoethane	< 2.00	ug/L		5/9/2015 01:26
1,2-Dichlorobenzene	< 2.00	ug/L		5/9/2015 01:26
1,2-Dichloroethane	< 2.00	ug/L		5/9/2015 01:26
1,2-Dichloropropane	< 2.00	ug/L		5/9/2015 01:26
1,3-Dichlorobenzene	< 2.00	ug/L		5/9/2015 01:26
1,4-Dichlorobenzene	< 2.00	ug/L		5/9/2015 01:26
1,4-dioxane	< 20.0	ug/L		5/9/2015 01:26
2-Butanone	< 10.0	ug/L		5/9/2015 01:26
2-Hexanone	< 5.00	ug/L		5/9/2015 01:26
4-Methyl-2-pentanone	< 5.00	ug/L		5/9/2015 01:26
Acetone	< 10.0	ug/L		5/9/2015 01:26
Benzene	< 0.700	ug/L		5/9/2015 01:26
Bromochloromethane	< 5.00	ug/L		5/9/2015 01:26
Bromodichloromethane	< 2.00	ug/L		5/9/2015 01:26
Bromoform	< 5.00	ug/L		5/9/2015 01:26
Bromomethane	< 2.00	ug/L		5/9/2015 01:26
Carbon disulfide	< 2.00	ug/L		5/9/2015 01:26
Carbon Tetrachloride	< 2.00	ug/L		5/9/2015 01:26
Chlorobenzene	< 2.00	ug/L		5/9/2015 01:26

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PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-12-PI12
Lab Sample ID: 151696-09 **Date Sampled:** 5/4/2015
Matrix: Groundwater **Date Received:** 5/5/2015

Chloroethane	< 2.00	ug/L	5/9/2015	01:26
Chloroform	< 2.00	ug/L	5/9/2015	01:26
Chloromethane	< 2.00	ug/L	5/9/2015	01:26
cis-1,2-Dichloroethene	**5.24**	ug/L	5/9/2015	01:26
cis-1,3-Dichloropropene	< 2.00	ug/L	5/9/2015	01:26
Cyclohexane	< 10.0	ug/L	5/9/2015	01:26
Dibromochloromethane	< 2.00	ug/L	5/9/2015	01:26
Dichlorodifluoromethane	< 2.00	ug/L	5/9/2015	01:26
Ethylbenzene	< 2.00	ug/L	5/9/2015	01:26
Freon 113	< 2.00	ug/L	5/9/2015	01:26
Isopropylbenzene	< 2.00	ug/L	5/9/2015	01:26
m,p-Xylene	< 2.00	ug/L	5/9/2015	01:26
Methyl acetate	< 2.00	ug/L	5/9/2015	01:26
Methyl tert-butyl Ether	< 2.00	ug/L	5/9/2015	01:26
Methylcyclohexane	< 2.00	ug/L	5/9/2015	01:26
Methylene chloride	< 5.00	ug/L	5/9/2015	01:26
o-Xylene	< 2.00	ug/L	5/9/2015	01:26
Styrene	< 5.00	ug/L	5/9/2015	01:26
Tetrachloroethene	**2.79**	ug/L	5/9/2015	01:26
Toluene	< 2.00	ug/L	5/9/2015	01:26
trans-1,2-Dichloroethene	< 2.00	ug/L	5/9/2015	01:26
trans-1,3-Dichloropropene	< 2.00	ug/L	5/9/2015	01:26
Trichloroethene	**4.85**	ug/L	5/9/2015	01:26
Trichlorofluoromethane	< 2.00	ug/L	5/9/2015	01:26
Vinyl chloride	< 2.00	ug/L	5/9/2015	01:26

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-12-PI12
Lab Sample ID: 151696-09 **Date Sampled:** 5/4/2015
Matrix: Groundwater **Date Received:** 5/5/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**106**	82.3 - 115		5/9/2015	01:26
4-Bromofluorobenzene	**89.6**	85.5 - 111		5/9/2015	01:26
Pentafluorobenzene	**101**	91.2 - 107		5/9/2015	01:26
Toluene-D8	**98.3**	90.9 - 108		5/9/2015	01:26

Method Reference(s): EPA 8260C
EPA 5030
Data File: x22667.D

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Report Prepared Friday, May 15, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-12-PI12		
Lab Sample ID:	151696-09	**Date Sampled:**	5/4/2015
Matrix:	Groundwater	**Date Received:**	5/5/2015

Total Organic Carbon

Analyte	Result	Units	Qualifier	Date Analyzed
Total Organic Carbon	**6.2**	mg/L		5/13/2015

Method Reference(s): SM 5310 C
Subcontractor ELAP ID: 10709

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Report Prepared Friday, May 15, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-DUP-PI12		
Lab Sample ID:	151696-10	**Date Sampled:**	5/4/2015
Matrix:	Groundwater	**Date Received:**	5/5/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**0.0104**	mg/L		5/8/2015 16:49
Iron	**10.1**	mg/L		5/8/2015 16:49
Manganese	**0.949**	mg/L		5/8/2015 16:49
Sodium	**50.3**	mg/L		5/8/2015 16:49

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 5/7/2015
Data File: 050815a

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Report Prepared Friday, May 15, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-DUP-PI12		
Lab Sample ID:	151696-10	**Date Sampled:**	5/4/2015
Matrix:	Groundwater	**Date Received:**	5/5/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/9/2015 01:03
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/9/2015 01:03
1,1,2-Trichloroethane	< 2.00	ug/L		5/9/2015 01:03
1,1-Dichloroethane	< 2.00	ug/L		5/9/2015 01:03
1,1-Dichloroethene	< 2.00	ug/L		5/9/2015 01:03
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/9/2015 01:03
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/9/2015 01:03
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/9/2015 01:03
1,2-Dibromoethane	< 2.00	ug/L		5/9/2015 01:03
1,2-Dichlorobenzene	< 2.00	ug/L		5/9/2015 01:03
1,2-Dichloroethane	< 2.00	ug/L		5/9/2015 01:03
1,2-Dichloropropane	< 2.00	ug/L		5/9/2015 01:03
1,3-Dichlorobenzene	< 2.00	ug/L		5/9/2015 01:03
1,4-Dichlorobenzene	< 2.00	ug/L		5/9/2015 01:03
1,4-dioxane	< 20.0	ug/L		5/9/2015 01:03
2-Butanone	< 10.0	ug/L		5/9/2015 01:03
2-Hexanone	< 5.00	ug/L		5/9/2015 01:03
4-Methyl-2-pentanone	< 5.00	ug/L		5/9/2015 01:03
Acetone	< 10.0	ug/L		5/9/2015 01:03
Benzene	< 0.700	ug/L		5/9/2015 01:03
Bromochloromethane	< 5.00	ug/L		5/9/2015 01:03
Bromodichloromethane	< 2.00	ug/L		5/9/2015 01:03
Bromoform	< 5.00	ug/L		5/9/2015 01:03
Bromomethane	< 2.00	ug/L		5/9/2015 01:03
Carbon disulfide	< 2.00	ug/L		5/9/2015 01:03
Carbon Tetrachloride	< 2.00	ug/L		5/9/2015 01:03
Chlorobenzene	< 2.00	ug/L		5/9/2015 01:03

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PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-DUP-PI12
Lab Sample ID: 151696-10 **Date Sampled:** 5/4/2015
Matrix: Groundwater **Date Received:** 5/5/2015

Chloroethane	< 2.00	ug/L	5/9/2015	01:03
Chloroform	< 2.00	ug/L	5/9/2015	01:03
Chloromethane	< 2.00	ug/L	5/9/2015	01:03
cis-1,2-Dichloroethene	**4.11**	ug/L	5/9/2015	01:03
cis-1,3-Dichloropropene	< 2.00	ug/L	5/9/2015	01:03
Cyclohexane	< 10.0	ug/L	5/9/2015	01:03
Dibromochloromethane	< 2.00	ug/L	5/9/2015	01:03
Dichlorodifluoromethane	< 2.00	ug/L	5/9/2015	01:03
Ethylbenzene	< 2.00	ug/L	5/9/2015	01:03
Freon 113	< 2.00	ug/L	5/9/2015	01:03
Isopropylbenzene	< 2.00	ug/L	5/9/2015	01:03
m,p-Xylene	< 2.00	ug/L	5/9/2015	01:03
Methyl acetate	< 2.00	ug/L	5/9/2015	01:03
Methyl tert-butyl Ether	< 2.00	ug/L	5/9/2015	01:03
Methylcyclohexane	< 2.00	ug/L	5/9/2015	01:03
Methylene chloride	< 5.00	ug/L	5/9/2015	01:03
o-Xylene	< 2.00	ug/L	5/9/2015	01:03
Styrene	< 5.00	ug/L	5/9/2015	01:03
Tetrachloroethene	< 2.00	ug/L	5/9/2015	01:03
Toluene	< 2.00	ug/L	5/9/2015	01:03
trans-1,2-Dichloroethene	< 2.00	ug/L	5/9/2015	01:03
trans-1,3-Dichloropropene	< 2.00	ug/L	5/9/2015	01:03
Trichloroethene	**2.42**	ug/L	5/9/2015	01:03
Trichlorofluoromethane	< 2.00	ug/L	5/9/2015	01:03
Vinyl chloride	**11.3**	ug/L	5/9/2015	01:03

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Report Prepared Friday, May 15, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-DUP-PI12
Lab Sample ID: 151696-10 **Date Sampled:** 5/4/2015
Matrix: Groundwater **Date Received:** 5/5/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**105**	82.3 - 115		5/9/2015	01:03
4-Bromofluorobenzene	**92.3**	85.5 - 111		5/9/2015	01:03
Pentafluorobenzene	**99.0**	91.2 - 107		5/9/2015	01:03
Toluene-D8	**98.0**	90.9 - 108		5/9/2015	01:03

Method Reference(s): EPA 8260C
EPA 5030
Data File: x22666.D

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Report Prepared Friday, May 15, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-DUP-PI12		
Lab Sample ID:	151696-10	**Date Sampled:**	5/4/2015
Matrix:	Groundwater	**Date Received:**	5/5/2015

Total Organic Carbon

Analyte	Result	Units	Qualifier	Date Analyzed
Total Organic Carbon	**5.3**	mg/L		5/13/2015

Method Reference(s): SM 5310 C
Subcontractor ELAP ID: 10709

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Report Prepared Friday, May 15, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-B102-MW-PI12		
Lab Sample ID:	151696-11	**Date Sampled:**	5/4/2015
Matrix:	Groundwater	**Date Received:**	5/5/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	**0.00792**	mg/L	J	5/8/2015 16:53
Iron	**10.0**	mg/L		5/8/2015 16:53
Manganese	**0.945**	mg/L		5/8/2015 16:53
Sodium	**49.8**	mg/L		5/8/2015 16:53

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 5/7/2015
Data File: 050815a

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-B102-MW-PI12		
Lab Sample ID:	151696-11	**Date Sampled:**	5/4/2015
Matrix:	Groundwater	**Date Received:**	5/5/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/9/2015 00:39
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/9/2015 00:39
1,1,2-Trichloroethane	< 2.00	ug/L		5/9/2015 00:39
1,1-Dichloroethane	< 2.00	ug/L		5/9/2015 00:39
1,1-Dichloroethene	< 2.00	ug/L		5/9/2015 00:39
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/9/2015 00:39
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/9/2015 00:39
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/9/2015 00:39
1,2-Dibromoethane	< 2.00	ug/L		5/9/2015 00:39
1,2-Dichlorobenzene	< 2.00	ug/L		5/9/2015 00:39
1,2-Dichloroethane	< 2.00	ug/L		5/9/2015 00:39
1,2-Dichloropropane	< 2.00	ug/L		5/9/2015 00:39
1,3-Dichlorobenzene	< 2.00	ug/L		5/9/2015 00:39
1,4-Dichlorobenzene	< 2.00	ug/L		5/9/2015 00:39
1,4-dioxane	< 20.0	ug/L		5/9/2015 00:39
2-Butanone	< 10.0	ug/L		5/9/2015 00:39
2-Hexanone	< 5.00	ug/L		5/9/2015 00:39
4-Methyl-2-pentanone	< 5.00	ug/L		5/9/2015 00:39
Acetone	< 10.0	ug/L		5/9/2015 00:39
Benzene	< 0.700	ug/L		5/9/2015 00:39
Bromochloromethane	< 5.00	ug/L		5/9/2015 00:39
Bromodichloromethane	< 2.00	ug/L		5/9/2015 00:39
Bromoform	< 5.00	ug/L		5/9/2015 00:39
Bromomethane	< 2.00	ug/L		5/9/2015 00:39
Carbon disulfide	< 2.00	ug/L		5/9/2015 00:39
Carbon Tetrachloride	< 2.00	ug/L		5/9/2015 00:39
Chlorobenzene	< 2.00	ug/L		5/9/2015 00:39

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-B102-MW-PI12
Lab Sample ID: 151696-11 **Date Sampled:** 5/4/2015
Matrix: Groundwater **Date Received:** 5/5/2015

Chloroethane	< 2.00	ug/L	5/9/2015	00:39
Chloroform	< 2.00	ug/L	5/9/2015	00:39
Chloromethane	< 2.00	ug/L	5/9/2015	00:39
cis-1,2-Dichloroethene	**4.10**	ug/L	5/9/2015	00:39
cis-1,3-Dichloropropene	< 2.00	ug/L	5/9/2015	00:39
Cyclohexane	< 10.0	ug/L	5/9/2015	00:39
Dibromochloromethane	< 2.00	ug/L	5/9/2015	00:39
Dichlorodifluoromethane	< 2.00	ug/L	5/9/2015	00:39
Ethylbenzene	< 2.00	ug/L	5/9/2015	00:39
Freon 113	< 2.00	ug/L	5/9/2015	00:39
Isopropylbenzene	< 2.00	ug/L	5/9/2015	00:39
m,p-Xylene	< 2.00	ug/L	5/9/2015	00:39
Methyl acetate	< 2.00	ug/L	5/9/2015	00:39
Methyl tert-butyl Ether	< 2.00	ug/L	5/9/2015	00:39
Methylcyclohexane	< 2.00	ug/L	5/9/2015	00:39
Methylene chloride	< 5.00	ug/L	5/9/2015	00:39
o-Xylene	< 2.00	ug/L	5/9/2015	00:39
Styrene	< 5.00	ug/L	5/9/2015	00:39
Tetrachloroethene	< 2.00	ug/L	5/9/2015	00:39
Toluene	< 2.00	ug/L	5/9/2015	00:39
trans-1,2-Dichloroethene	< 2.00	ug/L	5/9/2015	00:39
trans-1,3-Dichloropropene	< 2.00	ug/L	5/9/2015	00:39
Trichloroethene	**2.38**	ug/L	5/9/2015	00:39
Trichlorofluoromethane	< 2.00	ug/L	5/9/2015	00:39
Vinyl chloride	**11.0**	ug/L	5/9/2015	00:39

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-B102-MW-PI12
Lab Sample ID: 151696-11 **Date Sampled:** 5/4/2015
Matrix: Groundwater **Date Received:** 5/5/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**106**	82.3 - 115		5/9/2015	00:39
4-Bromofluorobenzene	**89.6**	85.5 - 111		5/9/2015	00:39
Pentafluorobenzene	**100**	91.2 - 107		5/9/2015	00:39
Toluene-D8	**96.2**	90.9 - 108		5/9/2015	00:39

Method Reference(s): EPA 8260C
EPA 5030
Data File: x22665.D

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-B102-MW-PI12		
Lab Sample ID:	151696-11	**Date Sampled:**	5/4/2015
Matrix:	Groundwater	**Date Received:**	5/5/2015

Total Organic Carbon

Analyte	Result	Units	Qualifier	Date Analyzed
Total Organic Carbon	**5.4**	mg/L		5/13/2015

Method Reference(s): SM 5310 C
Subcontractor ELAP ID: 10709

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Report Prepared Friday, May 15, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-B106-MW-PI12		
Lab Sample ID:	151696-12	**Date Sampled:**	5/5/2015
Matrix:	Groundwater	**Date Received:**	5/5/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Sodium	**40.1**	mg/L		5/8/2015 16:58

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 5/7/2015
Data File: 050815a

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Report Prepared Friday, May 15, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-B106-MW-PI12		
Lab Sample ID:	151696-12	**Date Sampled:**	5/5/2015
Matrix:	Groundwater	**Date Received:**	5/5/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/9/2015 00:16
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/9/2015 00:16
1,1,2-Trichloroethane	< 2.00	ug/L		5/9/2015 00:16
1,1-Dichloroethane	< 2.00	ug/L		5/9/2015 00:16
1,1-Dichloroethene	< 2.00	ug/L		5/9/2015 00:16
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/9/2015 00:16
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/9/2015 00:16
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/9/2015 00:16
1,2-Dibromoethane	< 2.00	ug/L		5/9/2015 00:16
1,2-Dichlorobenzene	< 2.00	ug/L		5/9/2015 00:16
1,2-Dichloroethane	< 2.00	ug/L		5/9/2015 00:16
1,2-Dichloropropane	< 2.00	ug/L		5/9/2015 00:16
1,3-Dichlorobenzene	< 2.00	ug/L		5/9/2015 00:16
1,4-Dichlorobenzene	< 2.00	ug/L		5/9/2015 00:16
1,4-dioxane	< 20.0	ug/L		5/9/2015 00:16
2-Butanone	< 10.0	ug/L		5/9/2015 00:16
2-Hexanone	< 5.00	ug/L		5/9/2015 00:16
4-Methyl-2-pentanone	< 5.00	ug/L		5/9/2015 00:16
Acetone	< 10.0	ug/L		5/9/2015 00:16
Benzene	< 0.700	ug/L		5/9/2015 00:16
Bromochloromethane	< 5.00	ug/L		5/9/2015 00:16
Bromodichloromethane	< 2.00	ug/L		5/9/2015 00:16
Bromoform	< 5.00	ug/L		5/9/2015 00:16
Bromomethane	< 2.00	ug/L		5/9/2015 00:16
Carbon disulfide	< 2.00	ug/L		5/9/2015 00:16
Carbon Tetrachloride	< 2.00	ug/L		5/9/2015 00:16
Chlorobenzene	< 2.00	ug/L		5/9/2015 00:16

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PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-B106-MW-PI12
Lab Sample ID: 151696-12 **Date Sampled:** 5/5/2015
Matrix: Groundwater **Date Received:** 5/5/2015

Chloroethane	< 2.00	ug/L	5/9/2015	00:16
Chloroform	< 2.00	ug/L	5/9/2015	00:16
Chloromethane	< 2.00	ug/L	5/9/2015	00:16
cis-1,2-Dichloroethene	**10.2**	ug/L	5/9/2015	00:16
cis-1,3-Dichloropropene	< 2.00	ug/L	5/9/2015	00:16
Cyclohexane	< 10.0	ug/L	5/9/2015	00:16
Dibromochloromethane	< 2.00	ug/L	5/9/2015	00:16
Dichlorodifluoromethane	< 2.00	ug/L	5/9/2015	00:16
Ethylbenzene	< 2.00	ug/L	5/9/2015	00:16
Freon 113	< 2.00	ug/L	5/9/2015	00:16
Isopropylbenzene	< 2.00	ug/L	5/9/2015	00:16
m,p-Xylene	< 2.00	ug/L	5/9/2015	00:16
Methyl acetate	< 2.00	ug/L	5/9/2015	00:16
Methyl tert-butyl Ether	< 2.00	ug/L	5/9/2015	00:16
Methylcyclohexane	< 2.00	ug/L	5/9/2015	00:16
Methylene chloride	< 5.00	ug/L	5/9/2015	00:16
o-Xylene	< 2.00	ug/L	5/9/2015	00:16
Styrene	< 5.00	ug/L	5/9/2015	00:16
Tetrachloroethene	< 2.00	ug/L	5/9/2015	00:16
Toluene	< 2.00	ug/L	5/9/2015	00:16
trans-1,2-Dichloroethene	< 2.00	ug/L	5/9/2015	00:16
trans-1,3-Dichloropropene	< 2.00	ug/L	5/9/2015	00:16
Trichloroethene	**2.12**	ug/L	5/9/2015	00:16
Trichlorofluoromethane	< 2.00	ug/L	5/9/2015	00:16
Vinyl chloride	**4.89**	ug/L	5/9/2015	00:16

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-B106-MW-PI12
Lab Sample ID: 151696-12 **Date Sampled:** 5/5/2015
Matrix: Groundwater **Date Received:** 5/5/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**109**	82.3 - 115		5/9/2015	00:16
4-Bromofluorobenzene	**90.0**	85.5 - 111		5/9/2015	00:16
Pentafluorobenzene	**100**	91.2 - 107		5/9/2015	00:16
Toluene-D8	**97.0**	90.9 - 108		5/9/2015	00:16

Method Reference(s): EPA 8260C
EPA 5030
Data File: x22664.D

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Report Prepared Friday, May 15, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-B106-MW-PI12		
Lab Sample ID:	151696-12	**Date Sampled:**	5/5/2015
Matrix:	Groundwater	**Date Received:**	5/5/2015

Total Organic Carbon

Analyte	Result	Units	Qualifier	Date Analyzed
Total Organic Carbon	**1.5**	mg/L		5/13/2015

Method Reference(s): SM 5310 C
Subcontractor ELAP ID: 10709

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Report Prepared Friday, May 15, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-B108-MW-PI12		
Lab Sample ID:	151696-13	**Date Sampled:**	5/5/2015
Matrix:	Groundwater	**Date Received:**	5/5/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Arsenic	< 0.0100	mg/L		5/8/2015 17:02
Iron	**0.999**	mg/L		5/8/2015 17:02
Manganese	**0.0818**	mg/L		5/8/2015 17:02
Sodium	**42.4**	mg/L		5/8/2015 17:02

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 5/7/2015
Data File: 050815a

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Report Prepared Friday, May 15, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-B108-MW-PI12
Lab Sample ID: 151696-13 **Date Sampled:** 5/5/2015
Matrix: Groundwater **Date Received:** 5/5/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/8/2015 23:52
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/8/2015 23:52
1,1,2-Trichloroethane	< 2.00	ug/L		5/8/2015 23:52
1,1-Dichloroethane	< 2.00	ug/L		5/8/2015 23:52
1,1-Dichloroethene	< 2.00	ug/L		5/8/2015 23:52
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/8/2015 23:52
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/8/2015 23:52
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/8/2015 23:52
1,2-Dibromoethane	< 2.00	ug/L		5/8/2015 23:52
1,2-Dichlorobenzene	< 2.00	ug/L		5/8/2015 23:52
1,2-Dichloroethane	< 2.00	ug/L		5/8/2015 23:52
1,2-Dichloropropane	< 2.00	ug/L		5/8/2015 23:52
1,3-Dichlorobenzene	< 2.00	ug/L		5/8/2015 23:52
1,4-Dichlorobenzene	< 2.00	ug/L		5/8/2015 23:52
1,4-dioxane	< 20.0	ug/L		5/8/2015 23:52
2-Butanone	< 10.0	ug/L		5/8/2015 23:52
2-Hexanone	< 5.00	ug/L		5/8/2015 23:52
4-Methyl-2-pentanone	< 5.00	ug/L		5/8/2015 23:52
Acetone	< 10.0	ug/L		5/8/2015 23:52
Benzene	< 0.700	ug/L		5/8/2015 23:52
Bromochloromethane	< 5.00	ug/L		5/8/2015 23:52
Bromodichloromethane	< 2.00	ug/L		5/8/2015 23:52
Bromoform	< 5.00	ug/L		5/8/2015 23:52
Bromomethane	< 2.00	ug/L		5/8/2015 23:52
Carbon disulfide	< 2.00	ug/L		5/8/2015 23:52
Carbon Tetrachloride	< 2.00	ug/L		5/8/2015 23:52
Chlorobenzene	< 2.00	ug/L		5/8/2015 23:52

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PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-B108-MW-PI12
Lab Sample ID: 151696-13 **Date Sampled:** 5/5/2015
Matrix: Groundwater **Date Received:** 5/5/2015

Chloroethane	< 2.00	ug/L		5/8/2015	23:52
Chloroform	< 2.00	ug/L		5/8/2015	23:52
Chloromethane	< 2.00	ug/L		5/8/2015	23:52
cis-1,2-Dichloroethene	**1.49**	ug/L	J	5/8/2015	23:52
cis-1,3-Dichloropropene	< 2.00	ug/L		5/8/2015	23:52
Cyclohexane	< 10.0	ug/L		5/8/2015	23:52
Dibromochloromethane	< 2.00	ug/L		5/8/2015	23:52
Dichlorodifluoromethane	< 2.00	ug/L		5/8/2015	23:52
Ethylbenzene	< 2.00	ug/L		5/8/2015	23:52
Freon 113	< 2.00	ug/L		5/8/2015	23:52
Isopropylbenzene	< 2.00	ug/L		5/8/2015	23:52
m,p-Xylene	< 2.00	ug/L		5/8/2015	23:52
Methyl acetate	< 2.00	ug/L		5/8/2015	23:52
Methyl tert-butyl Ether	< 2.00	ug/L		5/8/2015	23:52
Methylcyclohexane	< 2.00	ug/L		5/8/2015	23:52
Methylene chloride	< 5.00	ug/L		5/8/2015	23:52
o-Xylene	< 2.00	ug/L		5/8/2015	23:52
Styrene	< 5.00	ug/L		5/8/2015	23:52
Tetrachloroethene	**14.4**	ug/L		5/8/2015	23:52
Toluene	< 2.00	ug/L		5/8/2015	23:52
trans-1,2-Dichloroethene	< 2.00	ug/L		5/8/2015	23:52
trans-1,3-Dichloropropene	< 2.00	ug/L		5/8/2015	23:52
Trichloroethene	**2.72**	ug/L		5/8/2015	23:52
Trichlorofluoromethane	< 2.00	ug/L		5/8/2015	23:52
Vinyl chloride	< 2.00	ug/L		5/8/2015	23:52

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-B108-MW-PI12
Lab Sample ID: 151696-13 **Date Sampled:** 5/5/2015
Matrix: Groundwater **Date Received:** 5/5/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**104**	82.3 - 115		5/8/2015 23:52
4-Bromofluorobenzene	**93.0**	85.5 - 111		5/8/2015 23:52
Pentafluorobenzene	**99.5**	91.2 - 107		5/8/2015 23:52
Toluene-D8	**97.6**	90.9 - 108		5/8/2015 23:52

Method Reference(s): EPA 8260C
EPA 5030
Data File: x22663.D

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-B108-MW-PI12		
Lab Sample ID:	151696-13	**Date Sampled:**	5/5/2015
Matrix:	Groundwater	**Date Received:**	5/5/2015

Total Organic Carbon

Analyte	Result	Units	Qualifier	Date Analyzed
Total Organic Carbon	**1.7**	mg/L		5/13/2015

Method Reference(s): SM 5310 C
Subcontractor ELAP ID: 10709

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Report Prepared Friday, May 15, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	Trip Blank (T-614)		
Lab Sample ID:	151696-14	**Date Sampled:**	5/4/2015
Matrix:	Water	**Date Received:**	5/5/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/7/2015 17:50
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/7/2015 17:50
1,1,2-Trichloroethane	< 2.00	ug/L		5/7/2015 17:50
1,1-Dichloroethane	< 2.00	ug/L		5/7/2015 17:50
1,1-Dichloroethene	< 2.00	ug/L		5/7/2015 17:50
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/7/2015 17:50
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/7/2015 17:50
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/7/2015 17:50
1,2-Dibromoethane	< 2.00	ug/L		5/7/2015 17:50
1,2-Dichlorobenzene	< 2.00	ug/L		5/7/2015 17:50
1,2-Dichloroethane	< 2.00	ug/L		5/7/2015 17:50
1,2-Dichloropropane	< 2.00	ug/L		5/7/2015 17:50
1,3-Dichlorobenzene	< 2.00	ug/L		5/7/2015 17:50
1,4-Dichlorobenzene	< 2.00	ug/L		5/7/2015 17:50
1,4-dioxane	< 20.0	ug/L		5/7/2015 17:50
2-Butanone	< 10.0	ug/L		5/7/2015 17:50
2-Hexanone	< 5.00	ug/L		5/7/2015 17:50
4-Methyl-2-pentanone	< 5.00	ug/L		5/7/2015 17:50
Acetone	< 10.0	ug/L		5/7/2015 17:50
Benzene	< 0.700	ug/L		5/7/2015 17:50
Bromochloromethane	< 5.00	ug/L		5/7/2015 17:50
Bromodichloromethane	< 2.00	ug/L		5/7/2015 17:50
Bromoform	< 5.00	ug/L		5/7/2015 17:50
Bromomethane	< 2.00	ug/L		5/7/2015 17:50
Carbon disulfide	< 2.00	ug/L		5/7/2015 17:50
Carbon Tetrachloride	< 2.00	ug/L		5/7/2015 17:50
Chlorobenzene	< 2.00	ug/L		5/7/2015 17:50

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: Trip Blank (T-614)
Lab Sample ID: 151696-14 **Date Sampled:** 5/4/2015
Matrix: Water **Date Received:** 5/5/2015

Chloroethane	< 2.00	ug/L	5/7/2015	17:50
Chloroform	< 2.00	ug/L	5/7/2015	17:50
Chloromethane	< 2.00	ug/L	5/7/2015	17:50
cis-1,2-Dichloroethene	< 2.00	ug/L	5/7/2015	17:50
cis-1,3-Dichloropropene	< 2.00	ug/L	5/7/2015	17:50
Cyclohexane	< 10.0	ug/L	5/7/2015	17:50
Dibromochloromethane	< 2.00	ug/L	5/7/2015	17:50
Dichlorodifluoromethane	< 2.00	ug/L	5/7/2015	17:50
Ethylbenzene	< 2.00	ug/L	5/7/2015	17:50
Freon 113	< 2.00	ug/L	5/7/2015	17:50
Isopropylbenzene	< 2.00	ug/L	5/7/2015	17:50
m,p-Xylene	< 2.00	ug/L	5/7/2015	17:50
Methyl acetate	< 2.00	ug/L	5/7/2015	17:50
Methyl tert-butyl Ether	< 2.00	ug/L	5/7/2015	17:50
Methylcyclohexane	< 2.00	ug/L	5/7/2015	17:50
Methylene chloride	< 5.00	ug/L	5/7/2015	17:50
o-Xylene	< 2.00	ug/L	5/7/2015	17:50
Styrene	< 5.00	ug/L	5/7/2015	17:50
Tetrachloroethene	< 2.00	ug/L	5/7/2015	17:50
Toluene	< 2.00	ug/L	5/7/2015	17:50
trans-1,2-Dichloroethene	< 2.00	ug/L	5/7/2015	17:50
trans-1,3-Dichloropropene	< 2.00	ug/L	5/7/2015	17:50
Trichloroethene	< 2.00	ug/L	5/7/2015	17:50
Trichlorofluoromethane	< 2.00	ug/L	5/7/2015	17:50
Vinyl chloride	< 2.00	ug/L	5/7/2015	17:50

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Report Prepared Friday, May 15, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151696

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: Trip Blank (T-614)
Lab Sample ID: 151696-14 **Date Sampled:** 5/4/2015
Matrix: Water **Date Received:** 5/5/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**95.5**	82.3 - 115		5/7/2015	17:50
4-Bromofluorobenzene	**90.6**	85.5 - 111		5/7/2015	17:50
Pentafluorobenzene	**93.9**	91.2 - 107		5/7/2015	17:50
Toluene-D8	**95.2**	90.9 - 108		5/7/2015	17:50

Method Reference(s): EPA 8260C
EPA 5030
Data File: x22614.D

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term, or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB will use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT:	Stantec	CLIENT:	Stantec	151696
ADDRESS:	61 Commercial St.	ADDRESS:		Quotation #:
CITY:	Rochester STATE: NY ZIP: 14614	CITY: STATE: ZIP:		Email:
PHONE:	413-5266	PHONE:	978-5248	Mike.staronsky@stantec.com
ATTN:	Mike Staronsky	ATTN:	Ben Haravitch	

PROJECT REFERENCE: Carriage Factory

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

	DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	VOCs (8260) TCL	TOC (415.1)	Na (6010)	Fe, Mn, As (6010)	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	5/5/15	0930		X	LI-RW-1-PI12	WG	5	X	X	X			01
2	5/5/15	1020			LI-RW-2-PI12		5	X	X	X	X		02
3	5/5/15	1140			LI-RW-3-PI12		5	X	X	X			03
4	5/4/15	0855			LI-RW-4-PI12		5	X	X	X			04
5	5/4/15	1125			LI-RW-5-PI12		5	X	X	X	X		05
6	5/4/15	1415			LI-RW-6-PI12		5	X	X	X	X		06
7	5/4/15	1525			LI-RW-7-PI12		5	X	X	X			07
8	5/4/15	1640			LI-RW-9-PI12 (MS/MSD)		15	X	X	X	X	MS/MSD	08
9	5/4/15	1310			LI-RW-12-PI12		5	X	X	X			09
10	5/4/15	1020			~~LI-R1~~ LI-DUP-PI12		5	X	X	X	X		10

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☐	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☒
Rush 2 day	☐	Category B	☒		
Rush 1 day	☐				
Other	☒	Other	☐	Other EDD	☒
please indicate:	10day	please indicate:		please indicate:	Stantec

Sampled By	Laura Best	5/5/15 16:15
Relinquished By	Laura Best	5/5/15 16:20
Received By	RR Lawson	5/5/15 1620
Received @ Lab By		5/5/15 16:53

Total Cost:

P.I.F.

6°C iced 5/5/15 16:47

Custody Seals n/a 1 samples delivered by client. GP 5/5/15

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CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT:	Stantec	CLIENT:	Stantec	151696
ADDRESS:	61 Commercial St.	ADDRESS:		Quotation #:
CITY:	Rochester STATE: NY ZIP: 14614	CITY:	STATE: ZIP:	
PHONE:	413-5266	PHONE:	978-5248	Email: mike.staronsky@stantec.com
ATTN:	Mike Staronsky	ATTN:	Ben Haravitch	

PROJECT REFERENCE: Carriage Factory

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

per Ben 5/5/15

REQUESTED ANALYSIS

	DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	VOCs (8260)	TOC (415.1)	Na (6010)	Fe, Mn, As (6010)	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	5/4/15	10:15		X	LI-B102-MW-PI12	WG	5	X	X	X	X		1 1
2	5/5/15	~~12:45~~	13:55	X	LI-B106-MW-PI12	WG	5	X	X	X			1 2
3	5/5/15	12:45		X	LI-B108-MW-PI12	WG	5	X	X	X	X		1 3
4	5/4/15	—			Trip Blank (T-614) per Sample label @ 5/5/15	WA	1	X					1 4
5	per Trip Blank Note @ 5/5/15												
6													
7													
8													
9													
10													

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☐	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☒
Rush 2 day	☐	Category B	☒		
Rush 1 day	☐				
Other please indicate: 10 day	☒	Other please indicate:	☐	Other EDD please indicate: Stantec	☐

Sampled By: Laura Best	5/5/15	16:15
Relinquished By: Laura Best	5/5/15	1620
Received By: [signature]	5/5/15	1620
Received @ Lab By: [signature]	5/5/15	16:53

Total Cost:

P.I.F.

Chain of Custody Supplement

Client: Stantec

Completed by: Glenn Pezzalo

Lab Project ID: 151696

Date: 5/5/15

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	X		X metals
Comments			
Preservation	X		
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		X metals
Comments	6°C iced		
Sufficient Sample Quantity	X		
Comments			

1505072018

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CHAIN OF CUSTODY

ADIRONDACK: ELAP ID: 10709

REPORT TO:		INVOICE TO:			
COMPANY:	Paradigm Environmental	COMPANY:	Same	LAB PROJECT #:	CLIENT PROJECT #:
ADDRESS:		ADDRESS:			
CITY: STATE: ZIP:		CITY: STATE: ZIP:		TURNAROUND TIME: (WORKING DAYS)	
PHONE: FAX:		PHONE: FAX:		STD: [ ]1 [ ]2 [ ]3 [X]5	OTHER: [ ]
PROJECT NAME/SITE NAME:		ATTN:	Kate Hansen	ATTN:	Meridith Dillman
		COMMENTS:	Please email results to khansen@paradigmenv.com and reporting@paradigmenv.com	Date Due:	5/14 for data

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER OF CONTAINERS	TOC									REMARKS	PARADIGM LAB SAMPLE NUMBER
																	Report J Flags. ASP Cat B Package due 5/27. SDG closed. SW-846 HT's.	
1	5/5/15	09:30		X	151696-01	Ground Water	2	X									LI-RW1-PI12	001
2	↓	10:20		↓	02	↓	↓	↓									LI-RW-2-PI12	002
3	↓	11:40		↓	03	↓	↓	↓									LI-RW-3-PI12	003
4	5/4/15	08:55		↓	04	↓	↓	↓									LI-RW-4-PI12	004
5	↓	11:25		↓	05	↓	↓	↓									LI-RW-5-PI12	005
6	↓	14:15		↓	06	↓	↓	↓									LI-RW-6-PI12	006
7	↓	15:25		↓	07	↓	↓	↓									LI-RW-7-PI12	007
8	↓	16:40		↓	08	↓	6	↓		MS/MSD on 08							LI-RW-9-PI12	008
9	↓	13:10		↓	09	↓	2	↓									LI-RW-12-PI12	009
10	↓	10:20		↓	10	↓	↓	↓									LI-~~RW~~ DUP-PI12	010

6P 5/6/15

LAB USE ONLY BELOW THIS LINE

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Sample containers were not supplied by ACS J.M. 5/7/15

Receipt Parameter	NELAC Compliance	
Container Type:	Y [ ]	N [ ]
Comments:		
Preservation:	Y [ ]	N [ ]
Comments:		
Holding Time:	Y [ ]	N [ ]
Comments:		
Temperature: 4°C	Y [ ]	N [ ]
Comments:		

Client

Sampled By: DP	Date/Time: 5/6/15 16:00	Total Cost:
Relinquished By	Date/Time	
Received By	Date/Time: 5/7/15 10:13 Am	P.I.F.
Received @ Lab By	Date/Time	

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

ADIRONDACK: ELAP ID: 10709

REPORT TO:		INVOICE TO:			
COMPANY:	Paradigm Environmental	COMPANY:	Same	LAB PROJECT #:	CLIENT PROJECT #:
ADDRESS:		ADDRESS:			
CITY: STATE: ZIP:		CITY: STATE: ZIP:		TURNAROUND TIME: (WORKING DAYS)	
PHONE: FAX:		PHONE: FAX:		STD	OTHER
PROJECT NAME/SITE NAME:		ATTN:	Kate Hansen	ATTN:	Meridith Dillman	☐ 1 ☐ 2 ☐ 3 ☒ 5	☐
		COMMENTS:	Please email results to khansen@paradigmenv.com and reporting@paradigmenv.com	Date Due:	5/14 for data

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	TOC	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	5/4/15	10:15		X	151696-11	Ground Water	2	X	LI-B102-MW-PI12	011
2	5/5/15	13:55		↓	12	↓	↓	↓	LI-B106-MW-PI12	012
3	↓	12:45		↓	13	↓	↓	↓	LI-B108-MW-PI12	013
4										
5										
6										
7										
8										
9										
10										

LAB USE ONLY BELOW THIS LINE

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter	NELAC Compliance	
Container Type:	Y ☐	N ☐
Comments:		
Preservation:	Y ☐	N ☐
Comments:		
Holding Time:	Y ☐	N ☐
Comments:		
Temperature:	Y ☐	N ☐
Comments: 4C		

Client

Sampled By — Date/Time: 5/6/15 16:00

Relinquished By — Date/Time

Received By — Date/Time: 5/7/15 10:13 AM

Received @ Lab By — Date/Time

Total Cost:

P.I.F.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160464

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-12-PS3		
Lab Sample ID:	160464-01	**Date Sampled:**	2/1/2016
Matrix:	Groundwater	**Date Received:**	2/2/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/9/2016 15:35
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/9/2016 15:35
1,1,2-Trichloroethane	< 2.00	ug/L		2/9/2016 15:35
1,1-Dichloroethane	< 2.00	ug/L		2/9/2016 15:35
1,1-Dichloroethene	< 2.00	ug/L		2/9/2016 15:35
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/9/2016 15:35
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/9/2016 15:35
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/9/2016 15:35
1,2-Dibromoethane	< 2.00	ug/L		2/9/2016 15:35
1,2-Dichlorobenzene	< 2.00	ug/L		2/9/2016 15:35
1,2-Dichloroethane	< 2.00	ug/L		2/9/2016 15:35
1,2-Dichloropropane	< 2.00	ug/L		2/9/2016 15:35
1,3-Dichlorobenzene	< 2.00	ug/L		2/9/2016 15:35
1,4-Dichlorobenzene	< 2.00	ug/L		2/9/2016 15:35
1,4-dioxane	< 20.0	ug/L		2/9/2016 15:35
2-Butanone	< 10.0	ug/L		2/9/2016 15:35
2-Hexanone	< 5.00	ug/L		2/9/2016 15:35
4-Methyl-2-pentanone	< 5.00	ug/L		2/9/2016 15:35
Acetone	< 10.0	ug/L		2/9/2016 15:35
Benzene	< 1.00	ug/L		2/9/2016 15:35
Bromochloromethane	< 5.00	ug/L		2/9/2016 15:35
Bromodichloromethane	< 2.00	ug/L		2/9/2016 15:35
Bromoform	< 5.00	ug/L		2/9/2016 15:35
Bromomethane	< 2.00	ug/L		2/9/2016 15:35
Carbon disulfide	< 2.00	ug/L		2/9/2016 15:35
Carbon Tetrachloride	< 2.00	ug/L		2/9/2016 15:35
Chlorobenzene	< 2.00	ug/L		2/9/2016 15:35

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160464

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-12-PS3
Lab Sample ID: 160464-01 **Date Sampled:** 2/1/2016
Matrix: Groundwater **Date Received:** 2/2/2016

Chloroethane	< 2.00	ug/L		2/9/2016	15:35
Chloroform	< 2.00	ug/L		2/9/2016	15:35
Chloromethane	< 2.00	ug/L		2/9/2016	15:35
cis-1,2-Dichloroethene	**3.65**	ug/L		2/9/2016	15:35
cis-1,3-Dichloropropene	< 2.00	ug/L		2/9/2016	15:35
Cyclohexane	< 10.0	ug/L		2/9/2016	15:35
Dibromochloromethane	< 2.00	ug/L		2/9/2016	15:35
Dichlorodifluoromethane	< 2.00	ug/L		2/9/2016	15:35
Ethylbenzene	< 2.00	ug/L		2/9/2016	15:35
Freon 113	< 2.00	ug/L		2/9/2016	15:35
Isopropylbenzene	< 2.00	ug/L		2/9/2016	15:35
m,p-Xylene	< 2.00	ug/L		2/9/2016	15:35
Methyl acetate	< 2.00	ug/L		2/9/2016	15:35
Methyl tert-butyl Ether	< 2.00	ug/L		2/9/2016	15:35
Methylcyclohexane	< 2.00	ug/L		2/9/2016	15:35
Methylene chloride	< 5.00	ug/L		2/9/2016	15:35
o-Xylene	< 2.00	ug/L		2/9/2016	15:35
Styrene	< 5.00	ug/L		2/9/2016	15:35
Tetrachloroethene	**1.68**	ug/L	J	2/9/2016	15:35
Toluene	< 2.00	ug/L		2/9/2016	15:35
trans-1,2-Dichloroethene	< 2.00	ug/L		2/9/2016	15:35
trans-1,3-Dichloropropene	< 2.00	ug/L		2/9/2016	15:35
Trichloroethene	**2.92**	ug/L		2/9/2016	15:35
Trichlorofluoromethane	< 2.00	ug/L		2/9/2016	15:35
Vinyl chloride	< 2.00	ug/L		2/9/2016	15:35

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160464

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-12-PS3

Lab Sample ID: 160464-01 **Date Sampled:** 2/1/2016

Matrix: Groundwater **Date Received:** 2/2/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**105**	81.6 - 118		2/9/2016	15:35
4-Bromofluorobenzene	**95.9**	79.5 - 115		2/9/2016	15:35
Pentafluorobenzene	**97.8**	91.4 - 111		2/9/2016	15:35
Toluene-D8	**99.3**	89.8 - 108		2/9/2016	15:35

Method Reference(s): EPA 8260C
EPA 5030C

Data File: x29515.D

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Thursday, February 18, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160464

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-6-PS3
Lab Sample ID: 160464-02 **Date Sampled:** 2/1/2016
Matrix: Groundwater **Date Received:** 2/2/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 20.0	ug/L		2/11/2016 17:05
1,1,2,2-Tetrachloroethane	< 20.0	ug/L		2/11/2016 17:05
1,1,2-Trichloroethane	< 20.0	ug/L		2/11/2016 17:05
1,1-Dichloroethane	< 20.0	ug/L		2/11/2016 17:05
1,1-Dichloroethene	< 20.0	ug/L		2/11/2016 17:05
1,2,3-Trichlorobenzene	< 50.0	ug/L		2/11/2016 17:05
1,2,4-Trichlorobenzene	< 50.0	ug/L		2/11/2016 17:05
1,2-Dibromo-3-Chloropropane	< 100	ug/L		2/11/2016 17:05
1,2-Dibromoethane	< 20.0	ug/L		2/11/2016 17:05
1,2-Dichlorobenzene	< 20.0	ug/L		2/11/2016 17:05
1,2-Dichloroethane	< 20.0	ug/L		2/11/2016 17:05
1,2-Dichloropropane	< 20.0	ug/L		2/11/2016 17:05
1,3-Dichlorobenzene	< 20.0	ug/L		2/11/2016 17:05
1,4-Dichlorobenzene	< 20.0	ug/L		2/11/2016 17:05
1,4-dioxane	< 200	ug/L		2/11/2016 17:05
2-Butanone	**200**	ug/L		2/11/2016 17:05
2-Hexanone	< 50.0	ug/L		2/11/2016 17:05
4-Methyl-2-pentanone	< 50.0	ug/L		2/11/2016 17:05
Acetone	< 100	ug/L		2/11/2016 17:05
Benzene	< 10.0	ug/L		2/11/2016 17:05
Bromochloromethane	< 50.0	ug/L		2/11/2016 17:05
Bromodichloromethane	< 20.0	ug/L		2/11/2016 17:05
Bromoform	< 50.0	ug/L		2/11/2016 17:05
Bromomethane	< 20.0	ug/L		2/11/2016 17:05
Carbon disulfide	< 20.0	ug/L		2/11/2016 17:05
Carbon Tetrachloride	< 20.0	ug/L		2/11/2016 17:05
Chlorobenzene	< 20.0	ug/L		2/11/2016 17:05

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160464

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-6-PS3
Lab Sample ID: 160464-02 **Date Sampled:** 2/1/2016
Matrix: Groundwater **Date Received:** 2/2/2016

Chloroethane	< 20.0	ug/L		2/11/2016	17:05
Chloroform	< 20.0	ug/L		2/11/2016	17:05
Chloromethane	< 20.0	ug/L		2/11/2016	17:05
cis-1,2-Dichloroethene	**1520**	ug/L		2/11/2016	17:05
cis-1,3-Dichloropropene	< 20.0	ug/L		2/11/2016	17:05
Cyclohexane	< 100	ug/L		2/11/2016	17:05
Dibromochloromethane	< 20.0	ug/L		2/11/2016	17:05
Dichlorodifluoromethane	< 20.0	ug/L		2/11/2016	17:05
Ethylbenzene	< 20.0	ug/L		2/11/2016	17:05
Freon 113	< 20.0	ug/L		2/11/2016	17:05
Isopropylbenzene	< 20.0	ug/L		2/11/2016	17:05
m,p-Xylene	< 20.0	ug/L		2/11/2016	17:05
Methyl acetate	< 20.0	ug/L		2/11/2016	17:05
Methyl tert-butyl Ether	< 20.0	ug/L		2/11/2016	17:05
Methylcyclohexane	< 20.0	ug/L		2/11/2016	17:05
Methylene chloride	< 50.0	ug/L		2/11/2016	17:05
o-Xylene	< 20.0	ug/L		2/11/2016	17:05
Styrene	< 50.0	ug/L		2/11/2016	17:05
Tetrachloroethene	< 20.0	ug/L		2/11/2016	17:05
Toluene	< 20.0	ug/L		2/11/2016	17:05
trans-1,2-Dichloroethene	**11.5**	ug/L	J	2/11/2016	17:05
trans-1,3-Dichloropropene	< 20.0	ug/L		2/11/2016	17:05
Trichloroethene	< 20.0	ug/L		2/11/2016	17:05
Trichlorofluoromethane	< 20.0	ug/L		2/11/2016	17:05
Vinyl chloride	**1120**	ug/L		2/11/2016	17:05

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PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160464

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-6-PS3

Lab Sample ID: 160464-02 **Date Sampled:** 2/1/2016

Matrix: Groundwater **Date Received:** 2/2/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**103**	81.6 - 118		2/11/2016	17:05
4-Bromofluorobenzene	**98.5**	79.5 - 115		2/11/2016	17:05
Pentafluorobenzene	**102**	91.4 - 111		2/11/2016	17:05
Toluene-D8	**102**	89.8 - 108		2/11/2016	17:05

Method Reference(s): EPA 8260C
EPA 5030C

Data File: x29580.D

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Report Prepared Thursday, February 18, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160464

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-7-PS3		
Lab Sample ID:	160464-03	**Date Sampled:**	2/1/2016
Matrix:	Groundwater	**Date Received:**	2/2/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/9/2016 16:21
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/9/2016 16:21
1,1,2-Trichloroethane	< 2.00	ug/L		2/9/2016 16:21
1,1-Dichloroethane	< 2.00	ug/L		2/9/2016 16:21
1,1-Dichloroethene	< 2.00	ug/L		2/9/2016 16:21
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/9/2016 16:21
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/9/2016 16:21
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/9/2016 16:21
1,2-Dibromoethane	< 2.00	ug/L		2/9/2016 16:21
1,2-Dichlorobenzene	< 2.00	ug/L		2/9/2016 16:21
1,2-Dichloroethane	< 2.00	ug/L		2/9/2016 16:21
1,2-Dichloropropane	< 2.00	ug/L		2/9/2016 16:21
1,3-Dichlorobenzene	< 2.00	ug/L		2/9/2016 16:21
1,4-Dichlorobenzene	< 2.00	ug/L		2/9/2016 16:21
1,4-dioxane	< 20.0	ug/L		2/9/2016 16:21
2-Butanone	**25.2**	ug/L		2/9/2016 16:21
2-Hexanone	< 5.00	ug/L		2/9/2016 16:21
4-Methyl-2-pentanone	< 5.00	ug/L		2/9/2016 16:21
Acetone	< 10.0	ug/L		2/9/2016 16:21
Benzene	< 1.00	ug/L		2/9/2016 16:21
Bromochloromethane	< 5.00	ug/L		2/9/2016 16:21
Bromodichloromethane	< 2.00	ug/L		2/9/2016 16:21
Bromoform	< 5.00	ug/L		2/9/2016 16:21
Bromomethane	< 2.00	ug/L		2/9/2016 16:21
Carbon disulfide	< 2.00	ug/L		2/9/2016 16:21
Carbon Tetrachloride	< 2.00	ug/L		2/9/2016 16:21
Chlorobenzene	< 2.00	ug/L		2/9/2016 16:21

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160464

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-7-PS3
Lab Sample ID: 160464-03 **Date Sampled:** 2/1/2016
Matrix: Groundwater **Date Received:** 2/2/2016

Chloroethane	< 2.00	ug/L		2/9/2016	16:21
Chloroform	< 2.00	ug/L		2/9/2016	16:21
Chloromethane	< 2.00	ug/L		2/9/2016	16:21
cis-1,2-Dichloroethene	< 2.00	ug/L		2/9/2016	16:21
cis-1,3-Dichloropropene	< 2.00	ug/L		2/9/2016	16:21
Cyclohexane	< 10.0	ug/L		2/9/2016	16:21
Dibromochloromethane	< 2.00	ug/L		2/9/2016	16:21
Dichlorodifluoromethane	< 2.00	ug/L		2/9/2016	16:21
Ethylbenzene	< 2.00	ug/L		2/9/2016	16:21
Freon 113	< 2.00	ug/L		2/9/2016	16:21
Isopropylbenzene	< 2.00	ug/L		2/9/2016	16:21
m,p-Xylene	< 2.00	ug/L		2/9/2016	16:21
Methyl acetate	< 2.00	ug/L		2/9/2016	16:21
Methyl tert-butyl Ether	**1.43**	ug/L	J	2/9/2016	16:21
Methylcyclohexane	< 2.00	ug/L		2/9/2016	16:21
Methylene chloride	< 5.00	ug/L		2/9/2016	16:21
o-Xylene	< 2.00	ug/L		2/9/2016	16:21
Styrene	< 5.00	ug/L		2/9/2016	16:21
Tetrachloroethene	< 2.00	ug/L		2/9/2016	16:21
Toluene	< 2.00	ug/L		2/9/2016	16:21
trans-1,2-Dichloroethene	< 2.00	ug/L		2/9/2016	16:21
trans-1,3-Dichloropropene	< 2.00	ug/L		2/9/2016	16:21
Trichloroethene	< 2.00	ug/L		2/9/2016	16:21
Trichlorofluoromethane	< 2.00	ug/L		2/9/2016	16:21
Vinyl chloride	**2.27**	ug/L		2/9/2016	16:21

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PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160464

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-7-PS3

Lab Sample ID: 160464-03 **Date Sampled:** 2/1/2016

Matrix: Groundwater **Date Received:** 2/2/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**108**	81.6 - 118		2/9/2016	16:21
4-Bromofluorobenzene	**95.2**	79.5 - 115		2/9/2016	16:21
Pentafluorobenzene	**98.3**	91.4 - 111		2/9/2016	16:21
Toluene-D8	**98.1**	89.8 - 108		2/9/2016	16:21

Method Reference(s): EPA 8260C
EPA 5030C

Data File: x29517.D

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Report Prepared Thursday, February 18, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160464

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-9-PS3
Lab Sample ID: 160464-04 **Date Sampled:** 2/1/2016
Matrix: Groundwater **Date Received:** 2/2/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/9/2016 16:44
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/9/2016 16:44
1,1,2-Trichloroethane	< 2.00	ug/L		2/9/2016 16:44
1,1-Dichloroethane	< 2.00	ug/L		2/9/2016 16:44
1,1-Dichloroethene	< 2.00	ug/L		2/9/2016 16:44
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/9/2016 16:44
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/9/2016 16:44
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/9/2016 16:44
1,2-Dibromoethane	< 2.00	ug/L		2/9/2016 16:44
1,2-Dichlorobenzene	< 2.00	ug/L		2/9/2016 16:44
1,2-Dichloroethane	< 2.00	ug/L		2/9/2016 16:44
1,2-Dichloropropane	< 2.00	ug/L		2/9/2016 16:44
1,3-Dichlorobenzene	< 2.00	ug/L		2/9/2016 16:44
1,4-Dichlorobenzene	< 2.00	ug/L		2/9/2016 16:44
1,4-dioxane	< 20.0	ug/L		2/9/2016 16:44
2-Butanone	< 10.0	ug/L		2/9/2016 16:44
2-Hexanone	< 5.00	ug/L		2/9/2016 16:44
4-Methyl-2-pentanone	< 5.00	ug/L		2/9/2016 16:44
Acetone	< 10.0	ug/L		2/9/2016 16:44
Benzene	< 1.00	ug/L		2/9/2016 16:44
Bromochloromethane	< 5.00	ug/L		2/9/2016 16:44
Bromodichloromethane	< 2.00	ug/L		2/9/2016 16:44
Bromoform	< 5.00	ug/L		2/9/2016 16:44
Bromomethane	< 2.00	ug/L		2/9/2016 16:44
Carbon disulfide	< 2.00	ug/L		2/9/2016 16:44
Carbon Tetrachloride	< 2.00	ug/L		2/9/2016 16:44
Chlorobenzene	< 2.00	ug/L		2/9/2016 16:44

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160464

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-9-PS3
Lab Sample ID: 160464-04 **Date Sampled:** 2/1/2016
Matrix: Groundwater **Date Received:** 2/2/2016

Chloroethane	< 2.00	ug/L	2/9/2016	16:44
Chloroform	< 2.00	ug/L	2/9/2016	16:44
Chloromethane	< 2.00	ug/L	2/9/2016	16:44
cis-1,2-Dichloroethene	< 2.00	ug/L	2/9/2016	16:44
cis-1,3-Dichloropropene	< 2.00	ug/L	2/9/2016	16:44
Cyclohexane	< 10.0	ug/L	2/9/2016	16:44
Dibromochloromethane	< 2.00	ug/L	2/9/2016	16:44
Dichlorodifluoromethane	< 2.00	ug/L	2/9/2016	16:44
Ethylbenzene	< 2.00	ug/L	2/9/2016	16:44
Freon 113	< 2.00	ug/L	2/9/2016	16:44
Isopropylbenzene	< 2.00	ug/L	2/9/2016	16:44
m,p-Xylene	< 2.00	ug/L	2/9/2016	16:44
Methyl acetate	< 2.00	ug/L	2/9/2016	16:44
Methyl tert-butyl Ether	< 2.00	ug/L	2/9/2016	16:44
Methylcyclohexane	< 2.00	ug/L	2/9/2016	16:44
Methylene chloride	< 5.00	ug/L	2/9/2016	16:44
o-Xylene	< 2.00	ug/L	2/9/2016	16:44
Styrene	< 5.00	ug/L	2/9/2016	16:44
Tetrachloroethene	**3.62**	ug/L	2/9/2016	16:44
Toluene	< 2.00	ug/L	2/9/2016	16:44
trans-1,2-Dichloroethene	< 2.00	ug/L	2/9/2016	16:44
trans-1,3-Dichloropropene	< 2.00	ug/L	2/9/2016	16:44
Trichloroethene	< 2.00	ug/L	2/9/2016	16:44
Trichlorofluoromethane	< 2.00	ug/L	2/9/2016	16:44
Vinyl chloride	< 2.00	ug/L	2/9/2016	16:44

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160464

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-9-PS3
Lab Sample ID: 160464-04 **Date Sampled:** 2/1/2016
Matrix: Groundwater **Date Received:** 2/2/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**105**	81.6 - 118		2/9/2016	16:44
4-Bromofluorobenzene	**93.3**	79.5 - 115		2/9/2016	16:44
Pentafluorobenzene	**97.0**	91.4 - 111		2/9/2016	16:44
Toluene-D8	**98.6**	89.8 - 108		2/9/2016	16:44

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x29518.D

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Report Prepared Thursday, February 18, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160464

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-5-PS3		
Lab Sample ID:	160464-05	**Date Sampled:**	2/1/2016
Matrix:	Groundwater	**Date Received:**	2/2/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/9/2016 17:07
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/9/2016 17:07
1,1,2-Trichloroethane	< 2.00	ug/L		2/9/2016 17:07
1,1-Dichloroethane	< 2.00	ug/L		2/9/2016 17:07
1,1-Dichloroethene	< 2.00	ug/L		2/9/2016 17:07
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/9/2016 17:07
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/9/2016 17:07
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/9/2016 17:07
1,2-Dibromoethane	< 2.00	ug/L		2/9/2016 17:07
1,2-Dichlorobenzene	< 2.00	ug/L		2/9/2016 17:07
1,2-Dichloroethane	< 2.00	ug/L		2/9/2016 17:07
1,2-Dichloropropane	< 2.00	ug/L		2/9/2016 17:07
1,3-Dichlorobenzene	< 2.00	ug/L		2/9/2016 17:07
1,4-Dichlorobenzene	< 2.00	ug/L		2/9/2016 17:07
1,4-dioxane	< 20.0	ug/L		2/9/2016 17:07
2-Butanone	**26.1**	ug/L		2/9/2016 17:07
2-Hexanone	< 5.00	ug/L		2/9/2016 17:07
4-Methyl-2-pentanone	< 5.00	ug/L		2/9/2016 17:07
Acetone	< 10.0	ug/L		2/9/2016 17:07
Benzene	< 1.00	ug/L		2/9/2016 17:07
Bromochloromethane	< 5.00	ug/L		2/9/2016 17:07
Bromodichloromethane	< 2.00	ug/L		2/9/2016 17:07
Bromoform	< 5.00	ug/L		2/9/2016 17:07
Bromomethane	< 2.00	ug/L		2/9/2016 17:07
Carbon disulfide	< 2.00	ug/L		2/9/2016 17:07
Carbon Tetrachloride	< 2.00	ug/L		2/9/2016 17:07
Chlorobenzene	< 2.00	ug/L		2/9/2016 17:07

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160464

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-5-PS3
Lab Sample ID: 160464-05 **Date Sampled:** 2/1/2016
Matrix: Groundwater **Date Received:** 2/2/2016

Chloroethane	< 2.00	ug/L		2/9/2016	17:07
Chloroform	< 2.00	ug/L		2/9/2016	17:07
Chloromethane	< 2.00	ug/L		2/9/2016	17:07
cis-1,2-Dichloroethene	< 2.00	ug/L		2/9/2016	17:07
cis-1,3-Dichloropropene	< 2.00	ug/L		2/9/2016	17:07
Cyclohexane	< 10.0	ug/L		2/9/2016	17:07
Dibromochloromethane	< 2.00	ug/L		2/9/2016	17:07
Dichlorodifluoromethane	< 2.00	ug/L		2/9/2016	17:07
Ethylbenzene	< 2.00	ug/L		2/9/2016	17:07
Freon 113	< 2.00	ug/L		2/9/2016	17:07
Isopropylbenzene	< 2.00	ug/L		2/9/2016	17:07
m,p-Xylene	< 2.00	ug/L		2/9/2016	17:07
Methyl acetate	< 2.00	ug/L		2/9/2016	17:07
Methyl tert-butyl Ether	< 2.00	ug/L		2/9/2016	17:07
Methylcyclohexane	< 2.00	ug/L		2/9/2016	17:07
Methylene chloride	< 5.00	ug/L		2/9/2016	17:07
o-Xylene	< 2.00	ug/L		2/9/2016	17:07
Styrene	< 5.00	ug/L		2/9/2016	17:07
Tetrachloroethene	< 2.00	ug/L		2/9/2016	17:07
Toluene	< 2.00	ug/L		2/9/2016	17:07
trans-1,2-Dichloroethene	< 2.00	ug/L		2/9/2016	17:07
trans-1,3-Dichloropropene	< 2.00	ug/L		2/9/2016	17:07
Trichloroethene	< 2.00	ug/L		2/9/2016	17:07
Trichlorofluoromethane	< 2.00	ug/L		2/9/2016	17:07
Vinyl chloride	**1.52**	ug/L	J	2/9/2016	17:07

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160464

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-5-PS3
Lab Sample ID: 160464-05 **Date Sampled:** 2/1/2016
Matrix: Groundwater **Date Received:** 2/2/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**106**	81.6 - 118		2/9/2016	17:07
4-Bromofluorobenzene	**93.5**	79.5 - 115		2/9/2016	17:07
Pentafluorobenzene	**97.3**	91.4 - 111		2/9/2016	17:07
Toluene-D8	**99.0**	89.8 - 108		2/9/2016	17:07

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x29519.D

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Report Prepared Thursday, February 18, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160464

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-B102-MW-PS3		
Lab Sample ID:	160464-06	**Date Sampled:**	2/1/2016
Matrix:	Groundwater	**Date Received:**	2/2/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/9/2016 17:31
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/9/2016 17:31
1,1,2-Trichloroethane	< 2.00	ug/L		2/9/2016 17:31
1,1-Dichloroethane	< 2.00	ug/L		2/9/2016 17:31
1,1-Dichloroethene	< 2.00	ug/L		2/9/2016 17:31
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/9/2016 17:31
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/9/2016 17:31
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/9/2016 17:31
1,2-Dibromoethane	< 2.00	ug/L		2/9/2016 17:31
1,2-Dichlorobenzene	< 2.00	ug/L		2/9/2016 17:31
1,2-Dichloroethane	< 2.00	ug/L		2/9/2016 17:31
1,2-Dichloropropane	< 2.00	ug/L		2/9/2016 17:31
1,3-Dichlorobenzene	< 2.00	ug/L		2/9/2016 17:31
1,4-Dichlorobenzene	< 2.00	ug/L		2/9/2016 17:31
1,4-dioxane	< 20.0	ug/L		2/9/2016 17:31
2-Butanone	**9.98**	ug/L	J	2/9/2016 17:31
2-Hexanone	< 5.00	ug/L		2/9/2016 17:31
4-Methyl-2-pentanone	< 5.00	ug/L		2/9/2016 17:31
Acetone	< 10.0	ug/L		2/9/2016 17:31
Benzene	< 1.00	ug/L		2/9/2016 17:31
Bromochloromethane	< 5.00	ug/L		2/9/2016 17:31
Bromodichloromethane	< 2.00	ug/L		2/9/2016 17:31
Bromoform	< 5.00	ug/L		2/9/2016 17:31
Bromomethane	< 2.00	ug/L		2/9/2016 17:31
Carbon disulfide	< 2.00	ug/L		2/9/2016 17:31
Carbon Tetrachloride	< 2.00	ug/L		2/9/2016 17:31
Chlorobenzene	< 2.00	ug/L		2/9/2016 17:31

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160464

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-B102-MW-PS3
Lab Sample ID: 160464-06 **Date Sampled:** 2/1/2016
Matrix: Groundwater **Date Received:** 2/2/2016

Chloroethane	< 2.00	ug/L	2/9/2016	17:31
Chloroform	< 2.00	ug/L	2/9/2016	17:31
Chloromethane	< 2.00	ug/L	2/9/2016	17:31
cis-1,2-Dichloroethene	< 2.00	ug/L	2/9/2016	17:31
cis-1,3-Dichloropropene	< 2.00	ug/L	2/9/2016	17:31
Cyclohexane	< 10.0	ug/L	2/9/2016	17:31
Dibromochloromethane	< 2.00	ug/L	2/9/2016	17:31
Dichlorodifluoromethane	< 2.00	ug/L	2/9/2016	17:31
Ethylbenzene	< 2.00	ug/L	2/9/2016	17:31
Freon 113	< 2.00	ug/L	2/9/2016	17:31
Isopropylbenzene	< 2.00	ug/L	2/9/2016	17:31
m,p-Xylene	< 2.00	ug/L	2/9/2016	17:31
Methyl acetate	< 2.00	ug/L	2/9/2016	17:31
Methyl tert-butyl Ether	< 2.00	ug/L	2/9/2016	17:31
Methylcyclohexane	< 2.00	ug/L	2/9/2016	17:31
Methylene chloride	< 5.00	ug/L	2/9/2016	17:31
o-Xylene	< 2.00	ug/L	2/9/2016	17:31
Styrene	< 5.00	ug/L	2/9/2016	17:31
Tetrachloroethene	< 2.00	ug/L	2/9/2016	17:31
Toluene	< 2.00	ug/L	2/9/2016	17:31
trans-1,2-Dichloroethene	< 2.00	ug/L	2/9/2016	17:31
trans-1,3-Dichloropropene	< 2.00	ug/L	2/9/2016	17:31
Trichloroethene	< 2.00	ug/L	2/9/2016	17:31
Trichlorofluoromethane	< 2.00	ug/L	2/9/2016	17:31
Vinyl chloride	< 2.00	ug/L	2/9/2016	17:31

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PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160464

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-B102-MW-PS3

Lab Sample ID: 160464-06 **Date Sampled:** 2/1/2016

Matrix: Groundwater **Date Received:** 2/2/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**105**	81.6 - 118		2/9/2016	17:31
4-Bromofluorobenzene	**94.0**	79.5 - 115		2/9/2016	17:31
Pentafluorobenzene	**98.2**	91.4 - 111		2/9/2016	17:31
Toluene-D8	**98.0**	89.8 - 108		2/9/2016	17:31

Method Reference(s): EPA 8260C
EPA 5030C

Data File: x29520.D

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Report Prepared Thursday, February 18, 2016

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160464

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-4-PS3		
Lab Sample ID:	160464-07	**Date Sampled:**	2/1/2016
Matrix:	Groundwater	**Date Received:**	2/2/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/9/2016 17:54
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/9/2016 17:54
1,1,2-Trichloroethane	< 2.00	ug/L		2/9/2016 17:54
1,1-Dichloroethane	< 2.00	ug/L		2/9/2016 17:54
1,1-Dichloroethene	< 2.00	ug/L		2/9/2016 17:54
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/9/2016 17:54
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/9/2016 17:54
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/9/2016 17:54
1,2-Dibromoethane	< 2.00	ug/L		2/9/2016 17:54
1,2-Dichlorobenzene	< 2.00	ug/L		2/9/2016 17:54
1,2-Dichloroethane	< 2.00	ug/L		2/9/2016 17:54
1,2-Dichloropropane	< 2.00	ug/L		2/9/2016 17:54
1,3-Dichlorobenzene	< 2.00	ug/L		2/9/2016 17:54
1,4-Dichlorobenzene	< 2.00	ug/L		2/9/2016 17:54
1,4-dioxane	< 20.0	ug/L		2/9/2016 17:54
2-Butanone	**58.1**	ug/L		2/9/2016 17:54
2-Hexanone	< 5.00	ug/L		2/9/2016 17:54
4-Methyl-2-pentanone	< 5.00	ug/L		2/9/2016 17:54
Acetone	**9.92**	ug/L	J	2/9/2016 17:54
Benzene	< 1.00	ug/L		2/9/2016 17:54
Bromochloromethane	< 5.00	ug/L		2/9/2016 17:54
Bromodichloromethane	< 2.00	ug/L		2/9/2016 17:54
Bromoform	< 5.00	ug/L		2/9/2016 17:54
Bromomethane	< 2.00	ug/L		2/9/2016 17:54
Carbon disulfide	**1.26**	ug/L	J	2/9/2016 17:54
Carbon Tetrachloride	< 2.00	ug/L		2/9/2016 17:54
Chlorobenzene	< 2.00	ug/L		2/9/2016 17:54

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160464

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-4-PS3
Lab Sample ID: 160464-07 **Date Sampled:** 2/1/2016
Matrix: Groundwater **Date Received:** 2/2/2016

Chloroethane	< 2.00	ug/L	2/9/2016	17:54
Chloroform	< 2.00	ug/L	2/9/2016	17:54
Chloromethane	< 2.00	ug/L	2/9/2016	17:54
cis-1,2-Dichloroethene	**14.0**	ug/L	2/9/2016	17:54
cis-1,3-Dichloropropene	< 2.00	ug/L	2/9/2016	17:54
Cyclohexane	< 10.0	ug/L	2/9/2016	17:54
Dibromochloromethane	< 2.00	ug/L	2/9/2016	17:54
Dichlorodifluoromethane	< 2.00	ug/L	2/9/2016	17:54
Ethylbenzene	< 2.00	ug/L	2/9/2016	17:54
Freon 113	< 2.00	ug/L	2/9/2016	17:54
Isopropylbenzene	< 2.00	ug/L	2/9/2016	17:54
m,p-Xylene	< 2.00	ug/L	2/9/2016	17:54
Methyl acetate	< 2.00	ug/L	2/9/2016	17:54
Methyl tert-butyl Ether	< 2.00	ug/L	2/9/2016	17:54
Methylcyclohexane	< 2.00	ug/L	2/9/2016	17:54
Methylene chloride	< 5.00	ug/L	2/9/2016	17:54
o-Xylene	< 2.00	ug/L	2/9/2016	17:54
Styrene	< 5.00	ug/L	2/9/2016	17:54
Tetrachloroethene	< 2.00	ug/L	2/9/2016	17:54
Toluene	< 2.00	ug/L	2/9/2016	17:54
trans-1,2-Dichloroethene	< 2.00	ug/L	2/9/2016	17:54
trans-1,3-Dichloropropene	< 2.00	ug/L	2/9/2016	17:54
Trichloroethene	< 2.00	ug/L	2/9/2016	17:54
Trichlorofluoromethane	< 2.00	ug/L	2/9/2016	17:54
Vinyl chloride	**7.98**	ug/L	2/9/2016	17:54

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160464

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-4-PS3
Lab Sample ID: 160464-07 **Date Sampled:** 2/1/2016
Matrix: Groundwater **Date Received:** 2/2/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**105**	81.6 - 118		2/9/2016	17:54
4-Bromofluorobenzene	**93.9**	79.5 - 115		2/9/2016	17:54
Pentafluorobenzene	**97.6**	91.4 - 111		2/9/2016	17:54
Toluene-D8	**100**	89.8 - 108		2/9/2016	17:54

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x29521.D

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Report Prepared Thursday, February 18, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160464

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-B108-MW-PS3		
Lab Sample ID:	160464-08	**Date Sampled:**	2/2/2016
Matrix:	Groundwater	**Date Received:**	2/2/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/9/2016 20:15
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/9/2016 20:15
1,1,2-Trichloroethane	< 2.00	ug/L		2/9/2016 20:15
1,1-Dichloroethane	< 2.00	ug/L		2/9/2016 20:15
1,1-Dichloroethene	< 2.00	ug/L		2/9/2016 20:15
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/9/2016 20:15
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/9/2016 20:15
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/9/2016 20:15
1,2-Dibromoethane	< 2.00	ug/L		2/9/2016 20:15
1,2-Dichlorobenzene	< 2.00	ug/L		2/9/2016 20:15
1,2-Dichloroethane	< 2.00	ug/L		2/9/2016 20:15
1,2-Dichloropropane	< 2.00	ug/L		2/9/2016 20:15
1,3-Dichlorobenzene	< 2.00	ug/L		2/9/2016 20:15
1,4-Dichlorobenzene	< 2.00	ug/L		2/9/2016 20:15
1,4-dioxane	< 20.0	ug/L		2/9/2016 20:15
2-Butanone	**16.3**	ug/L		2/9/2016 20:15
2-Hexanone	< 5.00	ug/L		2/9/2016 20:15
4-Methyl-2-pentanone	< 5.00	ug/L		2/9/2016 20:15
Acetone	< 10.0	ug/L		2/9/2016 20:15
Benzene	< 1.00	ug/L		2/9/2016 20:15
Bromochloromethane	< 5.00	ug/L		2/9/2016 20:15
Bromodichloromethane	< 2.00	ug/L	M	2/9/2016 20:15
Bromoform	< 5.00	ug/L		2/9/2016 20:15
Bromomethane	< 2.00	ug/L	M	2/9/2016 20:15
Carbon disulfide	< 2.00	ug/L		2/9/2016 20:15
Carbon Tetrachloride	< 2.00	ug/L		2/9/2016 20:15
Chlorobenzene	< 2.00	ug/L		2/9/2016 20:15

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PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160464

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-B108-MW-PS3
Lab Sample ID: 160464-08 **Date Sampled:** 2/2/2016
Matrix: Groundwater **Date Received:** 2/2/2016

Chloroethane	< 2.00	ug/L		2/9/2016	20:15
Chloroform	< 2.00	ug/L		2/9/2016	20:15
Chloromethane	< 2.00	ug/L		2/9/2016	20:15
cis-1,2-Dichloroethene	**11.8**	ug/L		2/9/2016	20:15
cis-1,3-Dichloropropene	< 2.00	ug/L	M	2/9/2016	20:15
Cyclohexane	< 10.0	ug/L		2/9/2016	20:15
Dibromochloromethane	< 2.00	ug/L		2/9/2016	20:15
Dichlorodifluoromethane	< 2.00	ug/L		2/9/2016	20:15
Ethylbenzene	< 2.00	ug/L		2/9/2016	20:15
Freon 113	< 2.00	ug/L		2/9/2016	20:15
Isopropylbenzene	< 2.00	ug/L		2/9/2016	20:15
m,p-Xylene	< 2.00	ug/L		2/9/2016	20:15
Methyl acetate	< 2.00	ug/L		2/9/2016	20:15
Methyl tert-butyl Ether	< 2.00	ug/L		2/9/2016	20:15
Methylcyclohexane	< 2.00	ug/L		2/9/2016	20:15
Methylene chloride	< 5.00	ug/L		2/9/2016	20:15
o-Xylene	< 2.00	ug/L		2/9/2016	20:15
Styrene	< 5.00	ug/L		2/9/2016	20:15
Tetrachloroethene	**5.17**	ug/L		2/9/2016	20:15
Toluene	< 2.00	ug/L		2/9/2016	20:15
trans-1,2-Dichloroethene	< 2.00	ug/L		2/9/2016	20:15
trans-1,3-Dichloropropene	< 2.00	ug/L		2/9/2016	20:15
Trichloroethene	**6.57**	ug/L		2/9/2016	20:15
Trichlorofluoromethane	< 2.00	ug/L		2/9/2016	20:15
Vinyl chloride	**9.05**	ug/L		2/9/2016	20:15

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PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160464

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-B108-MW-PS3

Lab Sample ID: 160464-08 **Date Sampled:** 2/2/2016

Matrix: Groundwater **Date Received:** 2/2/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**109**	81.6 - 118		2/9/2016	20:15
4-Bromofluorobenzene	**93.9**	79.5 - 115		2/9/2016	20:15
Pentafluorobenzene	**97.0**	91.4 - 111		2/9/2016	20:15
Toluene-D8	**100**	89.8 - 108		2/9/2016	20:15

Method Reference(s): EPA 8260C
EPA 5030C

Data File: x29527.D

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Report Prepared Thursday, February 18, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160464

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-3-PS3		
Lab Sample ID:	160464-09	**Date Sampled:**	2/2/2016
Matrix:	Groundwater	**Date Received:**	2/2/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/9/2016 18:18
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/9/2016 18:18
1,1,2-Trichloroethane	< 2.00	ug/L		2/9/2016 18:18
1,1-Dichloroethane	< 2.00	ug/L		2/9/2016 18:18
1,1-Dichloroethene	< 2.00	ug/L		2/9/2016 18:18
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/9/2016 18:18
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/9/2016 18:18
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/9/2016 18:18
1,2-Dibromoethane	< 2.00	ug/L		2/9/2016 18:18
1,2-Dichlorobenzene	< 2.00	ug/L		2/9/2016 18:18
1,2-Dichloroethane	< 2.00	ug/L		2/9/2016 18:18
1,2-Dichloropropane	< 2.00	ug/L		2/9/2016 18:18
1,3-Dichlorobenzene	< 2.00	ug/L		2/9/2016 18:18
1,4-Dichlorobenzene	< 2.00	ug/L		2/9/2016 18:18
1,4-dioxane	< 20.0	ug/L		2/9/2016 18:18
2-Butanone	**27.7**	ug/L		2/9/2016 18:18
2-Hexanone	< 5.00	ug/L		2/9/2016 18:18
4-Methyl-2-pentanone	< 5.00	ug/L		2/9/2016 18:18
Acetone	**20.2**	ug/L		2/9/2016 18:18
Benzene	< 1.00	ug/L		2/9/2016 18:18
Bromochloromethane	< 5.00	ug/L		2/9/2016 18:18
Bromodichloromethane	< 2.00	ug/L		2/9/2016 18:18
Bromoform	< 5.00	ug/L		2/9/2016 18:18
Bromomethane	< 2.00	ug/L		2/9/2016 18:18
Carbon disulfide	< 2.00	ug/L		2/9/2016 18:18
Carbon Tetrachloride	< 2.00	ug/L		2/9/2016 18:18
Chlorobenzene	< 2.00	ug/L		2/9/2016 18:18

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160464

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-3-PS3
Lab Sample ID: 160464-09 **Date Sampled:** 2/2/2016
Matrix: Groundwater **Date Received:** 2/2/2016

Chloroethane	< 2.00	ug/L	2/9/2016	18:18
Chloroform	< 2.00	ug/L	2/9/2016	18:18
Chloromethane	< 2.00	ug/L	2/9/2016	18:18
cis-1,2-Dichloroethene	< 2.00	ug/L	2/9/2016	18:18
cis-1,3-Dichloropropene	< 2.00	ug/L	2/9/2016	18:18
Cyclohexane	< 10.0	ug/L	2/9/2016	18:18
Dibromochloromethane	< 2.00	ug/L	2/9/2016	18:18
Dichlorodifluoromethane	< 2.00	ug/L	2/9/2016	18:18
Ethylbenzene	< 2.00	ug/L	2/9/2016	18:18
Freon 113	< 2.00	ug/L	2/9/2016	18:18
Isopropylbenzene	< 2.00	ug/L	2/9/2016	18:18
m,p-Xylene	< 2.00	ug/L	2/9/2016	18:18
Methyl acetate	< 2.00	ug/L	2/9/2016	18:18
Methyl tert-butyl Ether	**2.26**	ug/L	2/9/2016	18:18
Methylcyclohexane	< 2.00	ug/L	2/9/2016	18:18
Methylene chloride	< 5.00	ug/L	2/9/2016	18:18
o-Xylene	< 2.00	ug/L	2/9/2016	18:18
Styrene	< 5.00	ug/L	2/9/2016	18:18
Tetrachloroethene	< 2.00	ug/L	2/9/2016	18:18
Toluene	< 2.00	ug/L	2/9/2016	18:18
trans-1,2-Dichloroethene	**2.77**	ug/L	2/9/2016	18:18
trans-1,3-Dichloropropene	< 2.00	ug/L	2/9/2016	18:18
Trichloroethene	< 2.00	ug/L	2/9/2016	18:18
Trichlorofluoromethane	< 2.00	ug/L	2/9/2016	18:18
Vinyl chloride	< 2.00	ug/L	2/9/2016	18:18

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160464

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-3-PS3
Lab Sample ID: 160464-09 **Date Sampled:** 2/2/2016
Matrix: Groundwater **Date Received:** 2/2/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**108**	81.6 - 118		2/9/2016	18:18
4-Bromofluorobenzene	**94.4**	79.5 - 115		2/9/2016	18:18
Pentafluorobenzene	**97.6**	91.4 - 111		2/9/2016	18:18
Toluene-D8	**99.2**	89.8 - 108		2/9/2016	18:18

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x29522.D

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Report Prepared Thursday, February 18, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160464

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-2-PS3		
Lab Sample ID:	160464-10	**Date Sampled:**	2/2/2016
Matrix:	Groundwater	**Date Received:**	2/2/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/9/2016 18:42
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/9/2016 18:42
1,1,2-Trichloroethane	< 2.00	ug/L		2/9/2016 18:42
1,1-Dichloroethane	< 2.00	ug/L		2/9/2016 18:42
1,1-Dichloroethene	< 2.00	ug/L		2/9/2016 18:42
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/9/2016 18:42
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/9/2016 18:42
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/9/2016 18:42
1,2-Dibromoethane	< 2.00	ug/L		2/9/2016 18:42
1,2-Dichlorobenzene	< 2.00	ug/L		2/9/2016 18:42
1,2-Dichloroethane	< 2.00	ug/L		2/9/2016 18:42
1,2-Dichloropropane	< 2.00	ug/L		2/9/2016 18:42
1,3-Dichlorobenzene	< 2.00	ug/L		2/9/2016 18:42
1,4-Dichlorobenzene	< 2.00	ug/L		2/9/2016 18:42
1,4-dioxane	< 20.0	ug/L		2/9/2016 18:42
2-Butanone	**27.0**	ug/L		2/9/2016 18:42
2-Hexanone	< 5.00	ug/L		2/9/2016 18:42
4-Methyl-2-pentanone	< 5.00	ug/L		2/9/2016 18:42
Acetone	**7.44**	ug/L	J	2/9/2016 18:42
Benzene	< 1.00	ug/L		2/9/2016 18:42
Bromochloromethane	< 5.00	ug/L		2/9/2016 18:42
Bromodichloromethane	< 2.00	ug/L		2/9/2016 18:42
Bromoform	< 5.00	ug/L		2/9/2016 18:42
Bromomethane	< 2.00	ug/L		2/9/2016 18:42
Carbon disulfide	< 2.00	ug/L		2/9/2016 18:42
Carbon Tetrachloride	< 2.00	ug/L		2/9/2016 18:42
Chlorobenzene	< 2.00	ug/L		2/9/2016 18:42

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160464

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-2-PS3
Lab Sample ID: 160464-10 **Date Sampled:** 2/2/2016
Matrix: Groundwater **Date Received:** 2/2/2016

Chloroethane	< 2.00	ug/L	2/9/2016	18:42
Chloroform	< 2.00	ug/L	2/9/2016	18:42
Chloromethane	< 2.00	ug/L	2/9/2016	18:42
cis-1,2-Dichloroethene	< 2.00	ug/L	2/9/2016	18:42
cis-1,3-Dichloropropene	< 2.00	ug/L	2/9/2016	18:42
Cyclohexane	< 10.0	ug/L	2/9/2016	18:42
Dibromochloromethane	< 2.00	ug/L	2/9/2016	18:42
Dichlorodifluoromethane	< 2.00	ug/L	2/9/2016	18:42
Ethylbenzene	< 2.00	ug/L	2/9/2016	18:42
Freon 113	< 2.00	ug/L	2/9/2016	18:42
Isopropylbenzene	< 2.00	ug/L	2/9/2016	18:42
m,p-Xylene	< 2.00	ug/L	2/9/2016	18:42
Methyl acetate	< 2.00	ug/L	2/9/2016	18:42
Methyl tert-butyl Ether	< 2.00	ug/L	2/9/2016	18:42
Methylcyclohexane	< 2.00	ug/L	2/9/2016	18:42
Methylene chloride	< 5.00	ug/L	2/9/2016	18:42
o-Xylene	< 2.00	ug/L	2/9/2016	18:42
Styrene	< 5.00	ug/L	2/9/2016	18:42
Tetrachloroethene	< 2.00	ug/L	2/9/2016	18:42
Toluene	< 2.00	ug/L	2/9/2016	18:42
trans-1,2-Dichloroethene	< 2.00	ug/L	2/9/2016	18:42
trans-1,3-Dichloropropene	< 2.00	ug/L	2/9/2016	18:42
Trichloroethene	< 2.00	ug/L	2/9/2016	18:42
Trichlorofluoromethane	< 2.00	ug/L	2/9/2016	18:42
Vinyl chloride	< 2.00	ug/L	2/9/2016	18:42

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PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160464

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-2-PS3
Lab Sample ID: 160464-10 **Date Sampled:** 2/2/2016
Matrix: Groundwater **Date Received:** 2/2/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**106**	81.6 - 118		2/9/2016	18:42
4-Bromofluorobenzene	**93.4**	79.5 - 115		2/9/2016	18:42
Pentafluorobenzene	**96.9**	91.4 - 111		2/9/2016	18:42
Toluene-D8	**100**	89.8 - 108		2/9/2016	18:42

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x29523.D

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Report Prepared Thursday, February 18, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160464

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-1-PS3		
Lab Sample ID:	160464-11	**Date Sampled:**	2/2/2016
Matrix:	Groundwater	**Date Received:**	2/2/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/9/2016 19:05
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/9/2016 19:05
1,1,2-Trichloroethane	< 2.00	ug/L		2/9/2016 19:05
1,1-Dichloroethane	< 2.00	ug/L		2/9/2016 19:05
1,1-Dichloroethene	< 2.00	ug/L		2/9/2016 19:05
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/9/2016 19:05
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/9/2016 19:05
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/9/2016 19:05
1,2-Dibromoethane	< 2.00	ug/L		2/9/2016 19:05
1,2-Dichlorobenzene	< 2.00	ug/L		2/9/2016 19:05
1,2-Dichloroethane	< 2.00	ug/L		2/9/2016 19:05
1,2-Dichloropropane	< 2.00	ug/L		2/9/2016 19:05
1,3-Dichlorobenzene	< 2.00	ug/L		2/9/2016 19:05
1,4-Dichlorobenzene	< 2.00	ug/L		2/9/2016 19:05
1,4-dioxane	< 20.0	ug/L		2/9/2016 19:05
2-Butanone	< 10.0	ug/L		2/9/2016 19:05
2-Hexanone	< 5.00	ug/L		2/9/2016 19:05
4-Methyl-2-pentanone	< 5.00	ug/L		2/9/2016 19:05
Acetone	< 10.0	ug/L		2/9/2016 19:05
Benzene	< 1.00	ug/L		2/9/2016 19:05
Bromochloromethane	< 5.00	ug/L		2/9/2016 19:05
Bromodichloromethane	< 2.00	ug/L		2/9/2016 19:05
Bromoform	< 5.00	ug/L		2/9/2016 19:05
Bromomethane	< 2.00	ug/L		2/9/2016 19:05
Carbon disulfide	< 2.00	ug/L		2/9/2016 19:05
Carbon Tetrachloride	< 2.00	ug/L		2/9/2016 19:05
Chlorobenzene	< 2.00	ug/L		2/9/2016 19:05

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160464

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-1-PS3
Lab Sample ID: 160464-11 **Date Sampled:** 2/2/2016
Matrix: Groundwater **Date Received:** 2/2/2016

Chloroethane	< 2.00	ug/L	2/9/2016	19:05
Chloroform	< 2.00	ug/L	2/9/2016	19:05
Chloromethane	< 2.00	ug/L	2/9/2016	19:05
cis-1,2-Dichloroethene	< 2.00	ug/L	2/9/2016	19:05
cis-1,3-Dichloropropene	< 2.00	ug/L	2/9/2016	19:05
Cyclohexane	< 10.0	ug/L	2/9/2016	19:05
Dibromochloromethane	< 2.00	ug/L	2/9/2016	19:05
Dichlorodifluoromethane	< 2.00	ug/L	2/9/2016	19:05
Ethylbenzene	< 2.00	ug/L	2/9/2016	19:05
Freon 113	< 2.00	ug/L	2/9/2016	19:05
Isopropylbenzene	< 2.00	ug/L	2/9/2016	19:05
m,p-Xylene	< 2.00	ug/L	2/9/2016	19:05
Methyl acetate	< 2.00	ug/L	2/9/2016	19:05
Methyl tert-butyl Ether	< 2.00	ug/L	2/9/2016	19:05
Methylcyclohexane	< 2.00	ug/L	2/9/2016	19:05
Methylene chloride	< 5.00	ug/L	2/9/2016	19:05
o-Xylene	< 2.00	ug/L	2/9/2016	19:05
Styrene	< 5.00	ug/L	2/9/2016	19:05
Tetrachloroethene	< 2.00	ug/L	2/9/2016	19:05
Toluene	< 2.00	ug/L	2/9/2016	19:05
trans-1,2-Dichloroethene	< 2.00	ug/L	2/9/2016	19:05
trans-1,3-Dichloropropene	< 2.00	ug/L	2/9/2016	19:05
Trichloroethene	< 2.00	ug/L	2/9/2016	19:05
Trichlorofluoromethane	< 2.00	ug/L	2/9/2016	19:05
Vinyl chloride	**2.84**	ug/L	2/9/2016	19:05

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160464

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-1-PS3
Lab Sample ID: 160464-11 **Date Sampled:** 2/2/2016
Matrix: Groundwater **Date Received:** 2/2/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**106**	81.6 - 118		2/9/2016	19:05
4-Bromofluorobenzene	**92.9**	79.5 - 115		2/9/2016	19:05
Pentafluorobenzene	**97.0**	91.4 - 111		2/9/2016	19:05
Toluene-D8	**100**	89.8 - 108		2/9/2016	19:05

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x29524.D

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Report Prepared Thursday, February 18, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160464

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-B106-MW-PS3		
Lab Sample ID:	160464-12	**Date Sampled:**	2/2/2016
Matrix:	Groundwater	**Date Received:**	2/2/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/9/2016 19:28
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/9/2016 19:28
1,1,2-Trichloroethane	< 2.00	ug/L		2/9/2016 19:28
1,1-Dichloroethane	< 2.00	ug/L		2/9/2016 19:28
1,1-Dichloroethene	< 2.00	ug/L		2/9/2016 19:28
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/9/2016 19:28
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/9/2016 19:28
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/9/2016 19:28
1,2-Dibromoethane	< 2.00	ug/L		2/9/2016 19:28
1,2-Dichlorobenzene	< 2.00	ug/L		2/9/2016 19:28
1,2-Dichloroethane	< 2.00	ug/L		2/9/2016 19:28
1,2-Dichloropropane	< 2.00	ug/L		2/9/2016 19:28
1,3-Dichlorobenzene	< 2.00	ug/L		2/9/2016 19:28
1,4-Dichlorobenzene	< 2.00	ug/L		2/9/2016 19:28
1,4-dioxane	< 20.0	ug/L		2/9/2016 19:28
2-Butanone	**36.6**	ug/L		2/9/2016 19:28
2-Hexanone	< 5.00	ug/L		2/9/2016 19:28
4-Methyl-2-pentanone	< 5.00	ug/L		2/9/2016 19:28
Acetone	< 10.0	ug/L		2/9/2016 19:28
Benzene	< 1.00	ug/L		2/9/2016 19:28
Bromochloromethane	< 5.00	ug/L		2/9/2016 19:28
Bromodichloromethane	< 2.00	ug/L		2/9/2016 19:28
Bromoform	< 5.00	ug/L		2/9/2016 19:28
Bromomethane	< 2.00	ug/L		2/9/2016 19:28
Carbon disulfide	< 2.00	ug/L		2/9/2016 19:28
Carbon Tetrachloride	< 2.00	ug/L		2/9/2016 19:28
Chlorobenzene	< 2.00	ug/L		2/9/2016 19:28

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160464

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-B106-MW-PS3
Lab Sample ID: 160464-12 **Date Sampled:** 2/2/2016
Matrix: Groundwater **Date Received:** 2/2/2016

Chloroethane	< 2.00	ug/L		2/9/2016	19:28
Chloroform	< 2.00	ug/L		2/9/2016	19:28
Chloromethane	< 2.00	ug/L		2/9/2016	19:28
cis-1,2-Dichloroethene	< 2.00	ug/L		2/9/2016	19:28
cis-1,3-Dichloropropene	< 2.00	ug/L		2/9/2016	19:28
Cyclohexane	< 10.0	ug/L		2/9/2016	19:28
Dibromochloromethane	< 2.00	ug/L		2/9/2016	19:28
Dichlorodifluoromethane	< 2.00	ug/L		2/9/2016	19:28
Ethylbenzene	< 2.00	ug/L		2/9/2016	19:28
Freon 113	< 2.00	ug/L		2/9/2016	19:28
Isopropylbenzene	< 2.00	ug/L		2/9/2016	19:28
m,p-Xylene	< 2.00	ug/L		2/9/2016	19:28
Methyl acetate	< 2.00	ug/L		2/9/2016	19:28
Methyl tert-butyl Ether	< 2.00	ug/L		2/9/2016	19:28
Methylcyclohexane	< 2.00	ug/L		2/9/2016	19:28
Methylene chloride	< 5.00	ug/L		2/9/2016	19:28
o-Xylene	< 2.00	ug/L		2/9/2016	19:28
Styrene	< 5.00	ug/L		2/9/2016	19:28
Tetrachloroethene	< 2.00	ug/L		2/9/2016	19:28
Toluene	< 2.00	ug/L		2/9/2016	19:28
trans-1,2-Dichloroethene	< 2.00	ug/L		2/9/2016	19:28
trans-1,3-Dichloropropene	< 2.00	ug/L		2/9/2016	19:28
Trichloroethene	< 2.00	ug/L		2/9/2016	19:28
Trichlorofluoromethane	< 2.00	ug/L		2/9/2016	19:28
Vinyl chloride	**1.32**	ug/L	J	2/9/2016	19:28

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PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160464

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-B106-MW-PS3

Lab Sample ID: 160464-12 **Date Sampled:** 2/2/2016

Matrix: Groundwater **Date Received:** 2/2/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**110**	81.6 - 118		2/9/2016	19:28
4-Bromofluorobenzene	**92.8**	79.5 - 115		2/9/2016	19:28
Pentafluorobenzene	**97.4**	91.4 - 111		2/9/2016	19:28
Toluene-D8	**99.2**	89.8 - 108		2/9/2016	19:28

Method Reference(s): EPA 8260C
EPA 5030C

Data File: x29525.D

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Report Prepared Thursday, February 18, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160464

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-DUP-PS3		
Lab Sample ID:	160464-13	**Date Sampled:**	2/1/2016
Matrix:	Groundwater	**Date Received:**	2/2/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/9/2016 19:52
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/9/2016 19:52
1,1,2-Trichloroethane	< 2.00	ug/L		2/9/2016 19:52
1,1-Dichloroethane	< 2.00	ug/L		2/9/2016 19:52
1,1-Dichloroethene	< 2.00	ug/L		2/9/2016 19:52
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/9/2016 19:52
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/9/2016 19:52
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/9/2016 19:52
1,2-Dibromoethane	< 2.00	ug/L		2/9/2016 19:52
1,2-Dichlorobenzene	< 2.00	ug/L		2/9/2016 19:52
1,2-Dichloroethane	< 2.00	ug/L		2/9/2016 19:52
1,2-Dichloropropane	< 2.00	ug/L		2/9/2016 19:52
1,3-Dichlorobenzene	< 2.00	ug/L		2/9/2016 19:52
1,4-Dichlorobenzene	< 2.00	ug/L		2/9/2016 19:52
1,4-dioxane	< 20.0	ug/L		2/9/2016 19:52
2-Butanone	< 10.0	ug/L		2/9/2016 19:52
2-Hexanone	< 5.00	ug/L		2/9/2016 19:52
4-Methyl-2-pentanone	< 5.00	ug/L		2/9/2016 19:52
Acetone	< 10.0	ug/L		2/9/2016 19:52
Benzene	< 1.00	ug/L		2/9/2016 19:52
Bromochloromethane	< 5.00	ug/L		2/9/2016 19:52
Bromodichloromethane	< 2.00	ug/L		2/9/2016 19:52
Bromoform	< 5.00	ug/L		2/9/2016 19:52
Bromomethane	< 2.00	ug/L		2/9/2016 19:52
Carbon disulfide	< 2.00	ug/L		2/9/2016 19:52
Carbon Tetrachloride	< 2.00	ug/L		2/9/2016 19:52
Chlorobenzene	< 2.00	ug/L		2/9/2016 19:52

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PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160464

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-DUP-PS3
Lab Sample ID: 160464-13 **Date Sampled:** 2/1/2016
Matrix: Groundwater **Date Received:** 2/2/2016

Chloroethane	< 2.00	ug/L		2/9/2016	19:52
Chloroform	< 2.00	ug/L		2/9/2016	19:52
Chloromethane	< 2.00	ug/L		2/9/2016	19:52
cis-1,2-Dichloroethene	**3.89**	ug/L		2/9/2016	19:52
cis-1,3-Dichloropropene	< 2.00	ug/L		2/9/2016	19:52
Cyclohexane	< 10.0	ug/L		2/9/2016	19:52
Dibromochloromethane	< 2.00	ug/L		2/9/2016	19:52
Dichlorodifluoromethane	< 2.00	ug/L		2/9/2016	19:52
Ethylbenzene	< 2.00	ug/L		2/9/2016	19:52
Freon 113	< 2.00	ug/L		2/9/2016	19:52
Isopropylbenzene	< 2.00	ug/L		2/9/2016	19:52
m,p-Xylene	< 2.00	ug/L		2/9/2016	19:52
Methyl acetate	< 2.00	ug/L		2/9/2016	19:52
Methyl tert-butyl Ether	< 2.00	ug/L		2/9/2016	19:52
Methylcyclohexane	< 2.00	ug/L		2/9/2016	19:52
Methylene chloride	< 5.00	ug/L		2/9/2016	19:52
o-Xylene	< 2.00	ug/L		2/9/2016	19:52
Styrene	< 5.00	ug/L		2/9/2016	19:52
Tetrachloroethene	**1.83**	ug/L	J	2/9/2016	19:52
Toluene	< 2.00	ug/L		2/9/2016	19:52
trans-1,2-Dichloroethene	< 2.00	ug/L		2/9/2016	19:52
trans-1,3-Dichloropropene	< 2.00	ug/L		2/9/2016	19:52
Trichloroethene	**3.09**	ug/L		2/9/2016	19:52
Trichlorofluoromethane	< 2.00	ug/L		2/9/2016	19:52
Vinyl chloride	< 2.00	ug/L		2/9/2016	19:52

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160464

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-DUP-PS3
Lab Sample ID: 160464-13 **Date Sampled:** 2/1/2016
Matrix: Groundwater **Date Received:** 2/2/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**105**	81.6 - 118		2/9/2016	19:52
4-Bromofluorobenzene	**92.8**	79.5 - 115		2/9/2016	19:52
Pentafluorobenzene	**95.6**	91.4 - 111		2/9/2016	19:52
Toluene-D8	**98.7**	89.8 - 108		2/9/2016	19:52

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x29526.D

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Report Prepared Thursday, February 18, 2016

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160464

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	Trip Blank T-691		
Lab Sample ID:	160464-14	**Date Sampled:**	2/1/2016
Matrix:	Water	**Date Received:**	2/2/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/17/2016 14:15
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/17/2016 14:15
1,1,2-Trichloroethane	< 2.00	ug/L		2/17/2016 14:15
1,1-Dichloroethane	< 2.00	ug/L		2/17/2016 14:15
1,1-Dichloroethene	< 2.00	ug/L		2/17/2016 14:15
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/17/2016 14:15
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/17/2016 14:15
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/17/2016 14:15
1,2-Dibromoethane	< 2.00	ug/L		2/17/2016 14:15
1,2-Dichlorobenzene	< 2.00	ug/L		2/17/2016 14:15
1,2-Dichloroethane	< 2.00	ug/L		2/17/2016 14:15
1,2-Dichloropropane	< 2.00	ug/L		2/17/2016 14:15
1,3-Dichlorobenzene	< 2.00	ug/L		2/17/2016 14:15
1,4-Dichlorobenzene	< 2.00	ug/L		2/17/2016 14:15
1,4-dioxane	< 20.0	ug/L		2/17/2016 14:15
2-Butanone	< 10.0	ug/L		2/17/2016 14:15
2-Hexanone	< 5.00	ug/L		2/17/2016 14:15
4-Methyl-2-pentanone	< 5.00	ug/L		2/17/2016 14:15
Acetone	< 10.0	ug/L		2/17/2016 14:15
Benzene	< 1.00	ug/L		2/17/2016 14:15
Bromochloromethane	< 5.00	ug/L		2/17/2016 14:15
Bromodichloromethane	< 2.00	ug/L		2/17/2016 14:15
Bromoform	< 5.00	ug/L		2/17/2016 14:15
Bromomethane	< 2.00	ug/L		2/17/2016 14:15
Carbon disulfide	< 2.00	ug/L		2/17/2016 14:15
Carbon Tetrachloride	< 2.00	ug/L		2/17/2016 14:15
Chlorobenzene	< 2.00	ug/L		2/17/2016 14:15

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160464

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: Trip Blank T-691
Lab Sample ID: 160464-14 **Date Sampled:** 2/1/2016
Matrix: Water **Date Received:** 2/2/2016

Chloroethane	< 2.00	ug/L	2/17/2016	14:15
Chloroform	< 2.00	ug/L	2/17/2016	14:15
Chloromethane	< 2.00	ug/L	2/17/2016	14:15
cis-1,2-Dichloroethene	< 2.00	ug/L	2/17/2016	14:15
cis-1,3-Dichloropropene	< 2.00	ug/L	2/17/2016	14:15
Cyclohexane	< 10.0	ug/L	2/17/2016	14:15
Dibromochloromethane	< 2.00	ug/L	2/17/2016	14:15
Dichlorodifluoromethane	< 2.00	ug/L	2/17/2016	14:15
Ethylbenzene	< 2.00	ug/L	2/17/2016	14:15
Freon 113	< 2.00	ug/L	2/17/2016	14:15
Isopropylbenzene	< 2.00	ug/L	2/17/2016	14:15
m,p-Xylene	< 2.00	ug/L	2/17/2016	14:15
Methyl acetate	< 2.00	ug/L	2/17/2016	14:15
Methyl tert-butyl Ether	< 2.00	ug/L	2/17/2016	14:15
Methylcyclohexane	< 2.00	ug/L	2/17/2016	14:15
Methylene chloride	< 5.00	ug/L	2/17/2016	14:15
o-Xylene	< 2.00	ug/L	2/17/2016	14:15
Styrene	< 5.00	ug/L	2/17/2016	14:15
Tetrachloroethene	< 2.00	ug/L	2/17/2016	14:15
Toluene	< 2.00	ug/L	2/17/2016	14:15
trans-1,2-Dichloroethene	< 2.00	ug/L	2/17/2016	14:15
trans-1,3-Dichloropropene	< 2.00	ug/L	2/17/2016	14:15
Trichloroethene	< 2.00	ug/L	2/17/2016	14:15
Trichlorofluoromethane	< 2.00	ug/L	2/17/2016	14:15
Vinyl chloride	< 2.00	ug/L	2/17/2016	14:15

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160464

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: Trip Blank T-691
Lab Sample ID: 160464-14 **Date Sampled:** 2/1/2016
Matrix: Water **Date Received:** 2/2/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**104**	81.6 - 118		2/17/2016	14:15
4-Bromofluorobenzene	**94.5**	79.5 - 115		2/17/2016	14:15
Pentafluorobenzene	**98.6**	91.4 - 111		2/17/2016	14:15
Toluene-D8	**104**	89.8 - 108		2/17/2016	14:15

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x29663.D

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Thursday, February 18, 2016

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

Each page of this document is part of a multipage report. This document may not be reproduced except in its entirety, without the prior consent of Paradigm Environmental Services, Inc.

All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term, or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB will use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT:	Stantec	CLIENT:	Stantec	160464
ADDRESS:	61 Commercial St	ADDRESS:		Quotation #:
CITY:	Rochester STATE: NY ZIP: 14614	CITY:	STATE: ZIP:	
PHONE:	413-5266	PHONE:	978-5248	Email:
ATTN:	Mike Staransky	ATTN:	Ben Havavitch	mike.staransky@stantec.com

PROJECT REFERENCE

Carriage Factory

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

	DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	TCL per 8260 & 8151 2/1/16 VOCs (8260)	TOC (415.1)	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	2/1/16	0850		X	LI-RW-12-PS3	WG	4	X	X		01
2		0935			LI-RW-6-PS3						02
3		1028			LI-RW-7-PS3						03
4		1128			LI-RW-9-PS3						04
5		1238			LI-RW-5-PS3						05
6		1325			LI-B102-MW-PS3						06
7	↓	1416			LI-RW-4-PS3		↓				07
8	2/2/16	0907			LI-B108-MW-PS3		12			MS/MSD	08
9		1015			LI-RW-3-PS3		4				09
10	↓	1108		↓	LI-RW-2-PS3	↓	11	↓	↓	6°C iCed 2/2/16 1608hrs no custody seals/cleard & delivered MT by Paul 2/2/16	10

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☐	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☒
Rush 2 day	☐	Category B	☒		
Rush 1 day	☐				
Other please indicate:	☒ 10-day	Other please indicate:	☐	Other EDD please indicate:	☒ Stantec

Ben Havavitch	2/2/16	1348	Sampled By / Date/Time
Brian Hamter	2/2/16	1523	Relinquished By / Date/Time
Dana Dalosa	2/2/16	1523	Received By / Date/Time
JP	2/2/16	16:42	Received @ Lab By / Date/Time

Total Cost:

P.I.F.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT:	Stantec	CLIENT:	Stantec	160464
ADDRESS:	61 Commercial St	ADDRESS:		Quotation #:
CITY:	Rochester	STATE: NY	ZIP: 14614	
PHONE:	413-5266	PHONE:	978-5248	Email: mike.staronsky@stantec.com
ATTN:	Mike Staronsky	ATTN:	Ben Haravitch	

PROJECT REFERENCE

Carriage Factory

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

	DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	VOCs (8260)	TOC (415.1)	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	2/2/16	1200		X	LI-RW-1-PS3	WG	4	X	X		1 1
2	2/2/16	1348		X	LI-B106-MW-PS3	↓	↓	↓	↓		1 2
3	2/1/16	0855		X	LI-DUP-PS3	↓	↓	↓	↓		1 3
4	2/1/16	—			Trip Blank T-691	WA	1	X			1 4
5	per TB method CP 2/2/16										
6											
7											
8											
9											
10											

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☐	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☒
Rush 2 day	☐	Category B	☒		
Rush 1 day	☐				
Other please indicate: 10-day	☒	Other please indicate:	☐	Other EDD please indicate: Stantec	☒

Ben Haravitch	2/2/16	1348
Sampled By	Date/Time	
Brian Horwitch	2/2/16	1523
Relinquished By	Date/Time	
Jane J. Dalton	2/2/16	1523
Received By	Date/Time	
	2/2/16	16:42
Received @ Lab By	Date/Time	

Total Cost:

P.I.F.

Chain of Custody Supplement

Client: Stantec **Completed by:** Glenn Pezzulo

Lab Project ID: 160464 **Date:** 2/2/16

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	*NELAC compliance with the sample condition requirements upon receipt* Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	X VOA		X
Comments			
Preservation	X		
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		
Comments	6°C iced 2/2/16 16:08		
Sufficient Sample Quantity	X		
Comments			

ANALYTICAL REPORT

Lab Number:	L1602926
Client:	Paradigm Environmental Services 179 Lake Avenue Rochester, NY 14608
ATTN:	Kate Hansen
Phone:	(585) 647-2530
Project Name:	160464
Project Number:	160464
Report Date:	02/09/16

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 160464
Project Number: 160464

Lab Number: L1602926
Report Date: 02/09/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1602926-01	160464-01	WATER	Not Specified	02/01/16 08:50	02/03/16
L1602926-02	160464-02	WATER	Not Specified	02/01/16 09:35	02/03/16
L1602926-03	160464-03	WATER	Not Specified	02/01/16 10:28	02/03/16
L1602926-04	160464-04	WATER	Not Specified	02/01/16 11:28	02/03/16
L1602926-05	160464-05	WATER	Not Specified	02/01/16 12:38	02/03/16
L1602926-06	160464-06	WATER	Not Specified	02/01/16 13:25	02/03/16
L1602926-07	160464-07	WATER	Not Specified	02/01/16 14:16	02/03/16
L1602926-08	160464-08	WATER	Not Specified	02/02/16 09:07	02/03/16
L1602926-09	160464-09	WATER	Not Specified	02/02/16 10:15	02/03/16
L1602926-10	160464-10	WATER	Not Specified	02/02/16 11:08	02/03/16
L1602926-11	160464-11	WATER	Not Specified	02/02/16 12:00	02/03/16
L1602926-12	160464-12	WATER	Not Specified	02/02/16 13:48	02/03/16
L1602926-13	160464-13	WATER	Not Specified	02/02/16 08:55	02/03/16

Project Name: 160464 **Lab Number:** L1602926
Project Number: 160464 **Report Date:** 02/09/16

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 160464 **Lab Number:** L1602926
Project Number: 160464 **Report Date:** 02/09/16

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 02/09/16

INORGANICS
&
MISCELLANEOUS

Project Name: 160464
Project Number: 160464

Lab Number: L1602926
Report Date: 02/09/16

SAMPLE RESULTS

Lab ID: L1602926-01
Client ID: 160464-01
Sample Location: Not Specified
Matrix: Water

Date Collected: 02/01/16 08:50
Date Received: 02/03/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	1.74		mg/l	0.500	0.114	1	-	02/04/16 09:12	30,5310C	DW

Project Name: 160464
Project Number: 160464

Lab Number: L1602926
Report Date: 02/09/16

SAMPLE RESULTS

Lab ID: L1602926-02
Client ID: 160464-02
Sample Location: Not Specified
Matrix: Water

Date Collected: 02/01/16 09:35
Date Received: 02/03/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	120.		mg/l	10.0	2.28	20	-	02/04/16 09:12	30,5310C	DW

Project Name: 160464
Project Number: 160464

Lab Number: L1602926
Report Date: 02/09/16

SAMPLE RESULTS

Lab ID: L1602926-03
Client ID: 160464-03
Sample Location: Not Specified
Matrix: Water

Date Collected: 02/01/16 10:28
Date Received: 02/03/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	21.1		mg/l	5.00	1.14	10	-	02/04/16 09:12	30,5310C	DW

Project Name: 160464
Project Number: 160464

Lab Number: L1602926
Report Date: 02/09/16

SAMPLE RESULTS

Lab ID: L1602926-04
Client ID: 160464-04
Sample Location: Not Specified
Matrix: Water

Date Collected: 02/01/16 11:28
Date Received: 02/03/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	1.91		mg/l	1.00	0.228	2	-	02/04/16 09:12	30,5310C	DW

Project Name: 160464
Project Number: 160464

Lab Number: L1602926
Report Date: 02/09/16

SAMPLE RESULTS

Lab ID: L1602926-05
Client ID: 160464-05
Sample Location: Not Specified
Matrix: Water

Date Collected: 02/01/16 12:38
Date Received: 02/03/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	4.96		mg/l	1.00	0.228	2	-	02/04/16 09:12	30,5310C	DW

Project Name: 160464
Project Number: 160464

Lab Number: L1602926
Report Date: 02/09/16

SAMPLE RESULTS

Lab ID: L1602926-06
Client ID: 160464-06
Sample Location: Not Specified
Matrix: Water

Date Collected: 02/01/16 13:25
Date Received: 02/03/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	39.4		mg/l	5.00	1.14	10	-	02/04/16 09:12	30,5310C	DW

Project Name: 160464
Project Number: 160464

Lab Number: L1602926
Report Date: 02/09/16

SAMPLE RESULTS

Lab ID: L1602926-07
Client ID: 160464-07
Sample Location: Not Specified
Matrix: Water

Date Collected: 02/01/16 14:16
Date Received: 02/03/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	234.		mg/l	20.0	4.56	40	-	02/04/16 09:12	30,5310C	DW

Project Name: 160464
Project Number: 160464

Lab Number: L1602926
Report Date: 02/09/16

SAMPLE RESULTS

Lab ID: L1602926-08
Client ID: 160464-08
Sample Location: Not Specified
Matrix: Water

Date Collected: 02/02/16 09:07
Date Received: 02/03/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	101.		mg/l	10.0	2.28	20	-	02/04/16 09:12	30,5310C	DW

Project Name: 160464
Project Number: 160464

Lab Number: L1602926
Report Date: 02/09/16

SAMPLE RESULTS

Lab ID: L1602926-09
Client ID: 160464-09
Sample Location: Not Specified
Matrix: Water

Date Collected: 02/02/16 10:15
Date Received: 02/03/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	218.		mg/l	20.0	4.56	40	-	02/04/16 09:12	30,5310C	DW

Project Name: 160464
Project Number: 160464

Lab Number: L1602926
Report Date: 02/09/16

SAMPLE RESULTS

Lab ID: L1602926-10
Client ID: 160464-10
Sample Location: Not Specified
Matrix: Water

Date Collected: 02/02/16 11:08
Date Received: 02/03/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	81.1		mg/l	5.00	1.14	10	-	02/04/16 09:12	30,5310C	DW

Project Name: 160464
Project Number: 160464

Lab Number: L1602926
Report Date: 02/09/16

SAMPLE RESULTS

Lab ID: L1602926-11
Client ID: 160464-11
Sample Location: Not Specified
Matrix: Water

Date Collected: 02/02/16 12:00
Date Received: 02/03/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	4.99		mg/l	1.00	0.228	2	-	02/04/16 09:12	30,5310C	DW

Project Name: 160464
Project Number: 160464

Lab Number: L1602926
Report Date: 02/09/16

SAMPLE RESULTS

Lab ID: L1602926-12
Client ID: 160464-12
Sample Location: Not Specified
Matrix: Water

Date Collected: 02/02/16 13:48
Date Received: 02/03/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	18.9		mg/l	5.00	1.14	10	-	02/04/16 09:12	30,5310C	DW

Project Name: 160464
Project Number: 160464

Lab Number: L1602926
Report Date: 02/09/16

SAMPLE RESULTS

Lab ID: L1602926-13
Client ID: 160464-13
Sample Location: Not Specified
Matrix: Water

Date Collected: 02/02/16 08:55
Date Received: 02/03/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	1.99		mg/l	1.00	0.228	2	-	02/04/16 09:12	30,5310C	DW

Project Name: 160464 **Lab Number:** L1602926

Project Number: 160464 **Report Date:** 02/09/16

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-13 Batch: WG862751-1										
Total Organic Carbon	ND		mg/l	0.500	0.114	1	-	02/04/16 09:12	30,5310C	DW

Lab Control Sample Analysis

Batch Quality Control

Project Name: 160464
Project Number: 160464

Lab Number: L1602926
Report Date: 02/09/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-13 Batch: WG862751-2								
Total Organic Carbon	93		-		90-110	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: 160464
Project Number: 160464

Lab Number: L1602926
Report Date: 02/09/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG862751-4 QC Sample: L1602926-08 Client ID: 160464-08												
Total Organic Carbon	101.	80	191	112		-	-		80-120	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 160464
Project Number: 160464

Lab Number: L1602926
Report Date: 02/09/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG862751-3 QC Sample: L1602926-08 Client ID: 160464-08						
Total Organic Carbon	101.	108	mg/l	7		20

Project Name: 160464
Project Number: 160464

Lab Number: L1602926
Report Date: 02/09/16

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1602926-01A	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)
L1602926-01B	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)
L1602926-02A	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)
L1602926-02B	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)
L1602926-03A	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)
L1602926-03B	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)
L1602926-04A	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)
L1602926-04B	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)
L1602926-05A	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)
L1602926-05B	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)
L1602926-06A	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)
L1602926-06B	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)
L1602926-07A	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)
L1602926-07B	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)
L1602926-08A	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)
L1602926-08A1	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)
L1602926-08A2	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)
L1602926-08B	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)
L1602926-08B1	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)
L1602926-08B2	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)
L1602926-09A	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)
L1602926-09B	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)
L1602926-10A	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)
L1602926-10B	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)
L1602926-11A	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)
L1602926-11B	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)
L1602926-12A	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)
L1602926-12B	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)
L1602926-13A	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)

*Values in parentheses indicate holding time in days

Project Name: 160464
Project Number: 160464

Lab Number: L1602926
Report Date: 02/09/16

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1602926-13B	Vial H2SO4 preserved	A	N/A	2.8	Y	Absent	TOC-5310(28)

*Values in parentheses indicate holding time in days

Project Name:	160464	**Lab Number:**	L1602926
Project Number:	160464	**Report Date:**	02/09/16

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

Report Format: DU Report with 'J' Qualifiers

Project Name:	160464	**Lab Number:**	L1602926
Project Number:	160464	**Report Date:**	02/09/16

Data Qualifiers

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	160464	**Lab Number:**	L1602926
Project Number:	160464	**Report Date:**	02/09/16

REFERENCES

30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 524.2: 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, m/p-xylene, o-xylene
EPA 624: 2-Butanone (MEK), 1,4-Dioxane, tert-Amylmethyl Ether, tert-Butyl Alcohol, m/p-xylene, o-xylene
EPA 625: Aniline, Benzoic Acid, Benzyl Alcohol, 4-Chloroaniline, 3-Methylphenol, 4-Methylphenol.
EPA 1010A: NPW: Ignitability
EPA 6010C: NPW: Strontium; SCM: Strontium
EPA 8151A: NPW: 2,4-DB, Dicamba, Dichloroprop, MCPA, MCPP; SCM: 2,4-DB, Dichloroprop, MCPA, MCPP
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene, Isopropanol; SCM: Iodomethane (methyl iodide), Methyl methacrylate (soil); 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 9010: NPW: Amenable Cyanide Distillation, Total Cyanide Distillation
EPA 9038: NPW: Sulfate
EPA 9050A: NPW: Specific Conductance
EPA 9056: NPW: Chloride, Nitrate, Sulfate
EPA 9065: NPW: Phenols
EPA 9251: NPW: Chloride
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
EPA 8270D: NPW: Biphenyl; SCM: Biphenyl, Caprolactam
EPA 8270D-SIM Isotope Dilution: SCM: 1,4-Dioxane
SM 2540D: TSS
SM2540G: SCM: Percent Solids
EPA 1631E: SCM: Mercury
EPA 7474: SCM: Mercury
EPA 8081B: NPW and SCM: Mirex, Hexachlorobenzene.
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA 8270-SIM: NPW and SCM: Alkylated PAHs.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene, n-Butylbenzene, n-Propylbenzene, sec-Butylbenzene, tert-Butylbenzene.
Biological Tissue Matrix: ***8270D-SIM; 3050B; 3051A; 7471B; 8081B; 8082A; 6020A:*** Lead***; 8270D:*** bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Diethyl phthalate, Dimethyl phthalate, Di-n-butyl phthalate, Di-n-octyl phthalate, Fluoranthene, Pentachlorophenol.

The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:

Drinking Water
EPA 200.8: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl; **EPA 200.7**: Ba,Be,Ca,Cd,Cr,Cu,Na; **EPA 245.1:** Mercury;
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.**

Non-Potable Water
EPA 200.8: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn;
EPA 200.7: Al,Sb,As,Be,Cd,Ca,Cr,Co,Cu,Fe,Pb,Mg,Mn,Mo,Ni,K,Se,Ag,Na,Sr,Ti,Tl,V,Zn;
EPA 245.1, SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F,**
EPA 353.2: Nitrate-N**, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

1 of 2

CHAIN OF CUSTODY L1607926

11148

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:		INVOICE TO:			
COMPANY:	Paradigm Environmental	COMPANY:	Same	LAB PROJECT #:	CLIENT PROJECT #:
ADDRESS:	179 Lake Avenue	ADDRESS:			
CITY: Rochester STATE: NY ZIP: 14608		CITY: STATE: ZIP:		TURNAROUND TIME: (WORKING DAYS)	
PHONE: FAX:		PHONE: FAX:		STD / OTHER	
PROJECT NAME/SITE NAME:	ATTN: Kate Hansen	ATTN:	Meridith Dillman	☐1 ☐2 ☐3 ☒5	
	COMMENTS: Please email results to khansen@paradigmenv.com and reporting@paradigmenv.com			Date Due: 2/11/16 for data	

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	TOC														REMARKS	PARADIGM LAB SAMPLE NUMBER
																						Report J Flags. ASP Cat B Package Due 2/24/16	
																						SOG closed. SW-846 HT's	
1	2/1/16	08:50		X	160464-01	Ground Water	2	X														LI-RW-12-PS3	
2		09:35			-02																	LI-RW-6-PS3	
3		10:28			-03																	LI-RW-7-PS3	
4		11:28			-04																	LI-RW-9-PS3	
5		12:38			-05																	LI-RW-5-PS3	
6		13:25			-06																	LI-B102-MW-PS3	
7		14:16			-07																	LI-RW-4-PS3	
8	2/2/16	09:07			-08				-08 MS/MSD													LI-B108-MW-PS3	
9		10:15			-09																	LI-RW-3-PS3	
10		11:08			-10																	LI-RW-2-PS3	

LAB USE ONLY BELOW THIS LINE

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter	NELAC Compliance	
Container Type:	Y ☐	N ☐
Comments:		
Preservation:	Y ☐	N ☐
Comments:		
Holding Time:	Y ☐	N ☐
Comments:		
Temperature:	Y ☐	N ☐
Comments:		

Client

Sampled By: JL Date/Time: 2/3/16 16:00

Relinquished By: [signature] Date/Time: 2/3/16 19:00

Received By: [signature] (AAL)

Received By: [signature] Date/Time: 2/4/16 01:20

Received @ Lab By

Total Cost:

P.I.F.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY L1602926

11148

REPORT TO:		INVOICE TO:			
COMPANY:	Paradigm Environmental	COMPANY:	Same	LAB PROJECT #:	CLIENT PROJECT #:
ADDRESS:	179 Lake Avenue	ADDRESS:			
CITY:	Rochester STATE: NY ZIP: 14608	CITY:	STATE: ZIP:	TURNAROUND TIME: (WORKING DAYS)	
PHONE:	FAX:	PHONE:	FAX:	STD	OTHER
PROJECT NAME/SITE NAME:		ATTN:	Kate Hansen	ATTN: Meridith Dillman	☐ 1 ☐ 2 ☐ 3 ☒ 5
		COMMENTS:	Please email results to khansen@paradigmenv.com and reporting@paradigmenv.com	Date Due:	

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	TCL VOC	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	2/2/16	12:00		X	160464-11	Ground Water	2	X	LI-RW-1-PS3	
2	↓	13:48		↓	-12	↓	↓	↓	LI-B106-MW-PS3	
3	↓	08:55		↓	-13	↓	↓	↓	LI-DUP-PS3	
4										
5										
6										
7										
8										
9										
10										

LAB USE ONLY BELOW THIS LINE

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter	NELAC Compliance	
Container Type:	Y ☐	N ☐
Comments:		
Preservation:	Y ☐	N ☐
Comments:		
Holding Time:	Y ☐	N ☐
Comments:		
Temperature:	Y ☐	N ☐
Comments:		

Client

Sampled By	Date/Time	
JPZ	2/3/16	16:00
Relinquished By	Date/Time	
[signature]	2/3/16	19:00
Received By	Date/Time	
Received By	Date/Time	
[signature]	2/4/16	01:20
Received @ Lab By	Date/Time	

Total Cost:

P.I.F. ☐

SiREM
Leading Science · Lasting Solutions

130 Research Lane, Ste 2
Guelph ON N1G 5G3
(519) 822-2265

Certificate of Analysis: Gene-Trac® *Dehalococcoides* Assay

Customer: Mike Storonsky, Stantec
Project: Carriage Factory
Customer Reference: 190500751

SiREM Reference: S-3572
Report Date: 21-May-15
Data Files: iQ5-DHC-QPCR-1227
iQ5-DB-DHC-QPCR-0581

Table 1a: Test Results

Customer Sample ID	SiREM Sample ID	Sample Collection Date	Sample Matrix	Percent Dhc *	*Dehalococcoides* Enumeration/Liter **
LI-B102-MW-PI12	DHC-11718	4-May-15	Groundwater	0.04 - 0.1 %	6×10^5
LI-B108-MW-PI12	DHC-11719	5-May-15	Groundwater	0.02 - 0.05 %	3×10^5

Notes:

* Percent *Dehalococcoides* (Dhc) in microbial population. This value is calculated by dividing the number of Dhc 16S ribosomal ribonucleic acid (rRNA) gene copies by the total number of bacteria as estimated by the mass of DNA extracted from the sample. Range represents normal variation in Dhc enumeration.

** Based on quantification of Dhc 16S rRNA gene copies. Dhc are generally reported to contain one 16S rRNA gene copy per cell; therefore, this number is often interpreted to represent the number of Dhc cells present in the sample.

J The associated value is an estimated quantity between the method detection limit and quantitation limit.
U Not detected, associated value is the quantification limit.
B Analyte was detected in the method blank within an order of magnitude of the test sample
NA Not applicable as *Dehalococcoides* not detected and/or quantifiable DNA not extracted from the sample.
I Sample inhibited the test reaction based on inability to PCR amplify extracted DNA with universal primers.
E Extracted genomic DNA was not detected in sample.

Analyst: _____
Ben Reside
Laboratory Technician

Approved: _____
Ximena Druar, B.Sc.
Genetic Testing Coordinator

SiREM
Leading Science · Lasting Solutions

130 Research Lane, Ste 2
Guelph ON N1G 5G3
(519) 822-2265

Certificate of Analysis: Gene-Trac® VC, Vinyl Chloride Reductase (*vcrA*) Assay

Customer: Mike Storonsky, Stantec

Project: Carriage Factory

Customer Reference: 190500751

SiREM Reference: S-3572

Report Date: 21-May-15

Data Files: MyiQ-VC-QPCR-0763
MyiQ-DB-VC-QPCR-0474

Table 1b: Test Results

Customer Sample ID	SiREM Sample ID	Sample Collection Date	Sample Matrix	Percent *vcrA* *	Vinyl Chloride Reductase (*vcrA*) Gene Copies/Liter
LI-B102-MW-PI12	VCR-5854	4-May-15	Groundwater	0.05 - 0.2 %	1×10^6
LI-B108-MW-PI12	VCR-5855	5-May-15	Groundwater	0.02 - 0.06 %	4×10^5

Notes:

* Percent *vcrA* in microbial population. This value is calculated by dividing the number of vinyl chloride reductase A (*vcrA)* gene copies quantified by the total number of bacteria estimated to be in the sample based on the mass of DNA extracted from the sample. Range represents normal variation in enumeration of *vcrA* .

J The associated value is an estimated quantity between the method detection limit and quantitation limit.
U Not detected, associated value is the quantification limit.
B Analyte was detected in the method blank within an order of magnitude of the test sample.
NA Not applicable as *vcrA* not detected and/or quantifiable DNA not extracted from the sample.
I Sample inhibited the test reaction based on inability to PCR amplify extracted DNA with universal primers.
C Correction factor applied to correct for non-specific PCR amplification products, value is an estimated quantity.

Analyst: _____
Ben Reside
Laboratory Technician

Approved: _____
Ximena Druar, B.Sc.
Genetic Testing Coordinator

Table 2: Detailed Test Parameters, Gene-Trac Test Reference S-3572

Customer Sample ID	LI-B102-MW-PI12	LI-B108-MW-PI12
SiREM Dhc Sample ID	DHC-11718	DHC-11719
SiREM *vcrA* Sample ID	VCR-5854	VCR-5855
Date Received *	7-May-15	7-May-15
Sample Temperature	4.4 ºC	4.4 ºC
Filtration Date *	12-May-15	12-May-15
Volume Used for DNA Extraction	500 mL	500 mL
DNA Extraction Date	14-May-15	14-May-15
DNA Concentration in Sample (extractable)	3549 ng/L	3625 ng/L
PCR Amplifiable DNA	Detected	Detected
Dhc qPCR Date Analyzed	14-May-15	14-May-15
***vcrA* qPCR Date Analyzed**	14-May-15	14-May-15
Laboratory Controls (see Tables 3 & 4)	Passed	Passed
Comments	--	--

Notes:

Refer to Tables 3 & 4 for detailed results of controls.
°C = degrees Celsius
Dhc = *Dehalococcoides*
DNA = Deoxyribonucleic acid
mL = milliliters
ng/L = nanograms per liter
NA = Not Applicable
ND = Not Detected
PCR = polymerase chain reaction
qPCR = quantitative PCR
vcrA = *vinyl chloride reductase*
*Samples are stabilized by freezing at -80 °C upon sample reception (field filters) or in-lab filtration (groundwater). Hold time not exceeded if sampling date is within 14 days of date received.

Table 3: Gene-Trac Dhc Control Results, Test Reference S-3572

Laboratory Control	Analysis Date	Control Description	Spiked Dhc 16S rRNA Gene Copies per Liter	Recovered Dhc 16S rRNA Gene Copies per Liter	Comments
Positive Control Low Concentration	14-May-15	qPCR with KB1 genomic DNA (CSLD-0865)	4.2×10^{6}	4.4×10^{6}	--
Positive Control High Concentration	14-May-15	qPCR with KB1 genomic DNA (CSHD-0865)	1.0×10^{10}	1.3×10^{10}	--
DNA Extraction Blank	14-May-15	DNA extraction sterile water (FB-2402)	0	2.6×10^{3} U	--
Negative Control	14-May-15	Tris Reagent Blank (TBD-0824)	0	2.6×10^{3} U	--

Notes:

Dhc = *Dehalococcoides*

DNA = Deoxyribonucleic acid

qPCR = quantitative PCR

16S rRNA = 16S ribosomal ribonucleic acid

U Not detected, associated value is the quantification limit.

Table 4: Gene-Trac VC Control Results, Test Reference S-3572

Laboratory Control	Analysis Date	Control Description	Spiked *vcrA* reductase Gene Copies per Liter	Recovered *vcrA* reductase Gene Copies per Liter	Comments
Positive Control Low Concentration	14-May-15	qPCR with KB1 genomic DNA (CSLV-0631)	1.1×10^{8}	1.6×10^{8}	--
Positive Control High Concentration	14-May-15	qPCR with KB1 genomic DNA (CSHV-0631)	2.9×10^{10}	2.0×10^{10}	--
DNA Extraction Blank	14-May-15	DNA extraction sterile water (FB-2402)	0	2.6×10^{3} U	--
Negative Control	14-May-15	Tris Reagent Blank (TBV-0602)	0	2.6×10^{3} U	--

Notes:

DNA = Deoxyribonucleic acid

qPCR = quantitative PCR

16S rRNA = 16S ribosomal ribonucleic acid

U Not detected, associated value is the quantification limit.

vcrA = vinyl chloride reductase

Chain-of-Custody Form

SiREM

siremlab.com

No. 3160

2240 Sutherland Avenue, Suite 107
Knoxville, TN 37919
865.330.0037

Lab # SK-0071

*Project Name: Carriage Factory	*Project #: 190500751		
*Project Manager: Mike Storonsky	*Company: Stantec		
*Email Address: Mike.storonsky@stantec.com			
Address (Street): 61 Commercial Street, Suite 100			
City: Rochester	State/Province: NY	Country: USA	
*Phone #: (585) 413-5266			
*Sampler's Signature: Laura Best	*Sampler's Printed Name: Laura Best		

Analysis

Client Sample ID	Sampling Date	Sampling Time	Matrix	# of Containers	Gene-Trac DHC	Gene-Trac VC	Gene-Trac DHB	Gene-Trac DHG	Treatability Study	Other Information
LI-B102-MW-PI12	5/4/15	10:15	GW	1	X	X				
LI-B108-MW-PI12	5/5/15	12:45	GW	1	X	X				

Preservative Key
0. None
1. HCL
2. Other
3. Other
4. Other
5. Other
6. Other

Billing Information
P.O. #: 190500751
*Bill To: Stantec
ATTN: Ben Haravitch
ben.haravitch@stantec.com

Turnaround Time Requested
Normal: X
Rush: ☐

For Lab Use Only
Cooler Condition: Good
Cooler Temperature: Dry Ice Present
Custody Seals: Yes ☐ No X

For Lab Use Only
Proposal #:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature: Laura Best	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name: Laura Best	Printed Name: Nathan Kenner	Printed Name: Nathan Kenner	Printed Name: D. Vespoli	Printed Name:	Printed Name:
Firm: Stantec	Firm: SiREM	Firm: SiREM	Firm: SiREM	Firm:	Firm:
Date/Time: 5/6/15 12:00	Date/Time: 05/7/15 1100	Date/Time: 05/13/15 1300	Date/Time: MAY 14 '15 1:30pm	Date/Time:	Date/Time:

Distribution: White - return to Originator; Yellow - Lab Copy; Pink - Retained by Client

* Mandatory Fields

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For

Stantec

For Lab Project ID

144025

Referencing

Carriage Factory

Prepared

Wednesday, September 17, 2014

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

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Report Prepared Wednesday, September 17, 2014

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 144025

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-EL-W11
Lab Sample ID: 144025-01 **Date Sampled:** 9/15/2014
Matrix: Water **Date Received:** 9/15/2014

Metals

Analyte	Result	Units	Qualifier	Date Analyzed	
Cadmium	< 0.00500	mg/L		9/16/2014	14:28
Copper	< 0.0250	mg/L		9/16/2014	14:28
Lead	**0.0239**	mg/L		9/16/2014	14:28
Zinc	**0.214**	mg/L		9/16/2014	14:28

Method Reference(s): EPA 6010C
EPA 3005
Data File: 091614a

Volatile Organics (Halogenated)

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1,1-Trichloroethane	< 2.00	ug/L		9/16/2014	17:00
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		9/16/2014	17:00
1,1,2-Trichloroethane	< 2.00	ug/L		9/16/2014	17:00
1,1-Dichloroethane	< 2.00	ug/L		9/16/2014	17:00
1,1-Dichloroethene	< 2.00	ug/L		9/16/2014	17:00
1,2-Dichlorobenzene	< 2.00	ug/L		9/16/2014	17:00
1,2-Dichloroethane	< 2.00	ug/L		9/16/2014	17:00
1,2-Dichloropropane	< 2.00	ug/L		9/16/2014	17:00
1,3-Dichlorobenzene	< 2.00	ug/L		9/16/2014	17:00
1,4-Dichlorobenzene	< 2.00	ug/L		9/16/2014	17:00
Bromodichloromethane	< 2.00	ug/L		9/16/2014	17:00
Bromoform	< 5.00	ug/L		9/16/2014	17:00
Bromomethane	< 2.00	ug/L		9/16/2014	17:00
Carbon Tetrachloride	< 2.00	ug/L		9/16/2014	17:00
Chlorobenzene	< 2.00	ug/L		9/16/2014	17:00
Chloroethane	< 2.00	ug/L		9/16/2014	17:00
Chloroform	< 2.00	ug/L		9/16/2014	17:00

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PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 144025

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-EL-W11
Lab Sample ID: 144025-01 **Date Sampled:** 9/15/2014
Matrix: Water **Date Received:** 9/15/2014

Chloromethane	< 2.00	ug/L		9/16/2014	17:00
cis-1,2-Dichloroethene	**98.8**	ug/L		9/16/2014	17:00
cis-1,3-Dichloropropene	< 2.00	ug/L		9/16/2014	17:00
Dibromochloromethane	< 2.00	ug/L		9/16/2014	17:00
Methylene chloride	< 5.00	ug/L		9/16/2014	17:00
Tetrachloroethene	< 2.00	ug/L		9/16/2014	17:00
trans-1,2-Dichloroethene	< 2.00	ug/L		9/16/2014	17:00
trans-1,3-Dichloropropene	< 2.00	ug/L		9/16/2014	17:00
Trichloroethene	< 2.00	ug/L		9/16/2014	17:00
Trichlorofluoromethane	< 2.00	ug/L		9/16/2014	17:00
Vinyl chloride	**10.1**	ug/L		9/16/2014	17:00

Method Reference(s): EPA 8260C
EPA 5030
Data File: x16861.D

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Wednesday, September 17, 2014

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"Non-ELAP Certifiable" = ELAP does not offer this parameter for approval as part of their laboratory certification program.*

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

1 of 2

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT:	Stantec	CLIENT:	Stantec	144025
ADDRESS:	61 Commercial Street	ADDRESS:		Quotation #: MS 072513 A
CITY:	Rochester STATE: NY ZIP: 14614	CITY: STATE: ZIP:		
PHONE:	413 5266	PHONE:	978 5248	Email:
ATTN:	Mike Staronsky	ATTN:	Ben Haravitch	mike.staronsky@stantec.com

PROJECT REFERENCE

Carriage Factory

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

	DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	Halogenated VOCs	Cd, Cu, Pb, Zn								REMARKS	PARADIGM LAB SAMPLE NUMBER		
1	9/15/14	1200		X	LI-EL-W11	WA	3	X	X											
2							Rcvd Sml 1557/15/14													
3																				
4																				
5																				
6																	22°C			
7																				
8																				
9																				
10																				

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	X	Batch QC		Basic EDD	
Rush 3 day		Category A		NYSDEC EDD	
Rush 2 day		Category B			
Rush 1 day					
Other please indicate:		Other please indicate:		Other EDD please indicate:	X
					Stantec

Brijun Haviteh	9/15/14 1200	Total Cost:
Sampled By	Date/Time	
Brijun Haviteh	9/15/14 1255	
Relinquished By	Date/Time	
	9/15/14 1255	
Received By	Date/Time	P.I.F.
	9/15/14 1317	
Received @ Lab By	Date/Time	

2 of 2

Chain of Custody Supplement

Client: Stantec **Completed by:** Kyle Swenick

Lab Project ID: 144025 **Date:** 9/15/14

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	*NELAC compliance with the sample condition requirements upon receipt* Yes	No	N/A	
Container Type	X			
Comments				
Transferred to method-compliant container			X	
Headspace (<1 mL)	X		X	metals
Comments				
Preservation	X			
Comments				
Chlorine Absent (<0.10 ppm per test strip)			X	
Comments				
Holding Time	X			
Comments				
Temperature		X	X	metals
Comments	22°C			
Sufficient Sample Quantity	X			
Comments				

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PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For

Stantec

For Lab Project ID

144818

Referencing

Carriage Factory

Prepared

Tuesday, November 11, 2014

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

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PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 144818

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-EL-W12
Lab Sample ID: 144818-01 **Date Sampled:** 11/4/2014
Matrix: Water **Date Received:** 11/4/2014

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Cadmium	< 0.00500	mg/L		11/11/2014 10:42
Copper	< 0.0250	mg/L		11/11/2014 10:42
Lead	< 0.0100	mg/L		11/11/2014 10:42
Zinc	< 0.0600	mg/L		11/11/2014 10:42

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 11/10/2014
Data File: 111114a

Volatile Organics (Halogenated)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		11/5/2014 20:34
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		11/5/2014 20:34
1,1,2-Trichloroethane	< 2.00	ug/L		11/5/2014 20:34
1,1-Dichloroethane	< 2.00	ug/L		11/5/2014 20:34
1,1-Dichloroethene	< 2.00	ug/L		11/5/2014 20:34
1,2-Dichlorobenzene	< 2.00	ug/L		11/5/2014 20:34
1,2-Dichloroethane	< 2.00	ug/L		11/5/2014 20:34
1,2-Dichloropropane	< 2.00	ug/L		11/5/2014 20:34
1,3-Dichlorobenzene	< 2.00	ug/L		11/5/2014 20:34
1,4-Dichlorobenzene	< 2.00	ug/L		11/5/2014 20:34
Bromodichloromethane	< 2.00	ug/L		11/5/2014 20:34
Bromoform	< 5.00	ug/L		11/5/2014 20:34
Bromomethane	< 2.00	ug/L		11/5/2014 20:34
Carbon Tetrachloride	< 2.00	ug/L		11/5/2014 20:34
Chlorobenzene	< 2.00	ug/L		11/5/2014 20:34
Chloroethane	< 2.00	ug/L		11/5/2014 20:34
Chloroform	< 2.00	ug/L		11/5/2014 20:34
Chloromethane	< 2.00	ug/L		11/5/2014 20:34

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 144818

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-EL-W12
Lab Sample ID: 144818-01 **Date Sampled:** 11/4/2014
Matrix: Water **Date Received:** 11/4/2014

cis-1,2-Dichloroethene	**107**	ug/L			11/5/2014 20:34
cis-1,3-Dichloropropene	< 2.00	ug/L			11/5/2014 20:34
Dibromochloromethane	< 2.00	ug/L			11/5/2014 20:34
Methylene chloride	**6.88**	ug/L			11/5/2014 20:34
Tetrachloroethene	< 2.00	ug/L			11/5/2014 20:34
trans-1,2-Dichloroethene	< 2.00	ug/L			11/5/2014 20:34
trans-1,3-Dichloropropene	< 2.00	ug/L			11/5/2014 20:34
Trichloroethene	**2.14**	ug/L			11/5/2014 20:34
Trichlorofluoromethane	< 2.00	ug/L			11/5/2014 20:34
Vinyl chloride	**33.0**	ug/L			11/5/2014 20:34

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**98.1**	85.7 - 112		11/5/2014 20:34
4-Bromofluorobenzene	**96.7**	86.6 - 110		11/5/2014 20:34
Pentafluorobenzene	**105**	94.6 - 106		11/5/2014 20:34
Toluene-D8	**99.3**	91.8 - 107		11/5/2014 20:34

Method Reference(s): EPA 8260C
EPA 5030
Data File: x18261.D

Analytical Report Appendix

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

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NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT:	Stantec	CLIENT:	Stantec	1448518
ADDRESS:	61 Commercial Street	ADDRESS:		Quotation #: MS 072513 A
CITY:	Rochester STATE: NY ZIP: 14614	CITY: STATE: ZIP:		
PHONE:	413 5266	PHONE:	978 5248	Email:
ATTN:	Mike Staronsky	ATTN:	Ben Haravitch	mike.staronsky@stantec.com

PROJECT REFERENCE

Carriage factory

Matrix Codes:

AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

	DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	Halogenated VOCs	Cd, Cu, Pb, Zn									REMARKS	PARADIGM LAB SAMPLE NUMBER	
1	11/4/14	1100	X		LI-FL-W12	WA	3	X	X										01	
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																		11°C iced @ 1206 hrs 11/4/14		
10																				

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	X	Batch QC		Basic EDD	
Rush 3 day		Category A		NYSDEC EDD	
Rush 2 day		Category B			
Rush 1 day					
Other please indicate:		Other please indicate:		Other EDD please indicate: Stantec	X

Sampled By: Ryan Hovatch	Date/Time: ~~11/5~~ 11/4/14 1100	Total Cost:
Relinquished By: Ryan Hovatch	Date/Time: 11/4/14 ~~1135~~ 1145	
Received By:	Date/Time: 11/4/14 1145	P.I.F.
Received @ Lab By: Holly Wall	Date/Time: 11/4/14 1403	

Chain of Custody Supplement

Client: Stantec **Completed by:** Molly Kaid

Lab Project ID: 144818 **Date:** 11/4/14

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	X		
Comments			
Preservation	X		
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		X metals
Comments	11°C, iced 1206hrs 11/4/14, started in field		
Sufficient Sample Quantity	X		
Comments			

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For

Stantec

For Lab Project ID

150381

Referencing

Carriage Factory

Prepared

Tuesday, February 10, 2015

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 150381

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-EL-W13
Lab Sample ID: 150381-01 **Date Sampled:** 2/4/2015
Matrix: Water **Date Received:** 2/4/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Cadmium	< 0.00500	mg/L		2/9/2015 14:01
Copper	< 0.0250	mg/L		2/9/2015 14:01
Lead	< 0.0100	mg/L		2/9/2015 14:01
Zinc	< 0.0600	mg/L		2/9/2015 14:01

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 2/6/2015
Data File: 020915a

Volatile Organics (Halogenated)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/5/2015 14:36
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/5/2015 14:36
1,1,2-Trichloroethane	< 2.00	ug/L		2/5/2015 14:36
1,1-Dichloroethane	< 2.00	ug/L		2/5/2015 14:36
1,1-Dichloroethene	< 2.00	ug/L		2/5/2015 14:36
1,2-Dichlorobenzene	< 2.00	ug/L		2/5/2015 14:36
1,2-Dichloroethane	< 2.00	ug/L		2/5/2015 14:36
1,2-Dichloropropane	< 2.00	ug/L		2/5/2015 14:36
1,3-Dichlorobenzene	< 2.00	ug/L		2/5/2015 14:36
1,4-Dichlorobenzene	< 2.00	ug/L		2/5/2015 14:36
Bromodichloromethane	< 2.00	ug/L		2/5/2015 14:36
Bromoform	< 5.00	ug/L		2/5/2015 14:36
Bromomethane	< 2.00	ug/L		2/5/2015 14:36
Carbon Tetrachloride	< 2.00	ug/L		2/5/2015 14:36
Chlorobenzene	< 2.00	ug/L		2/5/2015 14:36
Chloroethane	< 2.00	ug/L		2/5/2015 14:36
Chloroform	< 2.00	ug/L		2/5/2015 14:36
Chloromethane	< 2.00	ug/L		2/5/2015 14:36
cis-1,2-Dichloroethene	**12.5**	ug/L		2/5/2015 14:36

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 150381

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-EL-W13
Lab Sample ID: 150381-01 **Date Sampled:** 2/4/2015
Matrix: Water **Date Received:** 2/4/2015

cis-1,3-Dichloropropene	< 2.00	ug/L			2/5/2015 14:36
Dibromochloromethane	< 2.00	ug/L			2/5/2015 14:36
Methylene chloride	< 5.00	ug/L			2/5/2015 14:36
Tetrachloroethene	< 2.00	ug/L			2/5/2015 14:36
trans-1,2-Dichloroethene	< 2.00	ug/L			2/5/2015 14:36
trans-1,3-Dichloropropene	< 2.00	ug/L			2/5/2015 14:36
Trichloroethene	**2.86**	ug/L			2/5/2015 14:36
Trichlorofluoromethane	< 2.00	ug/L			2/5/2015 14:36
Vinyl chloride	**4.96**	ug/L			2/5/2015 14:36

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**97.1**	80.4 - 116		2/5/2015 14:36
4-Bromofluorobenzene	**93.7**	87 - 109		2/5/2015 14:36
Pentafluorobenzene	**103**	92.8 - 109		2/5/2015 14:36
Toluene-D8	**94.8**	92.1 - 107		2/5/2015 14:36

Method Reference(s): EPA 8260C
EPA 5030
Data File: x20331.D

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

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Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

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LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

REPORT TO:			INVOICE TO:			LAB PROJECT ID
CLIENT: Stantec			CLIENT: Stantec			150381
ADDRESS: 61 Commercial St.			ADDRESS:			
CITY: Rochester	STATE: NY	ZIP: 14614	CITY:	STATE:	ZIP:	Quotation #: MS072513A
PHONE: 413-5266			PHONE: 978-5248			Email:
ATTN: Mike Staransky			ATTN: Ben Haravitch			Mike.Staransky@stantec.com

PROJECT REFERENCE

Carriage Factory

Matrix Codes:

AQ - Aqueous Liquid **NQ** - Non-Aqueous Liquid **WA** - Water **WG** - Groundwater **DW** - Drinking Water **WW** - Wastewater **SO** - Soil **SL** - Sludge **SD** - Solid **PT** - Paint **WP** - Wipe **CK** - Caulk **OL** - Oil **AR** - Air

REQUESTED ANALYSIS

	DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	Unfiltered VOCs	Cd, Cu, Pb, Zn	REMARKS	PARADIGM LAB SAMPLE NUMBER		
1	2/4/15	1520	X		LI-EL-W13	WA	3	X	X			0	1
2													
3													
4													
5													
6													
7													
8													
9													
10													

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	X	Batch QC		Basic EDD	
Rush 3 day		Category A		NYSDEC EDD	
Rush 2 day		Category B			
Rush 1 day					
Other please indicate:		Other please indicate:		Other EDD please indicate:	X
				Stantec	

Laura Best	2/4/15 15:30	Total Cost:
Sampled By	Date/Time	
Laura Best	2/4/15 15:50	
Relinquished By	Date/Time	
[illegible]	2/4/15 15:50	P.I.F.
Received By	Date/Time	
[illegible]	2/4/15 16:35	
Received @ Lab By	Date/Time	

4°C 2/4/15 16:07
iced

Chain of Custody Supplement

Client: Stantec **Completed by:** Glenn Pezzulo

Lab Project ID: 150381 **Date:** 2/4/15

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	X VOA		X Metals
Comments			
Preservation	X		
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		X Metals
Comments	4°C iced		
Sufficient Sample Quantity	X		
Comments			

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For

Stantec

For Lab Project ID

150502

Referencing

Carriage Factory

Prepared

Tuesday, February 24, 2015

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Tuesday, February 24, 2015

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 150502

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-EL-W14
Lab Sample ID: 150502-01 **Date Sampled:** 2/17/2015
Matrix: Water **Date Received:** 2/17/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Cadmium	< 0.00500	mg/L		2/19/2015 11:23
Copper	< 0.0250	mg/L		2/19/2015 11:23
Lead	< 0.0100	mg/L		2/19/2015 11:23
Zinc	< 0.0600	mg/L		2/19/2015 11:23

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 2/18/2015
Data File: 021915a

Volatile Organics (Halogenated)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/18/2015 17:44
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/18/2015 17:44
1,1,2-Trichloroethane	< 2.00	ug/L		2/18/2015 17:44
1,1-Dichloroethane	< 2.00	ug/L		2/18/2015 17:44
1,1-Dichloroethene	< 2.00	ug/L		2/18/2015 17:44
1,2-Dichlorobenzene	< 2.00	ug/L		2/18/2015 17:44
1,2-Dichloroethane	< 2.00	ug/L		2/18/2015 17:44
1,2-Dichloropropane	< 2.00	ug/L		2/18/2015 17:44
1,3-Dichlorobenzene	< 2.00	ug/L		2/18/2015 17:44
1,4-Dichlorobenzene	< 2.00	ug/L		2/18/2015 17:44
Bromodichloromethane	< 2.00	ug/L		2/18/2015 17:44
Bromoform	< 5.00	ug/L		2/18/2015 17:44
Bromomethane	< 2.00	ug/L		2/18/2015 17:44
Carbon Tetrachloride	< 2.00	ug/L		2/18/2015 17:44
Chlorobenzene	< 2.00	ug/L		2/18/2015 17:44
Chloroethane	< 2.00	ug/L		2/18/2015 17:44
Chloroform	< 2.00	ug/L		2/18/2015 17:44
Chloromethane	< 2.00	ug/L		2/18/2015 17:44
cis-1,2-Dichloroethene	< 2.00	ug/L		2/18/2015 17:44

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 150502

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-EL-W14
Lab Sample ID: 150502-01 **Date Sampled:** 2/17/2015
Matrix: Water **Date Received:** 2/17/2015

cis-1,3-Dichloropropene	< 2.00	ug/L			2/18/2015 17:44
Dibromochloromethane	< 2.00	ug/L			2/18/2015 17:44
Methylene chloride	< 5.00	ug/L			2/18/2015 17:44
Tetrachloroethene	< 2.00	ug/L			2/18/2015 17:44
trans-1,2-Dichloroethene	< 2.00	ug/L			2/18/2015 17:44
trans-1,3-Dichloropropene	< 2.00	ug/L			2/18/2015 17:44
Trichloroethene	< 2.00	ug/L			2/18/2015 17:44
Trichlorofluoromethane	< 2.00	ug/L			2/18/2015 17:44
Vinyl chloride	< 2.00	ug/L			2/18/2015 17:44

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**95.3**	80.4 - 116		2/18/2015 17:44
4-Bromofluorobenzene	**93.2**	87 - 109		2/18/2015 17:44
Pentafluorobenzene	**98.1**	92.8 - 109		2/18/2015 17:44
Toluene-D8	**99.2**	92.1 - 107		2/18/2015 17:44

Method Reference(s): EPA 8260C
EPA 5030
Data File: x20505.D

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

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Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

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Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

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Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT:	Stantec	CLIENT:	Stantec	150502
ADDRESS:	61 Commercial St	ADDRESS:		Quotation #:
CITY:	Rochester STATE: NY ZIP: 14614	CITY:	STATE: ZIP:	
PHONE:	413-5266	PHONE:	978-5245	Email:
ATTN:	Mike Staronsky	ATTN:	Ben Haravitch	Mike.Staronsky@Stantec.com

PROJECT REFERENCE

Carriage Factory

Matrix Codes:

AQ - Aqueous Liquid	WA - Water	DW - Drinking Water	SO - Soil	SD - Solid	WP - Wipe	OL - Oil
NQ - Non-Aqueous Liquid	WG - Groundwater	WW - Wastewater	SL - Sludge	PT - Paint	CK - Caulk	AR - Air

REQUESTED ANALYSIS

	DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	Halogenated VOC	Cd, Cu, Pb, Zn	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	2/17/15	1145		X	LI-EL-W14	WA	3	XX	X		01
2											
3											
4											
5											
6											
7											
8											
9											
10											

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	X	Batch QC		Basic EDD	
Rush 3 day		Category A		NYSDEC EDD	
Rush 2 day		Category B			
Rush 1 day					
Other please indicate:		Other please indicate:		Other EDD please indicate:	X Stantec

Benjamin Haravitch	2/17/15 1145	Total Cost:
Sampled By	Date/Time	
Benjamin Haravitch	2/17/15	
Relinquished By	Date/Time	
KR Hansen	2/17/15 1323	P.I.F.
Received By	Date/Time	
DP2	2/17/15 14:30	
Received @ Lab By	Date/Time	

5°C iced 2/17/15 13:40

PARADIGM

Chain of Custody Supplement

Client: Stantec **Completed by:** Glenn Pezzulo

Lab Project ID: 150502 **Date:** 2/17/15

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	X VOA		X
Comments			
Preservation	X		
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		X Metals
Comments	5°C iced		
Sufficient Sample Quantity	X		
Comments			

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For

Stantec

For Lab Project ID

151695

Referencing

Carriage Factory

Prepared

Wednesday, May 13, 2015

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

KRHansen

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151695

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-EL-W15
Lab Sample ID: 151695-01 **Date Sampled:** 5/5/2015
Matrix: Groundwater **Date Received:** 5/5/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Cadmium	< 0.00500	mg/L		5/8/2015 14:23
Copper	< 0.0250	mg/L		5/8/2015 14:23
Lead	< 0.0100	mg/L		5/8/2015 14:23
Zinc	< 0.0600	mg/L		5/8/2015 14:23

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 5/7/2015
Data File: 050815a

Volatile Organics (Halogenated)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/9/2015 02:59
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/9/2015 02:59
1,1,2-Trichloroethane	< 2.00	ug/L		5/9/2015 02:59
1,1-Dichloroethane	< 2.00	ug/L		5/9/2015 02:59
1,1-Dichloroethene	< 2.00	ug/L		5/9/2015 02:59
1,2-Dichlorobenzene	< 2.00	ug/L		5/9/2015 02:59
1,2-Dichloroethane	< 2.00	ug/L		5/9/2015 02:59
1,2-Dichloropropane	< 2.00	ug/L		5/9/2015 02:59
1,3-Dichlorobenzene	< 2.00	ug/L		5/9/2015 02:59
1,4-Dichlorobenzene	< 2.00	ug/L		5/9/2015 02:59
Bromodichloromethane	< 2.00	ug/L		5/9/2015 02:59
Bromoform	< 5.00	ug/L		5/9/2015 02:59
Bromomethane	< 2.00	ug/L		5/9/2015 02:59
Carbon Tetrachloride	< 2.00	ug/L		5/9/2015 02:59
Chlorobenzene	< 2.00	ug/L		5/9/2015 02:59
Chloroethane	< 2.00	ug/L		5/9/2015 02:59
Chloroform	< 2.00	ug/L		5/9/2015 02:59
Chloromethane	< 2.00	ug/L		5/9/2015 02:59
cis-1,2-Dichloroethene	**19.2**	ug/L		5/9/2015 02:59

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151695

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-EL-W15
Lab Sample ID: 151695-01 **Date Sampled:** 5/5/2015
Matrix: Groundwater **Date Received:** 5/5/2015

cis-1,3-Dichloropropene	< 2.00	ug/L			5/9/2015 02:59
Dibromochloromethane	< 2.00	ug/L			5/9/2015 02:59
Methylene chloride	< 5.00	ug/L			5/9/2015 02:59
Tetrachloroethene	**2.25**	ug/L			5/9/2015 02:59
trans-1,2-Dichloroethene	< 2.00	ug/L			5/9/2015 02:59
trans-1,3-Dichloropropene	< 2.00	ug/L			5/9/2015 02:59
Trichloroethene	**2.62**	ug/L			5/9/2015 02:59
Trichlorofluoromethane	< 2.00	ug/L			5/9/2015 02:59
Vinyl chloride	**10.3**	ug/L			5/9/2015 02:59

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**107**	82.3 - 115		5/9/2015 02:59
4-Bromofluorobenzene	**92.8**	85.5 - 111		5/9/2015 02:59
Pentafluorobenzene	**101**	91.2 - 107		5/9/2015 02:59
Toluene-D8	**97.5**	90.9 - 108		5/9/2015 02:59

Method Reference(s): EPA 8260C
EPA 5030
Data File: x22671.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151695

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-EL-W16
Lab Sample ID: 151695-02 **Date Sampled:** 5/5/2015
Matrix: Groundwater **Date Received:** 5/5/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Cadmium	< 0.00500	mg/L		5/8/2015 14:28
Copper	< 0.0250	mg/L		5/8/2015 14:28
Lead	< 0.0100	mg/L		5/8/2015 14:28
Zinc	**0.177**	mg/L		5/8/2015 14:28

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 5/7/2015
Data File: 050815a

Volatile Organics (Halogenated)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/9/2015 03:23
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/9/2015 03:23
1,1,2-Trichloroethane	< 2.00	ug/L		5/9/2015 03:23
1,1-Dichloroethane	< 2.00	ug/L		5/9/2015 03:23
1,1-Dichloroethene	< 2.00	ug/L		5/9/2015 03:23
1,2-Dichlorobenzene	< 2.00	ug/L		5/9/2015 03:23
1,2-Dichloroethane	< 2.00	ug/L		5/9/2015 03:23
1,2-Dichloropropane	< 2.00	ug/L		5/9/2015 03:23
1,3-Dichlorobenzene	< 2.00	ug/L		5/9/2015 03:23
1,4-Dichlorobenzene	< 2.00	ug/L		5/9/2015 03:23
Bromodichloromethane	< 2.00	ug/L		5/9/2015 03:23
Bromoform	< 5.00	ug/L		5/9/2015 03:23
Bromomethane	< 2.00	ug/L		5/9/2015 03:23
Carbon Tetrachloride	< 2.00	ug/L		5/9/2015 03:23
Chlorobenzene	< 2.00	ug/L		5/9/2015 03:23
Chloroethane	< 2.00	ug/L		5/9/2015 03:23
Chloroform	< 2.00	ug/L		5/9/2015 03:23
Chloromethane	< 2.00	ug/L		5/9/2015 03:23
cis-1,2-Dichloroethene	< 2.00	ug/L		5/9/2015 03:23

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 151695

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-EL-W16
Lab Sample ID: 151695-02 **Date Sampled:** 5/5/2015
Matrix: Groundwater **Date Received:** 5/5/2015

cis-1,3-Dichloropropene	< 2.00	ug/L			5/9/2015 03:23
Dibromochloromethane	< 2.00	ug/L			5/9/2015 03:23
Methylene chloride	< 5.00	ug/L			5/9/2015 03:23
Tetrachloroethene	< 2.00	ug/L			5/9/2015 03:23
trans-1,2-Dichloroethene	< 2.00	ug/L			5/9/2015 03:23
trans-1,3-Dichloropropene	< 2.00	ug/L			5/9/2015 03:23
Trichloroethene	< 2.00	ug/L			5/9/2015 03:23
Trichlorofluoromethane	< 2.00	ug/L			5/9/2015 03:23
Vinyl chloride	< 2.00	ug/L			5/9/2015 03:23

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**105**	82.3 - 115		5/9/2015 03:23
4-Bromofluorobenzene	**91.1**	85.5 - 111		5/9/2015 03:23
Pentafluorobenzene	**97.8**	91.2 - 107		5/9/2015 03:23
Toluene-D8	**95.5**	90.9 - 108		5/9/2015 03:23

Method Reference(s): EPA 8260C
EPA 5030
Data File: x22672.D

Analytical Report Appendix

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"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
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All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

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Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

1062

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT:	Stantec	CLIENT:	Stantec	151695
ADDRESS:	61 Commercial St	ADDRESS:		Quotation #:
CITY:	Rochester STATE: NY ZIP: 14614	CITY: STATE: ZIP:		
PHONE:	413-5266	PHONE:	978-5248	Email:
ATTN:	Mike Staronsky	ATTN:	Ben Haravitch	Mike.Staronsky@Stantec.com

PROJECT REFERENCE

Carriage Factory

Matrix Codes:

AQ - Aqueous Liquid; **NQ** - Non-Aqueous Liquid; **WA** - Water; **WG** - Groundwater; **DW** - Drinking Water; **WW** - Wastewater; **SO** - Soil; **SL** - Sludge; **SD** - Solid; **PT** - Paint; **WP** - Wipe; **CK** - Caulk; **OL** - Oil; **AR** - Air

REQUESTED ANALYSIS

	DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	Halogenated VOCs	Cd, Cu, Pb, Zn								REMARKS	PARADIGM LAB SAMPLE NUMBER	
1	5/5/15	14:50	X		LI-EL-W15	WG	3	X	X										01
2	5/5/15	15:15		X	LI-EL-W16	WG	3	X	X										02
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Turnaround Time		Report Supplements		
Availability contingent upon lab approval; additional fees may apply.				
Standard 5 day	☐	Batch QC	☐	Basic EDD ☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD ☒
Rush 2 day	☐	Category B	☐	
Rush 1 day	☐			
Other	☒	Other	☐	Other EDD ☒
please indicate:	10 day	please indicate:		please indicate: Stantec

Laura Best	5/5/15 1615	Total Cost:
Sampled By	Date/Time	
Laura Best	5/5/15 1620	
Relinquished By	Date/Time	
RR Lawson	5/5/15 1620	
Received By	Date/Time	P.I.F.
Molly Vail	5/5/15 1641	
Received @ Lab By	Date/Time	

15°C iced started in field

Chain of Custody Supplement

Client: Stantec **Completed by:** Mollykail

Lab Project ID: 151695 **Date:** 5/5/15

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	X		
Comments			
Preservation	X		
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		X metals
Comments	15°C iced started in field 5/5/15		
Sufficient Sample Quantity	X		
Comments			

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For

Stantec

For Lab Project ID

153410

Referencing

Carriage Factory

Prepared

Friday, August 21, 2015

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 153410

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-EL-W17
Lab Sample ID: 153410-01 **Date Sampled:** 8/13/2015
Matrix: Groundwater **Date Received:** 8/13/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Cadmium	< 0.00500	mg/L		8/20/2015 12:35
Copper	< 0.0250	mg/L		8/20/2015 12:35
Lead	< 0.0100	mg/L		8/20/2015 12:35
Zinc	< 0.0600	mg/L		8/20/2015 12:35

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 8/19/2015
Data File: 082015a

Volatile Organics (Halogenated)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		8/17/2015 19:50
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		8/17/2015 19:50
1,1,2-Trichloroethane	< 2.00	ug/L		8/17/2015 19:50
1,1-Dichloroethane	< 2.00	ug/L		8/17/2015 19:50
1,1-Dichloroethene	< 2.00	ug/L		8/17/2015 19:50
1,2-Dichlorobenzene	< 2.00	ug/L		8/17/2015 19:50
1,2-Dichloroethane	< 2.00	ug/L		8/17/2015 19:50
1,2-Dichloropropane	< 2.00	ug/L		8/17/2015 19:50
1,3-Dichlorobenzene	< 2.00	ug/L		8/17/2015 19:50
1,4-Dichlorobenzene	< 2.00	ug/L		8/17/2015 19:50
Bromodichloromethane	< 2.00	ug/L		8/17/2015 19:50
Bromoform	< 5.00	ug/L		8/17/2015 19:50
Bromomethane	< 2.00	ug/L		8/17/2015 19:50
Carbon Tetrachloride	< 2.00	ug/L		8/17/2015 19:50
Chlorobenzene	< 2.00	ug/L		8/17/2015 19:50
Chloroethane	< 2.00	ug/L		8/17/2015 19:50
Chloroform	< 2.00	ug/L		8/17/2015 19:50
Chloromethane	< 2.00	ug/L		8/17/2015 19:50
cis-1,2-Dichloroethene	< 2.00	ug/L		8/17/2015 19:50

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 153410

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-EL-W17
Lab Sample ID: 153410-01 **Date Sampled:** 8/13/2015
Matrix: Groundwater **Date Received:** 8/13/2015

cis-1,3-Dichloropropene	< 2.00	ug/L			8/17/2015	19:50
Dibromochloromethane	< 2.00	ug/L			8/17/2015	19:50
Methylene chloride	< 5.00	ug/L			8/17/2015	19:50
Tetrachloroethene	< 2.00	ug/L			8/17/2015	19:50
trans-1,2-Dichloroethene	< 2.00	ug/L			8/17/2015	19:50
trans-1,3-Dichloropropene	< 2.00	ug/L			8/17/2015	19:50
Trichloroethene	< 2.00	ug/L			8/17/2015	19:50
Trichlorofluoromethane	< 2.00	ug/L			8/17/2015	19:50
Vinyl chloride	< 2.00	ug/L			8/17/2015	19:50

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**105**	81.1 - 116		8/17/2015	19:50
4-Bromofluorobenzene	**85.8**	82.3 - 113		8/17/2015	19:50
Pentafluorobenzene	**95.8**	91.1 - 110		8/17/2015	19:50
Toluene-D8	**89.1**	91.4 - 106	*	8/17/2015	19:50

Method Reference(s): EPA 8260C
EPA 5030
Data File: x25441.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 153410

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-EL-W18
Lab Sample ID: 153410-02 **Date Sampled:** 8/13/2015
Matrix: Groundwater **Date Received:** 8/13/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Cadmium	< 0.00500	mg/L		8/20/2015 12:39
Copper	< 0.0250	mg/L		8/20/2015 12:39
Lead	< 0.0100	mg/L		8/20/2015 12:39
Zinc	< 0.0600	mg/L		8/20/2015 12:39

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 8/19/2015
Data File: 082015a

Volatile Organics (Halogenated)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		8/17/2015 20:13
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		8/17/2015 20:13
1,1,2-Trichloroethane	< 2.00	ug/L		8/17/2015 20:13
1,1-Dichloroethane	< 2.00	ug/L		8/17/2015 20:13
1,1-Dichloroethene	< 2.00	ug/L		8/17/2015 20:13
1,2-Dichlorobenzene	< 2.00	ug/L		8/17/2015 20:13
1,2-Dichloroethane	< 2.00	ug/L		8/17/2015 20:13
1,2-Dichloropropane	< 2.00	ug/L		8/17/2015 20:13
1,3-Dichlorobenzene	< 2.00	ug/L		8/17/2015 20:13
1,4-Dichlorobenzene	< 2.00	ug/L		8/17/2015 20:13
Bromodichloromethane	< 2.00	ug/L		8/17/2015 20:13
Bromoform	< 5.00	ug/L		8/17/2015 20:13
Bromomethane	< 2.00	ug/L		8/17/2015 20:13
Carbon Tetrachloride	< 2.00	ug/L		8/17/2015 20:13
Chlorobenzene	< 2.00	ug/L		8/17/2015 20:13
Chloroethane	< 2.00	ug/L		8/17/2015 20:13
Chloroform	< 2.00	ug/L		8/17/2015 20:13
Chloromethane	< 2.00	ug/L		8/17/2015 20:13
cis-1,2-Dichloroethene	**11.1**	ug/L		8/17/2015 20:13

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 153410

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-EL-W18
Lab Sample ID: 153410-02 **Date Sampled:** 8/13/2015
Matrix: Groundwater **Date Received:** 8/13/2015

cis-1,3-Dichloropropene	< 2.00	ug/L			8/17/2015 20:13
Dibromochloromethane	< 2.00	ug/L			8/17/2015 20:13
Methylene chloride	< 5.00	ug/L			8/17/2015 20:13
Tetrachloroethene	< 2.00	ug/L			8/17/2015 20:13
trans-1,2-Dichloroethene	< 2.00	ug/L			8/17/2015 20:13
trans-1,3-Dichloropropene	< 2.00	ug/L			8/17/2015 20:13
Trichloroethene	< 2.00	ug/L			8/17/2015 20:13
Trichlorofluoromethane	< 2.00	ug/L			8/17/2015 20:13
Vinyl chloride	**9.14**	ug/L			8/17/2015 20:13

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**106**	81.1 - 116		8/17/2015 20:13
4-Bromofluorobenzene	**83.1**	82.3 - 113		8/17/2015 20:13
Pentafluorobenzene	**98.8**	91.1 - 110		8/17/2015 20:13
Toluene-D8	**89.0**	91.4 - 106	*	8/17/2015 20:13

Method Reference(s): EPA 8260C
EPA 5030
Data File: x25442.D

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

REPORT TO:			INVOICE TO:			LAB PROJECT ID
CLIENT: Stantec			CLIENT:			153410
ADDRESS: 61 Commercial St			ADDRESS:			Quotation #:
CITY: Rochester	STATE: NY	ZIP: 14614	CITY:	STATE:	ZIP:	
PHONE: 585-413-5766			PHONE: 978-5248			Email: mike.stanowsky@stantec.com
ATTN: Mike Stanowsky			ATTN: Ben Havanitch			

PROJECT REFERENCE

Carmine Infany

Matrix Codes:

AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

	DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	Hexavalent VOCs	Ca, Cu, Pb, Zn								REMARKS	PARADIGM LAB SAMPLE NUMBER
1	8/13/15	1427		X	LI-EL-W17	WG	3	X	X									01
2	8/13/15	1455	X		LI-EL-W18	WG	3	X	X									02
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																	6°C iced 8/13/15 1703 hrs MLG/ail Custody seals NA client delivered	

Turnaround Time		Report Supplements		
Availability contingent upon lab approval; additional fees may apply.				
Standard 5 day	☐	Batch QC	☐	Basic EDD ☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD ☒
Rush 2 day	☐	Category B	☐	
Rush 1 day	☐			
Other please indicate: 10 day	☒	Other please indicate:	☐	Other EDD please indicate: Stantec ☒

Benjamin Hamtel	8/13/15 1455	Total Cost:
Sampled By	Date/Time	
Benjamin Hamtel	8/13/15 1630	
Relinquished By	Date/Time	
RR Hanson	8/13/15 1630	
Received By	Date/Time	P.I.F.
MLGrail	8/13/15 1716 hrs	
Received @ Lab By	Date/Time	

Chain of Custody Supplement

Client: Stantec **Completed by:** Molgrail

Lab Project ID: 153410 **Date:** 8/13/15

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	X		
Comments			
Preservation	X		
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		X net
Comments	6°C; cul 8/13/15 1703hrs custody NA client delivered		
Sufficient Sample Quantity	X		
Comments			

PARADIGM

Analytical Report For

Stantec

For Lab Project ID

155061

Referencing

Carriage Factory

Prepared

Tuesday, December 08, 2015

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 155061

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-EL-W19
Lab Sample ID: 155061-01 **Date Sampled:** 11/24/2015
Matrix: Groundwater **Date Received:** 11/24/2015

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Cadmium	< 0.00500	mg/L		12/1/2015 17:59
Copper	< 0.0250	mg/L		12/1/2015 17:59
Lead	< 0.0100	mg/L		12/1/2015 17:59
Zinc	**1.15**	mg/L		12/1/2015 17:59

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 11/28/2015
Data File: 120115c

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		12/1/2015 11:24
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		12/1/2015 11:24
1,1,2-Trichloroethane	< 2.00	ug/L		12/1/2015 11:24
1,1-Dichloroethane	< 2.00	ug/L		12/1/2015 11:24
1,1-Dichloroethene	< 2.00	ug/L		12/1/2015 11:24
1,2-Dichlorobenzene	< 2.00	ug/L		12/1/2015 11:24
1,2-Dichloroethane	< 2.00	ug/L		12/1/2015 11:24
1,2-Dichloropropane	< 2.00	ug/L		12/1/2015 11:24
1,3-Dichlorobenzene	< 2.00	ug/L		12/1/2015 11:24
1,4-Dichlorobenzene	< 2.00	ug/L		12/1/2015 11:24
Bromodichloromethane	< 2.00	ug/L		12/1/2015 11:24
Bromoform	< 5.00	ug/L		12/1/2015 11:24
Bromomethane	< 2.00	ug/L		12/1/2015 11:24
Carbon Tetrachloride	< 2.00	ug/L		12/1/2015 11:24
Chlorobenzene	< 2.00	ug/L		12/1/2015 11:24
Chloroethane	< 2.00	ug/L		12/1/2015 11:24
Chloroform	< 2.00	ug/L		12/1/2015 11:24
Chloromethane	< 2.00	ug/L		12/1/2015 11:24
cis-1,2-Dichloroethene	< 2.00	ug/L		12/1/2015 11:24

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 155061

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-EL-W19
Lab Sample ID: 155061-01 **Date Sampled:** 11/24/2015
Matrix: Groundwater **Date Received:** 11/24/2015

cis-1,3-Dichloropropene	< 2.00	ug/L			12/1/2015 11:24
Dibromochloromethane	< 2.00	ug/L			12/1/2015 11:24
Methylene chloride	< 5.00	ug/L			12/1/2015 11:24
Tetrachloroethene	< 2.00	ug/L			12/1/2015 11:24
trans-1,2-Dichloroethene	< 2.00	ug/L			12/1/2015 11:24
trans-1,3-Dichloropropene	< 2.00	ug/L			12/1/2015 11:24
Trichloroethene	< 2.00	ug/L			12/1/2015 11:24
Trichlorofluoromethane	< 2.00	ug/L			12/1/2015 11:24
Vinyl chloride	< 2.00	ug/L			12/1/2015 11:24

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**107**	81.1 - 124		12/1/2015 11:24
4-Bromofluorobenzene	**92.2**	79.8 - 114		12/1/2015 11:24
Pentafluorobenzene	**100**	91.1 - 111		12/1/2015 11:24
Toluene-D8	**99.9**	90.7 - 107		12/1/2015 11:24

Method Reference(s): EPA 8260C
EPA 5030
Data File: x27894.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 155061

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: Trip Blank (T-683)
Lab Sample ID: 155061-02 **Date Sampled:** 11/24/2015
Matrix: Water **Date Received:** 11/24/2015

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		12/1/2015 11:00
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		12/1/2015 11:00
1,1,2-Trichloroethane	< 2.00	ug/L		12/1/2015 11:00
1,1-Dichloroethane	< 2.00	ug/L		12/1/2015 11:00
1,1-Dichloroethene	< 2.00	ug/L		12/1/2015 11:00
1,2-Dichlorobenzene	< 2.00	ug/L		12/1/2015 11:00
1,2-Dichloroethane	< 2.00	ug/L		12/1/2015 11:00
1,2-Dichloropropane	< 2.00	ug/L		12/1/2015 11:00
1,3-Dichlorobenzene	< 2.00	ug/L		12/1/2015 11:00
1,4-Dichlorobenzene	< 2.00	ug/L		12/1/2015 11:00
Bromodichloromethane	< 2.00	ug/L		12/1/2015 11:00
Bromoform	< 5.00	ug/L		12/1/2015 11:00
Bromomethane	< 2.00	ug/L		12/1/2015 11:00
Carbon Tetrachloride	< 2.00	ug/L		12/1/2015 11:00
Chlorobenzene	< 2.00	ug/L		12/1/2015 11:00
Chloroethane	< 2.00	ug/L		12/1/2015 11:00
Chloroform	< 2.00	ug/L		12/1/2015 11:00
Chloromethane	< 2.00	ug/L		12/1/2015 11:00
cis-1,2-Dichloroethene	< 2.00	ug/L		12/1/2015 11:00
cis-1,3-Dichloropropene	< 2.00	ug/L		12/1/2015 11:00
Dibromochloromethane	< 2.00	ug/L		12/1/2015 11:00
Methylene chloride	< 5.00	ug/L		12/1/2015 11:00
Tetrachloroethene	< 2.00	ug/L		12/1/2015 11:00
trans-1,2-Dichloroethene	< 2.00	ug/L		12/1/2015 11:00
trans-1,3-Dichloropropene	< 2.00	ug/L		12/1/2015 11:00
Trichloroethene	< 2.00	ug/L		12/1/2015 11:00
Trichlorofluoromethane	< 2.00	ug/L		12/1/2015 11:00
Vinyl chloride	< 2.00	ug/L		12/1/2015 11:00

Lab Project ID: 155061

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: Trip Blank (T-683)
Lab Sample ID: 155061-02 **Date Sampled:** 11/24/2015
Matrix: Water **Date Received:** 11/24/2015

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**101**	81.1 - 124		12/1/2015 11:00
4-Bromofluorobenzene	**92.7**	79.8 - 114		12/1/2015 11:00
Pentafluorobenzene	**101**	91.1 - 111		12/1/2015 11:00
Toluene-D8	**93.9**	90.7 - 107		12/1/2015 11:00

Method Reference(s): EPA 8260C
EPA 5030
Data File: x27893.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Method Blank Report

Client: Stantec

Project Reference: Carriage Factory

Lab Project ID: 155061

SDG #: 5061-01

Matrix: Groundwater

Metals

Analyte	Result	Units	Qualifier	Date Analyzed	
Cadmium	<0.00500	mg/L		12/1/2015	17:46
Copper	<0.0250	mg/L		12/1/2015	17:46
Lead	<0.0100	mg/L		12/1/2015	17:46
Zinc	<0.0600	mg/L		12/1/2015	17:46

Method Reference(s): EPA 6010C
EPA 3005

Preparation Date: 11/28/2015

Data File: 120115c

QC Batch ID: QC151125water

QC Number: 1

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample and Control Sample Duplicate

Client: Stantec
Project Reference: Carriage Factory
Lab Project ID: 155061
SDG #: 5061-01
Matrix: Groundwater

Metals

Analyte	LCS Added	LCSD Added	Spike Units	LCS Result	LCSD Result	LCS % Recovery	LCSD % Recovery	% Rec Limits	LCS Outliers	LCSD Outliers	Relative % Difference	RPD Limit	RPD Outliers	Date Analyzed
Cadmium	1.00	1.00	mg/L	1.02	1.03	102	103	85 - 115			1.04	20		12/1/2015
Copper	2.50	2.50	mg/L	2.38	2.37	95.2	94.7	85 - 115			0.502	20		12/1/2015
Lead	2.50	2.50	mg/L	2.49	2.46	99.6	98.4	85 - 115			1.20	20		12/1/2015
Zinc	2.50	2.50	mg/L	2.67	2.63	107	105	85 - 115			1.39	20		12/1/2015

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 11/28/2015
Data File: 120115c
QC Number: 1
QC Batch ID: QC151125water

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Tuesday, December 08, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Sample Spike and Sample Duplicate

SDG #: 5061-01
Lab Project ID: 155061

Client: Stantec
Project Reference: Carriage Factory

Lab Sample ID: 155061-01
Sample Identifier: LI-EL-W19
Matrix: Groundwater

Date Sampled: 11/24/2015
Date Received: 11/24/2015

Metals

Analyte	Sample Results	Result Units	Spike Added	Spike Result	Spike % Recovery	% Rec Limits	Spike Outliers	Duplicate Result	Relative % Difference	RPD Limit	RPD Outliers	Date Analyzed
Cadmium	< 0.00500	mg/L	1.00	0.998	99.8	75 - 125		<0.00500	NC	20		12/1/2015
Copper	< 0.0250	mg/L	2.50	2.49	99.5	75 - 125		<0.0250	NC	20		12/1/2015
Lead	< 0.0100	mg/L	2.50	2.43	97.3	75 - 125		<0.0100	NC	20		12/1/2015
Zinc	**1.15**	mg/L	2.50	3.99	114	75 - 125		1.17	1.87	20		12/1/2015

Method Reference(s): EPA 6010C
EPA 3005
Preparation Date: 11/28/2015
120115c
QC Batch ID: QC151125water

NC = Not Calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added.

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Report Prepared Tuesday, December 08, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Method Blank Report

Client: Stantec
Project Reference: Carriage Factory
Lab Project ID: 155061
SDG #: 5061-01
Matrix: Groundwater

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed	
1,1,1-Trichloroethane	<2.00	ug/L		12/1/2015	00:59
1,1,2,2-Tetrachloroethane	<2.00	ug/L		12/1/2015	00:59
1,1,2-Trichloroethane	<2.00	ug/L		12/1/2015	00:59
1,1-Dichloroethane	<2.00	ug/L		12/1/2015	00:59
1,1-Dichloroethene	<2.00	ug/L		12/1/2015	00:59
1,2-Dichlorobenzene	<2.00	ug/L		12/1/2015	00:59
1,2-Dichloroethane	<2.00	ug/L		12/1/2015	00:59
1,2-Dichloropropane	<2.00	ug/L		12/1/2015	00:59
1,3-Dichlorobenzene	<2.00	ug/L		12/1/2015	00:59
1,4-Dichlorobenzene	<2.00	ug/L		12/1/2015	00:59
Bromodichloromethane	<2.00	ug/L		12/1/2015	00:59
Bromoform	<5.00	ug/L		12/1/2015	00:59
Bromomethane	<2.00	ug/L		12/1/2015	00:59
Carbon Tetrachloride	<2.00	ug/L		12/1/2015	00:59
Chlorobenzene	<2.00	ug/L		12/1/2015	00:59
Chloroethane	<2.00	ug/L		12/1/2015	00:59
Chloroform	<2.00	ug/L		12/1/2015	00:59
Chloromethane	<2.00	ug/L		12/1/2015	00:59
cis-1,2-Dichloroethene	<2.00	ug/L		12/1/2015	00:59
cis-1,3-Dichloropropene	<2.00	ug/L		12/1/2015	00:59
Dibromochloromethane	<2.00	ug/L		12/1/2015	00:59
Methylene chloride	<5.00	ug/L		12/1/2015	00:59
Tetrachloroethene	<2.00	ug/L		12/1/2015	00:59
trans-1,2-Dichloroethene	<2.00	ug/L		12/1/2015	00:59
trans-1,3-Dichloropropene	<2.00	ug/L		12/1/2015	00:59
Trichloroethene	<2.00	ug/L		12/1/2015	00:59
Trichlorofluoromethane	<2.00	ug/L		12/1/2015	00:59
Vinyl chloride	<2.00	ug/L		12/1/2015	00:59

PARADIGM
ENVIRONMENTAL SERVICES, INC

Method Blank Report

Client:	**Stantec**
Project Reference:	Carriage Factory
Lab Project ID:	155061
SDG #:	5061-01
Matrix:	Groundwater

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
Surrogate	**Percent Recovery**	**Limits**	**Outliers**	**Date Analyzed**
1,2-Dichloroethane-d4	**103**	81.1 - 124		12/1/2015 00:59
4-Bromofluorobenzene	**93.3**	79.8 - 114		12/1/2015 00:59
Pentafluorobenzene	**100**	91.1 - 111		12/1/2015 00:59
Toluene-D8	**95.9**	90.7 - 107		12/1/2015 00:59

Method Reference(s): EPA 8260C
EPA 5030
Data File: x27868.D
QC Batch ID: voaasp113015
QC Number: 1

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client: Stantec
Project Reference: Carriage Factory
Lab Project ID: 155061
SDG #: 5061-01
Matrix: Groundwater

Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
1,1,1-Trichloroethane	20.0	ug/L	18.6	93.1	79.3 - 121		12/1/2015
1,1,2,2-Tetrachloroethane	20.0	ug/L	19.6	98.1	78.9 - 127		12/1/2015
1,1,2-Trichloroethane	20.0	ug/L	19.5	97.6	79.2 - 118		12/1/2015
1,1-Dichloroethane	20.0	ug/L	18.5	92.5	82.9 - 117		12/1/2015
1,1-Dichloroethene	20.0	ug/L	18.5	92.5	78.8 - 122		12/1/2015
1,2-Dichlorobenzene	20.0	ug/L	19.2	95.9	84.6 - 123		12/1/2015
1,2-Dichloroethane	20.0	ug/L	19.7	98.6	78.1 - 124		12/1/2015
1,2-Dichloropropane	20.0	ug/L	18.6	92.8	84.1 - 115		12/1/2015
1,3-Dichlorobenzene	20.0	ug/L	18.0	90.0	78.6 - 120		12/1/2015
1,4-Dichlorobenzene	20.0	ug/L	18.8	93.8	78.9 - 117		12/1/2015
Bromodichloromethane	20.0	ug/L	19.4	97.0	81.5 - 118		12/1/2015
Bromoform	20.0	ug/L	18.8	94.1	66.4 - 112		12/1/2015
Bromomethane	20.0	ug/L	16.8	83.8	51.4 - 160		12/1/2015
Carbon Tetrachloride	20.0	ug/L	18.5	92.4	73.7 - 126		12/1/2015
Chlorobenzene	20.0	ug/L	18.5	92.3	83.2 - 117		12/1/2015
Chloroethane	20.0	ug/L	17.5	87.4	79.1 - 128		12/1/2015

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Report Prepared Tuesday, December 08, 2015

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client: Stantec
Project Reference: Carriage Factory
Lab Project ID: 155061
SDG #: 5061-01
Matrix: Groundwater

Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
Chloroform	20.0	ug/L	19.6	98.1	84.3 - 119		12/1/2015
Chloromethane	20.0	ug/L	15.8	79.2	61.9 - 133		12/1/2015
cis-1,3-Dichloropropene	20.0	ug/L	22.7	113	92.8 - 132		12/1/2015
Dibromochloromethane	20.0	ug/L	19.8	99.1	75.5 - 118		12/1/2015
Methylene chloride	20.0	ug/L	19.0	94.8	78.2 - 125		12/1/2015
Tetrachloroethene	20.0	ug/L	20.7	103	71.3 - 134		12/1/2015
trans-1,2-Dichloroethene	20.0	ug/L	19.2	96.0	81.7 - 122		12/1/2015
trans-1,3-Dichloropropene	20.0	ug/L	21.0	105	79.9 - 124		12/1/2015
Trichloroethene	20.0	ug/L	19.2	95.8	84 - 120		12/1/2015
Trichlorofluoromethane	20.0	ug/L	17.6	87.8	70.8 - 128		12/1/2015
Vinyl chloride	20.0	ug/L	17.3	86.7	75 - 131		12/1/2015

Method Reference(s): EPA 8260C
EPA 5030
Data File: x27867.D
QC Number: 1
QC Batch ID: voaasp113015

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Report Prepared Tuesday, December 08, 2015

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT: Stantec		CLIENT:		155061
ADDRESS: 61 Commercial St		ADDRESS:		Quotation #:
CITY: Rochester STATE: NY ZIP: 14614		CITY: STATE: ZIP:		
PHONE: 585-413-5266		PHONE: 366-7253		Email:
ATTN: Mike Stowansky		ATTN: Charles Barrington		mike.stowansky@stantec.com

PROJECT REFERENCE

Cavendish Factory

Matrix Codes:

AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

	DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	Chlorinated VOCs	BTEX + MTBE								REMARKS	PARADIGM LAB SAMPLE NUMBER	
1	11/24/15	1115		X	LI-EL-W19	WG	3	X	X									01	
2	11/24/15	NA		X	TRIP BLANK (T-683)	WG	1	X										02	
3					per sample label GP 11/24/15														
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☐	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☒	NYSDEC EDD	☒
Rush 2 day	☐	Category B	☐		
Rush 1 day	☐				
Other	☒	Other	☐	Other EDD	☒
please indicate: 10 day		please indicate:		please indicate: Stantec	

Sampled By	11.24.15/1115 Date/Time	Total Cost:
Relinquished By	11.24.15/1140 Date/Time	
Received By	11-24-15-1140 Date/Time	P.I.F.
Received @ Lab By	11/24/15 15:46 Date/Time	

14°C 11/24/15 11:46

Custody Seal N/A, samples delivered by client. GP 11/24/15

PARADIGM

Chain of Custody Supplement

Client: Stantec **Completed by:** Glenn Pezzulo

Lab Project ID: 155061 **Date:** 11/24/15

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	X VOA		X
Comments			
Preservation	X		
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature		X	X metals
Comments	14°C		
Sufficient Sample Quantity	X		
Comments			

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For

Stantec

For Lab Project ID

160463

Referencing

Carriage Factory

Prepared

Monday, February 08, 2016

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160463

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-EL-W20
Lab Sample ID: 160463-01 **Date Sampled:** 2/2/2016
Matrix: Groundwater **Date Received:** 2/2/2016

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Cadmium	< 0.00500	mg/L		2/5/2016 10:37
Copper	< 0.0250	mg/L		2/5/2016 10:37
Lead	< 0.0100	mg/L		2/5/2016 10:37
Zinc	**0.319**	mg/L		2/5/2016 10:37

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 2/4/2016
Data File: 020516a

Volatile Organics (Halogenated)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/5/2016 20:50
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/5/2016 20:50
1,1,2-Trichloroethane	< 2.00	ug/L		2/5/2016 20:50
1,1-Dichloroethane	< 2.00	ug/L		2/5/2016 20:50
1,1-Dichloroethene	< 2.00	ug/L		2/5/2016 20:50
1,2-Dichlorobenzene	< 2.00	ug/L		2/5/2016 20:50
1,2-Dichloroethane	< 2.00	ug/L		2/5/2016 20:50
1,2-Dichloropropane	< 2.00	ug/L		2/5/2016 20:50
1,3-Dichlorobenzene	< 2.00	ug/L		2/5/2016 20:50
1,4-Dichlorobenzene	< 2.00	ug/L		2/5/2016 20:50
Bromodichloromethane	< 2.00	ug/L		2/5/2016 20:50
Bromoform	< 5.00	ug/L		2/5/2016 20:50
Bromomethane	< 2.00	ug/L		2/5/2016 20:50
Carbon Tetrachloride	< 2.00	ug/L		2/5/2016 20:50
Chlorobenzene	< 2.00	ug/L		2/5/2016 20:50
Chloroethane	< 2.00	ug/L		2/5/2016 20:50
Chloroform	< 2.00	ug/L		2/5/2016 20:50
Chloromethane	< 2.00	ug/L		2/5/2016 20:50
cis-1,2-Dichloroethene	< 2.00	ug/L		2/5/2016 20:50

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160463

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-EL-W20
Lab Sample ID: 160463-01 **Date Sampled:** 2/2/2016
Matrix: Groundwater **Date Received:** 2/2/2016

cis-1,3-Dichloropropene	< 2.00	ug/L			2/5/2016 20:50
Dibromochloromethane	< 2.00	ug/L			2/5/2016 20:50
Methylene chloride	< 5.00	ug/L			2/5/2016 20:50
Tetrachloroethene	< 2.00	ug/L			2/5/2016 20:50
trans-1,2-Dichloroethene	< 2.00	ug/L			2/5/2016 20:50
trans-1,3-Dichloropropene	< 2.00	ug/L			2/5/2016 20:50
Trichloroethene	< 2.00	ug/L			2/5/2016 20:50
Trichlorofluoromethane	< 2.00	ug/L			2/5/2016 20:50
Vinyl chloride	< 2.00	ug/L			2/5/2016 20:50

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**104**	81.6 - 118		2/5/2016 20:50
4-Bromofluorobenzene	**93.7**	79.5 - 115		2/5/2016 20:50
Pentafluorobenzene	**96.7**	91.4 - 111		2/5/2016 20:50
Toluene-D8	**102**	89.8 - 108		2/5/2016 20:50

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x29462.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160463

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-EL-W21
Lab Sample ID: 160463-02 **Date Sampled:** 2/2/2016
Matrix: Groundwater **Date Received:** 2/2/2016

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Cadmium	< 0.00500	mg/L		2/5/2016 10:42
Copper	< 0.0250	mg/L		2/5/2016 10:42
Lead	< 0.0100	mg/L		2/5/2016 10:42
Zinc	< 0.0600	mg/L		2/5/2016 10:42

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 2/4/2016
Data File: 020516a

Volatile Organics (Halogenated)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/5/2016 21:13
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/5/2016 21:13
1,1,2-Trichloroethane	< 2.00	ug/L		2/5/2016 21:13
1,1-Dichloroethane	< 2.00	ug/L		2/5/2016 21:13
1,1-Dichloroethene	< 2.00	ug/L		2/5/2016 21:13
1,2-Dichlorobenzene	< 2.00	ug/L		2/5/2016 21:13
1,2-Dichloroethane	< 2.00	ug/L		2/5/2016 21:13
1,2-Dichloropropane	< 2.00	ug/L		2/5/2016 21:13
1,3-Dichlorobenzene	< 2.00	ug/L		2/5/2016 21:13
1,4-Dichlorobenzene	< 2.00	ug/L		2/5/2016 21:13
Bromodichloromethane	< 2.00	ug/L		2/5/2016 21:13
Bromoform	< 5.00	ug/L		2/5/2016 21:13
Bromomethane	< 2.00	ug/L		2/5/2016 21:13
Carbon Tetrachloride	< 2.00	ug/L		2/5/2016 21:13
Chlorobenzene	< 2.00	ug/L		2/5/2016 21:13
Chloroethane	< 2.00	ug/L		2/5/2016 21:13
Chloroform	< 2.00	ug/L		2/5/2016 21:13
Chloromethane	< 2.00	ug/L		2/5/2016 21:13
cis-1,2-Dichloroethene	< 2.00	ug/L		2/5/2016 21:13

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 160463

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-EL-W21
Lab Sample ID: 160463-02 **Date Sampled:** 2/2/2016
Matrix: Groundwater **Date Received:** 2/2/2016

cis-1,3-Dichloropropene	< 2.00	ug/L	2/5/2016	21:13
Dibromochloromethane	< 2.00	ug/L	2/5/2016	21:13
Methylene chloride	< 5.00	ug/L	2/5/2016	21:13
Tetrachloroethene	< 2.00	ug/L	2/5/2016	21:13
trans-1,2-Dichloroethene	< 2.00	ug/L	2/5/2016	21:13
trans-1,3-Dichloropropene	< 2.00	ug/L	2/5/2016	21:13
Trichloroethene	< 2.00	ug/L	2/5/2016	21:13
Trichlorofluoromethane	< 2.00	ug/L	2/5/2016	21:13
Vinyl chloride	< 2.00	ug/L	2/5/2016	21:13

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**105**	81.6 - 118		2/5/2016	21:13
4-Bromofluorobenzene	**94.7**	79.5 - 115		2/5/2016	21:13
Pentafluorobenzene	**97.1**	91.4 - 111		2/5/2016	21:13
Toluene-D8	**99.8**	89.8 - 108		2/5/2016	21:13

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x29463.D

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT:	Stantec	CLIENT:	Stantec	160463
ADDRESS:	61 Commercial St	ADDRESS:		Quotation #:
CITY:	Rochester STATE: NY ZIP: 14614	CITY:	STATE: ZIP:	
PHONE:	413-5266	PHONE:	978-5248	Email:
ATTN:	Mike Staronsky	ATTN:	Ben Haravitch	Mike.Staronsky@stantec.com

PROJECT REFERENCE

Carriage Factory

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

	DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	Halogenated VOCs	Cd, Cu, Pb, Zn								REMARKS	PARADIGM LAB SAMPLE NUMBER	
1	2/2/16	14:10		X	LI-EL-W20	WG	23	X	X									01	
2	2/2/16	14:15	X		LI-FL-W21	WG	23	X	X									02	
3							per Brad	60	2/2/16										
4																			
5																			
6																			
7																			
8																			
9																			
10																	6°C iced 2/2/16 1608 shs		

Turnaround Time		Report Supplements		
Availability contingent upon lab approval; additional fees may apply.				
Standard 5 day	☐	Batch QC	☐	Basic EDD ☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD ☒
Rush 2 day	☐	Category B	☐	
Rush 1 day	☐			
Other please indicate: 10 day	☒	Other please indicate:	☐	Other EDD please indicate: Stantec ☒

Ben Haravitch (Sampled By)	2/2/16	1415
Benjamin Haravitch (Relinquished By)	2/2/16	1523
(Received By)	2/2/16	1523
(Received @ Lab By)	2/2/16	16:28

Total Cost:

P.I.F.

Chain of Custody Supplement

Client: Stantec **Completed by:** Glenn Pezzulo

Lab Project ID: 160463 **Date:** 2/2/16

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	X VOA		X
Comments			
Preservation	X		
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		X metals
Comments			
Sufficient Sample Quantity	X		
Comments			

Appendix D

Data Usability Summary Reports

Data Validation Services

120 Cobble Creek Road P.O. Box 208
North Creek, NY 12853

Phone 518-251-4429
harry@frontiernet.net

September 8, 2015

Laura Best
Stantec
61 Commercial St.
Rochester, NY 14614

RE: Data Usability Summary Report (DUSR)
Validation of the 33 Litchfield Old Carriage Factory Remediation Site Analytical Data
Paradigm SDG No. 151696

Dear Ms. Best:

Review has been completed for the data package generated by Paradigm Environmental Services, Inc that pertains to samples collected between 05/04/15 and 05/05/15 at the 33 Litchfield Carriage Factory site. Twelve aqueous samples and a field duplicate were analyzed for TCL volatiles, total sodium, and TOC. Six of the samples and the field duplicate were also processed for total arsenic, iron, and manganese. Matrix spikes and trip blanks were also processed. Analytical methodologies are those of the USEPA SW846 6010, 8260, and Standard Methods SM5310C. TOC results were subcontracted to Adirondack Environmental Services (AES).

The data package submitted by the laboratory contains full deliverables for validation, but this usability report is generated from review of the QC summary form information, with full review of sample raw data and limited review of associated QC raw data. The reported QC summary forms and sample raw data have been reviewed for application of validation qualifiers, in accordance with the project QAPP, with guidance from the USEPA national and regional validation documents, and in consideration for the specific requirements of the analytical methodology. The following items were reviewed:

* Data Completeness
* Case Narrative
* Custody Documentation/Sample Receipt
* Holding Times
* Surrogate and Internal Standard Recoveries
* Calibration/Trip/Method Blanks
* Laboratory Control Sample (LCS)
* Blind Field Duplicate Correlations
* Instrumental Tunes
* Calibration Standards
* ICP Serial Dilution Evaluations
* ICP Interference Check Samples
* Method Compliance
* Sample Result Verification

The data review includes evaluation of the specific items noted in The NYS DER-10 Appendix B section 2.0 (c). The items listed above that show deficiencies are discussed within the text of this narrative. The laboratory QC forms illustrating the excursions can be found within the laboratory data package.

In summary, most results are usable either as reported or with minor qualification or edit. However, the following item of concern is noted:

- the reporting limits for benzene in aqueous samples are edited upward (by 43%) to reflect processing

The accuracy and precision evaluations, data completeness, representativeness, and the analytical method comparability are acceptable.

Copies of the client sample identifications are attached to this text, and should be reviewed in conjunction with this report. Also attached are the client EDD files, with recommended qualifiers/edits applied in red.

Chain-of-Custody/Sample Receipt

The laboratory chains of custody do not have sufficient fields for relinquish entries, and therefore the final receipt entries are not preceded by relinquish entries.

The custody forms should have fields to indicate preservation. The supplement to the chain-of-custody notes "yes" to indicate that the samples were preserved. Volatiles were processed within the holding time for unpreserved samples. Neither the volatile nor the metals preparation/analysis logs include the pH of the samples.

General

The data deliverables are not in compliance with NYS category B. The Paradigm sample report forms do not include the required information such as volume of sample, dilution factor, preparation date etc.

The method 415.1 was requested on the chain-of-custody for the TOC analyses. The laboratory utilized method SM 5310C.

Field Duplicate Correlations

The field duplicate was collected at location LI-B102-MW-PI12, and shows acceptable correlations.

Volatile Analyses by EPA8260

A reporting limit for benzene in aqueous samples of 0.7 ug/L (prior to the application of the dilution factor) was reported by the laboratory. However, the lowest initial calibration standard concentration is 1ug/L, and detection of that analyte at a lower concentration is not assured. Per the analytical protocol, the reporting limit in the samples has been elevated accordingly. Additionally detections of benzene below the established linear range have been qualified as estimated in value.

The detections of vinyl chloride in LI-RW-1-PI12 and LI-B106-MW-PI12 are qualified tentative in identification and estimated in value due to poor mass spectral identification.

The detections of vinyl chloride in LI-RW-2-PI12, LI-RW-3-PI12, LI-RW-4-PI12, and LI-RW-5-PI12 are edited to reflect non-detection due to very poor mass spectral identification.

The matrix spikes of LI-RW9-PI12 show acceptable recoveries and correlations, with the exception of elevated recoveries for analytes not detected in the samples. No qualification to the data is made.

Calibration standards show acceptable responses, with the exception of those for 1,4-dioxane (low RRF), results for which are qualified as estimated in the samples.

Arsenic, Iron Manganese, and Sodium by EPA 6010

Matrix spikes/duplicate evaluation for arsenic, iron, manganese, and sodium on LI-RW-9-PI12 shows acceptable recoveries and correlations.

No ICP serial dilution was performed, but it is not required in the event that the parent sample does not show outlying recoveries or correlations.

The required low level calibration standard analyses were not reported. Therefore accuracy of reporting limits and low level detections has not been fully evaluated.

The blanks show no contamination affecting sample reported results.

TOC by SM5310C

Review was conducted for method compliance, holding times, transcription, calculations, standard and blank acceptability, accuracy and precision, etc., as applicable to each procedure.

The matrix spike/duplicate evaluation was performed for TOC on LI-RW-9-PI12, and shows acceptable recoveries and correlations.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,

Judy Harry

Att: Validation Qualifier Definitions
Client and Laboratory Sample IDs
Qualified Client EQuis EDDs

VALIDATION DATA QUALIFIER DEFINITIONS

U	The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
J-	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
J+	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
UJ	The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.
NJ	The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present.
EMPC	The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

CLIENT and LABORATORY SAMPLE IDs

SDG# : 1696-01
LAB PROJECT #: 151696
CLIENT: Stantec
PROJECT NAME: Carriage Factory

BATCH COMPLETE: 5/5/2015
DATE: 5/22/2015
DATE DUE: 6/2/2015
PROTOCOL: SW846

LAB.SAMPLE#	FIELD ID	MATRIX	REQUESTED ANALYSIS	DATE SAMPLED	DATE REC'D
151696-01	LI-RW-1-PI12	Water	TCL-VOCs, Metals, TOC	5/5/2015	5/5/2015
151696-02	LI-RW-2-PI12	Water	TCL-VOCs, Metals, TOC	5/5/2015	5/5/2015
151696-03	LI-RW-3-PI12	Water	TCL-VOCs, Metals, TOC	5/5/2015	5/5/2015
151696-04	LI-RW-4-PI12	Water	TCL-VOCs, Metals, TOC	5/4/2015	5/5/2015
151696-05	LI-RW-5-PI12	Water	TCL-VOCs, Metals, TOC	5/4/2015	5/5/2015
151696-06	LI-RW-6-PI12	Water	TCL-VOCs, Metals, TOC	5/4/2015	5/5/2015
151696-07	LI-RW-7-PI12	Water	TCL-VOCs, Metals, TOC	5/4/2015	5/5/2015
151696-08 QC	LI-RW-9-PI12	Water	TCL-VOCs, Metals, TOC	5/4/2015	5/5/2015
151696-09	LI-RW-12-PI12	Water	TCL-VOCs, Metals, TOC	5/4/2015	5/5/2015
151696-10	LI-DUP-PI12	Water	TCL-VOCs, Metals, TOC	5/4/2015	5/5/2015
151696-11	LI-B102-MW-PI12	Water	TCL-VOCs, Metals, TOC	5/4/2015	5/5/2015
151696-12	LI-B106-MW-PI12	Water	TCL-VOCs, Metals, TOC	5/5/2015	5/5/2015
151696-13	LI-B108-MW-PI12	Water	TCL-VOCs, Metals, TOC	5/5/2015	5/5/2015
151696-14	Trip Blank (T-614)	Water	TCL-VOCs	5/4/2015	5/5/2015

Data Validation Services

120 Cobble Creek Road P.O. Box 208
North Creek, NY 12853

Phone 518-251-4429
harry@frontiernet.net

May 22, 2015

Laura Best
Stantec
61 Commercial St.
Rochester, NY 14614

RE: Data Usability Summary Report (DUSR)
Validation of the 33 Litchfield Old Carriage Factory Remediation Site Analytical Data
Paradigm SDG Nos. 144730 and 150382

Dear Ms. Best:

Review has been completed for the data packages generated by Paradigm Environmental Services, Inc that pertain to samples collected between 10/28/14 and 02/04/15 at the 33 Litchfield Carriage Factory site. Twenty-four aqueous samples and two field duplicates were analyzed for TCL volatiles, total sodium, and TOC Six of the samples and the field duplicates were also processed for total arsenic, iron, and manganese. Matrix spikes and trip blanks were also processed. Analytical methodologies are those of the USEPA SW846 6010, 8260, and Standard Methods SM5310C. TOC results were subcontracted to Adirondack Environmental Services (AES).

The data package submitted by the laboratory contains full deliverables for validation, but this usability report is generated from review of the QC summary form information, with full review of sample raw data and limited review of associated QC raw data. The reported QC summary forms and sample raw data have been reviewed for application of validation qualifiers, in accordance with the project QAPP, with guidance from the USEPA national and regional validation documents, and in consideration for the specific requirements of the analytical methodology. The following items were reviewed:

* Data Completeness
* Case Narrative
* Custody Documentation/Sample Receipt
* Holding Times
* Surrogate and Internal Standard Recoveries
* Calibration/Trip/Method Blanks
* Laboratory Control Sample (LCS)
* Blind Field Duplicate Correlations
* Instrumental Tunes
* Calibration Standards
* ICP Serial Dilution Evaluations
* ICP Interference Check Samples
* Method Compliance
* Sample Result Verification

The data review includes evaluation of the specific items noted in The NYS DER-10 Appendix B section 2.0 (c). The items listed above that show deficiencies are discussed within the text of this narrative. The laboratory QC forms illustrating the excursions can be found within the laboratory data package.

In summary, most results are usable either as reported or with minor qualification or edit. However, the following item of concern is noted:

- the reporting limits for benzene in aqueous samples are edited upward (by 43%) to reflect processing

The accuracy and precision evaluations, data completeness, representativeness, and the analytical method comparability are acceptable.

Copies of the client sample identifications are attached to this text, and should be reviewed in conjunction with this report. Also attached are the client EDD files, with recommended qualifiers/edits applied in red.

Chain-of-Custody/Sample Receipt

The laboratory chains of custody do not have sufficient fields for relinquish entries, and therefore the final receipt entries are not preceded by relinquish entries.

The custody forms should have fields to indicate preservation. The supplement to the chain-of-custody notes "yes" to indicate that the samples were preserved. Volatiles were processed within the holding time for unpreserved samples. Neither the volatile nor the metals preparation/analysis logs include the pH of the samples.

General

The data deliverables are not in compliance with NYS category B. The Paradigm sample report forms do not include the required information such as volume of sample, dilution factor, preparation date etc.

The Paradigm data packages do not provide a method summary nor are the specific methods mentioned anywhere in the data packages.

The method 415.1 was requested on the chain-of-custody for the TOC analyses. The laboratory utilized method SM 5310C.

Field Duplicate Correlations

Aqueous field duplicates were collected at locations LI-RW-9-PI6 and LI-B102-MW-PI9, and show acceptable correlations.

Volatile Analyses by EPA8260

A reporting limit for benzene in aqueous samples of 0.7 ug/L (prior to the application of the dilution factor) was reported by the laboratory. However, the lowest initial calibration standard concentration is 1ug/L, and detection of that analyte at a lower concentration is not assured. Per the analytical protocol, the reporting limit in the samples has been elevated accordingly. Additionally detections of benzene below the established linear range have been qualified as estimated in value.

The following detections are qualified tentative in identification and estimated in value due to poor mass spectral identification:

- vinyl chloride in LI-RW2-PI6, LI-RW7-PI6, LI-RW-2-PI9, LI-RW-3-PI9, LI-RW-5-PI9, LI-RW-5-PI9, LI-RW-12-PI9, and LI-B102-MW-PI9
- methyl acetate in LI-RW2-PI6

The detection of LI-RW-1-PI9 are qualified tentative in identification and estimated in value due to poor mass spectral identification:

The matrix spikes of LI-B102-MW-PI6 and LI-B108-MW-PI9 show acceptable recoveries and correlations, with the exception of one slightly low recovery for bromomethane. No qualification to the data is made.

Calibration standards show acceptable responses, with the following exceptions, results for which are qualified as estimated in the indicated samples:

- 2-butanone (low RRFs) in al project samples
- acetone (low RRFs) in the samples reported in SDG 150382

The date of analysis for Trip Blank T-570 entered onto the tune QC summary Form 5 is incorrect.

Arsenic, Iron Manganese, and Sodium by EPA 6010

Matrix spikes/duplicate evaluations for arsenic, iron, manganese, and sodium on LI-B102-MW-PI6 and LI-B108-MW-PI9 show acceptable recoveries and correlations.

An ICP serial dilution evaluation was performed on LI-B102-MW-PI6, with correlations falling within validation guidelines.

The required low level calibration standard analyses were not reported with the data reported in SDG 144730. Therefore accuracy of reporting limits and low level detections has not been fully evaluated.

The blanks show no contamination affecting sample reported results.

TOC by SM5310C

Review was conducted for method compliance, holding times, transcription, calculations, standard and blank acceptability, accuracy and precision, etc., as applicable to each procedure.

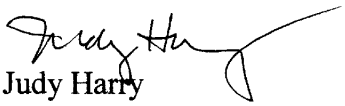
Matrix spike/duplicate evaluations were performed for TOC on LI-B102-MW-PI6 and LI-B108-MW-PI9. That for the former shows acceptable recoveries and correlations. The matrix spike of the latter produced a low recovery (50%), with a marginally elevated correlation. Therefore, the result TOC in LI-B108-MW-PI9 has been qualified as estimated.

Due to outlying recoveries of associated low concentration standards, the following TOC results are qualified as estimated:

- LI-B106-MW-PI6, LI-RW9-PI6, and LI-DUP-PI6 have a low bias (51% recovery)
- LI-RW5-PI9, LI-RW7-PI9, LI-RW9-PI9, and LI-B106-MW-PI9 have a high bias (186%)

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,



Judy Harry

Att: Validation Qualifier Definitions
Client and Laboratory Sample IDs
Qualified Client EQuis EDDs

VALIDATION DATA QUALIFIER DEFINITIONS

U	The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
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NJ	The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present.
EMPC	The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

CLIENT and LABORATORY SAMPLE IDs

SDG# : 4730-01
LAB PROJECT #: 144730
CLIENT: Stantec
PROJECT NAME: Carriage Factory

BATCH COMPLETE: 10/30/2014
DATE: 10/31/2014
DATE DUE: 12/1/2014
PROTOCOL: SW846

LAB.SAMPLE#	FIELD ID	MATRIX	REQUESTED ANALYSIS	DATE SAMPLED	DATE REC'D
144730-01	LI-RW1-PI6	Water	VOAs, Mets, TOC	10/29/2014	10/30/2014
144730-02	LI-RW2-PI6	Water	VOAs, Mets, TOC	10/29/2014	10/30/2014
144730-03	LI-RW3-PI6	Water	VOAs, Mets, TOC	10/29/2014	10/30/2014
144730-04	LI-RW4-PI6	Water	VOAs, Mets, TOC	10/29/2014	10/30/2014
144730-05	LI-RW5-PI6	Water	VOAs, Mets, TOC	10/28/2014	10/30/2014
144730-06	LI-RW6-PI6	Water	VOAs, Mets, TOC	10/28/2014	10/30/2014
144730-07	LI-RW7-PI6	Water	VOAs, Mets, TOC	10/28/2014	10/30/2014
144730-08	LI-RW9-PI6	Water	VOAs, Mets, TOC	10/28/2014	10/30/2014
144730-09	LI-RW12-PI6	Water	VOAs, Mets, TOC	10/29/2014	10/30/2014
144730-10 QC	LI-B102-MW-PI6	Water	VOAs, Mets, TOC	10/28/2014	10/30/2014
144730-11	LI-B106-MW-PI6	Water	VOAs, Mets, TOC	10/28/2014	10/30/2014
144730-12	LI-B108-MW-PI6	Water	VOAs, Mets, TOC	10/29/2014	10/30/2014
144730-13	LI-DUP-PI6	Water	VOAs, Mets, TOC	10/28/2014	10/30/2014
144730-14	TRIP BLANK (T-570)	Water	VOAs	10/28/2014	10/30/2014

SDG# : 0382-01
LAB PROJECT #: 150382
CLIENT: Stantec
PROJECT NAME: Carriage Factory

BATCH COMPLETE: 2/19/2015
DATE: 2/19/2015
DATE DUE: 3/4/2015
PROTOCOL: SW846

LAB.SAMPLE#	FIELD ID	MATRIX	REQUESTED ANALYSIS	DATE SAMPLED	DATE REC'D
150382-01	LI-RW-1-PI9	Water	VOAs, Mets, TOC	2/3/2015	2/4/2015
150382-02	LI-RW-2-PI9	Water	VOAs, Mets, TOC	2/3/2015	2/4/2015
150382-03	LI-RW-3-PI9	Water	VOAs, Mets, TOC	2/3/2015	2/4/2015
150382-04	LI-RW-5-PI9	Water	VOAs, Mets, TOC	2/3/2015	2/4/2015
150382-05	LI-B102-MW-PI9	Water	VOAs, Mets, TOC	2/3/2015	2/4/2015
150382-06	LI-B106-MW-PI9	Water	VOAs, Mets, TOC	2/3/2015	2/4/2015
150382-07 QC	LI-B108-MW-PI9	Water	VOAs, Mets, TOC	2/3/2015	2/4/2015
150382-08	LI-RW-12-PI9	Water	VOAs, Mets, TOC	2/4/2015	2/4/2015
150382-09	LI-RW-6-PI9	Water	VOAs, Mets, TOC	2/4/2015	2/4/2015
150382-10	LI-RW-7-PI9	Water	VOAs, Mets, TOC	2/4/2015	2/4/2015
150382-11	LI-RW-4-PI9	Water	VOAs, Mets, TOC	2/4/2015	2/4/2015
150382-12	LI-RW-9-PI9	Water	VOAs, Mets, TOC	2/4/2015	2/4/2015
150382-13	LI-DUP-PI9	Water	VOAs, Mets, TOC	2/3/2015	2/4/2015
150382-14	LI-TRIP BLANK-P19 T-586	Water	VOAs	2/3/2015	2/4/2015

Data Validation Services

120 Cobble Creek Road P.O. Box 208
North Creek, NY 12853

Phone 518-251-4429
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April 14, 2016

Ben Haravitch
Stantec
61 Commercial St.
Rochester, NY 14614

RE: Data Usability Summary Report (DUSR)
Validation of the 33 Litchfield Old Carriage Factory Remediation Site Analytical Data
Paradigm SDG Nos. 153411 and 160464

Dear Mr. Haravitch:

Review has been completed for the data packages generated by Paradigm Environmental Services, Inc that pertain to samples collected between 08/12/15, 08/13/15, 02/01/16, and 02/02/16 at the 33 Litchfield Carriage Factory site. Twenty-four aqueous samples and two field duplicates were analyzed for TCL volatiles, total sodium, and TOC. Six of the samples and one field duplicate were also processed for total arsenic, iron, and manganese. Matrix spikes and trip blanks were also processed. Analytical methodologies are those of the USEPA SW846 6010, 8260, and Standard Methods SM5310C. TOC results were subcontracted to Adirondack Environmental Services (AES) and Alpha Analytical.

The data package submitted by the laboratory contains full deliverables for validation, but this usability report is generated from review of the QC summary form information, with full review of sample raw data and limited review of associated QC raw data. The reported QC summary forms and sample raw data have been reviewed for application of validation qualifiers, in accordance with the project QAPP, with guidance from the USEPA national and regional validation documents, and in consideration for the specific requirements of the analytical methodology. The following items were reviewed:

* Data Completeness
* Case Narrative
* Custody Documentation/Sample Receipt
* Holding Times
* Surrogate and Internal Standard Recoveries
* Calibration/Trip/Method Blanks
* Laboratory Control Sample (LCS)
* Blind Field Duplicate Correlations
* Instrumental Tunes
* Calibration Standards
* ICP Interference Check Samples
* Method Compliance
* Sample Result Verification

The data review includes evaluation of the specific items noted in The NYS DER-10 Appendix B section 2.0 (c). The items listed above that show deficiencies are discussed within the text of this narrative. The laboratory QC forms illustrating the excursions can be found within the laboratory data package.

In summary, most results are usable either as reported or with minor qualification or edit. However, the results for one volatile analyte are rejected due to poor instrument response.

Accuracy, precision, data completeness, sensitivity, representativeness, and the analytical method comparability are acceptable.

Copies of the client sample identifications are attached to this text, and should be reviewed in conjunction with this report. Also attached are the client EDD files, with recommended qualifiers/edits applied in red.

Chain-of-Custody/Sample Receipt

The laboratory chains of custody do not have sufficient fields for relinquish entries, and therefore the final receipt entries are not preceded by relinquish entries.

The custody forms should have fields to indicate preservation. Neither the volatile nor the metals preparation/analysis logs include the pH of the samples.

General

The data deliverables are not in compliance with NYS category B. The Paradigm sample report forms do not include the required information such as volume of sample, dilution factor, preparation date, etc.

The method 415.1 was requested on the chain-of-custody for the TOC analyses. The laboratories utilized method MW5310C

Field Duplicate Correlations

Aqueous field duplicates were collected at locations LI-B102-MW-PI15 and LI-RW-12-PS3, and show acceptable correlations.

Volatile Analyses by EPA8260C

All except one of the samples (LI-RW-1-PI15) collected in August exhibited at least one surrogate recovery with a recovery below the laboratory acceptance ranges. The ranges are quite narrow, and the trip blank also showed a low surrogate d8-toluene recovery of 88.5%. Because the trip blank has no matrix effect, the outlying recovery is indicative of a processing anomaly. LI-RW-2-PI15 also exhibits only a minor outlying d8-toluene recovery. Results for all of the samples collected in August other than the two mentioned above have been qualified as estimated, with a possible low bias because of low surrogate standard recoveries. The bias is not expected to be significant, as the recoveries are within typical industry ranges.

The trip blank from February was processed beyond the allowable holding time, and those results are therefore qualified as estimated in value, with a low bias.

The detection of 2-butanone in LI-RW-6-PS3 is edited to non-detection due to very poor mass spectral quality.

The matrix spikes of LI-RW-9-PI15 and LI-B108-MW-PS3 show acceptable recoveries and correlations, with the exception of one slightly low recovery for bromomethane and elevated recoveries for analytes that were not detected in the parent sample. Although required of the protocol, not all of the target analytes were evaluated. No qualification to the data is made.

Due to low responses inherent in the methodology, the results for 1,4-dioxane are rejected and not usable. Other calibration standards show acceptable responses, with the exception that acetone detections have been qualified as estimated due to outlying linearity (60%RSD).

Samples collected in August were analyzed after the holding time for unpreserved samples but within the holding time for preserved samples. The pHs of those samples at the time of analysis have not been confirmed, but the samples were collected in certified preserved vials and no qualification is made to the data.

Arsenic, Iron, Manganese, and Sodium by EPA 6010

Matrix spikes/duplicate evaluations for arsenic, iron, manganese, and sodium on LI-RW-PI15 show acceptable recoveries and correlations. Due to the lack of accuracy and precision outliers, no ICP serial dilution evaluation was performed.

The required low level calibration standard analyses were not performed. Therefore accuracy of reporting limits and low level detections has not been fully evaluated.

TOC by SM5310C

Review was conducted for method compliance, holding times, transcription, calculations, standard and blank acceptability, accuracy and precision, etc., as applicable to each procedure.

Matrix spike/duplicate evaluations were performed for TOC on LI-RW-9-PI15 and LI-B108-MW-PS3, and show acceptable recoveries and correlations.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,

Judy Harry

Judy Harry

Att: Validation Qualifier Definitions
Client and Laboratory Sample IDs
Qualified Client EQuIS EDDs

VALIDATION DATA QUALIFIER DEFINITIONS

U	The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
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NJ	The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present.
EMPC	The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

Client and Laboratory Sample IDs

SDG# : 3411-01
LAB PROJECT #: 153411
CLIENT: Stantec
PROJECT NAME: Carriage Factory

BATCH COMPLETE: 8/13/2015
DATE: 8/31/2015
DATE DUE: 9/10/2015
PROTOCOL: SW846

LAB.SAMPLE#	FIELD ID	MATRIX	REQUESTED ANALYSIS	DATE SAMPLED	DATE REC'D
153411-01	LI-RW-1-PI15	Water	TCL-VOCs, Metals, TOC	8/12/2015	8/13/2015
153411-02	LI-RW-2-PI15	Water	TCL-VOCs, Metals, TOC	8/12/2015	8/13/2015
153411-03	LI-RW-3-PI15	Water	TCL-VOCs, Metals, TOC	8/12/2015	8/13/2015
153411-04	LI-B108-MW-PI15	Water	TCL-VOCs, Metals, TOC	8/12/2015	8/13/2015
153411-05	LI-B106-MW-PI15	Water	TCL-VOCs, Metals, TOC	8/12/2015	8/13/2015
153411-06	LI-B102-MW-PI15	Water	TCL-VOCs, Metals, TOC	8/12/2015	8/13/2015
153411-07	LI-DUP-PI15	Water	TCL-VOCs, Metals, TOC	8/12/2015	8/13/2015
153411-08	LI-RW-12-PI15	Water	TCL-VOCs, Metals, TOC	8/12/2015	8/13/2015
153411-09	LI-RW-5-PI15	Water	TCL-VOCs, Metals, TOC	8/13/2015	8/13/2015
153411-10	LI-RW-6-PI15	Water	TCL-VOCs, Metals, TOC	8/13/2015	8/13/2015
153411-11	LI-RW-7-PI15	Water	TCL-VOCs, Metals, TOC	8/13/2015	8/13/2015
153411-12 QC	LI-RW-9-PI15	Water	TCL-VOCs, Metals, TOC	8/13/2015	8/13/2015
153411-13	LI-RW-4-PI15	Water	TCL-VOCs, Metals, TOC	8/13/2015	8/13/2015
153411-14	Trip Blank (T-644)	Water	TCL-VOCs	8/12/2015	8/13/2015

SDG# : 0464-01
LAB PROJECT #: 160464
CLIENT: Stantec
PROJECT NAME: Carriage Factory

BATCH COMPLETE: 2/2/2016
DATE DUE: 3/1/2016
PROTOCOL: SW846

LAB.SAMPLE#	FIELD ID	MATRIX	REQUESTED ANALYSIS	DATE SAMPLED	DATE REC'D
160464-01	LI-RW-12-PS3	GW	VOA, TOC	2/1/2016	2/2/2016
160464-02	LI-RW-6-PS3	GW	VOA, TOC	2/1/2016	2/2/2016
160464-03	LI-RW-7-PS3	GW	VOA, TOC	2/1/2016	2/2/2016
160464-04	LI-RW-9-PS3	GW	VOA, TOC	2/1/2016	2/2/2016
160464-05	LI-RW-5-PS3	GW	VOA, TOC	2/1/2016	2/2/2016
160464-06	LI-B102-MW-PS3	GW	VOA, TOC	2/1/2016	2/2/2016
160464-07	LI-RW-4-PS3	GW	VOA, TOC	2/1/2016	2/2/2016
160464-08 QC	LI-B108-MW-PS3	GW	VOA, TOC	2/2/2016	2/2/2016
160464-09	LI-RW-3-PS3	GW	VOA, TOC	2/2/2016	2/2/2016
160464-10	LI-RW-2-PS3	GW	VOA, TOC	2/2/2016	2/2/2016
160464-11	LI-RW-1-PS3	GW	VOA, TOC	2/2/2016	2/2/2016
160464-12	LI-B106-MW-PS3	GW	VOA, TOC	2/2/2016	2/2/2016
160464-13	LI-DUP-PS3	GW	VOA, TOC	2/1/2016	2/2/2016
160464-14	Trip Blank T-691	Water	VOA	2/1/2016	2/2/2016