

Periodic Review Report NYSDEC Site No. B00016

Reporting Period: October 8, 2016 to October 8, 2017

Location:

Former Photech Imaging Site
NYSDEC ERP Site No. B00016
1000 Driving Park Avenue
Rochester, New York

Prepared For:

City of Rochester Division of Environmental Quality
30 Church Street
Room 300B
Rochester, New York 14614

LaBella Project No. 2151305

November 7, 2017

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1.0 INTRODUCTION & BACKGROUND

1.1 Summary

LaBella Associates, D.P.C. (LaBella) is pleased to submit this Periodic Review Report on behalf of the City of Rochester for the Former Photech Imaging site located at 1000 Driving Park Avenue, City of Rochester, Monroe County, New York. The site is enrolled in the New York State (NYS) Environmental Restoration Program (ERP), (Site Code B00016). A site Location Map is included as Figure 1. LaBella was retained by the City of Rochester to assist with the monitoring and reporting requirements in accordance with the Site Management Plan (SMP).

Based upon the results of site investigation activities, the types of contamination at the site that were identified to require remediation included:

- Polycyclic aromatic hydrocarbons (PAHs);
- Heavy metals including cadmium and silver; and,
- Volatile organic compounds (VOCs).

Remedial actions performed at the site in accordance with the March 2006 Record of Decision include:

- Asbestos abatement, building and equipment decontamination, and building demolition (completed);
- A design-phase investigation to delineate the extent of soil contamination, and to confirm the extent of groundwater contamination (completed);
- Removal of the silver recovery system (completed);
- Excavation and off-site disposal of contaminated soils exceeding commercial soil cleanup objectives (completed);
- Application of Daramend in Area of Concern 2 and 7 (completed);
- Removal of nearly all on-site utilities (completed);
- Development and implementation of a SMP for long term management of remaining contamination as required by the Environmental Easement (completed);
- Execution and recording of an Environmental Easement to restrict land use and prevent future exposure to any contamination remaining at the Site (completed);
- Inclusion in the City of Rochester Building Information System (BIS) (completed);
- Periodic certification of the institutional and engineering controls (on-going); and,
- Implementation of a long-term groundwater monitoring plan (on-going).

The site was previously remediated under the NYS ERP administered by the New York State Department of Environmental Conservation (NYSDEC) and in accordance with State Assistance Contract (SAC) #C303768.

A SMP was prepared for the Site to manage remaining contamination until the Deed Restriction is extinguished. In accordance with the SMP and the requirements in NYSDEC Division of Environmental Restoration (DER)-10 Technical Guidance for Site Investigation and Remediation, dated May, 2010, and the guidelines provided by NYSDEC, an annual inspection was conducted of all remedial components installed at the Site and the four (4) groundwater monitoring wells were sampled. The site-wide inspection was performed on September 19, 2017.

1.2 Effectiveness of the Remedial Program

Progress made during the reporting period toward meeting the remedial objectives for the site include continued monitoring of groundwater and maintenance of the institutional and engineering controls in accordance with the SMP. Monitoring data from the work completed to date shows that the remedial program is currently meeting the remedial objectives for the site.

1.3 Compliance

No areas were identified as being currently out of compliance with the SMP requirements. As such, no steps are currently deemed necessary to correct areas of non-compliance.

1.4 Groundwater Monitoring Well Decommissioning

Eight (8) of the twelve (12) post remedial groundwater monitoring wells were decommissioned at the site in March 2017 in accordance with NYSDEC Commissioner Policy 43 (CP-43) Groundwater Well Decommissioning Policy and with NYSDEC Approval. The wells decommissioned included: RMW-1, RMW-2, RMW-5, RMW-6, RMW-7, RMW-8, Well-04, and Well-07. A copy of the 7 day notification letter to the NYSDEC and the well decommissioning record for each well is included in Appendix 1.

1.5 Recommendations

Since residual contamination remains at the site, applicable site management requirements should be continued. The City of Rochester constructed a new road at the site as discussed in Section 4.0 below. All notifications and other SMP conditions were adhered to while implementing the work and the modifications to the site will be provided in an updated SMP.

2.0 SITE OVERVIEW

The Former Photech Imaging site is located in an M-1 Industrial District in the City of Rochester, Monroe County, New York. The site is situated on an approximately 12.5-acre area parcel and was originally developed in 1948 for manufacturing photographic film and paper. Several different companies have owned and operated the facility for photographic paper and film production since its construction in 1948. The most recent owner, Photech Imaging Systems, Inc., ceased operations and abandoned the facility in 1991. Large amounts of chemicals, wastes, and various supplies and materials were left “as-is” on-site when the facility was abandoned. In 1994, the NYSDEC and the United States Environmental Protection Agency (USEPA) performed a bulk waste and chemical removal action at the site. This work successfully removed bulk chemicals from the facility; however, tanks were not certified as “clean”; small containers of chemicals were left in some of the buildings; and residual chemicals remained in some of the process vessels and piping.

Historically a total of 15 former buildings totaling approximately 108,000 square feet of space occupied the site. The buildings were vandalized following abandonment, with ceilings, walls, piping and equipment severely damaged. As a result, asbestos and chemical residues were distributed throughout many interior areas of the buildings. Additionally, the roofs failed on several of the buildings and there was a fire in 2004 in the former warehouse portion of the facility.

During 2010, the City of Rochester demolished all of the site buildings including the sub grade tunnels. Prior to demolition, asbestos containing materials and residual chemicals inside the buildings were removed and disposed of. In addition, suspect building materials (e.g. concrete floors) were assessed for chemicals of concern and remediated prior to demolition.

During Site building demolition activities remedial actions were performed to remove soils impacted with Polycyclic Aromatic Hydrocarbon (PAH) Semivolatile Organic Compounds (SVOCs) along the eastern side and a drywell along the western side of Building 11 in order to prevent contaminated materials from entering demolition excavations. A total of 601 tons of contaminated soil was removed from AOC 1A and a total of 95 tons of contaminated soil was removed from AOC 1B and transported offsite for disposal, as a regulated solid waste. A source removal action was performed during building demolition to remove source area soils associated with two (2) former sumps in buildings formerly located within AOC 7. A total of 170 tons of cadmium-impacted soil was removed from this area for offsite disposal.

Following building demolition activities, a design phase investigation was completed to delineate the extent of soil contamination and confirm the extent of groundwater contamination. The design phase investigation data was input into a Geographical Information System (GIS) spatial database and used to develop interpolation models illustrating the areal extent of impacted soil at concentrations above the NYSDEC Part 375 commercial use soil cleanup objectives. This information was utilized to guide remedial actions to remove the silver recovery system, and to excavate and dispose of contaminated soils exceeding the commercial use soil cleanup objectives. Following excavation of contaminated soil, Daramend was applied to excavations AOC 2 and AOC 7 to further reduce the contaminant mass at the site. Additionally nearly all on-site utilities were removed.

3.0 MONITORING PLAN COMPLIANCE AND REMEDY EVALUATION

3.1 *Monitoring Plan Components*

Monitoring and laboratory analyses were completed in accordance with the SMP. A summary of the routine monitoring and analyses is provided in the table below

Monitoring Program	Frequency	Monitored	Matrix	Analysis
Groundwater	Annually until otherwise approved by NYSDEC and NYSDOH	RMW-3, RMW-4, RMW-9, and Well-09	Groundwater	TCL VOCs & RCRA Metals
Site Cover / Property Use	Annually until otherwise approved by NYSDEC and NYSDOH	Site Cover Condition and Property Use	Not Applicable	Not Applicable

TCL VOCs denotes Target Compound List Volatile Organic Compounds, RCRA denotes Resource Conservation and Recovery Act

3.2 Groundwater Monitoring Data

Groundwater monitoring was performed once during the reporting period using low flow sampling methodology in accordance with the SMP. Post-remediation groundwater sampling has included nine (9) rounds of sampling in addition to the original two (2) rounds of sampling included in the Final Engineering Report (FER). The Post-remediation groundwater sampling events have occurred on the following dates:

- June 2012
- September 2012
- April 2013
- September 2013
- February 2014
- June 2014
- October 2015
- September 2016
- September 2017

The following is a summary of groundwater sampling results for each of the four (4) groundwater monitoring wells at the site. The results are shown on Figure 2 and summarized on Table 1. The laboratory analytical report is included as Appendix 2 and the Data Usability Summary Report is included as Appendix 3. Low flow groundwater sampling logs are included in Appendix 4.

RMW-3

Trichloroethene was detected above the laboratory method detection limit (MDL) and the NYSDEC Part 703 Groundwater Standard during the September 2017 sampling event. Trichloroethene has been detected in well RMW-3 above the NYSDEC Part 703 Groundwater Standards during the nine (9) post-remediation groundwater sampling events.

No metals were detected at concentrations that exceeded the PART 703 Groundwater Standards during the September 2017 groundwater sampling event. Metals have not been detected in well RMW-3 above the NYSDEC Part 703 Groundwater Standards during the nine (9) post-remediation groundwater sampling events.

RMW-4

One (1) VOC, naphthalene was detected at a concentration of 15.4 micrograms per liter (µg/l) that exceeded the PART 703 Groundwater Standards during the September 2017 groundwater sampling event.

No metals were detected at concentrations that exceeded the Part 703 Groundwater Standards during the September 2017 groundwater sampling event. Metals have not been detected in well RMW-4 above the NYSDEC Part 703 Groundwater Standards during four (4) most recent post-remediation groundwater sampling events.

RMW-9

Three (3) VOCs (1,1-Dichloroethane, cis-1,2-Dichloroethene, Vinyl Chloride) were detected at concentrations that exceed the NYSDEC Part 703 Groundwater Standards during the September 2017 sampling event. These three (3) VOCs have been reported at concentrations that exceed the NYSDEC Part 703 Groundwater Standards during the nine (9) post-remediation groundwater sampling events, and the concentrations reported for the September 2017 were similar to previous sampling events.

No metals were detected at concentrations that exceeded the NYSDEC Part 703 Groundwater Standards during the September 2017 groundwater sampling event. Metals have not been detected in well RMW-9 above the NYSDEC Part 703 Groundwater Standards during the nine (9) post-remediation groundwater sampling events.

Well-09

Two (2) VOCs (1,1-Dichloroethane and 1,1-Dichloroethene) were detected at concentrations above the laboratory MDLs, however, only 1,1-Dichloroethane slightly exceeded the NYSDEC Part 703 Groundwater Standard during the September 2017 sampling event. 1,1-Dichloroethane has been reported at concentrations greater than the NYSDEC Part 703 Groundwater Standard during the nine (9) post-remediation sampling events.

No metals were detected at concentrations that exceeded the NYSDEC Part 703 Groundwater Standards during the September 2017 groundwater sampling event. Metals have not been detected in well Well-09 above the NYSDEC Part 703 Groundwater Standards during four (4) most recent post-remediation groundwater sampling events.

3.3 Site Cover System

A site-wide inspection of the cover system was conducted on September 19, 2017 to assess the general condition of the site as well as conditions of the cover system. Based on the results of the general site condition inspection, the site remains undeveloped, and the soil covered areas appear to remain intact and covered with vegetation. Areas disturbed during the recent road construction have been hydro-seeded. A copy of the site inspection form and photographs of the site during the inspection are included in Appendix 5.

3.4 Groundwater Monitoring Conclusions

There were no deficiencies to the groundwater monitoring plan. Contaminants of concern identified in groundwater previously were generally at similar levels than reported during previous sampling events. The following conclusions are made regarding the sampling results:

- Naphthalene was detected in groundwater sample RMW-4 at a concentration of 15.4 µg/l. Naphthalene was not previously detected in well RMW-4 during the previous sampling events and will continue to be monitored during future events.
- As stated in the Final Engineering Report, concentrations of Trichloroethene, 1,1-Dichloroethene, 1,1—Dichloroethane, cis-1,2—Dichloroethene, and Vinyl Chloride appear to be associated with off-site migration from the Delphi Automotive Systems Site (NYSDEC Site No. 828064);
- The remedy is effective based on the groundwater sampling results.

4.0 NEW ROAD CONSTRUCTION

A new road was constructed at the site that included the following work:

- A new road was constructed from Driving Park Avenue that ends in a cul-de-sac at the approximate center of the Site. A Record Drawing of the new road is included in Appendix 6. Prior to the new road construction project, the City of Rochester coordinated with Todd Caffoe (NYSDEC) and the Contractor, and provided a change in use notification to the NYSDEC regarding the new road. A copy of the change in use notification is included in Appendix 6.
- The Monroe County Health Department issued water main permit #DOH348 for the site.

- Materials summarized in Table 4.0 below were imported to the site as part of the road construction project. All materials were imported in accordance with NYSDEC Division of Environmental Remediation 10 (DER-10) Technical Guidance for Site Investigation and Remediation (available online at <http://dec.ny.gov/regulations/67386.html>) and were approved by Todd Caffoe of the NYSDEC prior to use. A copy of the NYSDEC approval is included in Appendix 7. The quantity of the imported material was documented by the Construction Inspector/Resident Engineer (Fisher Associates) and a record of the total quantity of materials placed is included in Appendix 7.
- The site was graded to alter surface water drainage. Following grading the site was hydro-seeded. A Record Drawing of the site grading is included in Appendix 6.
- A portion of the site grading was completed within the "Excavation Management Required" (EMR) area conducted periodically between April 21, 2017 and June 2, 2017. The EMR area is shown on Figure 4. All work within the EMR area was monitored in accordance with the SMP and associated Community Air Monitoring Plan (CAMP) for dust and volatile organic compounds (VOCs). Copies of the CAMP monitoring logs associated with work in the EMR area are included in Appendix 8. No exceedances for VOCs or dust were measured during work within the EMR area. Please note that elevated readings of dust was measured on 5/22/2017, however, the elevated readings were due to background concentrations.
- As part of the grading work conducted in EMR area approximately 8 cubic yards of tar-like substance and approximately 1 cubic yard of cinders were encountered at the locations shown on Figure 4. These materials were managed in accordance with the SMP, approved by Todd Caffoe of the NYSDEC, and were placed in the EMR area under a minimum of 2 ft of clean soil at the location shown on Figure 4.
- Two existing groundwater monitoring wells (i.e. RMW-4 and Well-09) were modified due to the change in grade at the site. Specifically, the stand-up protective cover and well casing for RMW-4 were lowered; and for well Well-09, the flush mount well cover was removed, an additional section of well casing was installed to raise the height of the well, and a stand-up protective well casing was installed. Subsequent to the modifications, the elevation of each well casing was measured by a licensed surveyor. The new elevations of the well casings are provided on Figure 3.

The quantity of imported materials placed at the site as part of the new road construction project is summarized in Table 4.0 below.

TABLE 4.0
Imported Materials Summary

Item No.	Item	Source	Quantity Imported	General Use & Location
203.03	Recycled Concrete Embankment In-Place	Ramsey	11,665 CY	Storm Pipe Backfill
203.07	Select Granular Fill (CR2)	Dolomite - Ogden	565.70 CY	Watermain Backfill
203.25	Sand Bedding Material	Dolomite - Gates	275.3 CY	Watermain Bedding
304.11	Subbase Course (Type 1)	Dolomite - Gates	563.6 CY	Subbase
304.12	Subbase Course (Type 2)	Dolomite - Gates	476.8 CY	Subbase
402.096202	Asphalt Top Course	Dolomite - Gates	274.58 Ton	Road Paving
402.198902	Asphalt Binder Course	Dolomite - Gates	408.90 Ton	Road Paving
402.378902	Asphalt Base Course	Dolomite - Gates	1,224.47 Ton	Road Paving
605.0901	Underdrain Filter Type 1	Dolomite - Gates	95 CY	Roadway Underdrain
608.0101	Concrete for Sidewalks	Manitou	100.80 CY	Sidewalk
623.11	Crushed Gravel	Dolomite - Gates	387 CY	Subbase/Backfill

Note: CY = Cubic Yard

5.0 IC/EC COMPLIANCE

5.1 Institutional Controls

The following Institutional Controls are included in the SMP for the Site:

- Compliance with the Environmental Easement and the SMP.
- All Engineering Controls must be operated and maintained in accordance with the SMP.
- Groundwater and other environmental or public health monitoring must be performed as defined in the SMP.
- Inclusion in the City of Rochester Building Information System flagging system as a local governmental institutional control (www.cityofrochester.gov/EICproperties).

The site-wide inspection determined that Institutional Controls have been complied with including compliance with the Environmental Easement and the SMP. There are no new conclusions or recommendations for change of Institutional Controls at this time.

5.2 Engineering Controls

The only Engineering Control at the site is the requirement that any buildings shall have Sub-slab Depressurization System (SSDS). No new buildings have been constructed at the Site, thus no SSDS are present at the site at this time.

The EC/IC Certification statement and forms are included as Appendix 9.

6.0 OPERATION & MAINTENANCE COMPLIANCE REPORT

There are currently no active Engineering Controls at the site so operation and maintenance activities have not been completed at the site. In addition the site cover system appears intact and no maintenance was initiated. A new road and associated appurtenances was constructed at the site in 2017 and work was completed in July 2017. These site modifications are summarized and documented in Section 4.0 and will be provided in an updated SMP.

7.0 CONCLUSIONS AND RECOMMENDATIONS

7.1 *Compliance*

The requirements dictated in the SMP regarding IC/EC's and the Monitoring Plan were met during the reporting period.

7.2 *Performance and Effectiveness of Remedy*

An evaluation of the components of the SMP during this reporting period indicates that, as of the end date of this report, the IC/EC controls were protective of human health and the environment. The monitoring plan sufficiently monitored the performance of the remedy.

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PHOTECH PRR.DOCX

FIGURES

SITE LOCATION MAP

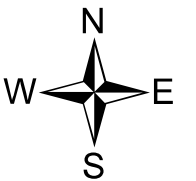
**OCTOBER 8, 2016 TO
OCTOBER 8, 2017
PERIODIC REVIEW REPORT**

**NYS ENVIRONMENTAL
RESTORATION PROGRAM
SITE CODE: B00016**

**FORMER PHOTECH SITE
1000 DRIVING PARK AVE
ROCHESTER, NEW YORK**

CLIENT:

CITY OF ROCHESTER



2500 2,250
1 inch = 2,000 feet

Legend

 Approximate Site Boundary

NOTE: Property boundary is approximate.
1971 topographic Map obtained from the
United States Geological Survey (USGS).

209280

FIGURE 1

I:\Barzotti Woodworking, Inc\213211 - 1445 Jefferson Rd, Phase II, ESADrawings\Figure2.mxd

Path: \\Projects2\\Projects\\NZ-2\\Rochester, City\\2151305 - Photech Eng Support 2015 2016\\Drawings\\2017 Monitoring\\Figure 2 10.29.2017.mxd

Legend

Monitoring Well (BRG Environmental, 2000)

Monitoring Well (LaBella, 2012)

Approximate Limit of New Road

Monroe County Tax Parcel

Former Buildings (demolished in 2010)

RMW-9

1,1-DICHLOROETHANE 12.9 UG/L
CIS-1,2-DICHLOROETHENE 5.1 UG/L
VINYL CHLRODE 123 UG/L

RMW-4

NAPHTHALENE 15.4 UG/L

RMW-4

RMW-9

Well-09

RMW-3

WELL-09

1,1-DICHLOROETHANE 9.06 UG/L
1,1-DICHLOROETHENE 3.0 UG/L

RMW-3

TRICHLOROETHENE 7.98 UG/L

NOTE:

1. RED TEXT DENOTES COMPOUND WAS DETECTED ABOVE THE NYSDEC PART 703 GROUNDWATER STANDARD.
2. AERIAL PHOTOGRAPH OF SITE DATED 2015 AND MAY NOT REPRESENT ACTUAL SITE CONDITIONS OR FEATURES.
3. ALL LOCATIONS ARE APPROXIMATE,

LABELLA

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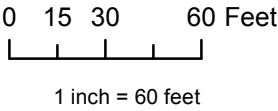
ANNUAL MONITORING DETECTED RESULTS AND WELL LOCATIONS

OCTOBER 8, 2016 TO
OCTOBER 8, 2017
PERIODIC REVIEW REPORT

ENVIRONMENTAL RESTORATION
PROGRAM SITE #B00016

FORMER PHOTECH SITE
1000 DRIVING PARK AVE
ROCHESTER, NEW YORK

VOLUNTEER:
CITY OF ROCHESTER



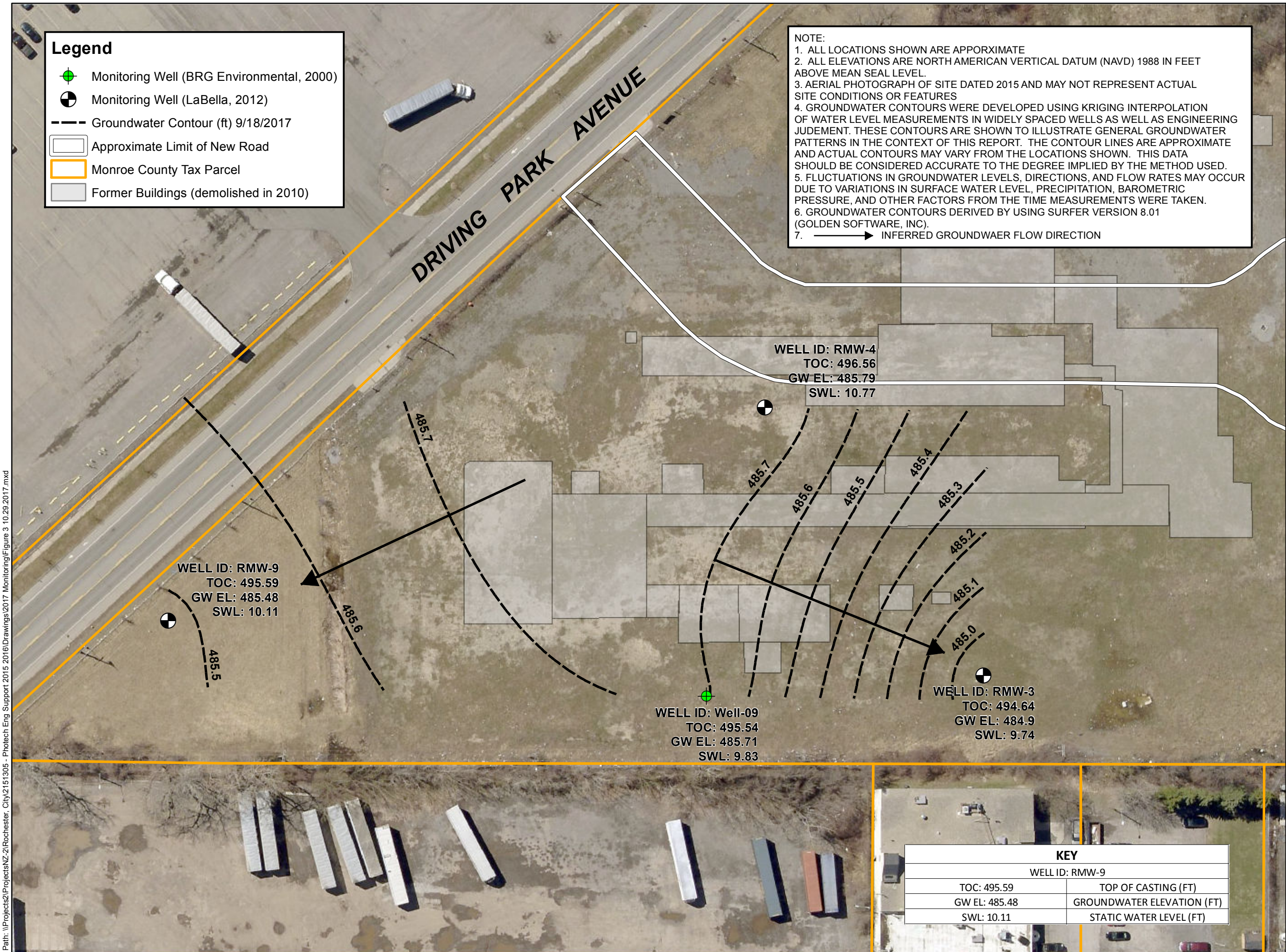
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10/31/2017

[2151305]

[FIGURE 2]

Path: \\Projects2\\Projects\\NZ-2\\Rochester, City\\2151305 - Phototech Eng Support 2015 2016\\Drawings\\2017 Monitoring\\Figure 3 10.29.2017.mxd



**SEPTEMBER 19, 2017
GROUNDWATER FLOW
DIRECTION AND WELL
LOCATIONS**

**OCTOBER 8, 2016 TO
OCTOBER 8, 2017
PERIODIC REVIEW REPORT**

**ENVIRONMENTAL RESTORATION
PROGRAM SITE #B00016**

**FORMER PHOTECH SITE
1000 DRIVING PARK AVE
ROCHESTER, NEW YORK**

**VOLUNTEER:
CITY OF ROCHESTER**



0 15 30 60 Feet
1 inch = 60 feet

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11/7/2017

[2151305]

[FIGURE 3]

Path: \\Projects2\\Projects\\NZ-2\\Rochester, City\\2151305 - Photech Eng Support 2015 2016\\Drawings\\2017 Monitoring\\Figure 4 Use.mxd

Legend

EMR Area

Approximate Limit of New Road

Monroe County Tax Parcel

Former Buildings (demolished in 2010)

NOTE:

1. AERIAL PHOTOGRAPH OF SITE DATED 2015 AND MAY NOT REPRESENT ACTUAL SITE CONDITIONS OR FEATURES.

2. ALL LOCATIONS ARE APPROXIMATE,

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EXCAVATION MANAGEMENT
REQUIRED AREA

OCTOBER 8, 2016 TO
OCTOBER 8, 2017
PERIODIC REVIEW REPORT

ENVIRONMENTAL RESTORATION
PROGRAM SITE #B00016

FORMER PHOTECH SITE
1000 DRIVING PARK AVE
ROCHESTER, NEW YORK

VOLUNTEER:
CITY OF ROCHESTER

0 15 30 60 Feet

1 inch = 60 feet

INTENDED TO PRINT 11" X 17"

11/6/2017

[2151305]

[FIGURE 4]

TABLES

Former Photech Imaging Site
1000 Driving Park Avenue
Rochester, New York
NYSDEC Site No. B00016

Table 1
Groundwater Analytical Data Tables

VOCs (ppb)

RMW-3

Sample ID		NYSDEC Part 703 Groundwater Standard	RMW-3									
Lab Sample Number			D3257-01	D4241-10	SB67810-05	E3912-13	F1474-14	F2732-10	L793892-09	L858898-02	L937868-04	L937868-01
Sampling Date			6/25/2012	9/12/2012	4/10/2013	9/26/2013	2/20/2014	6/10/2014	10/8/2015	9/9/2016	9/18/2017	9/18/2017
Matrix		Water	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER (DUP)
Dilution Factor		1	1	1	1	1	1	1	1	1	1	1
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
COMPOUND	CAS #											
1,1,1-Trichloroethane	71-55-6	5	2.5 U	0.9 J	0.58 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	75-34-3	5	1.1 J	1 J	0.68 J	5 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	75-35-4	5	2.5 U	2.5 U	0.49 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	120-82-1	5	2.5 U	2.5 U	0.36 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone	78-93-3	50	12.5 U	12.5 U	1.73 U	25 U	5 U	5 U	10 U	10 U	10 U	10 U
Acetone	67-64-1	50	12.5 U	12.5 U	2.56 U	25 U	5 U	5 U	50 U	50 U	50 U	50 U
Benzene	71-43-2	1	2.5 U	2.5 U	0.67 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	75-15-0	NA	2.5 U	2.5 U	0.63 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	67-66-3	7	0.53 J	2.5 U	0.69 J	5 U	1 U	1 U	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	156-59-2	5	1.8 J	2.6 J	0.72 J	1.1 J	0.53 J	1 U	1 U	1 U	1 U	1 U
Cyclohexane	110-82-7	NA	2.5 U	2.5 U	NA	5 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	75-71-8	5	2.5 U	2.5 U	0.45 U	5 U	1 U	1 U	5 U	5 U	5 U	5 U
Ethyl Benzene	100-41-4	5	2.5 U	2.5 U	0.73 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	98-82-8	5	2.5 U	2.5 U	0.62 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U
m/p-Xylenes	179601-23-1	NA	5 U	5 U	1.64 U	10 U	2 U	2 U	NA	NA	2 U	2 U
Methylcyclohexane	108-87-2	NA	2.5 U	2.5 U	NA	5 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	95-47-6	5	2.5 U	2.5 U	0.88 U	5 U	1 U	1 U	NA	NA	1 U	1 U
Toluene	108-88-3	5	2.5 U	2.5 U	0.81 U	5 U	1 U	1 U	5 U	5 U	1 U	1 U
Total Xylenes	1330-20-7	5	7.5 U	NA	2.52 U	15 U	3 U	1 U	3 U	3 U	2 U	2 U
Trichloroethene	79-01-6	5	14	14	8.69	14.2	6.1	4.7	7.05 J*	9.04	7.98 J	7.71 J
Trichlorofluoromethane	75-69-4	5	2.5 U	2.5 U	0.63 U	5 U	1 U	1 U	5 U	5 U	5 U	5 U
Vinyl chloride	75-01-4	2	2.5 U	2.5 U	0.81 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U
Total Concentration.			17.43	18.5	17.43	18.5	18.5	4.7	7.05	9.04	7.98	7.71
Arsenic	7440-38-2	25	5 U	5.44 J	1.8 U	10 UN	10 UN	10 U	10 U	10 U	10 U	10 U
Barium	7440-39-3	1000	66.3	76.1	73.2	53 N	62.9 N	81.4	60.5	73	49.3	54.1
Cadmium	7440-43-9	5	1.5 U	1.5 U	0.8 U	3 UN	3 U	3 U	2 U	2 U	2 U	2 U
Chromium	7440-47-3	50	2.5 U	2.5 U	1.4 J	5 UN	5.49 N*	5 U	10 U	10 U	40 U	40 U
Lead	7439-92-1	25	9.12	8.47	2	6 UN	11.1	6 U	5 U	5 U	5.13	5.4
Mercury	7439-97-6	0.7	0.1 U	0.1 U	0.08 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Selenium	7782-49-2	10	5 U	5 U	3 U	10 UN	10 U	10 U	10 U	10 U	10 U	10 U
Silver	7440-22-4	50	2.5 U	2.5 U	0.9 U	5 UN	5 U	5 U	5 U	5 U	5 U	5 U

Bold - Indicates the compound was detected above the NYSDEC TOGS limit.

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration given is an approximate value.

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Former Photech Imaging Site
1000 Driving Park Avenue
Rochester, New York
NYSDEC Site No. B00016

Table 1
Groundwater Analytical Data Tables

VOCs (ppb)

RMW-4

Sample ID		NYSDEC Part 703 Groundwater Standard	RMW-4								
Lab Sample Number			D3257-10	D4241-04	SB67810-10	E3912-10	F1474-10	F2732-02	L793892-07	L858898-08	I937868-02
Sampling Date			6/26/2012	9/13/2012	4/12/2013	9/25/2013	2/19/2014	6/9/2014	10/8/2015	9/7/2016	9/18/2017
Matrix		Water	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor			1	1	1	1	1	1	1	1	1
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
COMPOUND	CAS #										
1,1,1-Trichloroethane	71-55-6	5	2.5 U	2.5 U	0.58 U	5 U	1 U	1 U	1 U	1 U	1 UJ
1,1-Dichloroethane	75-34-3	5	2.5 U	2.5 U	0.68 U	5 U	1 U	1 U	1 U	1 U	1 UJ
1,1-Dichloroethene	75-35-4	5	2.5 U	2.5 U	0.49 U	5 U	1 U	1 U	1 U	1 U	1 UJ
1,2,4-Trichlorobenzene	120-82-1	5	2.5 U	2.5 U	0.36 U	5 U	1 U	1 U	1 U	1 U	1 UJ
2-Butanone	78-93-3	50	4.8 J	3.8 J	3.43 J	25 U	5 U	5.7	10 U	10 U	10 U
Acetone	67-64-1	50	59	38	20.3	24.4 J	6.9	94.8	50 U	50 U	50 UJ
Benzene	71-43-2	1	0.5 J	0.6 J	0.67 U	0.56 J	1 U	1 U	1 U	1 U	1 UJ
Carbon Disulfide	75-15-0	NA	0.69 J	0.5 J	0.89 J	5 U	1 U	1 U	1 U	1 U	1 UJ
Chloroform	67-66-3	7	2.5 U	2.5 U	0.69 U	5 U	1 U	1 U	5 U	5 U	5 UJ
cis-1,2-Dichloroethene	156-59-2	5	2.5 U	2.5 U	0.72 U	5 U	1 U	1 U	1 U	1 U	1 UJ
Cyclohexane	110-82-7	NA	2.5 U	2.5 U	NA	5 U	1 U	1 U	1 U	1 U	1 UJ
Dichlorodifluoromethane	75-71-8	5	2.1 J	1.3 J	2.39	5 U	1.8	1 U	5 U	5 U	5 UJ
Ethyl Benzene	100-41-4	5	0.61 J	1 J	1.42	0.81 J	1 U	1.2	1.68	1.28	1 UJ
Isopropylbenzene	98-82-8	5	2.5 U	2.5 U	0.67 J	5 U	1 U	0.45 J	1 U	1 U	1 UJ
m/p-Xylenes	179601-23-1	NA	1.7 J	2.6 J	4.07	10 U	2 U	3.2	NA	NA	2 UJ
Methylcyclohexane	108-87-2	NA	2.5 U	2.5 U	NA	5 U	1 U	1 U	1 U	1 U	1 UJ
o-Xylene	95-47-6	5	0.44 J	0.7 J	1.09	0.7 J	1 U	0.82 J	NA	NA	1 UJ
Toluene	108-88-3	5	1.2 J	1.4 J	1.5	1.6 J	1 U	1.2	5 U	5 U	1 UJ
Total Xylenes	1330-20-7	5	2.1 J	3.3	5.16	0.7	3 U	4.02 J	5.98	4.65	2 UJ
Trichloroethene	79-01-6	5	0.5 J	0.5 J	0.76 U	5 U	1 U	0.71 J	1 U	1 U	1 UJ
Trichlorofluoromethane	75-69-4	5	2.5 U	2.5 U	0.74 J	5 U	7.6	1.4	5 U	5 U	5 UJ
Vinyl chloride	75-01-4	2	2.5 U	2.5 U	0.81 U	5 U	1 U	1 U	1 U	1 U	1 UJ
Naphthalene	91-20-3	10	--	--	--	--	--	--	--	--	15.4
Total Concentration.			73.64	50.4	73.64	50.4	50.4	113.5	7.66	5.93	15.4
Arsenic	7440-38-2	25	12.3	15.6	13.6	10 UN	10 UN	11.8	21.9	26.9	19.5
Barium	7440-39-3	1000	10.2 J	12.8 J	6.4	59.7 N	18.3 JN	20.6 J	8.91	13.4	11
Cadmium	7440-43-9	5	1.5 U	1.5 U	0.8 U	3 UN	3 U	3 U	2 U	2 U	2 U
Chromium	7440-47-3	50	1.13 J	1.74 J	0.9 U	9.5 N	51.3 N*	5 U	10 U	10 U	10 U
Lead	7439-92-1	25	14.3	10	2.7 J	6 UN	6.16	6 U	8.03	5.1	7.1
Mercury	7439-97-6	0.7	0.1 U	0.1 U	0.08 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Selenium	7782-49-2	10	5 U	5 U	3 U	10 UN	10 U	10 U	10 U	10 U	10 U
Silver	7440-22-4	50	2.5 U	2.5 U	0.9 U	5 UN	5 U	5 U	5 U	5 U	5 U

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Qualifiers

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Former Photech Imaging Site
1000 Driving Park Avenue
Rochester, New York
NYSDEC Site No. B00016

Table 1
Groundwater Analytical Data Tables

VOCs (ppb)

RMW-9

Sample ID		NYSDEC Part 703 Groundwater Standard	RMW-9								
Lab Sample Number			D3257-05	D4241-03	SB67810-09	E3912-15	F1474-12	F2732-08	L793892-04	L858898-05	L937868-05
Sampling Date			6/25/2012	9/13/2012	4/11/2013	9/26/2013	2/20/2014	6/10/2014	10/7/2015	9/8/2016	9/18/2017
Matrix		Water	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor			1	1	1	1	1	1	1	1	1
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
COMPOUND	CAS #										
1,1,1-Trichloroethane	71-55-6	5	2.5 U	2.5 U	0.58 U	5 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	75-34-3	5	17	19	10.7	20.7	13.7	10.3	12.3	14.4	12.9
1,1-Dichloroethene	75-35-4	5	2.5 U	2.5 U	0.49 U	5 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	120-82-1	5	2.5 U	2.5 U	0.36 U	5 U	1 U	1 U	1 U	1 U	1 U
2-Butanone	78-93-3	50	12.5 U	12.5 U	1.73 U	25 U	5 U	5 U	10 U	10 U	10 U
Acetone	67-64-1	50	12.5 U	12.5 U	2.56 U	25 U	5 U	1 U	50 U	50 U	50 U
Benzene	71-43-2	1	2.5 U	2.5 U	0.67 U	5 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	75-15-0	NA	2.5 U	2.5 U	0.63 U	5 U	1 U	1 U	1 U	1 U	1 U
Chloroform	67-66-3	7	2.5 U	2.5 U	0.69 U	5 U	1 U	1 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	156-59-2	5	31	30	16.3	24.2	13.5	10	7.97	6.53	5.1
Cyclohexane	110-82-7	NA	2.5 U	2.5 U	NR	5 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	75-71-8	5	2.5 U	2.5 U	0.45 U	5 U	1 U	1 U	5 U	5 U	5 U
Ethyl Benzene	100-41-4	5	2.5 U	2.5 U	0.73 U	5 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	98-82-8	5	2.5 U	2.5 U	0.62 U	5 U	1 U	1 U	1 U	1 U	1 U
m/p-Xylenes	179601-23-1	NA	5 U	5 U	1.64 U	10 U	2 U	2 U	NA	NA	2 U
Methylcyclohexane	108-87-2	NA	2.5 U	2.5 U	NA	5 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	95-47-6	5	2.5 U	2.5 U	0.88 U	5 U	1 U	1 U	NA	NA	1 U
Toluene	108-88-3	5	2.5 U	2.5 U	0.81 U	5 U	1 U	1 U	5 U	5 U	1 U
Total Xylenes	1330-20-7	5	7.5 U	NA	2.52 U	15 U	3 U	1 U	3 U	3 U	2 U
Trichloroethene	79-01-6	5	2.5 U	2.5 U	0.76 U	5 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane	75-69-4	5	2.5 U	2.5 U	0.63 U	5 U	1 U	1 U	5 U	5 U	5 U
Vinyl chloride	75-01-4	2	79	110	60.7	150 E	43.6	46.3	98.4	84.8	123
Total Concentration.			127	159	127	159	159	20.3	118.67	105.73	141
Arsenic	7440-38-2	25	5 U	5.79 J	1.8 U	10 UN	10 UN	10 U	10 U	10 U	10 U
Barium	7440-39-3	1000	86.1	79.5	70	118 N	70.1 N	84.1	97.4	93.1	102
Cadmium	7440-43-9	5	1.5 U	1.5 U	0.8 U	3 UN	3 U	3 U	2 U	2 U	2 U
Chromium	7440-47-3	50	2.5 U	2.5 U	1 J	5 UN	57 N*	5.31	10 U	10 U	10 U
Lead	7439-92-1	25	8.52	7.33	2 U	6 UN	6 U	6 U	5 U	5 U	5 U
Mercury	7439-97-6	0.7	0.1 U	0.1 U	0.08 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Selenium	7782-49-2	10	5.81 J	5 U	3 U	10 UN	10 U	10 U	10 U	10 U	10 U
Silver	7440-22-4	50	2.5 U	2.5 U	0.9 U	5 UN	5 U	5 U	5 U	5 U	5 U

Bold - Indicates the compound was detected above the NYSDEC TOGS limit.

Qualifiers

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Former Photech Imaging Site
1000 Driving Park Avenue
Rochester, New York
NYSDEC Site No. B00016

Table 1
Groundwater Analytical Data Tables

VOCs (ppb)

WELL-09

Sample ID		NYSDEC Part 703 Groundwater Standard	WELL-09								
Lab Sample Number			D3257-02	D4241-03	SB67810-06	E3912-14	F1474-03	F2732-09	L793892-10	L858898-12	L937868-03
Sampling Date			6/25/2012	9/13/2012	4/11/2013	9/26/2013	2/21/2014	6/10/2014	10/8/2015	9/8/2016	9/18/2017
Matrix		Water	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor			1	1	1	1	1	1	1	1	1
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
COMPOUND	CAS #										
1,1,1-Trichloroethane	71-55-6	5	2.5 U	2.5 U	0.67 J	5 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	75-34-3	5	6.3	12	7.39	16 U	10.3	5.2	7.55	10.1	9.06 J
1,1-Dichloroethene	75-35-4	5	1.4 J	2.8 J	2.31	4.3 J	3.1	1.5	2.19	2.37	3 J
1,2,4-Trichlorobenzene	120-82-1	5	2.5 U	2.5 U	0.36 U	5 U	1 U	1 U	1 U	1 U	1 U
2-Butanone	78-93-3	50	12.5 U	12.5 U	1.73 U	25 U	5 U	5 U	10 U	10 U	10 U
Acetone	67-64-1	50	12.5 U	12.5 U	2.56 U	25 U	5 U	5 U	50 U	50 U	50 U
Benzene	71-43-2	1	2.5 U	2.5 U	0.67 U	5 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	75-15-0	NA	2.5 U	2.5 U	0.63 U	5 U	0.33 J	1 U	1 U	1 U	1 U
Chloroform	67-66-3	7	2.5 U	2.5 U	0.69 U	5 U	1 U	1 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	156-59-2	5	2.5 U	2.5 U	0.72 U	5 U	1 U	1 U	1 U	1 U	1 U
Cyclohexane	110-82-7	NA	2.5 U	2.5 U	NA	5 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	75-71-8	5	2.5 U	2.5 U	0.45 U	5 U	1 U	1 U	5 U	5 U	5 U
Ethyl Benzene	100-41-4	5	2.5 U	2.5 U	0.73 U	5 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	98-82-8	5	2.5 U	2.5 U	0.62 U	5 U	1 U	1 U	1 U	1 U	1 U
m/p-Xylenes	179601-23-1	NA	5 U	5 U	1.64 U	10 U	2 U	2 U	NA	NA	2 U
Methylcyclohexane	108-87-2	NA	2.5 U	2.5 U	NA	5 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	95-47-6	5	2.5 U	2.5 U	0.88 U	5 U	1 U	1 U	NA	NA	1 U
Toluene	108-88-3	5	2.5 U	2.5 U	0.81 U	5 U	1 U	1 U	5 U	5 U	1 U
Total Xylenes	1330-20-7	5	7.5 U	NA	2.52 U	15 U	3 U	1 U	3 U	3 U	2 U
Trichloroethene	79-01-6	5	0.81 J	0.7 J	0.76 U	0.93 J	0.84 J	0.44 J	1 U	1 U	1 UJ
Trichlorofluoromethane	75-69-4	5	2.5 U	2.5 U	0.63 U	5 U	1 U	1 U	5 U	5 U	5 U
Vinyl chloride	75-01-4	2	2.5 U	2.5 U	0.81 U	5 U	1 U	1 U	1 U	1 U	1 U
Total Concentration.			9.34	16.8	9.34	16.8	16.8	7.14	9.74	12.47	12.06
Arsenic	7440-38-2	25	5 U	6.12 J	1.8 U	10 UN	10 UN	10 U	10 U	10 U	10 U
Barium	7440-39-3	1000	70.5	81.7	91.3	66.1 N	51 N	56.1	51.9	52.7	54.4
Cadmium	7440-43-9	5	1.5 U	1.5 U	0.8 U	3 UN	3 U	3 U	3 U	3 U	2 U
Chromium	7440-47-3	50	2.5 U	2.5 U	1.3 U	5 UN	92 N*	5 U	5 U	5 U	10 U
Lead	7439-92-1	25	9.44	8.26	2.3	6 UN	4.31 J	6 U	6 U	6 U	5 U
Mercury	7439-97-6	0.7	0.1 U	0.1 U	0.08 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Selenium	7782-49-2	10	5 U	5 U	3 U	10 UN	10 U	10 U	10 U	10 U	10 U
Silver	7440-22-4	50	2.5 U	2.5 U	0.9 U	5 UN	5 U	5 U	5 U	5 U	5 U

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APPENDIX 1

March 1, 2017

Todd Caffoe
New York State Department of Environmental Conservation
Division of Environmental Remediation
6274 East Avon-Lima Road
Avon, NY 14414

RE: 7-Day Notification
Former Phototech Imaging Site (NYSDEC Site #B00016)
1000 Driving Park Avenue
Rochester, New York
LaBella Project Number 2151305

Mr. Caffoe,

LaBella Associates, D.P.C. (LaBella) is submitting this 7-day notification and associated supporting documentation on behalf of the City of Rochester in order to provide notification that groundwater monitoring well decommissioning activities will be taking place at the Former Phototech Imaging Site (the Site).

Description of the Work:

The nature and extent of remaining contamination in groundwater at the Site has been well documented during post-remediation groundwater sampling events. The 2016 Periodic Review Report for the Site included a recommendation that eight (8) of the groundwater monitoring wells at the Site be decommissioned. In accordance with NYSDEC Commissioner Policy 43: Groundwater Well Decommissioning Policy (CP-43), LaBella will attempt to remove the well casings by pulling them out of the bore hole. In the event that the casings cannot be pulled, the well will be over-drilled if it is not a bedrock well with casing grouted into rock. Prior to the pulling of each well or over-drilling, each bore hole will be filled with the CP-43 standard grout mixture using a tremie. Before the grout can dry, each well will be pulled or over-drilled. The grout will be brought to within approximately five-feet below surface grade. The remainder of the bore hole will be filled with material physically similar to the natural soils on-Site. Bedrock wells that have casing grouted into rock that cannot be pulled will be tremie grouted to within at least 5-ft. below grade and then the casing cut and remainder of the bore hole will be filled with material physically similar to the natural soils on-Site. The decommissioning process will be documented using field forms. The following wells are to be decommissioned:

- RMW-1
- RMW-2
- RMW-5
- RMW-6
- RMW-7

- RMW-8
- Well-04
- Well-07

Refer to Attachment 1 for a map of the monitoring well locations. These wells are to be permanently decommissioned rather than decommissioned and reinstalled

Schedule:

The monitoring well decommissioning activities are anticipated to be completed on March 9th through March 10th, 2017 (pending NYSDEC approval/concurrence).

Excavation Work Plan (EWP):

All aspects of the existing Site Management Plan (SMP) will be followed for completing the excavation work. The most pertinent items from the SMP are summarized below; however, the full SMP should be referenced for all requirements.

During all soil/fill disturbances, soils will be assessed for visible and olfactory indications of impairment by a qualified environmental professional.

The NYSDOH Generic Community Air Monitoring Plan (CAMP) will be followed during all ground intrusive work. Two air monitoring locations, one upwind and one downwind from the excavation activities will be set up preceding any intrusive work. Due to the variability of the wind direction these locations will change on a daily, or more frequent, basis. The locations of air sampling stations based on generally prevailing wind conditions will be kept in a daily log of activities by the qualified environmental professional. Exceedances of action levels listed in the CAMP will be recorded. Dust suppression will be completed as necessary as defined in the SMP.

No soil will be removed from the site. The monitoring well materials will be disposed of as general refuse by the contractor

Compliance with the SMP

All parties working at the Site are aware of and have been provided a copy of the SMP and the requirements of 29 CFR 1910.120. All work will be completed in accordance with these requirements.

If you have any questions, please do not hesitate to contact me at (585) 295-6659.

Sincerely,

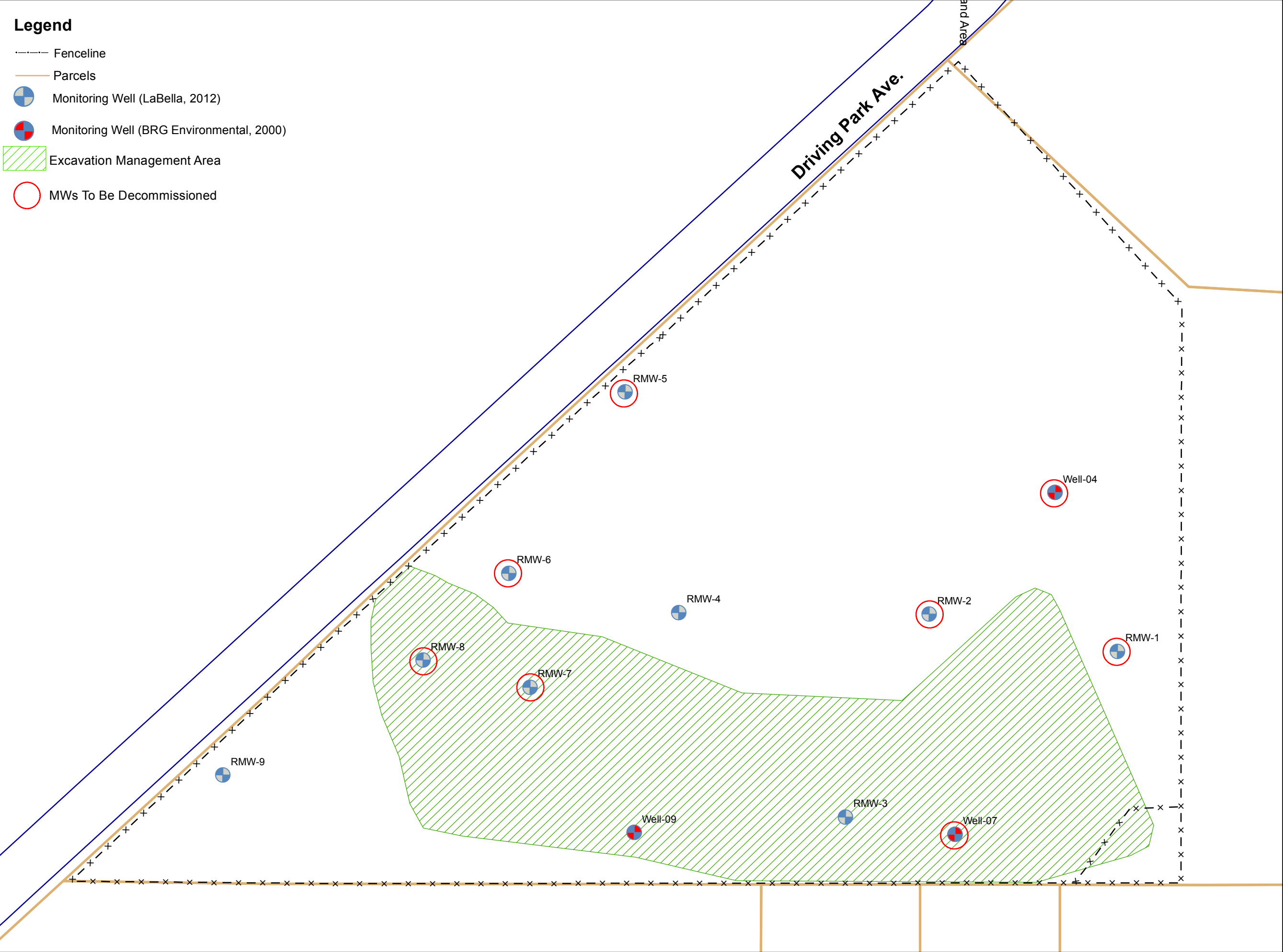
LABELLA ASSOCIATES, D.P.C.

A handwritten signature in dark ink, appearing to read "Seth Davis". The signature is fluid and cursive, with a long horizontal line extending from the start of the word "Seth".

Seth Davis
Environmental Construction Specialist

ATTACHMENT 1 – MONITORING WELL LOCATIONS

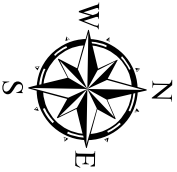
Patt: \\Projects2\Projects\NZ-2\Rochester, City\2151305 - Phototech Eng Support 2015 2016\Drawings\Figure 1 - GW_Exceedances_wo_buildings-1.mxd



CITY OF ROCHESTER

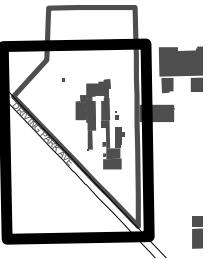
FORMER PHOTECH SITE
1000 DRIVING PARK BLVD
ROCHESTER, NEW YORK

SITE AREA,
MONITORING WELL
LOCATIONS



0 20 40 80
Feet

1 inch = 80 feet



[2151305]

[FIGURE 1]

FIGURE 3

WELL DECOMMISSIONING RECORD

Site Name: Photech	Well I.D.: RMW- 1
Site Location: 1000 Driving Park, Rochester, New York	Driller: M. Pepe & K. Mikel
Drilling Co.: LaBella LLC	Inspector: J. Lanz
	Date: 3/9/2017

DECOMMISSIONING DATA (Fill in all that apply)		WELL SCHEMATIC*	
OVERDRILLING		Depth (feet)	Grass Seed & Hay Cover
Interval Drilled			
Drilling Method(s)			
Borehole Dia. (in.)			Native Soils
Temporary Casing Installed? (y/n)			
Depth temporary casing installed		5-ft. bgs.	
Casing type/dia. (in.)			
Method of installing			
CASING PULLING			
Method employed	6620 Winch		
Casing retrieved (feet)	16-feet		
Casing type/dia. (in.)	2" -PVC		
CASING PERFORATING			
Equipment used			Grout
Number of perforations/foot			
Size of perforations			
Interval perforated			
GROUTING			
Interval grouted (FBLs)	5 - 16-ft. bgs		
# of batches prepared	1		
For each batch record:			
Quantity of water used (gal.)	0.9		
Quantity of cement used (lbs.)	10.8		
Cement type	Portland		
Quantity of bentonite used (lbs.)	0.5		
Quantity of calcium chloride used (lbs.)	Not Applicable		
Volume of grout prepared (gal.)	~2-Gallons		
Volume of grout used (gal.)	~1.5-Gallons	16-ft. bgs.	

Notes:

Elevated 4" metal protective casing, concrete rain pad and well cover removed, bottom of 2"-PVC casing penetrated through using geoprobe. Grout mixed and deployed into casing. Casing removed. Grout level measured. Top 5-ft. filled with native soils, hand compacted and raked to match surrounding soil conditions. Boring covered with grass seed and hay. PID readings of soils displaced by removal of 2"-PVC casings had PID readings of 1.8 ppm.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor



Department Representative

FIGURE 3

WELL DECOMMISSIONING RECORD

Site Name: Photech	Well I.D.: RMW- 2
Site Location: 1000 Driving Park, Rochester, New York	Driller: M. Pepe & K. Mikel
Drilling Co.: LaBella LLC	Inspector: J. Lanz
	Date: 3/9/2017

DECOMMISSIONING DATA (Fill in all that apply)		WELL SCHEMATIC*	
<u>OVERDRILLING</u>		Depth (feet)	Grass Seed & Hay Cover
Interval Drilled			
Drilling Method(s)			
Borehole Dia. (in.)			
Temporary Casing Installed? (y/n)			
Depth temporary casing installed		4.5-ft. bgs.	Native Soils
Casing type/dia. (in.)			
Method of installing			
<u>CASING PULLING</u>			
Method employed	6620 Winch		
Casing retrieved (feet)	17.5-feet		
Casing type/dia. (in.)	2" -PVC		
<u>CASING PERFORATING</u>			
Equipment used			Grout
Number of perforations/foot			
Size of perforations			
Interval perforated			
<u>GROUTING</u>			
Interval grouted (FBLs)	4.5-17.5-ft. bgs		
# of batches prepared	1		
For each batch record:			
Quantity of water used (gal.)	1		
Quantity of cement used (lbs.)	13		
Cement type	Portland		
Quantity of bentonite used (lbs.)	0.5		
Quantity of calcium chloride used (lbs.)	Not Applicable		
Volume of grout prepared (gal.)	~3.0-Gallons		
Volume of grout used (gal.)	~1.5-Gallons	17.5-ft. bgs.	

Notes:

Elevated 4" metal protective casing, concrete rain pad and well cover removed, bottom of 2"-PVC casing penetrated through using geoprobe. Grout mixed and deployed into casing. Casing removed. Grout level measured. Top 5-ft. filled with native soils, hand compacted and raked to match surrounding soil conditions. Boring covered with grass seed and hay.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.



Drilling Contractor

Department Representative

WELL DECOMMISSIONING RECORD

Site Name: Photech	Well I.D.: RMW- 5
Site Location: 1000 Driving Park, Rochester, New York	Driller: M. Pepe & K. Mikel
Drilling Co.: LaBella LLC	Inspector: J. Lanz
	Date: 3/9/2017

DECOMMISSIONING DATA (Fill in all that apply)		WELL SCHEMATIC*	
<u>OVERDRILLING</u>		Depth (feet)	Grass Seed & Hay Cover
Interval Drilled			
Drilling Method(s)			
Borehole Dia. (in.)			
Temporary Casing Installed? (y/n)			
Depth temporary casing installed		4.7-ft. bgs.	Native Soils
Casing type/dia. (in.)			
Method of installing			
<u>CASING PULLING</u>			
Method employed	6620 Winch		
Casing retrieved (feet)	15.7-feet		
Casing type/dia. (in)	2" -PVC		
<u>CASING PERFORATING</u>			
Equipment used			Grout
Number of perforations/foot			
Size of perforations			
Interval perforated			
<u>GROUTING</u>			
Interval grouted (FBLS)	4.7-15.7-ft. bgs		
# of batches prepared	1		
<u>For each batch record:</u>			
Quantity of water used (gal.)	0.8		
Quantity of cement used (lbs.)	10.1		
Cement type	Portland		
Quantity of bentonite used (lbs.)	0.5		
Quantity of calcium chloride used (lbs.)	Not Applicable		
Volume of grout prepared (gal.)	~2.5-Gallons		
Volume of grout used (gal.)	~2.0-Gallons	15.7-ft. bgs.	

Elevated 4" metal protective casing, concrete rain pad and well cover removed, bottom of 2"-PVC casing penetrated through using geoprobe. Grout mixed and deployed into casing. Casing removed. Grout level measured. Top 5-ft. filled with native soils, hand compacted and raked to match surrounding soil conditions. Boring covered with grass seed and hav.

* Sketch in all relevant decommissioning data, including:
interval overdrilled, interval grouted, casing left in hole,
well stickup, etc.



Department Representative

FIGURE 3

WELL DECOMMISSIONING RECORD

Site Name: Photech	Well I.D.: RMW- 6
Site Location: 1000 Driving Park, Rochester, New York	Driller: M. Pepe & K. Mikel
Drilling Co.: LaBella LLC	Inspector: J. Lanz
	Date: 3/09/2017

DECOMMISSIONING DATA (Fill in all that apply)		WELL SCHEMATIC*	
<u>OVERDRILLING</u>			
Interval Drilled		Depth (feet)	
Drilling Method(s)			Grass Seed & Hay Cover
Borehole Dia. (in.)			
Temporary Casing Installed? (y/n)			Native Soils
Depth temporary casing installed		5-ft. bgs.	
Casing type/dia. (in.)			
Method of installing			
<u>CASING PULLING</u>			
Method employed	6620 Winch		
Casing retrieved (feet)	20-feet		
Casing type/dia. (in.)	2" -PVC		
<u>CASING PERFORATING</u>			
Equipment used			Grout
Number of perforations/foot			
Size of perforations			
Interval perforated			
<u>GROUTING</u>			
Interval grouted (FBLs)	5-20-ft. bgs		
# of batches prepared	1		
For each batch record:			
Quantity of water used (gal.)	1.2		
Quantity of cement used (lbs.)	15.0		
Cement type	Portland		
Quantity of bentonite used (lbs.)	0.6		
Quantity of calcium chloride used (lbs.)	Not Applicable		
Volume of grout prepared (gal.)	~2.5-3-Gallons		
Volume of grout used (gal.)	~2.0-Gallons	20-ft. bgs.	

Notes:

Elevated 4" metal protective casing, concrete rain pad and well cover removed, bottom of 2"-PVC casing penetrated through using geoprobe. Grout mixed and deployed into casing. Casing removed. Grout level measured. Top 5-ft. filled with native soils, hand compacted and raked to match surrounding soil conditions. Boring covered with grass seed and hay.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.



Drilling Contractor

Department Representative

FIGURE 3

WELL DECOMMISSIONING RECORD

Site Name: Photech	Well I.D.: RMW- 7
Site Location: 1000 Driving Park, Rochester, New York	Driller: M. Pepe & K. Mikel
Drilling Co.: LaBella LLC	Inspector: J. Lanz
	Date: 3/10/2017

DECOMMISSIONING DATA (Fill in all that apply)		WELL SCHEMATIC*	
<u>OVERDRILLING</u>		Depth (feet)	Grass Seed & Hay Cover
Interval Drilled			
Drilling Method(s)			
Borehole Dia. (in.)			Native Soils
Temporary Casing Installed? (y/n)		5-ft. bgs.	
Depth temporary casing installed			
Casing type/dia. (in.)			
Method of installing			
<u>CASING PULLING</u>			
Method employed	6620 Winch		
Casing retrieved (feet)	15-feet		
Casing type/dia. (in.)	2" -PVC		
<u>CASING PERFORATING</u>			
Equipment used			Grout
Number of perforations/foot			
Size of perforations			
Interval perforated			
<u>GROUTING</u>			
Interval grouted (FBLs)	5-15-ft. bgs.		
# of batches prepared	1		
For each batch record:			
Quantity of water used (gal.)	0.8		
Quantity of cement used (lbs.)	10		
Cement type	Portland		
Quantity of bentonite used (lbs.)	0.4		
Quantity of calcium chloride used (lbs.)	Not Applicable		
Volume of grout prepared (gal.)	~2.5-Gallons		
Volume of grout used (gal.)	~2.0-Gallons	15-ft. bgs.	

Notes:

Elevated 4" metal protective casing, concrete rain pad and well cover removed, bottom of 2"-PVC casing penetrated through using geoprobe. Grout mixed and deployed into casing. Casing removed. Grout level measured. Top 5-ft. filled with native soils, hand compacted and raked to match surrounding soil conditions. Boring covered with grass seed and hay.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor



Department Representative

FIGURE 3

WELL DECOMMISSIONING RECORD

Site Name: Photech	Well I.D.: RMW- 8
Site Location: 1000 Driving Park, Rochester, New York	Driller: M. Pepe & K. Mikel
Drilling Co.: LaBella LLC	Inspector: J. Lanz
	Date: 3/10/2017

DECOMMISSIONING DATA (Fill in all that apply)		WELL SCHEMATIC*	
OVERDRILLING		Depth (feet)	Grass Seed & Hay Cover
Interval Drilled			
Drilling Method(s)			
Borehole Dia. (in.)			
Temporary Casing Installed? (y/n)			
Depth temporary casing installed		5-ft. bgs.	Native Soils
Casing type/dia. (in.)			
Method of installing			
CASING PULLING			
Method employed	6620 Winch		
Casing retrieved (feet)	16-feet		
Casing type/dia. (in.)	2" -PVC		
CASING PERFORATING			
Equipment used			Grout
Number of perforations/foot			
Size of perforations			
Interval perforated			
GROUTING			
Interval grouted (FBLs)	5-17-ft. bgs		
# of batches prepared	1		
For each batch record:			
Quantity of water used (gal.)	1.0		
Quantity of cement used (lbs.)	11.8		
Cement type	Portland		
Quantity of bentonite used (lbs.)	0.5		
Quantity of calcium chloride used (lbs.)	Not Applicable		
Volume of grout prepared (gal.)	~2.2-Gallons		
Volume of grout used (gal.)	~1.5-Gallons	17-ft. bgs.	

Notes:

Elevated 4" metal protective casing, concrete rain pad and well cover removed, bottom of 2"-PVC casing penetrated through using geoprobe. Grout mixed and deployed into casing. Casing removed. Grout level measured. Top 5-ft. filled with native soils, hand compacted and raked to match surrounding soil conditions. Boring covered with grass seed and hay.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor



Department Representative

FIGURE 3

WELL DECOMMISSIONING RECORD

Site Name: Photech	Well I.D.: Well - 04
Site Location: 1000 Driving Park, Rochester, New York	Driller: M. Pepe & K. Mikel
Drilling Co.: LaBella LLC	Inspector: J. Lanz
	Date: 3/9/2017

DECOMMISSIONING DATA (Fill in all that apply)		WELL SCHEMATIC*	
OVERDRILLING		Depth (feet)	
Interval Drilled			Grass Seed & Hay Cover
Drilling Method(s)			
Borehole Dia. (in.)			Native Soils
Temporary Casing Installed? (y/n)		4.15-ft. bgs.	
Depth temporary casing installed			
Casing type/dia. (in.)			
Method of installing			
CASING PULLING			
Method employed	6620 Winch		
Casing retrieved (feet)	12.15-feet		
Casing type/dia. (in.)	2" -PVC		
CASING PERFORATING			
Equipment used			Grout
Number of perforations/foot			
Size of perforations			
Interval perforated			
GROUTING			
Interval grouted (FBLs)	4.15-12.15-ft.		
# of batches prepared	1		
For each batch record:			
Quantity of water used (gal.)	0.65		
Quantity of cement used (lbs.)	7.8		
Cement type	Portland		
Quantity of bentonite used (lbs.)	0.33		
Quantity of calcium chloride used (lbs.)	Not Applicable		
Volume of grout prepared (gal.)	~2.5-Gallons		
Volume of grout used (gal.)	~1.8-Gallons	12.15-ft. bgs.	

Notes:

Metal 4" metal protective casing and well cover removed, bottom of 2"-PVC casing penetrated through using geoprobe. Grout mixed and deployed into casing. Casing removed. Grout level measured. Top 5-ft. filled with native soils. Boring covered with grass seed and hay.

* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

Drilling Contractor


 Department Representative

FIGURE 3

WELL DECOMMISSIONING RECORD

Site Name: Photech	Well I.D.: Well - 07
Site Location: 1000 Driving Park, Rochester, New York	Driller: M. Pepe & K. Mikel
Drilling Co.: LaBella LLC	Inspector: J. Lanz
	Date: 3/9/2017

DECOMMISSIONING DATA (Fill in all that apply)	WELL SCHEMATIC*
OVERDRILLING Interval Drilled Drilling Method(s) Borehole Dia. (in.) Temporary Casing Installed? (y/n) Depth temporary casing installed Casing type/dia. (in.) Method of installing CASING PULLING Method employed Pulled by hand Casing retrieved (feet) 12.75-ft. Casing type/dia. (in) 2" -PVC CASING PERFORATING Equipment used Number of perforations/foot Size of perforations Interval perforated GROUTING Interval grouted (FBLs) 4.8-12.8-ft. bgs # of batches prepared 1 For each batch record: Quantity of water used (gal.) 0.65 Quantity of cement used (lbs.) 7.8 Cement type Portland Quantity of bentonite used (lbs.) 0.32 Quantity of calcium chloride used (lbs.) Not Applicable Volume of grout prepared (gal.) ~2-Gallons Volume of grout used (gal.) ~1.5-Gallons	Depth (feet) Grass Seed & Hay Cover Native Soils Grout 5.6' - 4" Metal well cover 4.8-ft. bgs. 12.8-ft. bgs.

Notes: Bottom of 2" -PVC casing penetrated through using geoprobe. Grout mixed and deployed into casing. Casing removed by hand. Well completely surrounded by standing water. Grout level measured. Top 5-ft. filled with native soils. Boring covered with grass seed and hay.	* Sketch in all relevant decommissioning data, including: interval overdrilled, interval grouted, casing left in hole, well stickup, etc.

APPENDIX 2

October 13, 2017

LaBella Associates, P.C.

Sample Delivery Group: L937868
Samples Received: 09/20/2017
Project Number: 2151305
Description: Photech GW Sampling September 2017
Site: 2171771
Report To: Mike Pelychaty and Steven Rife
300 State Street, Suite 201
Rochester, NY 14614

Entire Report Reviewed By:



T. Alan Harvill

Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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Cn: Case Narrative	8	
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L937868-02 09/26/17 08:24 ICP12	11	
L937868-03 09/26/17 08:37 ICP12	12	⁶ Gl
L937868-04 09/26/17 08:40 ICP12	13	⁷ Al
L937868-05 09/26/17 08:47 ICP12	14	
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MS(R3252254-5) WG1024391 09/26/17 08:29 ICP12	18	
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Preparation Logs

WG1023529

GI: Glossary of Terms

AI: Accreditations & Locations

Sc: Sample Chain of Custody

327

327

328

329

330

¹Cp

²Tc

³Ss

⁴Cn

⁵Su

⁶Gl

⁷Al

⁸Sc



FIELD DUPLICATE L937868-01 GW

Collected by
S. Rife

Collected date/time
09/18/17 00:00

Received date/time
09/20/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG1022948	1	09/26/17 11:45	09/26/17 20:28	EL
Metals (ICP) by Method 6010C	WG1024391	1	09/25/17 18:34	09/26/17 01:43	TRB
Metals (ICP) by Method 6010C	WG1024391	1	09/25/17 18:34	09/26/17 08:34	TRB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1023529	1	09/22/17 15:29	09/22/17 15:29	JHH

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Su

⁶ Gl

⁷ Al

⁸ Sc

RMW-4 L937868-02 GW

Collected by
S. Rife

Collected date/time
09/18/17 12:15

Received date/time
09/20/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG1022948	1	09/26/17 11:45	09/26/17 20:21	EL
Metals (ICP) by Method 6010C	WG1024391	1	09/25/17 18:34	09/26/17 01:33	RDS
Metals (ICP) by Method 6010C	WG1024391	1	09/25/17 18:34	09/26/17 08:24	TRB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1023529	1	09/22/17 15:48	09/22/17 15:48	JHH

WELL-09 L937868-03 GW

Collected by
S. Rife

Collected date/time
09/18/17 15:55

Received date/time
09/20/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG1022948	1	09/26/17 11:45	09/26/17 20:30	EL
Metals (ICP) by Method 6010C	WG1024391	1	09/25/17 18:34	09/26/17 01:46	TRB
Metals (ICP) by Method 6010C	WG1024391	1	09/25/17 18:34	09/26/17 08:37	TRB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1023529	1	09/22/17 16:08	09/22/17 16:08	JHH

RMW-3 L937868-04 GW

Collected by
S. Rife

Collected date/time
09/18/17 14:30

Received date/time
09/20/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG1022948	1	09/26/17 11:45	09/26/17 20:39	EL
Metals (ICP) by Method 6010C	WG1024391	1	09/25/17 18:34	09/26/17 01:48	TRB
Metals (ICP) by Method 6010C	WG1024391	1	09/25/17 18:34	09/26/17 08:40	TRB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1023529	1	09/22/17 16:27	09/22/17 16:27	JHH

RMW-9 L937868-05 GW

Collected by
S. Rife

Collected date/time
09/18/17 11:20

Received date/time
09/20/17 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Mercury by Method 7470A	WG1022948	1	09/26/17 11:45	09/26/17 20:41	EL
Metals (ICP) by Method 6010C	WG1024391	1	09/25/17 18:34	09/26/17 02:05	TRB
Metals (ICP) by Method 6010C	WG1024391	1	09/25/17 18:34	09/26/17 08:47	TRB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG1023529	1	09/22/17 16:46	09/22/17 16:46	JHH



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

T. Alan Harvill
Technical Service Representative





6010C Metals (ICP)

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

ESC Sample ID:	L937868-01	SDG:	L937868
Client Sample ID:	FIELD DUPLICATE	Collected Date/Time:	09/18/17 00:00
Lab File ID:	20170926083449	Received Date/Time:	09/20/17 08:45
Instrument ID:	ICP12	Preparation Date/Time:	09/25/17 18:34
Analytical Batch:	WG1024391	Analysis Date/Time:	09/26/17 08:34
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010C	Sample Vol Used:	_____
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):	_____	Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>ug/l</i>	Qualifier	SDL <i>ug/l</i>	Unadj. MQL <i>ug/l</i>	MQL <i>ug/l</i>
Selenium	7782-49-2	ND		7.40	10.0	10.0

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

ESC Sample ID:	L937868-02	SDG:	L937868
Client Sample ID:	RMW-4	Collected Date/Time:	09/18/17 12:15
Lab File ID:	20170926082442	Received Date/Time:	09/20/17 08:45
Instrument ID:	ICP12	Preparation Date/Time:	09/25/17 18:34
Analytical Batch:	WG1024391	Analysis Date/Time:	09/26/17 08:24
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010C	Sample Vol Used:	_____
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):	_____	Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>ug/l</i>	Qualifier	SDL <i>ug/l</i>	Unadj. MQL <i>ug/l</i>	MQL <i>ug/l</i>
Selenium	7782-49-2	ND		7.40	10.0	10.0

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

ESC Sample ID:	L937868-03	SDG:	L937868
Client Sample ID:	WELL-09	Collected Date/Time:	09/18/17 15:55
Lab File ID:	20170926083725	Received Date/Time:	09/20/17 08:45
Instrument ID:	ICP12	Preparation Date/Time:	09/25/17 18:34
Analytical Batch:	WG1024391	Analysis Date/Time:	09/26/17 08:37
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010C	Sample Vol Used:	_____
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):	_____	Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>ug/l</i>	Qualifier	SDL <i>ug/l</i>	Unadj. MQL <i>ug/l</i>	MQL <i>ug/l</i>
Selenium	7782-49-2	ND		7.40	10.0	10.0

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

ESC Sample ID:	L937868-04	SDG:	L937868
Client Sample ID:	RMW-3	Collected Date/Time:	09/18/17 14:30
Lab File ID:	20170926084002	Received Date/Time:	09/20/17 08:45
Instrument ID:	ICP12	Preparation Date/Time:	09/25/17 18:34
Analytical Batch:	WG1024391	Analysis Date/Time:	09/26/17 08:40
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010C	Sample Vol Used:	_____
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):	_____	Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>ug/l</i>	Qualifier	SDL <i>ug/l</i>	Unadj. MQL <i>ug/l</i>	MQL <i>ug/l</i>
Selenium	7782-49-2	ND		7.40	10.0	10.0

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

ESC Sample ID:	L937868-05	SDG:	L937868
Client Sample ID:	RMW-9	Collected Date/Time:	09/18/17 11:20
Lab File ID:	20170926084749	Received Date/Time:	09/20/17 08:45
Instrument ID:	ICP12	Preparation Date/Time:	09/25/17 18:34
Analytical Batch:	WG1024391	Analysis Date/Time:	09/26/17 08:47
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010C	Sample Vol Used:	_____
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):	_____	Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>ug/l</i>	Qualifier	SDL <i>ug/l</i>	Unadj. MQL <i>ug/l</i>	MQL <i>ug/l</i>
Selenium	7782-49-2	ND		7.40	10.0	10.0

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

ESC Sample ID:	R3252254-1	SDG:	L937868
Client Sample ID:	BLANK	Collected Date/Time:	
Lab File ID:	20170926081712	Received Date/Time:	
Instrument ID:	ICP12	Preparation Date/Time:	09/25/17 18:33
Analytical Batch:	WG1024391	Analysis Date/Time:	09/26/17 08:17
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010C	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):		Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>ug/l</i>	Qualifier	SDL <i>ug/l</i>	Unadj. MQL <i>ug/l</i>	MQL <i>ug/l</i>
Selenium	7782-49-2	U		7.40	10.0	10.0

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

ESC Sample ID:	R3252254-2	SDG:	L937868
Client Sample ID:	LCS	Collected Date/Time:	
Lab File ID:	20170926081937	Received Date/Time:	
Instrument ID:	ICP12	Preparation Date/Time:	09/25/17 18:33
Analytical Batch:	WG1024391	Analysis Date/Time:	09/26/17 08:19
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010C	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):		Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>ug/l</i>	Qualifier	SDL <i>ug/l</i>	Unadj. MQL <i>ug/l</i>	MQL <i>ug/l</i>
Selenium	7782-49-2	1010		7.40	10.0	10.0

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

ESC Sample ID:	R3252254-3	SDG:	L937868
Client Sample ID:	LCSD	Collected Date/Time:	
Lab File ID:	20170926082203	Received Date/Time:	
Instrument ID:	ICP12	Preparation Date/Time:	09/25/17 18:33
Analytical Batch:	WG1024391	Analysis Date/Time:	09/26/17 08:22
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010C	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):		Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>ug/l</i>	Qualifier	SDL <i>ug/l</i>	Unadj. MQL <i>ug/l</i>	MQL <i>ug/l</i>
Selenium	7782-49-2	1020		7.40	10.0	10.0

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

ESC Sample ID:	R3252254-5	SDG:	L937868
Client Sample ID:	MS	Collected Date/Time:	09/18/17 12:15
Lab File ID:	20170926082948	Received Date/Time:	09/20/17 08:45
Instrument ID:	ICP12	Preparation Date/Time:	09/25/17 18:34
Analytical Batch:	WG1024391	Analysis Date/Time:	09/26/17 08:29
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010C	Sample Vol Used:	_____
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):	_____	Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>ug/l</i>	Qualifier	SDL <i>ug/l</i>	Unadj. MQL <i>ug/l</i>	MQL <i>ug/l</i>
Selenium	7782-49-2	1040		7.40	10.0	10.0

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

ESC Sample ID:	R3252254-6	SDG:	L937868
Client Sample ID:	MSD	Collected Date/Time:	09/18/17 12:15
Lab File ID:	20170926083212	Received Date/Time:	09/20/17 08:45
Instrument ID:	ICP12	Preparation Date/Time:	09/25/17 18:34
Analytical Batch:	WG1024391	Analysis Date/Time:	09/26/17 08:32
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010C	Sample Vol Used:	_____
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):	_____	Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>ug/l</i>	Qualifier	SDL <i>ug/l</i>	Unadj. MQL <i>ug/l</i>	MQL <i>ug/l</i>
Selenium	7782-49-2	1050		7.40	10.0	10.0

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

ESC Sample ID:	R3252254-4	SDG:	L937868
Client Sample ID:	SD	Collected Date/Time:	09/18/17 12:15
Lab File ID:	20170926082723	Received Date/Time:	09/20/17 08:45
Instrument ID:	ICP12	Preparation Date/Time:	09/25/17 18:34
Analytical Batch:	WG1024391	Analysis Date/Time:	09/26/17 08:27
Dilution Factor:	5	Prep Method:	3015
Analytical Method:	6010C	Sample Vol Used:	_____
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):	_____	Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>ug/l</i>	Qualifier	SDL <i>ug/l</i>	Unadj. MQL <i>ug/l</i>	MQL <i>ug/l</i>
Selenium	7782-49-2	ND		37.0	10.0	50.0

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
FIELD DUPLICATE

ESC Sample ID:	L937868-01	SDG:	L937868
Client Sample ID:	FIELD DUPLICATE	Collected Date/Time:	09/18/17 00:00
Lab File ID:	20170926014327	Received Date/Time:	09/20/17 08:45
Instrument ID:	ICP13	Preparation Date/Time:	09/25/17 18:34
Analytical Batch:	WG1024391	Analysis Date/Time:	09/26/17 01:43
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010C	Sample Vol Used:	_____
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):	_____	Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>ug/l</i>	Qualifier	SDL <i>ug/l</i>	Unadj. MQL <i>ug/l</i>	MQL <i>ug/l</i>
Arsenic	7440-38-2	ND		6.50	10.0	10.0
Barium	7440-39-3	54.1		1.70	5.00	5.00
Cadmium	7440-43-9	ND		0.700	2.00	2.00
Chromium	7440-47-3	ND		1.40	10.0	10.0
Lead	7439-92-1	5.40		1.90	5.00	5.00
Silver	7440-22-4	ND		2.80	5.00	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

ESC Sample ID:	L937868-02	SDG:	L937868
Client Sample ID:	RMW-4	Collected Date/Time:	09/18/17 12:15
Lab File ID:	20170926013333	Received Date/Time:	09/20/17 08:45
Instrument ID:	ICP13	Preparation Date/Time:	09/25/17 18:34
Analytical Batch:	WG1024391	Analysis Date/Time:	09/26/17 01:33
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010C	Sample Vol Used:	_____
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):	_____	Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>ug/l</i>	Qualifier	SDL <i>ug/l</i>	Unadj. MQL <i>ug/l</i>	MQL <i>ug/l</i>
Arsenic	7440-38-2	19.5		6.50	10.0	10.0
Barium	7440-39-3	11.0		1.70	5.00	5.00
Cadmium	7440-43-9	ND		0.700	2.00	2.00
Chromium	7440-47-3	ND		1.40	10.0	10.0
Lead	7439-92-1	7.10		1.90	5.00	5.00
Silver	7440-22-4	ND		2.80	5.00	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

ESC Sample ID:	L937868-03	SDG:	L937868
Client Sample ID:	WELL-09	Collected Date/Time:	09/18/17 15:55
Lab File ID:	20170926014602	Received Date/Time:	09/20/17 08:45
Instrument ID:	ICP13	Preparation Date/Time:	09/25/17 18:34
Analytical Batch:	WG1024391	Analysis Date/Time:	09/26/17 01:46
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010C	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):		Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>ug/l</i>	Qualifier	SDL <i>ug/l</i>	Unadj. MQL <i>ug/l</i>	MQL <i>ug/l</i>
Arsenic	7440-38-2	ND		6.50	10.0	10.0
Barium	7440-39-3	54.4		1.70	5.00	5.00
Cadmium	7440-43-9	ND		0.700	2.00	2.00
Chromium	7440-47-3	ND		1.40	10.0	10.0
Lead	7439-92-1	ND		1.90	5.00	5.00
Silver	7440-22-4	ND		2.80	5.00	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

ESC Sample ID:	L937868-04	SDG:	L937868
Client Sample ID:	RMW-3	Collected Date/Time:	09/18/17 14:30
Lab File ID:	20170926014837	Received Date/Time:	09/20/17 08:45
Instrument ID:	ICP13	Preparation Date/Time:	09/25/17 18:34
Analytical Batch:	WG1024391	Analysis Date/Time:	09/26/17 01:48
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010C	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):		Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>ug/l</i>	Qualifier	SDL <i>ug/l</i>	Unadj. MQL <i>ug/l</i>	MQL <i>ug/l</i>
Arsenic	7440-38-2	ND		6.50	10.0	10.0
Barium	7440-39-3	49.3		1.70	5.00	5.00
Cadmium	7440-43-9	ND		0.700	2.00	2.00
Chromium	7440-47-3	ND		1.40	10.0	10.0
Lead	7439-92-1	5.13		1.90	5.00	5.00
Silver	7440-22-4	ND		2.80	5.00	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

ESC Sample ID:	L937868-05	SDG:	L937868
Client Sample ID:	RMW-9	Collected Date/Time:	09/18/17 11:20
Lab File ID:	20170926020540	Received Date/Time:	09/20/17 08:45
Instrument ID:	ICP13	Preparation Date/Time:	09/25/17 18:34
Analytical Batch:	WG1024391	Analysis Date/Time:	09/26/17 02:05
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010C	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):		Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>ug/l</i>	Qualifier	SDL <i>ug/l</i>	Unadj. MQL <i>ug/l</i>	MQL <i>ug/l</i>
Arsenic	7440-38-2	ND		6.50	10.0	10.0
Barium	7440-39-3	102		1.70	5.00	5.00
Cadmium	7440-43-9	ND		0.700	2.00	2.00
Chromium	7440-47-3	ND		1.40	10.0	10.0
Lead	7439-92-1	ND		1.90	5.00	5.00
Silver	7440-22-4	ND		2.80	5.00	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

ESC Sample ID:	R3252190-1	SDG:	L937868
Client Sample ID:	BLANK	Collected Date/Time:	
Lab File ID:	20170926012618	Received Date/Time:	
Instrument ID:	ICP13	Preparation Date/Time:	09/25/17 18:33
Analytical Batch:	WG1024391	Analysis Date/Time:	09/26/17 01:26
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010C	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):		Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>ug/l</i>	Qualifier	SDL <i>ug/l</i>	Unadj. MQL <i>ug/l</i>	MQL <i>ug/l</i>
Arsenic	7440-38-2	U		6.50	10.0	10.0
Barium	7440-39-3	U		1.70	5.00	5.00
Cadmium	7440-43-9	U		0.700	2.00	2.00
Chromium	7440-47-3	U		1.40	10.0	10.0
Lead	7439-92-1	U		1.90	5.00	5.00
Silver	7440-22-4	U		2.80	5.00	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

ESC Sample ID:	R3252190-2	SDG:	L937868
Client Sample ID:	LCS	Collected Date/Time:	
Lab File ID:	20170926012838	Received Date/Time:	
Instrument ID:	ICP13	Preparation Date/Time:	09/25/17 18:33
Analytical Batch:	WG1024391	Analysis Date/Time:	09/26/17 01:28
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010C	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):		Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>ug/l</i>	Qualifier	SDL <i>ug/l</i>	Unadj. MQL <i>ug/l</i>	MQL <i>ug/l</i>
Arsenic	7440-38-2	968		6.50	10.0	10.0
Barium	7440-39-3	1010		1.70	5.00	5.00
Cadmium	7440-43-9	977		0.700	2.00	2.00
Chromium	7440-47-3	969		1.40	10.0	10.0
Lead	7439-92-1	969		1.90	5.00	5.00
Silver	7440-22-4	193		2.80	5.00	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

ESC Sample ID:	R3252190-3	SDG:	L937868
Client Sample ID:	LCSD	Collected Date/Time:	
Lab File ID:	20170926013057	Received Date/Time:	
Instrument ID:	ICP13	Preparation Date/Time:	09/25/17 18:33
Analytical Batch:	WG1024391	Analysis Date/Time:	09/26/17 01:30
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010C	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):		Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>ug/l</i>	Qualifier	SDL <i>ug/l</i>	Unadj. MQL <i>ug/l</i>	MQL <i>ug/l</i>
Arsenic	7440-38-2	967		6.50	10.0	10.0
Barium	7440-39-3	1020		1.70	5.00	5.00
Cadmium	7440-43-9	979		0.700	2.00	2.00
Chromium	7440-47-3	974		1.40	10.0	10.0
Lead	7439-92-1	973		1.90	5.00	5.00
Silver	7440-22-4	194		2.80	5.00	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3252190-5

ESC Sample ID:	R3252190-5	SDG:	L937868
Client Sample ID:	MS	Collected Date/Time:	09/18/17 12:15
Lab File ID:	20170926013832	Received Date/Time:	09/20/17 08:45
Instrument ID:	ICP13	Preparation Date/Time:	09/25/17 18:34
Analytical Batch:	WG1024391	Analysis Date/Time:	09/26/17 01:38
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010C	Sample Vol Used:	_____
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):	_____	Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>ug/l</i>	Qualifier	SDL <i>ug/l</i>	Unadj. MQL <i>ug/l</i>	MQL <i>ug/l</i>
Arsenic	7440-38-2	997		6.50	10.0	10.0
Barium	7440-39-3	1010		1.70	5.00	5.00
Cadmium	7440-43-9	980		0.700	2.00	2.00
Chromium	7440-47-3	971		1.40	10.0	10.0
Lead	7439-92-1	981		1.90	5.00	5.00
Silver	7440-22-4	195		2.80	5.00	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3252190-6

ESC Sample ID:	R3252190-6	SDG:	L937868
Client Sample ID:	MSD	Collected Date/Time:	09/18/17 12:15
Lab File ID:	20170926014052	Received Date/Time:	09/20/17 08:45
Instrument ID:	ICP13	Preparation Date/Time:	09/25/17 18:34
Analytical Batch:	WG1024391	Analysis Date/Time:	09/26/17 01:40
Dilution Factor:	1	Prep Method:	3015
Analytical Method:	6010C	Sample Vol Used:	_____
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):	_____	Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>ug/l</i>	Qualifier	SDL <i>ug/l</i>	Unadj. MQL <i>ug/l</i>	MQL <i>ug/l</i>
Arsenic	7440-38-2	998		6.50	10.0	10.0
Barium	7440-39-3	1010		1.70	5.00	5.00
Cadmium	7440-43-9	981		0.700	2.00	2.00
Chromium	7440-47-3	964		1.40	10.0	10.0
Lead	7439-92-1	979		1.90	5.00	5.00
Silver	7440-22-4	194		2.80	5.00	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
R3252190-4

ESC Sample ID:	R3252190-4	SDG:	L937868
Client Sample ID:	SD	Collected Date/Time:	09/18/17 12:15
Lab File ID:	20170926013612	Received Date/Time:	09/20/17 08:45
Instrument ID:	ICP13	Preparation Date/Time:	09/25/17 18:34
Analytical Batch:	WG1024391	Analysis Date/Time:	09/26/17 01:36
Dilution Factor:	5	Prep Method:	3015
Analytical Method:	6010C	Sample Vol Used:	_____
Matrix:	GW	Initial Wt/Vol:	45 mL
Total Solids (%):	_____	Final Wt/Vol:	50 mL

Analyte	CAS	Result <i>ug/l</i>	Qualifier	SDL <i>ug/l</i>	Unadj. MQL <i>ug/l</i>	MQL <i>ug/l</i>
Arsenic	7440-38-2	ND		32.5	10.0	50.0
Barium	7440-39-3	10.8		8.50	5.00	25.0
Cadmium	7440-43-9	ND		3.50	2.00	10.0
Chromium	7440-47-3	ND		7.00	10.0	50.0
Lead	7439-92-1	18.2		9.50	5.00	25.0
Silver	7440-22-4	ND		14.0	5.00	25.0

SDG:	L937868	Calibration (begin) date/time:	09/26/17 07:03
Instrument ID:	ICP12	Calibration (end) date/time:	09/26/17 07:19
Analytical Method:	6010C	Analytical Run:	092617ICP12
Concentration Units:	mg/l		

Analyte	Sample ID:	ICV				CCV				ICVLL			
		ICP120926170722				ICP120926170727				ICP120926170732			
	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD	
SELENIUM	1	0.9485666	95	0.786000	1	0.9891038	99	0.655000	0.01	0.01067254	107	16.100000	

SDG:	L937868	Calibration (begin) date/time:	09/26/17 07:03
Instrument ID:	ICP12	Calibration (end) date/time:	09/26/17 07:19
Analytical Method:	6010C	Analytical Run:	092617ICP12
Concentration Units:	mg/l		

		CCV				CCV				CCVLL			
Sample ID:		ICP120926170842				ICP120926170858				ICP120926170940			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD	
SELENIUM	1	1.026209	103	0.772000	1	1.022952	102	0.887000	0.01	0.008011193	80	57.100000	

SDG:
Instrument ID:
Analytical Method:
Concentration Units:

L937868
ICP13
6010C
mg/l

Calibration (begin) date/time:
Calibration (end) date/time:
Analytical Run:

09/25/17 23:34
09/25/17 23:49
092517ICP13

		ICV				CCV				ICVLL			
Sample ID:		ICP130925172351				ICP130926170023				ICP130926170039			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD	
ARSENIC	1	0.9551772	96	0.796000	1	0.9828217	98	0.605000	0.01	0.007322984	73	26.500000	
BARIUM	1	1.012576	101	0.278000	0.50	0.500693	100	0.353000	0.0050	0.005193007	104	2.320000	
CADMIUM	1	0.9623131	96	0.157000	0.50	0.4937524	99	0.139000	0.0020	0.001739267	87	2.500000	
CHROMIUM	1	0.9777869	98	0.491000	1	0.9640876	96	0.497000	0.01	0.00915749	92	5.180000	
LEAD	1	0.9596545	96	0.817000	0.50	0.4821512	96	0.512000	0.0050	0.006242522	125	12.800000	
SILVER	1	0.9585576	96	0.343000	0.50	0.4819418	96	0.373000	0.0050	0.005181434	104	6.790000	

SDG:

Instrument ID:

Analytical Method:

Concentration Units:

L937868
ICP13
6010C
mg/l

Calibration (begin) date/time:

Calibration (end) date/time:

Analytical Run:

09/25/17 23:34
09/25/17 23:49
092517ICP13

Analyte	Sample ID:	CCV				CCV				CCVLL			
		ICP130926170150				ICP130926170215				ICP130926170348			
		True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
ARSENIC	1	0.9879744	99	0.442000	1	0.9850161	99	0.140000	0.01	0.008884876	89	6.440000	
BARIUM	0.50	0.5016944	100	0.225000	0.50	0.500826	100	0.134000	0.0050	0.005164454	103	3.580000	
CADMIUM	0.50	0.4935139	99	0.117000	0.50	0.4940345	99	0.140000	0.0020	0.002068977	103	7.990000	
CHROMIUM	1	0.9635137	96	0.278000	1	0.9631807	96	0.348000	0.01	0.009889437	99	3.650000	
LEAD	0.50	0.4814299	96	0.305000	0.50	0.4815269	96	0.379000	0.0050	0.006057689	121	13.300000	
SILVER	0.50	0.4829561	97	0.122000	0.50	0.4813414	96	0.422000	0.0050	0.004845483	97	16.000000	



SDG:	L937868	Calibration (begin) date/time:	09/26/17 07:03
Instrument ID:	ICP12	Calibration (end) date/time:	09/26/17 07:19
Analytical Method:	6010C	Analytical Run:	092617ICP12

	Sample ID:	ICB Result	ICB Qual	CCB Result	CCB Qual	BLANK Result	BLANK Qual	CCB Result	CCB Qual
	File ID:	20170926072442		20170926072951		20170926081712		20170926084512	
Analyte		mg/l		mg/l		mg/l		mg/l	
SELENIUM		0.004665303	U	0.0009603793	U	ND		-0.002686899	U

SDG:	L937868	Calibration (begin) date/time:	09/26/17 07:03
Instrument ID:	ICP12	Calibration (end) date/time:	09/26/17 07:19
Analytical Method:	6010C	Analytical Run:	092617ICP12

	Sample ID:	CCB Result	CCB Qual
	File ID:	20170926090058	
Analyte		mg/l	
SELENIUM		-0.004130573	U



3-IN

BLANKS

SDG:	L937868	Calibration (begin) date/time:	09/25/17 23:34
Instrument ID:	ICP13	Calibration (end) date/time:	09/25/17 23:49
Analytical Method:	6010C	Analytical Run:	092517ICP13

	Sample ID:	ICB Result	ICB Qual	CCB Result	CCB Qual	BLANK Result	BLANK Qual	CCB Result	CCB Qual
	File ID:	20170926001547		20170926002559		20170926012618		20170926015340	
Analyte		mg/l		mg/l		mg/l		mg/l	
ARSENIC		-0.006007002	U	-0.00333273	U	ND		-0.001904168	U
BARIUM		0.0006449749	U	-0.00001087766	U	ND		-0.00000400341	U
CADMIUM		0.0001985126	U	0.0001129638	U	ND		0.00001913252	U
CHROMIUM		-0.0006260654	U	-0.0003980397	U	ND		-0.0006646893	U
LEAD		0.0008957018	U	0.001739837	U	ND		0.0008937787	U
SILVER		0.0002022034	U	0.0003632195	U	ND		0.0009760422	U

SDG:	L937868	Calibration (begin) date/time:	09/25/17 23:34
Instrument ID:	ICP13	Calibration (end) date/time:	09/25/17 23:49
Analytical Method:	6010C	Analytical Run:	092517ICP13

Sample ID: CCB Result CCB Qual		
File ID: 20170926021837		
Analyte	mg/l	
ARSENIC	-0.002351739	U
BARIUM	0.0002045484	U
CADMIUM	0.0001685926	U
CHROMIUM	-0.00007117706	U
LEAD	0.00117429	U
SILVER	0.0005840414	U



4-IN

INTERFERENCE CHECK SAMPLE

SDG: L937868

Instrument ID: ICP12

Instrument Run: 092617ICP12

Analytical Method:

Date:

6010C

09/26/17 07:58

Analyte	True	Found		True	Found	
	ICSA mg/l	ICSA mg/l	ICSA % Rec.	ICSAB mg/l	ICSAB mg/l	ICSAB % Rec.
ALUMINUM	500	505.9111	101	500	508.883	102
ANTIMONY	0	0.01242044		0.50	0.517936	104
ARSENIC	0	-0.02466335		0.50	0.465275	93
BARIUM	0	0.002575914		0.50	0.4828386	97
BERYLLIUM	0	-0.00003288955		0.50	0.4966586	99
BORON	0	-0.08375189		1	0.8794557	88
CADMIUM	0	0.0002245735		1	1.006886	101
CALCIUM	500	504.8714	101	500	509.3395	102
CE	0	0.07690767		0	0.04534752	
CHROMIUM	0	0.003243619		0.50	0.462483	92
COBALT	0	0.0006068797		0.50	0.5052491	101
COPPER	0	0.006201283		0.50	0.5263134	105
IRON	200	200.7783	100	200	200.4616	100
LEAD	0	-0.03120537		1	0.9313345	93
LITHIUM	0	0.00265231		0	0.004221	
MAGNESIUM	500	511.164	102	500	513.6429	103
MANGANESE	0	0.003844715		0.50	0.469358	94
MOLYBDENUM	0	-0.00104344		0.50	0.4790177	96
NICKEL	0	0.008818885		1	0.9978804	100
PHOSPHORUS	0	0.008935799		0	0.008286891	
POTASSIUM	0	0.009910774		0	0.03610447	
SELENIUM	0	0.006920024		0.50	0.5080499	102
SILICON	0	-0.009648991		1	0.9518137	95
SILVER	0	0.002506465		1	1.032344	103
SODIUM	0	0.02115249		0	0.01725618	
STRONTIUM	0	0.01792457		0	0.01770894	
SULFUR	0	0.05456931		0	0.06268254	
THALLIUM	0	-0.005337759		0.50	0.4693412	94
TIN	0	-0.01200858		0.50	0.4914829	98
TITANIUM	0	0.01795767		0.50	0.5104652	102
VANADIUM	0	0.001361833		0.50	0.502117	100
ZINC	0	0.007195119		1	0.9055411	91

ICSA Limits: 80 - 120

ICSAB Limits: 80 - 120



4-IN

INTERFERENCE CHECK SAMPLE

SDG: L937868

Instrument ID: ICP12

Instrument Run: 092617ICP12

Analytical Method:

Date:

6010C

09/26/17 10:55

Analyte	True	Found		True	Found	
	ICSA mg/l	ICSA mg/l	ICSA % Rec.	ICSAB mg/l	ICSAB mg/l	ICSAB % Rec.
ALUMINUM	500	527.2189	105	500	529.4551	106
ANTIMONY	0	0.0142423		0.50	0.5376682	108
ARSENIC	0	-0.0353439		0.50	0.4892862	98
BARIUM	0	0.002891777		0.50	0.506923	101
BERYLLIUM	0	0.00009457632		0.50	0.5194197	104
BORON	0	-0.08939418		1	0.9093052	91
CADMIUM	0	0.0004830598		1	1.058667	106
CALCIUM	500	523.1522	105	500	525.1987	105
CE	0	0.05824952		0	0.05889528	
CHROMIUM	0	0.002496374		0.50	0.4821816	96
COBALT	0	0.0007683067		0.50	0.5269594	105
COPPER	0	0.006157805		0.50	0.5500593	110
IRON	200	208.5395	104	200	208.6264	104
LEAD	0	-0.03248023		1	0.97498	97
LITHIUM	0	0.003323114		0	0.003245446	
MAGNESIUM	500	534.9947	107	500	535.6087	107
MANGANESE	0	0.003971416		0.50	0.484668	97
MOLYBDENUM	0	-0.0005397276		0.50	0.4988233	100
NICKEL	0	0.008304626		1	1.042362	104
PHOSPHORUS	0	0.006533748		0	0.006878559	
POTASSIUM	0	-0.03442426		0	-0.004721949	
SELENIUM	0	0.006568233		0.50	0.5265024	105
SILICON	0	-0.008350828		1	0.9920495	99
SILVER	0	0.003185704		1	1.073019	107
SODIUM	0	0.02397477		0	0.02958723	
STRONTIUM	0	0.01867145		0	0.01888714	
SULFUR	0	0.05689743		0	0.06539709	
THALLIUM	0	-0.001183701		0.50	0.4882867	98
TIN	0	-0.01207853		0.50	0.506122	101
TITANIUM	0	0.02043128		0.50	0.5382052	108
VANADIUM	0	0.001589252		0.50	0.5178686	104
ZINC	0	0.007319774		1	0.9395255	94

ICSA Limits: 80 - 120

ICSAB Limits: 80 - 120

4-IN

INTERFERENCE CHECK SAMPLE

SDG: L937868
Instrument ID: ICP13
Instrument Run: 092517ICP13

Analytical Method: 6010C
Date: 09/26/17 00:46

Analyte	True	Found		True	Found	
	ICSA mg/l	ICSA mg/l	ICSA % Rec.	ICSAB mg/l	ICSAB mg/l	ICSAB % Rec.
ALUMINUM	500	493.2049	99	500	492.6309	99
ANTIMONY	0	0.01145257		0.50	0.4977791	100
ARSENIC	0	-0.01302694		0.50	0.4888186	98
BARIUM	0	0.002635581		0.50	0.4826111	97
BERYLLIUM	0	0.00002968506		0.50	0.4856526	97
BORON	0	-0.1082221		1	0.8557894	86
CADMIUM	0	0.0003330074		1	1.000006	100
CALCIUM	500	493.952	99	500	492.3491	98
CE	0	-0.03803997		0	-0.02772285	
CHROMIUM	0	0.002749225		0.50	0.4651227	93
COBALT	0	0.0003852113		0.50	0.5007055	100
COPPER	0	-0.005065709		0.50	0.5049099	101
IRON	200	197.1317	99	200	196.4659	98
LEAD	0	-0.02702935		1	0.9216996	92
LITHIUM	0	0.00687072		0	0.006945022	
MAGNESIUM	500	499.8195	100	500	498.3604	100
MANGANESE	0	0.003809434		0.50	0.4651505	93
MOLYBDENUM	0	-0.000374005		0.50	0.479905	96
NICKEL	0	0.004325788		1	0.9784757	98
POTASSIUM	0	0.004033991		0	0.0279141	
SELENIUM	0	-0.02028244		0.50	0.4729166	95
SILICON	0	-0.007396679		1	0.9395195	94
SILVER	0	0.00208526		1	1.056054	106
SODIUM	0	0.03529551		0	0.05455849	
STRONTIUM	0	0.01665325		0	0.01679622	
SULFUR	0	0.04327989		0	0.04798259	
THALLIUM	0	-0.01331905		0.50	0.4462058	89
TIN	0	0.001529002		0.50	0.4347568	87
TITANIUM	0	0.03482657		0.50	0.5156979	103
VANADIUM	0	-0.002058731		0.50	0.4702124	94
ZINC	0	0.006584277		1	0.9052708	91

ICSA Limits: 80 - 120

ICSAB Limits: 80 - 120



4-IN

INTERFERENCE CHECK SAMPLE

SDG: L937868
Instrument ID: ICP13
Instrument Run: 092517ICP13

Analytical Method: 6010C
Date: 09/26/17 03:51

Analyte	True	Found		True	Found	
	ICSA mg/l	ICSA mg/l	ICSA % Rec.	ICSAB mg/l	ICSAB mg/l	ICSAB % Rec.
ALUMINUM	500	489.9334	98	500	487.6334	98
ANTIMONY	0	0.004095427		0.50	0.4987164	100
ARSENIC	0	-0.005532841		0.50	0.4944094	99
BARIUM	0	0.002745085		0.50	0.4854961	97
BERYLLIUM	0	-0.000005898382		0.50	0.479971	96
BORON	0	0.4475921		1	1.331036	133
CADMIUM	0	0.0001106792		1	1.001371	100
CALCIUM	500	492.221	98	500	492.4248	98
CE	0	-0.04641184		0	-0.02651031	
CHROMIUM	0	0.002011102		0.50	0.4641898	93
COBALT	0	-0.0002109142		0.50	0.500287	100
COPPER	0	-0.004569145		0.50	0.5047468	101
IRON	200	196.5474	98	200	196.643	98
LEAD	0	-0.02789107		1	0.920356	92
LITHIUM	0	0.008281306		0	0.007663928	
MAGNESIUM	500	495.1638	99	500	493.7271	99
MANGANESE	0	0.003823266		0.50	0.464486	93
MOLYBDENUM	0	-0.0006685617		0.50	0.4809633	96
NICKEL	0	0.004611527		1	0.9752247	98
POTASSIUM	0	1.732946		0	1.392057	
SELENIUM	0	-0.022432		0.50	0.4723553	94
SILICON	0	-0.00742583		1	0.9414901	94
SILVER	0	0.002535727		1	1.054367	105
SODIUM	0	0.1236453		0	0.1027493	
STRONTIUM	0	0.01662501		0	0.01663689	
SULFUR	0	0.07247384		0	0.07154708	
THALLIUM	0	-0.01001723		0.50	0.4480058	90
TIN	0	0.0007298758		0.50	0.4361983	87
TITANIUM	0	0.03531852		0.50	0.5170732	103
VANADIUM	0	0.002106417		0.50	0.470759	94
ZINC	0	0.08803392		1	0.9699043	97

ICSA Limits: 80 - 120

ICSAB Limits: 80 - 120

MATRIX SPIKE /
MATRIX SPIKE DUPLICATE RECOVERY
L937868-01,02,03,04,05

MS Sample / File ID:	R3252254-5 / 20170926082948	SDG:	L937868
MSD Sample / File ID:	R3252254-6 / 20170926083212	Analytical Batch:	WG1024391
OS Sample / File ID:	L937868-02 / 20170926082442	Matrix:	GW
Instrument ID:	ICP12		
Analytical Method:	6010C		

Analyte	Spike Amount <i>ug/l</i>	OS Result <i>ug/l</i>	MS Result <i>ug/l</i>	MSD Result <i>ug/l</i>	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	RPD %	RPD Limits %
Selenium	1000	ND	1040	1050	104	105	1	75 - 125	1	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

MATRIX SPIKE /
MATRIX SPIKE DUPLICATE RECOVERY
L937868-01,02,03,04,05

MS Sample / File ID:

MSD Sample / File ID:

OS Sample / File ID:

Instrument ID:

Analytical Method:

R3252190-5 / 20170926013832

R3252190-6 / 20170926014052

L937868-02 / 20170926013333

ICP13

6010C

SDG:

Analytical Batch:

Matrix:

L937868

WG1024391

GW

Analyte	Spike Amount <i>ug/l</i>	OS Result <i>ug/l</i>	MS Result <i>ug/l</i>	MSD Result <i>ug/l</i>	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	RPD %	RPD Limits %
Arsenic	1000	19.5	997	998	98	98	1	75 - 125	0	20
Barium	1000	11.0	1010	1010	100	100	1	75 - 125	0	20
Cadmium	1000	ND	980	981	98	98	1	75 - 125	0	20
Chromium	1000	ND	971	964	97	96	1	75 - 125	1	20
Lead	1000	7.10	981	979	97	97	1	75 - 125	0	20
Silver	200	ND	195	194	98	97	1	75 - 125	1	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY
L937868-01,02,03,04,05

LCS Sample / File ID:	R3252254-2 / 20170926081937	SDG:	L937868
LCSD Sample / File ID:	R3252254-3 / 20170926082203	Analytical Batch:	WG1024391
Instrument ID:	ICP12	Dilution Factor:	1
Analytical Method:	6010C	Matrix:	GW

Analyte	Spike Amount <i>ug/l</i>	LCS Result <i>ug/l</i>	LCSD Result <i>ug/l</i>	LCS Rec. %	LCSD Rec. %	Rec. Limits %	RPD %	RPD Limits %
Selenium	1000	1010	1020	101	102	80 - 120	1	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY
L937868-01,02,03,04,05

LCS Sample / File ID:	R3252190-2 / 20170926012838	SDG:	L937868
LCSD Sample / File ID:	R3252190-3 / 20170926013057	Analytical Batch:	WG1024391
Instrument ID:	ICP13	Dilution Factor:	1
Analytical Method:	6010C	Matrix:	GW

Analyte	Spike Amount <i>ug/l</i>	LCS Result <i>ug/l</i>	LCSD Result <i>ug/l</i>	LCS Rec. %	LCSD Rec. %	Rec. Limits %	RPD %	RPD Limits %
Arsenic	1000	968	967	97	97	80 - 120	0	20
Barium	1000	1010	1020	101	102	80 - 120	0	20
Cadmium	1000	977	979	98	98	80 - 120	0	20
Chromium	1000	969	974	97	97	80 - 120	1	20
Lead	1000	969	973	97	97	80 - 120	0	20
Silver	200	193	194	96	97	80 - 120	1	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

ICP AND ICP/MS
SERIAL DILUTIONS
L937868-01,02,03,04,05

SD Sample / File ID:	R3252254-4 / 20170926082723	SDG:	L937868
OS Sample / File ID:	L937868-02 / 20170926082442	Analytical Batch:	WG1024391
Lab File ID:	20170926082723	Dilution Factor:	5
Instrument ID:	ICP12	Matrix:	GW
Analytical Method:	6010C		

Analyte	OS Result <i>ug/l</i>	SD Result <i>ug/l</i>	RPD %	RPD Limits %
Selenium	ND	ND	0	10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

ICP AND ICP/MS
SERIAL DILUTIONS
L937868-01,02,03,04,05

SD Sample / File ID:

OS Sample / File ID:

Lab File ID:

Instrument ID:

Analytical Method:

R3252190-4 / 20170926013612

L937868-02 / 20170926013333

20170926013612

ICP13

6010C

SDG:

Analytical Batch:

Dilution Factor:

Matrix:

L937868

WG1024391

5

GW

Analyte	OS Result <i>ug/l</i>	SD Result <i>ug/l</i>	RPD %	RPD Limits %
Arsenic	19.5	ND	0	10
Barium	11.0	10.8	2	10
Cadmium	ND	ND	0	10
Chromium	ND	ND	0	10
Lead	7.10	18.2	0	10
Silver	ND	ND	0	10

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

10A-IN

INTERELEMENT CORRECTION FACTORS

SDG: L937868
Instrument ID: ICP12**Analytical Method:** 6010C
Date: 01/25/17 08:34

Analyte	Wavelength nm	ALUMINUM 308.2150	ARSENIC 189.0420	Ce 535.3530	CHROMIUM 267.7160	COBALT 228.6160	COPPER 324.7540	IRON 271.4410
ALUMINUM	308.2150							
ANTIMONY	206.8330				-0.00066683			
ARSENIC	189.0420	-0.00013823						0.00300764
BORON	249.6780					-0.00013249		
CADMIUM	228.8020		-0.13591734					
COBALT	228.6160							
LEAD	220.3530	0.00057599		-0.00433705			-0.00011616	-0.00084353
SELENIUM	196.09							0.00200202
SILICON	251.6110							
SILVER	328.0680			0.04461687				
THALLIUM	190.8560							

SDG:
Instrument ID:

L937868
ICP12

Analytical Method:
Date:

6010C
01/25/17 08:34

Analyte	Wavelength nm	MANGANESE 257.61	MOLYBDENUM 202.03	SILICON 251.6110	TITANIUM 334.9410	VANADIUM 292.4020
ALUMINUM	308.2150					-0.00505496
ANTIMONY	206.8330					
ARSENIC	189.0420		-0.00015237			
BORON	249.6780					
CADMIUM	228.8020					
COBALT	228.6160				-0.00509240	
LEAD	220.3530			-0.00017348		
SELENIUM	196.09					
SILICON	251.6110		-0.01362753			
SILVER	328.0680					
THALLIUM	190.8560	-0.00001017				-0.00110718



10A-IN

INTERELEMENT CORRECTION FACTORS

SDG: L937868
Instrument ID: ICP13

Analytical Method: 6010C
Date: 07/17/17 09:42

Analyte	Wavelength nm	ALUMINUM 308.2150	ARSENIC 189.0420	BORON 249.6780	CALCIUM 373.69	Ce 535.3530	CHROMIUM 267.7160	COBALT 228.6160
ALUMINUM	308.2150							
ANTIMONY	206.8330						-0.00116566	
ARSENIC	189.0420	0.00004840		-0.00031610		0.00073197	-0.00000597	
BARIUM	233.5270							
BERYLLIUM	313.0420							
BORON	249.6780							-0.00005604
CADMIUM	228.8020		-0.14794511					
COBALT	228.6160							
COPPER	324.7540							
LEAD	220.3530							
LITHIUM	670.7840				-0.00125774			
MANGANESE	257.61						-0.00101473	
NICKEL	231.6040							0.00010581
SELENIUM	196.09							
SILICON	251.6110							
SILVER	328.0680					0.02324668		
STRONTIUM	421.5520				-0.00326516			
THALLIUM	190.8560							-0.00042419
VANADIUM	292.4020							
ZINC	206.20						0.00084749	



10A-IN

INTERELEMENT CORRECTION FACTORS

SDG: L937868
Instrument ID: ICP13

Analytical Method: 6010C
Date: 07/17/17 09:42

Analyte	Wavelength nm	COPPER 324.7540	IRON 271.4410	LEAD 220.3530	MANGANESE 257.61	MOLYBDENUM 202.03	SILICON 251.6110	TITANIUM 334.9410
ALUMINUM	308.2150					-0.00040677	-0.00091292	
ANTIMONY	206.8330							
ARSENIC	189.0420		0.00010734			0.00011343		
BARIUM	233.5270		-0.00338551					
BERYLLIUM	313.0420							0.01154647
BORON	249.6780							
CADMIUM	228.8020							
COBALT	228.6160							-0.00559518
COPPER	324.7540		0.03877463	-0.00043252				
LEAD	220.3530	-0.00017966	-0.00194643					
LITHIUM	670.7840							
MANGANESE	257.61							
NICKEL	231.6040		-0.00146375					
SELENIUM	196.09		-0.00039113		-0.00000687			
SILICON	251.6110					-0.00968628		
SILVER	328.0680							
STRONTIUM	421.5520							-0.00724584
THALLIUM	190.8560				-0.00001927			
VANADIUM	292.4020							-0.00035384
ZINC	206.20							

SDG:	L937868	Analytical Method:	6010C
Instrument ID:	ICP13	Date:	07/17/17 09:42

Analyte	Wavelength nm	VANADIUM 292.4020
ALUMINUM	308.2150	-0.00504047
ANTIMONY	206.8330	
ARSENIC	189.0420	
BARIUM	233.5270	
BERYLLIUM	313.0420	
BORON	249.6780	
CADMIUM	228.8020	
COBALT	228.6160	
COPPER	324.7540	
LEAD	220.3530	
LITHIUM	670.7840	
MANGANESE	257.61	
NICKEL	231.6040	
SELENIUM	196.09	
SILICON	251.6110	
SILVER	328.0680	
STRONTIUM	421.5520	
THALLIUM	190.8560	
VANADIUM	292.4020	
ZINC	206.20	



SDG: L937868
Instrument ID: ICP12

Analytical Method: 6010C
Date: 09/01/17 12:47

Analyte	LDR <i>ppm</i>
ALUMINUM	1000
ANTIMONY	20
ARSENIC	100
BARIUM	25
BERYLLIUM	10
BORON	50
CADMIUM	20
CALCIUM	1000
CHROMIUM	50
COBALT	100
COPPER	20
IRON	1000
LEAD	100
LITHIUM	50
MAGNESIUM	1000
MANGANESE	4
MOLYBDENUM	20
NICKEL	100
POTASSIUM	500
SELENIUM	100
SILICON	100
SILVER	20
SODIUM	1000
STRONTIUM	20
SULFUR	100
THALLIUM	20
TIN	50
TITANIUM	50
VANADIUM	20
ZINC	20



SDG: L937868
Instrument ID: ICP13

Analytical Method: 6010C
Date: 09/08/17 14:58

Analyte	LDR <i>ppm</i>
ALUMINUM	1000
ANTIMONY	20
ARSENIC	100
BARIUM	50
BERYLLIUM	10
BORON	50
CADMIUM	20
CALCIUM	1000
CHROMIUM	50
COBALT	100
COPPER	50
IRON	500
LEAD	100
LITHIUM	50
MAGNESIUM	1000
MANGANESE	10
MOLYBDENUM	20
NICKEL	100
POTASSIUM	500
SELENIUM	100
SILICON	100
SILVER	20
SODIUM	1000
STRONTIUM	20
SULFUR	100
THALLIUM	10
TIN	50
TITANIUM	50
VANADIUM	20
ZINC	20



12-IN

ANALYSIS LOG

SDG:	L937868	Analytical Method:	6010C
Instrument ID:	ICP12	Calibration Start Date:	09/26/17 07:03
Analytical Run:	092617ICP12	Calibration End Date:	09/26/17 07:19

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CALBLK	ICP120926170701	20170926070103	09/26/17 07:01	1	
CAL	STD1	20170926070346	09/26/17 07:03	1	
CAL	STD2	20170926070616	09/26/17 07:06	1	
CAL	STD3	20170926070844	09/26/17 07:08	1	
CAL	STD4	20170926071109	09/26/17 07:11	1	
CAL	STD5	20170926071345	09/26/17 07:13	1	
CAL	STD6	20170926071621	09/26/17 07:16	1	
CAL	STD7	20170926071905	09/26/17 07:19	1	
ICV	ICP120926170722	20170926072200	09/26/17 07:22	1	
ICB	ICP120926170724	20170926072442	09/26/17 07:24	1	
CCV	ICP120926170727	20170926072710	09/26/17 07:27	1	
CCB	ICP120926170729	20170926072951	09/26/17 07:29	1	
ICVLL	ICP120926170732	20170926073233	09/26/17 07:32	1	
ICSA	ICP120926170758	20170926075828	09/26/17 07:58	1	
ICSA	ICP120926170801	20170926080109	09/26/17 08:01	1	
ICSAB	ICP120926170803	20170926080336	09/26/17 08:03	1	
BLANK	R3252254-1	20170926081712	09/26/17 08:17	1	WG1024391
LCS	R3252254-2	20170926081937	09/26/17 08:19	1	WG1024391
LCS D	R3252254-3	20170926082203	09/26/17 08:22	1	WG1024391
RMW-4	L937868-02	20170926082442	09/26/17 08:24	1	WG1024391
SD	R3252254-4	20170926082723	09/26/17 08:27	5	WG1024391
MS	R3252254-5	20170926082948	09/26/17 08:29	1	WG1024391
MSD	R3252254-6	20170926083212	09/26/17 08:32	1	WG1024391
FIELD DUPLICATE	L937868-01	20170926083449	09/26/17 08:34	1	WG1024391
WELL-09	L937868-03	20170926083725	09/26/17 08:37	1	WG1024391
RMW-3	L937868-04	20170926084002	09/26/17 08:40	1	WG1024391
CCV	ICP120926170842	20170926084230	09/26/17 08:42	1	
CCB	ICP120926170845	20170926084512	09/26/17 08:45	1	
RMW-9	L937868-05	20170926084749	09/26/17 08:47	1	WG1024391
CCV	ICP120926170858	20170926085816	09/26/17 08:58	1	
CCB	ICP120926170900	20170926090058	09/26/17 09:00	1	
CCVLL	ICP120926170940	20170926094007	09/26/17 09:40	1	
ICSA	ICP120926171055	20170926105514	09/26/17 10:55	1	
ICSAB	ICP120926171057	20170926105742	09/26/17 10:57	1	



12-IN

ANALYSIS LOG

SDG:	L937868	Analytical Method:	6010C
Instrument ID:	ICP13	Calibration Start Date:	09/25/17 23:34
Analytical Run:	092517ICP13	Calibration End Date:	09/25/17 23:49

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CALBLK	ICP130925172331	20170925233141	09/25/17 23:31	1	
CAL	STD1	20170925233422	09/25/17 23:34	1	
CAL	STD2	20170925233649	09/25/17 23:36	1	
CAL	STD3	20170925233912	09/25/17 23:39	1	
CAL	STD4	20170925234129	09/25/17 23:41	1	
CAL	STD5	20170925234404	09/25/17 23:44	1	
CAL	STD6	20170925234647	09/25/17 23:46	1	
CAL	STD7	20170925234939	09/25/17 23:49	1	
ICV	ICP130925172351	20170925235159	09/25/17 23:51	1	
ICB	ICP130926170015	20170926001547	09/26/17 00:15	1	
CCV	ICP130926170023	20170926002319	09/26/17 00:23	1	
CCB	ICP130926170025	20170926002559	09/26/17 00:25	1	
ICVLL	ICP130926170039	20170926003937	09/26/17 00:39	1	
ICSA	ICP130926170046	20170926004653	09/26/17 00:46	1	
ICSAB	ICP130926170049	20170926004922	09/26/17 00:49	1	
BLANK	R3252190-1	20170926012618	09/26/17 01:26	1	WG1024391
LCS	R3252190-2	20170926012838	09/26/17 01:28	1	WG1024391
LCSD	R3252190-3	20170926013057	09/26/17 01:30	1	WG1024391
RMW-4	L937868-02	20170926013333	09/26/17 01:33	1	WG1024391
SD	R3252190-4	20170926013612	09/26/17 01:36	5	WG1024391
MS	R3252190-5	20170926013832	09/26/17 01:38	1	WG1024391
MSD	R3252190-6	20170926014052	09/26/17 01:40	1	WG1024391
FIELD DUPLICATE	L937868-01	20170926014327	09/26/17 01:43	1	WG1024391
WELL-09	L937868-03	20170926014602	09/26/17 01:46	1	WG1024391
RMW-3	L937868-04	20170926014837	09/26/17 01:48	1	WG1024391
CCV	ICP130926170150	20170926015059	09/26/17 01:50	1	
CCB	ICP130926170153	20170926015340	09/26/17 01:53	1	
RMW-9	L937868-05	20170926020540	09/26/17 02:05	1	WG1024391
CCV	ICP130926170215	20170926021557	09/26/17 02:15	1	
CCB	ICP130926170218	20170926021837	09/26/17 02:18	1	
CCVLL	ICP130926170348	20170926034854	09/26/17 03:48	1	
ICSA	ICP130926170351	20170926035139	09/26/17 03:51	1	
ICSAB	ICP130926170354	20170926035409	09/26/17 03:54	1	

SDG:	L937868	Calibration (begin) date/time:	09/26/17 07:03
Instrument ID:	ICP12	Calibration (end) date/time:	09/26/17 07:19
Analytical Method:	6010C	Analytical Run:	092617ICP12

Analyte	Std Conc mg/l	Result mg/l	Rec. %	Std Conc mg/l	Result mg/l	Rec. %
SELENIUM	0.01	.01058442	106	0.50	.4861492	97
File ID:		20170926070346			20170926070616	

SDG:	L937868	Calibration (begin) date/time:	09/26/17 07:03
Instrument ID:	ICP12	Calibration (end) date/time:	09/26/17 07:19
Analytical Method:	6010C	Analytical Run:	092617ICP12

Analyte	Std Conc mg/l	Result mg/l	Rec. %	Std Conc mg/l	Result mg/l	Rec. %
SELENIUM	1	.9759791	98	2	2.01547	101
File ID:		20170926070844			20170926071109	

SDG:	L937868	Calibration (begin) date/time:	09/25/17 23:34
Instrument ID:	ICP13	Calibration (end) date/time:	09/25/17 23:49
Analytical Method:	6010C	Analytical Run:	092517ICP13

Analyte	Std Conc mg/l	Result mg/l	Rec. %	Std Conc mg/l	Result mg/l	Rec. %
ARSENIC	0.01	.007516973	75	0.50	.4826152	97
BARIUM	0.0050	.005159278	103	0.50	.5155114	103
CADMIUM	0.0020	.002124723	106	0.50	.4912696	98
CHROMIUM	0.01	.008886684	89	0.50	.4984453	100
LEAD	0.0050	.00667226	133	0.50	.4875035	98
SILVER	0.0050	.004792316	96	0.50	.4942393	99
File ID:		20170925233422			20170925233649	

SDG:	L937868	Calibration (begin) date/time:	09/25/17 23:34
Instrument ID:	ICP13	Calibration (end) date/time:	09/25/17 23:49
Analytical Method:	6010C	Analytical Run:	092517ICP13

Analyte	Std Conc mg/l	Result mg/l	Rec. %	Std Conc mg/l	Result mg/l	Rec. %
ARSENIC	1	.9896511	99	2	2.009533	100
BARIUM	1	1.024046	102	2	2.037054	102
CADMIUM	1	.9855589	99	2	2.009403	100
CHROMIUM	1	1.001144	100	2	1.999822	100
LEAD	1	.985515	99	2	2.010362	101
SILVER	1	1.002881	100	2	2.040207	102
File ID:		20170925233912			20170925234129	

SDG:	L937868	Calibration (begin) date/time:	09/25/17 23:34
Instrument ID:	ICP13	Calibration (end) date/time:	09/25/17 23:49
Analytical Method:	6010C	Analytical Run:	092517ICP13

Analyte	Std Conc mg/l	Result mg/l	Rec. %
ARSENIC			
BARIUM	10	9.989409	100
CADMIUM			
CHROMIUM			
LEAD			
SILVER			
File ID:	20170925234404		

INITIAL
CALIBRATION

SDG:	L937868	Calibration (begin) date/time:	09/26/17 07:03
Instrument ID:	ICP12	Calibration (end) date/time:	09/26/17 07:19
Analytical Method:	6010C	Analytical Run:	092617ICP12

Analyte	Wavelength	Cal. Type	Weightage	Corr.	Slope	Incpt
SELENIUM	196.09	8	5	0.999821	234.2774	1.352984

Calibration Type
8 = Linear Regression Forced through Blank
Weightage
5 = None

INITIAL
CALIBRATION

SDG: L937868
Instrument ID: ICP13
Analytical Method: 6010C

Calibration (begin) date/time: 09/25/17 23:34
Calibration (end) date/time: 09/25/17 23:49
Analytical Run: 092517ICP13

Analyte	Wavelength	Cal. Type	Weightage	Corr.	Slope	Incpt
ARSENIC	189.042	8	5	0.99991	348.922	-0.658776
BARIUM	233.527	8	5	0.999985	6503.828	4.413978
CADMIUM	228.802	8	5	0.999934	11170.26	3.323965
CHROMIUM	267.716	8	5	0.999999	6143.072	26.58134
LEAD	220.353	8	5	0.999915	1286.392	-1.153835
SILVER	328.068	8	5	0.99997	9438.337	-10.98409

Calibration Type

8 = Linear Regression Forced through Blank

Weightage

5 = None

Sample ID: CALBLK Units: mg/l

Analyzed: 09/26/17 07:01 Sequence: 2 Standard ID: 17F16812

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11414.22	11407.14	11414.79	11420.73
YTTRIUM	360.073	Radial	5595.146	5577.113	5598.708	5609.617
YTTRIUM	360.073	Axial	179756.5	178734.8	179797.6	180736.9
INDIUM	230.606	Axial	3638.604	3635.304	3639.809	3640.697

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	0.9621212	0.05909091	-0.4590909	3.286364
ANTIMONY	206.833	Axial	0.05261870	0.1761409	0.8783487	-0.8966335
ARSENIC	189.042	Axial	-1.39738	-0.8572692	-1.824088	-1.510797
BARIUM	233.527	Axial	2.730315	3.280529	1.949025	2.961389
BERYLLIUM	313.042	Radial	0.1000000	-1.150000	-0.4500000	1.900000
BORON	249.678	Radial	0.3833333	-0.1500000	1.133333	0.1666667
CADMIUM	228.802	Axial	3.754754	3.455158	3.748126	4.060977
CALCIUM	317.933	Radial	43.01667	44.36667	40.70	43.98333
CALCIUM	373.690	Radial	17.94861	20.26250	13.95833	19.6250
Ce	535.353	Radial	7.238889	3.283333	16.73333	1.700000
CHROMIUM	267.716	Axial	7.862877	7.270916	9.870389	6.447325
COBALT	228.616	Axial	3.325475	1.496819	4.372814	4.106793
COPPER	324.754	Axial	263.2344	260.9230	267.2316	261.5487
IRON	259.940	Radial	1.422222	0.9166667	0.6166667	2.733333
IRON	271.441	Radial	0.7166667	-0.6833333	1.183333	1.65
LEAD	220.353	Axial	0.6526495	1.316647	0.9939475	-0.3526455
LITHIUM	670.784	Radial	-4.23666	-12.86500	5.280000	-5.125
MAGNESIUM	279.079	Radial	-1.40166	-1.48	-0.7100000	-2.015
MANGANESE	257.610	Axial	7.208984	8.167331	5.333998	8.125623
MOLYBDENUM	202.030	Axial	0.4256458	0.6947736	0.9432784	-0.3611146
NICKEL	231.604	Axial	-1.17899	-1.796183	-1.620023	-0.1207880
PHOSPHORUS	177.495	Axial	-0.2033981	-1.197455	0.1499250	0.4373360
POTASSIUM	766.490	Radial	0.8305556	11.45000	-2.504167	-6.454167
SELENIUM	196.090	Axial	1.353252	0.5862542	1.561719	1.911783
SILICON	251.611	Axial	32.46389	32.83533	32.81406	31.74227
SILVER	328.068	Axial	-37.4865	-36.28818	-36.29113	-39.88036
SODIUM	589.592	Radial	23.58333	10.98000	37.05500	22.71500
SODIUM	818.326	Radial	-152.300	-147.00	-165.900	-144.00
STRONTIUM	421.552	Radial	-2.56666	2.733333	-3.433333	-7.000000
SULFUR	182.034	Axial	0.4151155	-0.02910482	0.5663835	0.7080678
THALLIUM	190.856	Axial	1.389969	1.895971	1.686657	0.5872798
TIN	189.989	Axial	0.08714666	0.5613072	-0.1624188	-0.1374485
TITANIUM	334.941	Radial	2.65	4.3	0.3000000	3.350000
VANADIUM	292.402	Radial	-0.5666667	-2.650000	0.10000000	0.8500000
ZINC	206.200	Axial	4.195634	4.453037	4.685157	3.448707

Sample ID: STD1 Units: mg/l

Analyzed: 09/26/17 07:03 Sequence: 3 Standard ID: 17G05089

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11394.09	11386.67	11419.88	11375.73
YTTRIUM	360.073	Radial	5624.272	5554.704	5696.538	5621.575
YTTRIUM	360.073	Axial	181401.3	181294.2	181200.2	181709.5
INDIUM	230.606	Axial	3611.011	3610.557	3617.829	3604.647

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	8.684848	10.00909	8.304545	7.740909
ANTIMONY	206.833	Axial	2.236948	2.647683	2.078506	1.984654
ARSENIC	189.042	Axial	1.475809	1.357903	1.585571	1.483952
BARIUM	233.527	Axial	28.45506	29.09954	28.51074	27.75490
BERYLLIUM	313.042	Radial	18.76667	17.60	22.150	16.550
BORON	249.678	Radial	20.06111	18.68333	20.650	20.850
CADMIUM	228.802	Axial	12.30885	12.07693	13.31834	11.53126
CALCIUM	317.933	Radial	283.2333	279.2667	287.100	283.3333
CHROMIUM	267.716	Axial	59.71939	62.67465	60.63936	55.84416
COBALT	228.616	Axial	28.21366	28.62495	28.50242	27.51362
COPPER	324.754	Axial	380.6709	378.5762	380.8192	382.6174
IRON	259.940	Radial	20.02222	18.28333	20.63333	21.150
LEAD	220.353	Axial	2.923795	3.241608	2.357155	3.172622
LITHIUM	670.784	Radial	82.80833	90.3750	80.770	77.28000
MAGNESIUM	279.079	Radial	29.25833	27.970	29.0150	30.790
MANGANESE	257.610	Axial	442.9275	438.5729	449.2507	440.9590
MOLYBDENUM	202.030	Axial	13.70248	13.40452	13.70815	13.99476
NICKEL	231.604	Axial	13.70037	13.97527	13.99717	13.12867
PHOSPHORUS	177.495	Axial	3.038664	2.622705	3.410795	3.082491
POTASSIUM	766.490	Radial	310.9556	300.8500	321.0208	310.9958
SELENIUM	196.090	Axial	3.824967	3.172224	3.260870	5.041807
SILICON	251.611	Axial	455.0860	451.7964	455.1573	458.3042
SILVER	328.068	Axial	-1.75345	-1.031271	-3.929404	-0.2997003
SODIUM	589.592	Radial	1121.887	1109.665	1127.515	1128.480
STRONTIUM	421.552	Radial	166.600	163.0333	170.400	166.3667
SULFUR	182.034	Axial	124.8851	125.0989	125.4206	124.1358
THALLIUM	190.856	Axial	6.164606	5.994755	6.109445	6.389617
TIN	189.989	Axial	35.34798	35.48145	35.24488	35.31761
TITANIUM	334.941	Radial	64.96667	65.850	63.10	65.950
VANADIUM	292.402	Radial	6.333333	6.400000	6.150000	6.450000
ZINC	206.200	Axial	176.2445	176.5580	175.7746	176.4008

Sample ID: STD2 Units: mg/l

Analyzed: 09/26/17 07:06 Sequence: 4 Standard ID: 17H30304

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11567.33	11619.97	11550.37	11531.65
YTTRIUM	360.073	Radial	5737.547	5744.377	5670.777	5797.487
YTTRIUM	360.073	Axial	182337.5	182263.7	182673.5	182075.2
INDIUM	230.606	Axial	3622.603	3633.250	3618.593	3615.966

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ANTIMONY	206.833	Axial	170.8497	171.6374	171.0590	169.8528
ARSENIC	189.042	Axial	153.9350	153.6199	154.1400	154.0450
BERYLLIUM	313.042	Radial	5318.678	5300.498	5313.562	5341.974
BORON	249.678	Radial	53.13334	53.25365	54.78380	51.36258
CADMIUM	228.802	Axial	2643.643	2654.041	2642.861	2634.028
CHROMIUM	267.716	Axial	2698.140	2681.791	2709.833	2702.794
COBALT	228.616	Axial	1328.264	1330.285	1331.101	1323.405
COPPER	324.754	Axial	6139.764	6102.339	6159.967	6156.986
IRON	259.940	Radial	99.80359	99.65139	100.8228	98.93652
LEAD	220.353	Axial	279.4618	278.1512	280.1999	280.0344
LITHIUM	670.784	Radial	3048.788	3041.932	3039.496	3064.935
MANGANESE	257.610	Axial	22332.17	22218.92	22423.00	22354.59
MOLYBDENUM	202.030	Axial	1354.884	1359.029	1357.414	1348.210
NICKEL	231.604	Axial	762.8927	763.8643	763.9767	760.8372
PHOSPHORUS	177.495	Axial	184.7302	185.7464	184.3973	184.0469
SELENIUM	196.090	Axial	116.7940	117.7014	117.2767	115.4038
SILICON	251.611	Axial	1254.310	1238.078	1265.467	1259.385
SILVER	328.068	Axial	3274.110	3264.042	3286.000	3272.289
STRONTIUM	421.552	Radial	8906.845	8897.576	8858.751	8964.207
THALLIUM	190.856	Axial	252.7084	253.2792	253.6665	251.1796
TIN	189.989	Axial	368.6488	371.0806	368.4072	366.4586
TITANIUM	334.941	Radial	654.4669	661.5538	646.8619	654.9850
VANADIUM	292.402	Radial	144.1798	147.8088	139.5663	145.1645
ZINC	206.200	Axial	1795.127	1802.461	1796.502	1786.419

Sample ID: STD3 Units: mg/l

Analyzed: 09/26/17 07:08 Sequence: 5 Standard ID: 17H30303

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11536.20	11549.13	11556.35	11503.12
YTTRIUM	360.073	Radial	5732.007	5724.807	5699.417	5771.798
YTTRIUM	360.073	Axial	182334.5	182456.5	182852.7	181694.3
INDIUM	230.606	Axial	3583.976	3583.672	3586.359	3581.895

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ANTIMONY	206.833	Axial	339.5127	341.2939	339.9010	337.3432
ARSENIC	189.042	Axial	306.6955	308.8742	305.7844	305.4280
BARIUM	233.527	Axial	5099.642	5109.272	5114.564	5075.091
BERYLLIUM	313.042	Radial	10480.45	10518.67	10428.22	10494.46
BORON	249.678	Radial	103.9308	102.5359	104.0380	105.2185
CADMIUM	228.802	Axial	5253.904	5273.655	5259.726	5228.331
CHROMIUM	267.716	Axial	5294.210	5317.128	5282.668	5282.833
COBALT	228.616	Axial	2620.993	2622.821	2628.371	2611.787
COPPER	324.754	Axial	11839.03	11935.25	11795.41	11786.43
IRON	259.940	Radial	192.9628	193.5237	190.0445	195.3203
LEAD	220.353	Axial	550.9385	554.2272	552.1058	546.4824
LITHIUM	670.784	Radial	5952.108	5970.802	5924.039	5961.485
MANGANESE	257.610	Axial	43794.52	43959.70	43766.47	43657.40
MOLYBDENUM	202.030	Axial	2663.731	2674.164	2671.852	2645.177
NICKEL	231.604	Axial	1506.584	1507.941	1510.669	1501.140
PHOSPHORUS	177.495	Axial	371.6236	373.1936	373.3915	368.2857
SELENIUM	196.090	Axial	232.4634	234.2444	233.2045	229.9413
SILICON	251.611	Axial	2510.363	2521.979	2496.524	2512.588
SILVER	328.068	Axial	6537.033	6590.390	6512.176	6508.533
STRONTIUM	421.552	Radial	17421.73	17469.55	17333.96	17461.68
SULFUR	182.034	Axial	137.1763	136.6737	138.0382	136.8169
THALLIUM	190.856	Axial	498.8385	498.1031	501.4589	496.9534
TIN	189.989	Axial	725.9654	725.9703	729.6509	722.2749
TITANIUM	334.941	Radial	1278.283	1284.345	1272.564	1277.939
VANADIUM	292.402	Radial	283.9287	281.9988	286.9596	282.8278
ZINC	206.200	Axial	3546.715	3568.351	3554.002	3517.792

Sample ID: STD4 Units: mg/l

Analyzed: 09/26/17 07:11 Sequence: 6 Standard ID: 17H17299

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11573.31	11664.66	11554.57	11500.71
YTTRIUM	360.073	Radial	5730.426	5723.947	5748.605	5718.727
YTTRIUM	360.073	Axial	181739.2	183018.2	180532.2	181667.3
INDIUM	230.606	Axial	3561.060	3584.439	3557.322	3541.418

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ANTIMONY	206.833	Axial	696.8443	698.2442	697.4657	694.8230
ARSENIC	189.042	Axial	629.2560	631.6450	628.7745	627.3487
BARIUM	233.527	Axial	10197.30	10224.88	10203.18	10163.83
BERYLLIUM	313.042	Radial	21071.33	21109.48	21055.07	21049.45
BORON	249.678	Radial	208.7400	210.1854	209.8907	206.1439
CADMIUM	228.802	Axial	10725.46	10759.18	10736.97	10680.22
CALCIUM	317.933	Radial	539.0101	542.3726	538.9600	535.6976
CHROMIUM	267.716	Axial	10579.50	10681.23	10530.41	10526.86
COBALT	228.616	Axial	5248.985	5258.345	5261.085	5227.523
COPPER	324.754	Axial	23370.13	23638.77	23222.41	23249.22
IRON	259.940	Radial	387.1483	388.0971	386.3016	387.0463
LEAD	220.353	Axial	1111.448	1114.971	1113.013	1106.359
LITHIUM	670.784	Radial	11933.96	11968.33	11929.32	11904.24
MANGANESE	257.610	Axial	87015.28	87988.75	86360.99	86696.10
MOLYBDENUM	202.030	Axial	5328.167	5343.298	5340.288	5300.916
NICKEL	231.604	Axial	3036.544	3040.926	3043.681	3025.024
PHOSPHORUS	177.495	Axial	761.3629	764.1509	761.4847	758.4529
POTASSIUM	766.490	Radial	625.2840	629.4889	627.9815	618.3816
SELENIUM	196.090	Axial	480.1190	480.1075	482.3082	477.9414
SILICON	251.611	Axial	5265.533	5298.471	5229.761	5268.368
SILVER	328.068	Axial	13380.59	13493.17	13323.69	13324.90
SODIUM	589.592	Radial	2305.687	2322.334	2288.337	2306.389
STRONTIUM	421.552	Radial	34955.00	35162.38	34799.02	34903.60
SULFUR	182.034	Axial	283.3150	284.0685	285.0239	280.8526
TIN	189.989	Axial	1467.788	1471.248	1471.167	1460.948
TITANIUM	334.941	Radial	2567.141	2565.328	2577.254	2558.841
VANADIUM	292.402	Radial	569.5203	566.1750	570.8575	571.5285
ZINC	206.200	Axial	7193.692	7210.071	7204.679	7166.326

Sample ID: STD5 Units: mg/l

Analyzed: 09/26/17 07:13 Sequence: 7 Standard ID: 17112248

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11431.69	11433.30	11432.56	11429.19
YTTRIUM	360.073	Radial	5790.068	5776.611	5872.853	5720.741
YTTRIUM	360.073	Axial	178899.8	180650.7	178713.6	177334.9
INDIUM	230.606	Axial	3482.573	3470.521	3487.032	3490.167

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	386.7872	383.0488	391.9251	385.3877
BARIUM	233.527	Axial	49389.86	49510.50	49403.64	49255.43
CALCIUM	317.933	Radial	2587.440	2583.267	2609.852	2569.203
CALCIUM	373.690	Radial	1475.163	1479.283	1480.311	1465.894
IRON	259.940	Radial	1939.912	1942.574	1949.744	1927.418
IRON	271.441	Radial	99.34205	100.6161	99.04781	98.36229
MAGNESIUM	279.079	Radial	316.1427	319.3307	316.1506	312.9469
POTASSIUM	766.490	Radial	3181.664	3165.172	3201.025	3178.796
SILICON	251.611	Axial	22761.85	22885.07	22735.20	22665.27
SODIUM	589.592	Radial	11460.92	11464.47	11528.21	11390.07
SODIUM	818.326	Radial	176.0055	174.9417	178.3859	174.6888
SULFUR	182.034	Axial	1387.982	1387.052	1386.732	1390.163

Sample ID: STD6 Units: mg/l

Analyzed: 09/26/17 07:16 Sequence: 8 Standard ID: 17H11784

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10234.90	10213.03	10230.27	10261.40
YTTRIUM	360.073	Radial	5467.650	5480.403	5487.373	5435.173
YTTRIUM	360.073	Axial	156645.1	157053.5	156215.8	156666.1
INDIUM	230.606	Axial	2777.826	2770.014	2776.584	2786.879

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	8951.028	8952.234	8961.385	8939.465
CALCIUM	373.690	Radial	32163.10	32201.91	32195.83	32091.56
Ce	535.353	Radial	1725.069	1737.260	1719.724	1718.222
IRON	271.441	Radial	872.2127	878.3473	870.6868	867.6040
MAGNESIUM	279.079	Radial	7198.127	7214.184	7188.919	7191.279
POTASSIUM	766.490	Radial	15031.88	15095.87	15021.89	14977.87
SODIUM	818.326	Radial	7442.402	7459.682	7418.615	7448.910
SULFUR	182.034	Axial	6280.906	6264.464	6271.188	6307.066

Sample ID: STD7 Units: mg/l

Analyzed: 09/26/17 07:19 Sequence: 9 Standard ID: 17H17300

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9815.864	9814.175	9822.793	9810.624
YTTRIUM	360.073	Radial	5390.438	5400.284	5393.764	5377.264
YTTRIUM	360.073	Axial	150636.5	149825.1	150564.9	151519.6
INDIUM	230.606	Axial	2538.493	2536.943	2542.907	2535.628

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	18003.37	18053.85	18024.24	17932.03
CALCIUM	373.690	Radial	63917.46	64142.04	63977.95	63632.39
IRON	271.441	Radial	1712.120	1718.492	1710.848	1707.020
MAGNESIUM	279.079	Radial	14497.46	14546.95	14508.48	14436.93
POTASSIUM	766.490	Radial	31054.38	30959.02	31049.96	31154.16
SODIUM	818.326	Radial	15201.54	15207.48	15202.20	15194.94
SULFUR	182.034	Axial	12519.61	12477.47	12568.32	12513.03

Sample ID: ICV Units: mg/l

Analyzed: 09/26/17 07:22 Sequence: 10 Standard ID: 17G05088

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3	Intensity Rep4
YTTRIUM	224.306	Axial	11103.40	11128.67	11088.31	11071.97	11124.66
YTTRIUM	360.073	Radial	5604.744	5629.303	5619.889	5614.596	5555.187
YTTRIUM	360.073	Axial	173521.9	174125.6	173672.1	172871.1	173418.7
INDIUM	230.606	Axial	3382.948	3390.564	3374.674	3374.194	3392.361

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3	Conc. Rep4
ALUMINUM	308.215	Radial	377.7219	10.10377	10.22449	10.05579	10.04873	10.08605
ANTIMONY	206.833	Axial	320.7785	0.9645456	0.9612596	0.9678881	0.9634889	0.9655460
ARSENIC	189.042	Axial	284.4384	0.9488906	0.9508459	0.9578059	0.9460744	0.9408359
BARIUM	233.527	Axial	4832.938	1.006001	1.008020	1.007337	1.008019	1.000626
BERYLLIUM	313.042	Radial	10182.34	0.9887762	0.9853459	0.9894326	0.9884336	0.9918928
BORON	249.678	Radial	102.3764	1.001941	0.9782056	1.030884	1.010497	0.9881790
CADMIUM	228.802	Axial	4914.467	0.9586773	0.9609826	0.9602327	0.9593881	0.9541057
CALCIUM	317.933	Radial	2471.459	9.873736	9.919101	9.874332	9.826910	9.874601
CHROMIUM	267.716	Axial	4999.409	0.9828728	0.9814770	0.9840513	0.9891719	0.9767908
COBALT	228.616	Axial	2461.304	0.9884586	0.9921938	0.9914533	0.9893044	0.9808831
COPPER	324.754	Axial	11172.60	0.9895931	0.9898956	0.9844649	0.9981517	0.9858601
IRON	259.940	Radial	1861.606	9.910653	9.882256	9.946663	9.892645	9.921046
LEAD	220.353	Axial	502.7005	0.9550315	0.9557526	0.9636071	0.9524841	0.9482822
LITHIUM	670.784	Radial	5749.246	0.9849244	0.9819593	0.9825121	0.9857327	0.9894933
MAGNESIUM	279.079	Radial	300.0865	10.04187	9.893805	9.978825	10.12794	10.16691
MANGANESE	257.610	Axial	40681.27	0.9714843	0.9722478	0.9707916	0.9760510	0.9668466
MOLYBDENUM	202.030	Axial	2592.231	1.012700	1.013576	1.014309	1.014774	1.008140
NICKEL	231.604	Axial	1393.543	0.9695937	0.9706095	0.9752899	0.9709428	0.9615326
PHOSPHORUS	177.495	Axial	343.7839	0.9465220	0.9481666	0.9524535	0.9479776	0.9374902
POTASSIUM	766.490	Radial	3072.238	9.603079	9.607754	9.615487	9.526794	9.662281
SELENIUM	196.090	Axial	217.4935	0.9485666	0.9535120	0.9560533	0.9402177	0.9444837
SILICON	251.611	Axial	2405.381	1.068769	1.065480	1.067847	1.085829	1.055920
SILVER	328.068	Axial	6022.068	0.9564693	0.9585705	0.9538854	0.9669527	0.9464684
SODIUM	589.592	Radial	11061.15	9.967759	9.976001	9.969402	9.941165	9.984467
STRONTIUM	421.552	Radial	6835.410	0.3998985	0.3988015	0.3997332	0.3998958	0.4011635
SULFUR	182.034	Axial	1261.825	9.261313	9.265495	9.264685	9.276007	9.239066
THALLIUM	190.856	Axial	455.6982	0.9677982	0.9666844	0.9737526	0.9684689	0.9622869
TIN	189.989	Axial	677.6878	0.9757738	0.9760504	0.9776193	0.9797294	0.9696960
TITANIUM	334.941	Radial	1252.343	0.9968193	0.9965154	0.9931533	0.9926218	1.004987
VANADIUM	292.402	Radial	280.3159	1.007200	1.002750	1.009462	1.003443	1.013143
ZINC	206.200	Axial	3331.274	0.9669860	0.9688844	0.9700069	0.9683942	0.9606584
Ce	535.353	Radial	13.67548	0.03746930	0.05834420	0.09882608	-0.01859173	0.01129865

Sample ID: ICB Units: mg/l

Analyzed: 09/26/17 07:24 Sequence: 11

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11144.86	11164.96	11152.06	11117.57
YTTRIUM	360.073	Radial	5584.567	5642.796	5498.675	5612.229
YTTRIUM	360.073	Axial	177551.3	176921.5	177757.2	177975.3
INDIUM	230.606	Axial	3560.150	3568.249	3560.237	3551.966

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	-0.2136364	-0.03158830	-0.009671382	-0.03509338	-0.05000013
ANTIMONY	206.833	Axial	0.9716279	0.002756557	0.004366241	0.0006571726	0.003246258
ARSENIC	189.042	Axial	-0.8371130	0.001744347	0.001779844	0.001096083	0.002357114
BARIUM	233.527	Axial	4.067019	0.0002905244	0.0003496014	0.0003898457	0.0001321260
BERYLLIUM	313.042	Radial	3.533333	0.0003338697	0.0004101092	0.0002033499	0.0003881500
BORON	249.678	Radial	1.922222	0.01523496	0.001599789	0.01893014	0.02517496
CADMIUM	228.802	Axial	1.935838	-0.0003366453	-0.0003468895	-0.0001884853	-0.0004745610
CALCIUM	317.933	Radial	43.98889	0.004356697	-0.001350455	0.01211702	0.002303528
Ce	535.353	Radial	5.172222	-0.01203068	-0.02496690	-0.02661627	0.01549112
CHROMIUM	267.716	Axial	11.17099	0.0006848318	0.001138652	0.0005266570	0.0003891866
COBALT	228.616	Axial	0.6264653	-0.001001979	-0.002030091	-0.001016972	0.00004112679
COPPER	324.754	Axial	274.6117	0.001293355	0.001250451	0.001250389	0.001379224
IRON	259.940	Radial	3.011111	0.008612000	0.003265971	0.02101853	0.001551502
LEAD	220.353	Axial	1.070364	0.0007784553	0.001587834	0.0009025592	-0.0001550275
LITHIUM	670.784	Radial	-2.60500	0.0002996532	-0.002880578	0.002230639	0.001548899
MAGNESIUM	279.079	Radial	-0.4766667	0.03087998	-0.02122788	0.02553656	0.08833127
MANGANESE	257.610	Axial	10.40611	0.00008013773	0.0001169686	0.00001625036	0.0001071943
MOLYBDENUM	202.030	Axial	2.260483	0.0007183153	0.0006675076	0.0005710854	0.0009163530
NICKEL	231.604	Axial	-0.6881361	0.0003071185	0.0007952219	0.00009652051	0.00002961312
PHOSPHORUS	177.495	Axial	0.01252486	0.0005778108	0.002732593	-0.0005842048	-0.0004149562
POTASSIUM	766.490	Radial	14.02500	0.04150217	0.04852993	0.06588571	0.01009088
SELENIUM	196.090	Axial	2.389646	0.004665303	0.007032132	0.007379257	-0.0004154803
SILICON	251.611	Axial	34.87487	0.001424689	0.001151602	0.002094449	0.001028017
SILVER	328.068	Axial	-32.7559	0.0006042939	0.001165841	0.0003293185	0.0003177220
SODIUM	589.592	Radial	50.67833	0.02456557	0.02948973	0.01908515	0.02512183
STRONTIUM	421.552	Radial	-1.64444	0.00005551645	-0.00004770405	0.0003584254	-0.0001441720
SULFUR	182.034	Axial	2.054787	0.01206753	0.01329828	0.009213422	0.01369091
THALLIUM	190.856	Axial	0.8075474	-0.001117383	-0.002399840	-0.0001486328	-0.0008036764
TIN	189.989	Axial	-0.04965701	-0.0001868421	0.0009060711	0.0001565632	-0.001623161
TITANIUM	334.941	Radial	0.8666667	-0.001423017	-0.002792135	-0.001508948	0.00003203291
VANADIUM	292.402	Radial	0.6833333	0.004581396	0.0008018142	0.01447495	-0.001532581
ZINC	206.200	Axial	4.274935	0.00005169445	-0.0001538557	0.0002200941	0.00008884491

Sample ID: CCV Units: mg/l

Analyzed: 09/26/17 07:27 Sequence: 12 Standard ID: 17H17306

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10775.36	10745.29	10776.11	10804.68
YTTRIUM	360.073	Radial	5522.332	5537.728	5532.418	5496.851
YTTRIUM	360.073	Axial	168242.4	167765.6	167924.4	169037.3
INDIUM	230.606	Axial	3179.929	3173.903	3181.471	3184.412

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	367.8554	9.986526	9.926622	10.04298	9.989980
ANTIMONY	206.833	Axial	163.9294	0.5078534	0.5089414	0.5095386	0.5050801
ARSENIC	189.042	Axial	289.8012	0.9959949	1.002373	0.9946800	0.9909319
BARIUM	233.527	Axial	2349.380	0.5036515	0.5074292	0.5021224	0.5014030
BERYLLIUM	313.042	Radial	2013.894	0.1984730	0.1974777	0.1990839	0.1988576
BORON	249.678	Radial	99.65779	0.9898972	0.9739877	0.9966960	0.9990079
CADMIUM	228.802	Axial	2461.612	0.4944697	0.4975919	0.4924091	0.4934081
CALCIUM	317.933	Radial	11719.64	48.18845	47.96009	48.28449	48.32078
CHROMIUM	267.716	Axial	4788.913	0.9701245	0.9686266	0.9735097	0.9682371
COBALT	228.616	Axial	2396.430	1.023893	1.029732	1.020019	1.021927
COPPER	324.754	Axial	10794.05	0.9859775	0.9830174	0.9904019	0.9845132
IRON	259.940	Radial	1788.763	9.664830	9.590024	9.711873	9.692593
LEAD	220.353	Axial	245.0358	0.4946800	0.4952887	0.4922629	0.4964885
LITHIUM	670.784	Radial	5613.575	0.9760357	0.9685585	0.9799521	0.9795966
MAGNESIUM	279.079	Radial	291.2064	9.890619	9.858849	9.828018	9.984990
MANGANESE	257.610	Axial	39360.11	0.9685462	0.9678604	0.9718596	0.9659187
MOLYBDENUM	202.030	Axial	637.0890	0.2563460	0.2577857	0.2542173	0.2570349
NICKEL	231.604	Axial	1352.955	1.001422	1.006070	0.9973783	1.000819
PHOSPHORUS	177.495	Axial	349.7837	0.9923262	0.9940306	0.9884518	0.9944962
POTASSIUM	766.490	Radial	14947.33	47.42891	47.25967	47.54989	47.47717
SELENIUM	196.090	Axial	220.0332	0.9891038	0.9899756	0.9822370	0.9950989
SILICON	251.611	Axial	4253.598	1.959158	1.947918	1.969754	1.959802
SILVER	328.068	Axial	2932.441	0.4827900	0.4798633	0.4839916	0.4845150
SODIUM	818.326	Radial	1366.927	48.48540	48.52772	48.88170	48.04678
STRONTIUM	421.552	Radial	16728.83	0.9930820	0.9862218	0.9981446	0.9948797
SULFUR	182.034	Axial	640.1418	4.840034	4.860939	4.823635	4.835529
THALLIUM	190.856	Axial	429.0323	0.9693423	0.9779870	0.9650115	0.9650284
TIN	189.989	Axial	330.2174	0.5057674	0.5119960	0.5034266	0.5018797
TITANIUM	334.941	Radial	1246.151	1.006701	1.000500	1.009494	1.010108
VANADIUM	292.402	Radial	275.4341	1.004413	0.9958105	1.015108	1.002322
ZINC	206.200	Axial	3293.159	0.9850545	0.9941109	0.9801107	0.9809418
Ce	535.353	Radial	14.66252	0.04321517	0.05819739	0.01980545	0.05164267

Sample ID: CCB Units: mg/l

Analyzed: 09/26/17 07:29 Sequence: 13

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11140.68	11122.44	11167.14	11132.46
YTTRIUM	360.073	Radial	5591.514	5580.867	5577.571	5616.104
YTTRIUM	360.073	Axial	178130.8	178365.7	177986.9	178039.7
INDIUM	230.606	Axial	3558.587	3551.592	3573.143	3551.027

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	1.912121	0.02558520	0.02625407	0.007420932	0.04308060
ANTIMONY	206.833	Axial	0.7349387	0.002049336	0.002042933	0.001084004	0.003021072
ARSENIC	189.042	Axial	-1.49199	-0.0004219529	0.001197399	-0.002236331	-0.0002269269
BARIUM	233.527	Axial	3.393935	0.0001513795	0.00007261656	0.00006517057	0.0003163514
BERYLLIUM	313.042	Radial	-1.4	-0.0001456666	-0.0001264839	-0.0001363111	-0.0001742049
BORON	249.678	Radial	2.477778	0.02064371	0.02550203	0.02124156	0.01518755
CADMIUM	228.802	Axial	3.510652	-0.00002998035	-0.0002505673	-0.00007764061	0.0002382668
CALCIUM	317.933	Radial	45.73333	0.01118619	0.01092346	0.01396162	0.008673502
Ce	535.353	Radial	6.738889	-0.002910649	-0.03088522	0.004721719	0.01743155
CHROMIUM	267.716	Axial	12.45191	0.0009376591	0.001130423	0.0008408910	0.0008416632
COBALT	228.616	Axial	2.967684	-0.0001082252	-0.000005610231	-0.0002472587	-0.00007180670
COPPER	324.754	Axial	264.1467	0.0002902772	0.0005052943	0.0003995059	-0.00003396877
IRON	259.940	Radial	2.805556	0.007394762	0.001959535	0.009906524	0.01031823
LEAD	220.353	Axial	1.541675	0.001633299	0.001892337	0.001415110	0.001592450
LITHIUM	670.784	Radial	1.630000	0.001007372	0.0009595377	0.0007773349	0.001285242
MAGNESIUM	279.079	Radial	-0.9566667	0.01472633	0.01430933	-0.02403097	0.05390063
MANGANESE	257.610	Axial	12.07164	0.0001199625	0.0002207933	0.00005432766	0.00008476654
MOLYBDENUM	202.030	Axial	1.800211	0.0005392535	0.0005323284	0.0004681653	0.0006172668
NICKEL	231.604	Axial	-1.52289	-0.0002436394	0.0005224535	-0.0005342911	-0.0007190806
PHOSPHORUS	177.495	Axial	0.06250101	0.0007148761	-0.0002780284	0.002220254	0.0002024021
POTASSIUM	766.490	Radial	15.02500	0.04441744	0.02523431	0.05691761	0.05110040
SELENIUM	196.090	Axial	1.540737	0.0009603793	0.001172701	0.003436850	-0.001728413
SILICON	251.611	Axial	34.27778	0.001162012	0.001588126	0.002173902	-0.0002759924
SILVER	328.068	Axial	-31.4939	0.0008015045	-0.0007418884	0.0002892329	0.002857169
SODIUM	589.592	Radial	53.13833	0.02679302	0.03310086	0.02606379	0.02121442
STRONTIUM	421.552	Radial	2.033333	0.0002697442	0.0008134596	0.0001027789	-0.0001070058
SULFUR	182.034	Axial	1.110451	0.005159910	0.005213633	0.007099255	0.003166843
THALLIUM	190.856	Axial	1.241046	-0.0002360704	-0.001004700	-0.002198650	0.002495138
TIN	189.989	Axial	-0.2748454	-0.0004937428	-0.0005109640	-0.0002361971	-0.0007340672
TITANIUM	334.941	Radial	0.08333333	-0.002057803	-0.003440448	-0.003280924	0.0005479645
VANADIUM	292.402	Radial	-1.33333	-0.002747888	0.001148087	-0.008040564	-0.001351187
ZINC	206.200	Axial	3.281362	-0.0002357718	-0.0001462851	-0.0001933841	-0.0003676461

Sample ID: ICVLL Units: mg/l

Analyzed: 09/26/17 07:32 Sequence: 14 Standard ID: 17G05089

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	11110.65	11125.10	11059.67	11147.18
YTTRIUM	360.073	Radial	5596.517	5556.496	5569.008	5664.046
YTTRIUM	360.073	Axial	178037.5	178931.0	178727.9	176453.6
INDIUM	230.606	Axial	3530.988	3537.759	3511.361	3543.845

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	8.669697	0.2070982	0.2411658	0.1737049	0.2064239
ANTIMONY	206.833	Axial	3.716474	0.01102484	0.006781542	0.01583729	0.01045568
ARSENIC	189.042	Axial	1.231472	0.008601963	0.008361481	0.009903852	0.007540557
BARIUM	233.527	Axial	28.18382	0.005312260	0.005204784	0.005128689	0.005603307
BERYLLIUM	313.042	Radial	19.70	0.001906633	0.001915261	0.001945142	0.001859496
BORON	249.678	Radial	20.52778	0.1982419	0.2079599	0.1959494	0.1908162
CADMIUM	228.802	Axial	14.50696	0.002118197	0.001973382	0.002553476	0.001827734
CALCIUM	317.933	Radial	282.4667	0.9750360	0.9852554	0.9718040	0.9680484
CHROMIUM	267.716	Axial	61.21372	0.01054014	0.01003895	0.01113365	0.01044782
COBALT	228.616	Axial	27.26146	0.009259149	0.009142482	0.009205119	0.009429847
COPPER	324.754	Axial	377.3070	0.01029659	0.01067065	0.01036825	0.009850871
IRON	259.940	Radial	19.86111	0.09835440	0.09344939	0.09786941	0.1037444
LEAD	220.353	Axial	3.530536	0.005277711	0.004276785	0.005037049	0.006519299
LITHIUM	670.784	Radial	89.68000	0.01609758	0.01489077	0.01655939	0.01684259
MAGNESIUM	279.079	Radial	27.92167	0.9780332	0.9791882	0.9685457	0.9863657
MANGANESE	257.610	Axial	441.3047	0.01036601	0.01022051	0.01043770	0.01043984
MOLYBDENUM	202.030	Axial	13.81153	0.005232195	0.005199387	0.005627655	0.004869542
NICKEL	231.604	Axial	13.24788	0.009587668	0.008846384	0.01015151	0.009765113
PHOSPHORUS	177.495	Axial	3.321600	0.009677917	0.009565819	0.009208416	0.01025952
POTASSIUM	766.490	Radial	313.7028	0.9794229	0.9671774	0.9622057	1.008886
SELENIUM	196.090	Axial	3.750516	0.01067254	0.01232868	0.01079145	0.008897497
SILICON	251.611	Axial	452.9387	0.1895792	0.1865332	0.1922947	0.1899097
SILVER	328.068	Axial	-7.74823	0.004536498	0.003481894	0.005630324	0.004497278
SODIUM	589.592	Radial	1138.315	1.008132	1.001630	1.007943	1.014823
STRONTIUM	421.552	Radial	174.00	0.01034152	0.01056533	0.01026530	0.01019395
SULFUR	182.034	Axial	125.6077	0.9186504	0.9177113	0.9224617	0.9157780
THALLIUM	190.856	Axial	5.219661	0.007896150	0.007777268	0.007373324	0.008537857
TIN	189.989	Axial	34.54914	0.04755282	0.04777808	0.04890157	0.04597882
TITANIUM	334.941	Radial	64.91667	0.04973678	0.04925266	0.05018082	0.04977685
VANADIUM	292.402	Radial	4.916667	0.01969371	0.01868586	0.01900936	0.02138590
ZINC	206.200	Axial	176.3860	0.05004376	0.05001951	0.05018136	0.04993042
Ce	535.353	Radial	-0.1500000	-0.04301292	-0.01419750	-0.08482924	-0.03001202

Sample ID: ICSEA Units: mg/l

Analyzed: 09/26/17 07:58 Sequence: 15 Standard ID: 17H04290

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9767.368	9753.354	9734.182	9814.566
YTTRIUM	360.073	Radial	5370.043	5412.300	5282.842	5414.986
YTTRIUM	360.073	Axial	150556.9	150188.2	151015.5	150466.8
INDIUM	230.606	Axial	2637.657	2630.922	2633.013	2649.036

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	17886.26	500.6491	499.4316	505.7075	496.8082
ANTIMONY	206.833	Axial	3.605274	0.01217952	0.01579380	0.01254616	0.008198600
ARSENIC	189.042	Axial	-9.37142	-0.03085801	-0.04253912	-0.02208634	-0.02794858
BARIUM	233.527	Axial	14.62802	0.002909305	0.002765066	0.002723985	0.003238864
BERYLLIUM	313.042	Radial	-0.2998932	-0.00004144367	-0.00002452602	-0.0002358833	0.0001360783
BORON	249.678	Radial	-6.57032	-0.07118105	-0.06559217	-0.07699871	-0.07095226
CADMIUM	228.802	Axial	5.122167	0.0004236632	0.001221913	-0.0001982632	0.0002473398
CALCIUM	373.690	Radial	63531.61	499.7177	498.5657	505.8944	494.6930
Ce	535.353	Radial	12.94142	0.03319616	0.001088691	0.08870862	0.009791162
CHROMIUM	267.716	Axial	20.99338	0.003194969	0.003393079	0.003796538	0.002395291
COBALT	228.616	Axial	2.888682	0.0002468811	0.0004424923	0.00005246970	0.0002456814
COPPER	324.754	Axial	272.5312	0.005438039	0.005659563	0.005038455	0.005616098
IRON	271.441	Radial	1689.330	197.9182	197.2566	200.5651	195.9329
LEAD	220.353	Axial	-12.9141	-0.03265765	-0.03423160	-0.03010340	-0.03363796
LITHIUM	670.784	Radial	10.04900	0.002535922	-0.0006902141	0.004088465	0.004209517
MAGNESIUM	279.079	Radial	14510.44	504.5034	501.7948	510.6610	501.0544
MANGANESE	257.610	Axial	147.7054	0.003843044	0.003836446	0.003894608	0.003798078
MOLYBDENUM	202.030	Axial	0.05971930	-0.0001344192	0.00003510909	0.00006925640	-0.0005076232
NICKEL	231.604	Axial	8.776714	0.008586116	0.007991613	0.008247777	0.009518958
PHOSPHORUS	177.495	Axial	0.7826906	0.002999118	0.002420858	0.005447698	0.001128797
POTASSIUM	766.490	Radial	-3.47437	-0.01381103	-0.01575873	0.008856425	-0.03453078
SELENIUM	196.090	Axial	3.450653	0.01143968	0.01322907	0.01098580	0.01010418
SILICON	251.611	Axial	9.212747	-0.009501589	-0.009394964	-0.009062122	-0.01004768
SILVER	328.068	Axial	-16.0674	0.002874626	0.004417494	0.002212788	0.001993594
SODIUM	589.592	Radial	40.05896	0.01646111	0.009262726	0.01950226	0.02061834
STRONTIUM	421.552	Radial	285.1208	0.01755328	0.01739239	0.01761245	0.01765501
SULFUR	182.034	Axial	6.999159	0.05545666	0.05107576	0.06017168	0.05512254
THALLIUM	190.856	Axial	0.9294802	-0.0002230364	-0.005861413	0.001657902	0.003534402
TIN	189.989	Axial	-5.49015	-0.01025831	-0.01159585	-0.009503030	-0.009676042
TITANIUM	334.941	Radial	23.35677	0.01732166	0.01743790	0.01681813	0.01770894
VANADIUM	292.402	Radial	0.08305056	0.002372482	-0.004628752	0.004138574	0.007607624
ZINC	206.200	Axial	24.35452	0.006859404	0.007612461	0.006025564	0.006940187

Sample ID: ICSA Units: mg/l

Analyzed: 09/26/17 08:01 Sequence: 16 Standard ID: 17H04290

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9705.991	9688.438	9700.393	9729.143
YTTRIUM	360.073	Radial	5303.848	5270.746	5319.568	5321.232
YTTRIUM	360.073	Axial	149524.6	149794.4	149588.9	149190.4
INDIUM	230.606	Axial	2627.379	2623.400	2629.493	2629.244

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	17852.71	505.9111	507.8940	502.9493	506.8901
ANTIMONY	206.833	Axial	3.654521	0.01242044	0.01559983	0.01005654	0.01160495
ARSENIC	189.042	Axial	-7.68161	-0.02466335	-0.02523130	-0.02400938	-0.02474937
BARIUM	233.527	Axial	13.13310	0.002575914	0.002761661	0.002383905	0.002582176
BERYLLIUM	313.042	Radial	-0.2322442	-0.00003288955	0.00009864193	-0.0002031925	0.000005881895
BORON	249.678	Radial	-7.70532	-0.08375189	-0.08188084	-0.08508734	-0.08428748
CADMIUM	228.802	Axial	4.199807	0.0002245735	0.00003023535	0.0001637116	0.0004797737
CALCIUM	373.690	Radial	63401.45	504.8714	505.9590	501.8972	506.7580
Ce	535.353	Radial	20.45032	0.07690767	0.05749365	0.08916919	0.08406017
CHROMIUM	267.716	Axial	21.09206	0.003243619	0.002719341	0.002740812	0.004270703
COBALT	228.616	Axial	3.571379	0.0006068797	0.001606456	-0.0002388349	0.0004530184
COPPER	324.754	Axial	277.9314	0.006201283	0.006399230	0.006643755	0.005560863
IRON	271.441	Radial	1692.797	200.7783	200.6583	199.6210	202.0557
LEAD	220.353	Axial	-12.2692	-0.03120537	-0.03423171	-0.03213987	-0.02724454
LITHIUM	670.784	Radial	10.63431	0.002652310	0.002744637	0.002682195	0.002530098
MAGNESIUM	279.079	Radial	14522.17	511.1640	512.0852	508.0406	513.3662
MANGANESE	257.610	Axial	146.8396	0.003844715	0.003930219	0.003820221	0.003783704
MOLYBDENUM	202.030	Axial	-1.97141	-0.001043440	-0.0004683279	-0.002254720	-0.0004072722
NICKEL	231.604	Axial	8.999625	0.008818885	0.009562787	0.008194465	0.008699404
PHOSPHORUS	177.495	Axial	2.664110	0.008935799	0.01436926	0.005661552	0.006776585
POTASSIUM	766.490	Radial	3.773142	0.009910774	0.04327808	-0.01334246	-0.0002032902
SELENIUM	196.090	Axial	2.530239	0.006920024	0.009549211	-0.002699962	0.01391082
SILICON	251.611	Axial	8.869347	-0.009648991	-0.009173173	-0.009232169	-0.01054163
SILVER	328.068	Axial	-17.9944	0.002506465	0.001864305	0.002910169	0.002744921
SODIUM	589.592	Radial	44.50884	0.02115249	0.02044306	0.01733598	0.02567843
STRONTIUM	421.552	Radial	287.6274	0.01792457	0.01779329	0.01845545	0.01752497
SULFUR	182.034	Axial	6.851499	0.05456931	0.04520064	0.05489614	0.06361114
THALLIUM	190.856	Axial	-0.9416253	-0.005337759	-0.009098449	-0.008744531	0.001829703
TIN	189.989	Axial	-6.41500	-0.01200858	-0.008581863	-0.01548812	-0.01195575
TITANIUM	334.941	Radial	23.83208	0.01795767	0.01428680	0.02028575	0.01930044
VANADIUM	292.402	Radial	-0.1824664	0.001361833	0.002998734	-0.001716789	0.002803553
ZINC	206.200	Axial	25.20927	0.007195119	0.007004430	0.007401630	0.007179297

Sample ID: ICSAB Units: mg/l

Analyzed: 09/26/17 08:03 Sequence: 17 Standard ID: 17H03236

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9750.322	9738.041	9740.545	9772.380
YTTRIUM	360.073	Radial	5310.533	5321.816	5288.930	5320.852
YTTRIUM	360.073	Axial	150081.2	150212.7	150751.7	149279.3
INDIUM	230.606	Axial	2631.155	2630.285	2629.788	2633.392

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	17980.09	508.8830	506.0888	513.5304	507.0299
ANTIMONY	206.833	Axial	151.2830	0.5179360	0.5058662	0.5222073	0.5257345
ARSENIC	189.042	Axial	121.8658	0.4652750	0.4667833	0.4657112	0.4633306
BARIUM	233.527	Axial	2038.143	0.4828386	0.4837092	0.4850622	0.4797446
BERYLLIUM	313.042	Radial	4846.096	0.4966586	0.4949464	0.5004156	0.4946139
BORON	249.678	Radial	85.18506	0.8794557	0.8830392	0.8843538	0.8709742
CADMIUM	228.802	Axial	4532.436	1.006886	1.008517	1.007146	1.004995
CALCIUM	373.690	Radial	64042.26	509.3395	506.2186	513.8264	507.9736
Ce	535.353	Radial	15.02882	0.04534752	-0.01423656	0.06847692	0.08180221
CHROMIUM	267.716	Axial	2069.326	0.4624830	0.4659908	0.4604780	0.4609803
COBALT	228.616	Axial	979.6855	0.5052491	0.5071844	0.5046326	0.5039303
COPPER	324.754	Axial	5242.262	0.5263134	0.5288165	0.5218093	0.5283143
IRON	271.441	Radial	1692.228	200.4616	199.4590	201.9340	199.9918
LEAD	220.353	Axial	381.2976	0.9313345	0.9340936	0.9345686	0.9253413
LITHIUM	670.784	Radial	19.32967	0.004221000	0.005952873	0.004488774	0.002221353
MAGNESIUM	279.079	Radial	14610.84	513.6429	510.8810	517.6634	512.3844
MANGANESE	257.610	Axial	17262.55	0.4693580	0.4733873	0.4679320	0.4667547
MOLYBDENUM	202.030	Axial	1076.923	0.4790177	0.4791527	0.4803381	0.4775622
NICKEL	231.604	Axial	1115.511	0.9978804	0.9986925	0.9982476	0.9967012
PHOSPHORUS	177.495	Axial	2.470186	0.008286891	0.007239909	0.01055880	0.007061964
POTASSIUM	766.490	Radial	11.73747	0.03610447	0.01441226	0.05152210	0.04237906
SELENIUM	196.090	Axial	102.8271	0.5080499	0.5013455	0.5272838	0.4955205
SILICON	251.611	Axial	1884.171	0.9518137	0.9612357	0.9464648	0.9477407
SILVER	328.068	Axial	5710.267	1.032344	1.038794	1.032761	1.025477
SODIUM	589.592	Radial	40.45292	0.01725618	0.01943880	0.02741698	0.004912775
STRONTIUM	421.552	Radial	284.5027	0.01770894	0.01788972	0.01733651	0.01790058
SULFUR	182.034	Axial	7.851886	0.06268254	0.05817977	0.06574475	0.06412310
THALLIUM	190.856	Axial	172.4016	0.4693412	0.4707177	0.4708194	0.4664866
TIN	189.989	Axial	265.5187	0.4914829	0.4880946	0.4932417	0.4931124
TITANIUM	334.941	Radial	608.8787	0.5104652	0.5066549	0.5168430	0.5078977
VANADIUM	292.402	Radial	132.1338	0.5021170	0.4962465	0.5148015	0.4953030
ZINC	206.200	Axial	2739.658	0.9055411	0.9087704	0.9074734	0.9003794

Sample ID: BLANK DF: 1x Batch: WG1024391 Units: mg/l

Analyzed: 09/26/17 08:17 Sequence: 22

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10980.96	10954.66	11005.68	10982.53
YTTRIUM	360.073	Radial	5580.881	5555.283	5635.804	5551.554
YTTRIUM	360.073	Axial	175071.3	175301.0	175688.0	174225.1
INDIUM	230.606	Axial	3478.606	3469.656	3485.101	3481.060

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-0.9464161	0.001337265	0.002528397	0.0001886238	0.001294774
BARIUM	233.527	Axial	3.464530	0.0001763730	0.0001156392	0.0001809565	0.0002325232
CADMIUM	228.802	Axial	2.761736	-0.0001682398	-0.0003921564	0.0001029068	-0.0002154700
CHROMIUM	267.716	Axial	9.592064	0.0004035969	0.0007732520	0.0009500487	-0.0005125101
COPPER	324.754	Axial	267.8302	0.001029873	0.0009376147	0.0007250753	0.001426928
LEAD	220.353	Axial	1.373476	0.001384680	0.0005107545	0.001876084	0.001767202
MOLYBDENUM	202.030	Axial	0.8042899	0.0001560857	0.0003316406	0.0001106470	0.00002596928
NICKEL	231.604	Axial	-0.8040480	0.0002186329	0.0001225230	0.00005494634	0.0004784295
SELENIUM	196.090	Axial	0.8486256	-0.002016565	-0.007550369	0.0007983589	0.0007023142
SILVER	328.068	Axial	-34.7344	0.0002127897	0.0009648379	0.00009311643	-0.0004195852
ZINC	206.200	Axial	8.030991	0.001174019	0.001385851	0.001184630	0.0009515766
ALUMINUM	308.215	Radial	0.3090909	-0.01761476	-0.02491372	0.01544260	-0.04337316
ANTIMONY	206.833	Axial	-0.03451190	-0.0002586782	-0.0003411496	-0.001448608	0.001013723
BERYLLIUM	313.042	Radial	0.1333333	0.000004496030	-0.00001925428	-0.0001832862	0.0002160285
BORON	249.678	Radial	1.938889	0.01533962	0.003005848	0.02033184	0.02268116
CALCIUM	317.933	Radial	47.33889	0.01808847	0.006721260	0.01921802	0.02832613
Ce	535.353	Radial	-6.97222	-0.08272711	-0.1463410	-0.07590325	-0.02593712
COBALT	228.616	Axial	2.467629	-0.0002781808	-0.0002616069	0.0003156143	-0.0008885498
IRON	259.940	Radial	2.155556	0.003960334	0.007826609	0.001954829	0.002099563
LITHIUM	670.784	Radial	-3.72833	0.00008798767	-0.0003468011	-0.00001989959	0.0006306637
MAGNESIUM	279.079	Radial	-0.9533333	0.01483983	0.006431333	0.02058763	0.01750052
MANGANESE	257.610	Axial	18.68108	0.0002836161	0.0002484414	0.0003131333	0.0002892735
PHOSPHORUS	177.495	Axial	0.4325597	0.001747145	0.001032372	0.003316555	0.0008925077
POTASSIUM	766.490	Radial	13.20694	0.03884136	0.06588384	0.03144021	0.01920004
SILICON	251.611	Axial	77.30795	0.02097764	0.02230834	0.02029407	0.02033052
SODIUM	589.592	Radial	121.1917	0.08857271	0.07752689	0.09311561	0.09507565
STRONTIUM	421.552	Radial	-0.2444444	0.0001343655	0.0001655259	0.0003455944	-0.0001080237
SULFUR	182.034	Axial	10.24197	0.07308584	0.08970492	0.07181018	0.05774243
THALLIUM	190.856	Axial	1.846469	0.001073557	0.002893758	0.001065054	-0.0007381429
TIN	189.989	Axial	0.2411506	0.0002222657	0.001161500	-0.001041393	0.0005466899
TITANIUM	334.941	Radial	1.216667	-0.001149927	-0.004211037	0.0001420224	0.0006192349
VANADIUM	292.402	Radial	0.1333333	0.002538486	0.0009630595	0.0006219701	0.006030429

Sample ID: LCS DF: 1x Batch: WG1024391 Units: mg/l

Analyzed: 09/26/17 08:19 Sequence: 23

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10908.24	10885.71	10881.16	10957.84
YTTRIUM	360.073	Radial	5613.059	5637.348	5580.666	5621.164
YTTRIUM	360.073	Axial	171123.8	171174.1	172152.7	170044.5
INDIUM	230.606	Axial	3308.425	3298.960	3302.898	3323.417

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	264.7211	0.8991556	0.9015504	0.9001157	0.8958008
BARIUM	233.527	Axial	4450.281	0.9429007	0.9473731	0.9453923	0.9359366
CADMIUM	228.802	Axial	4572.486	0.9078975	0.9113260	0.9098070	0.9025593
CHROMIUM	267.716	Axial	4517.171	0.9038317	0.9030121	0.9070293	0.9014537
COPPER	324.754	Axial	10335.19	0.9268280	0.9237991	0.9252307	0.9314541
LEAD	220.353	Axial	466.2577	0.9056923	0.9087959	0.9064830	0.9017981
MOLYBDENUM	202.030	Axial	2351.918	0.9352553	0.9411103	0.9359211	0.9287344
NICKEL	231.604	Axial	1295.795	0.9219287	0.9256230	0.9220195	0.9181435
SELENIUM	196.090	Axial	205.3625	0.9114854	0.9163525	0.9161925	0.9019111
SILVER	328.068	Axial	1079.725	0.1792613	0.1800312	0.1780739	0.1796788
ZINC	206.200	Axial	3068.683	0.9066355	0.9128355	0.9065728	0.9004982
ALUMINUM	308.215	Radial	350.4259	9.357928	9.383698	9.363593	9.326492
ANTIMONY	206.833	Axial	302.6080	0.9261773	0.9270118	0.9237532	0.9277669
BERYLLIUM	313.042	Radial	9695.686	0.9401239	0.9382112	0.9437371	0.9384234
BORON	249.678	Radial	94.00315	0.9183694	0.9117761	0.9264951	0.9168371
CALCIUM	317.933	Radial	2268.205	9.033648	9.040721	9.028485	9.031739
Ce	535.353	Radial	14.34864	0.04138800	0.07569717	0.02036422	0.02810261
COBALT	228.616	Axial	2283.411	0.9376189	0.9442461	0.9371559	0.9314548
IRON	259.940	Radial	1723.706	9.162469	9.138457	9.218971	9.129980
LITHIUM	670.784	Radial	5407.582	0.9250660	0.9243677	0.9310659	0.9197642
MAGNESIUM	279.079	Radial	279.1662	9.330922	9.244702	9.314070	9.433993
MANGANESE	257.610	Axial	37359.69	0.9081244	0.9082339	0.9138420	0.9022974
PHOSPHORUS	177.495	Axial	327.5585	0.9180036	0.9198182	0.9198206	0.9143721
POTASSIUM	766.490	Radial	2834.247	8.845747	8.868622	8.872648	8.795972
SILICON	251.611	Axial	2002.743	0.9036203	0.9066056	0.9078015	0.8964537
SODIUM	589.592	Radial	10260.57	9.231091	9.238442	9.267889	9.186943
STRONTIUM	421.552	Radial	15817.10	0.9237914	0.9235362	0.9258714	0.9219667
SULFUR	182.034	Axial	1197.521	8.946602	8.968860	8.974104	8.896841
THALLIUM	190.856	Axial	427.6001	0.9284747	0.9313368	0.9321334	0.9219540
TIN	189.989	Axial	627.2709	0.9235280	0.9280214	0.9261802	0.9163823
TITANIUM	334.941	Radial	1162.061	0.9234191	0.9203303	0.9252989	0.9246281
VANADIUM	292.402	Radial	258.3728	0.9271445	0.9239147	0.9330981	0.9244206

Sample ID: LCSD DF: 1x Batch: WG1024391 Units: mg/l

Analyzed: 09/26/17 08:22 Sequence: 24

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10876.43	10918.27	10823.95	10887.09
YTTRIUM	360.073	Radial	5548.098	5513.226	5612.580	5518.489
YTTRIUM	360.073	Axial	171915.8	171615.0	172036.1	172096.1
INDIUM	230.606	Axial	3294.223	3309.581	3277.789	3295.300

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	265.0763	0.9029752	0.9006500	0.9057966	0.9024790
BARIUM	233.527	Axial	4454.863	0.9466182	0.9454297	0.9463002	0.9481248
CADMIUM	228.802	Axial	4580.233	0.9120950	0.9088642	0.9151370	0.9122838
CHROMIUM	267.716	Axial	4530.845	0.9092455	0.9025384	0.9182687	0.9069293
COPPER	324.754	Axial	10403.50	0.9286901	0.9308199	0.9307284	0.9245220
LEAD	220.353	Axial	468.4156	0.9138323	0.9056059	0.9210163	0.9148747
MOLYBDENUM	202.030	Axial	2346.434	0.9357936	0.9336761	0.9374355	0.9362693
NICKEL	231.604	Axial	1297.300	0.9269791	0.9228560	0.9312758	0.9268057
SELENIUM	196.090	Axial	206.2172	0.9179859	0.9081983	0.9192658	0.9264937
SILVER	328.068	Axial	1090.274	0.1814746	0.1799766	0.1831450	0.1813021
ZINC	206.200	Axial	3075.662	0.9113589	0.9078810	0.9159066	0.9102892
ALUMINUM	308.215	Radial	349.4518	9.441563	9.343287	9.410750	9.570653
ANTIMONY	206.833	Axial	300.4259	0.9221937	0.9203613	0.9230421	0.9231777
BERYLLIUM	313.042	Radial	9625.322	0.9442425	0.9434789	0.9399271	0.9493217
BORON	249.678	Radial	93.20427	0.9212044	0.9357132	0.9233604	0.9045397
CALCIUM	317.933	Radial	2260.478	9.110011	9.128889	9.065988	9.135155
Ce	535.353	Radial	13.60623	0.03706617	0.03984219	0.05193951	0.01941682
COBALT	228.616	Axial	2286.767	0.9430468	0.9401306	0.9461002	0.9429096
IRON	259.940	Radial	1706.829	9.179083	9.185321	9.137213	9.214716
LITHIUM	670.784	Radial	5379.890	0.9311433	0.9355378	0.9210198	0.9368723
MAGNESIUM	279.079	Radial	279.4391	9.448642	9.386849	9.467505	9.491571
MANGANESE	257.610	Axial	37523.63	0.9147792	0.9106880	0.9207451	0.9129044
PHOSPHORUS	177.495	Axial	327.6598	0.9209631	0.9254625	0.9236211	0.9138057
POTASSIUM	766.490	Radial	2821.334	8.908351	8.864889	8.936388	8.923776
SILICON	251.611	Axial	2008.925	0.9091543	0.9022063	0.9189657	0.9062909
SODIUM	589.592	Radial	10187.15	9.272608	9.277186	9.229989	9.310648
STRONTIUM	421.552	Radial	15701.18	0.9277737	0.9282880	0.9240655	0.9309675
SULFUR	182.034	Axial	1201.596	9.003232	8.991983	9.016562	9.001152
THALLIUM	190.856	Axial	427.5761	0.9324298	0.9306495	0.9352310	0.9314088
TIN	189.989	Axial	626.4185	0.9262453	0.9207421	0.9288387	0.9291550
TITANIUM	334.941	Radial	1146.731	0.9219401	0.9286253	0.9145114	0.9226835
VANADIUM	292.402	Radial	252.8092	0.9178512	0.9206394	0.9099067	0.9230076

Sample ID: L937868-02 DF: 1x Batch: WG1024391 Units: mg/l

Analyzed: 09/26/17 08:24 Sequence: 25

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10780.82	10789.12	10775.80	10777.53
YTTRIUM	360.073	Radial	5609.989	5628.957	5621.269	5579.742
YTTRIUM	360.073	Axial	169609.1	168298.1	170578.0	169951.2
INDIUM	230.606	Axial	3210.298	3217.599	3203.652	3209.644

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	4.140054	0.01866848	0.02164545	0.01844100	0.01591899
BARIUM	233.527	Axial	36.26649	0.007225931	0.007404812	0.006789629	0.007483353
CADMIUM	228.802	Axial	1.593875	-0.0003924504	-0.0006427814	-0.0002506490	-0.0002839210
CHROMIUM	267.716	Axial	14.52190	0.001438662	0.001817907	0.0006914201	0.001806658
COPPER	324.754	Axial	302.2025	0.004990165	0.004921836	0.005354359	0.004694299
LEAD	220.353	Axial	3.143144	0.005143272	0.006490546	0.003757463	0.005181807
MOLYBDENUM	202.030	Axial	39.25779	0.01563617	0.01582717	0.01532431	0.01575702
NICKEL	231.604	Axial	16.78301	0.01305660	0.01386644	0.01234515	0.01295820
SELENIUM	196.090	Axial	1.065164	-0.0009628363	0.002455818	-0.004532547	-0.0008117794
SILVER	328.068	Axial	-35.0360	0.00005975657	0.001118490	0.0007637906	-0.001703011
ZINC	206.200	Axial	27.60292	0.007075971	0.007282560	0.006916744	0.007028609
ALUMINUM	308.215	Radial	61.81044	1.630347	1.617950	1.622872	1.650220
ANTIMONY	206.833	Axial	0.7286321	0.002101694	0.003760904	0.001253166	0.001291011
BERYLLIUM	313.042	Radial	-0.5307588	-0.00006133717	0.00009685841	-0.00009160744	-0.0001892625
BORON	249.678	Radial	16.20715	0.1553330	0.1632695	0.1332801	0.1694495
CALCIUM	317.933	Radial	2001.338	7.954666	7.943883	7.956237	7.963877
Ce	535.353	Radial	12.86295	0.03273931	0.03350688	0.07485182	-0.01014076
COBALT	228.616	Axial	7.762247	0.002045553	0.002423512	0.001582482	0.002130666
IRON	259.940	Radial	182.3761	0.9631636	0.9626397	0.9648182	0.9620330
LITHIUM	670.784	Radial	83.74003	0.01504718	0.01553007	0.01557645	0.01403502
MAGNESIUM	279.079	Radial	54.01242	1.844151	1.777818	1.864943	1.889691
MANGANESE	257.610	Axial	673.7552	0.01640630	0.01625197	0.01638715	0.01657979
PHOSPHORUS	177.495	Axial	14.86516	0.04267328	0.04197936	0.04581091	0.04022956
POTASSIUM	766.490	Radial	4780.675	14.93034	14.94763	14.97820	14.86520
SILICON	251.611	Axial	26842.82	12.43279	12.36310	12.41875	12.51651
SODIUM	818.326	Radial	2992.275	98.93284	98.77311	99.28145	98.74397
STRONTIUM	421.552	Radial	264.4592	0.01560080	0.01568901	0.01569240	0.01542099
SULFUR	182.034	Axial	2111.347	15.96230	15.93265	15.98865	15.96559
THALLIUM	190.856	Axial	1.344528	0.0002664772	-0.0002089342	0.002528932	-0.001520566
TIN	189.989	Axial	-0.6910163	-0.001165037	-0.002044927	-0.001503653	0.00005346771
TITANIUM	334.941	Radial	45.89339	0.03445482	0.03225667	0.03646305	0.03464472
VANADIUM	292.402	Radial	0.1823255	0.002714722	0.005081886	-0.005446024	0.008508304

Sample ID: SD DF: 5x Ref Sample ID: L937868-02 Batch: WG1024391 Units: mg/l

Analyzed: 09/26/17 08:27 Sequence: 26

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10933.14	10965.83	10904.91	10928.70
YTTRIUM	360.073	Radial	5607.377	5671.803	5572.266	5578.062
YTTRIUM	360.073	Axial	174088.1	174570.0	174285.3	173409.0
INDIUM	230.606	Axial	3400.225	3410.474	3391.386	3398.814

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-0.3202137	0.003429696	0.02714384	0.009908598	0.01439300
BARIUM	233.527	Axial	9.295346	0.001412750	0.007808519	0.007143852	0.006238881
CADMIUM	228.802	Axial	2.101406	-0.0002967312	-0.0008618565	-0.002858166	-0.0007309445
CHROMIUM	267.716	Axial	8.498888	0.0001926702	0.002571975	-0.001723228	0.002041307
COPPER	324.754	Axial	275.3508	0.001844179	0.007216563	0.01171716	0.008728960
LEAD	220.353	Axial	1.368537	0.001433391	0.009961196	0.0001974715	0.01134220
MOLYBDENUM	202.030	Axial	7.759522	0.002917180	0.01549620	0.01572686	0.01253466
NICKEL	231.604	Axial	3.137031	0.002932756	0.01197909	0.01464278	0.01736948
SELENIUM	196.090	Axial	1.331164	0.0001671914	-0.01750050	0.04332050	-0.02331213
SILVER	328.068	Axial	-32.8295	0.0004918554	0.007325843	0.0005000128	-0.0004480245
ZINC	206.200	Axial	9.615499	0.001652097	0.008218534	0.009928331	0.006634587
ALUMINUM	308.215	Radial	14.05015	0.3507634	1.816129	1.621291	1.824030
ANTIMONY	206.833	Axial	0.4874463	0.001334026	0.006729880	0.005144193	0.008136313
BERYLLIUM	313.042	Radial	-1.87811	-0.0001918167	-0.0008387870	0.000001462999	-0.002039927
BORON	249.678	Radial	5.100967	0.04633506	0.2189579	0.2302166	0.2458513
CALCIUM	317.933	Radial	414.5047	1.509477	7.460496	7.598241	7.583422
Ce	535.353	Radial	5.294845	-0.01131686	0.1724602	-0.2470164	-0.09519670
COBALT	228.616	Axial	3.563797	0.0001840235	-0.003707333	0.002010293	0.004457392
IRON	259.940	Radial	35.03228	0.1789814	0.8880645	0.8941846	0.9024712
LITHIUM	670.784	Radial	17.42807	0.003698340	0.02851162	0.006666510	0.02029698
MAGNESIUM	279.079	Radial	9.700717	0.3698516	1.713701	1.939207	1.894867
MANGANESE	257.610	Axial	137.8021	0.003175154	0.01569986	0.01612908	0.01579837
PHOSPHORUS	177.495	Axial	2.500762	0.007531128	0.04396063	0.02982099	0.03918531
POTASSIUM	766.490	Radial	889.8835	2.778596	13.65814	14.04781	13.97300
SILICON	251.611	Axial	4988.480	2.26674	11.22376	11.39947	11.37787
SODIUM	589.592	Radial	20596.38	18.57044	92.48867	93.26340	92.80459
STRONTIUM	421.552	Radial	59.22692	0.003612350	0.01756249	0.01738533	0.01923744
SULFUR	182.034	Axial	373.0598	2.778662	13.96154	13.89970	13.81870
THALLIUM	190.856	Axial	0.9947606	-0.0006493300	0.009321941	-0.01310171	-0.005960185
TIN	189.989	Axial	-1.13194	-0.001737139	-0.01458869	-0.007216720	-0.004251673
TITANIUM	334.941	Radial	8.732861	0.004832396	0.03314315	0.005823743	0.03351906
VANADIUM	292.402	Radial	0.2342825	0.002863852	0.03592569	0.01294186	-0.005909769

Sample ID: MS DF: 1x Ref Sample ID: L937868-02 Batch: WG1024391 Units: mg/l
 Analyzed: 09/26/17 08:29 Sequence: 27

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10693.27	10696.57	10693.81	10689.44
YTTRIUM	360.073	Radial	5612.205	5559.069	5629.524	5648.021
YTTRIUM	360.073	Axial	168233.2	167480.5	169385.5	167833.5
INDIUM	230.606	Axial	3122.523	3114.411	3129.605	3123.553

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	268.6457	0.9306619	0.9322302	0.9331851	0.9265705
BARIUM	233.527	Axial	4352.004	0.9405975	0.9411104	0.9410813	0.9396008
CADMIUM	228.802	Axial	4535.388	0.9186301	0.9199040	0.9213052	0.9146811
CHROMIUM	267.716	Axial	4383.849	0.8947682	0.8923325	0.8979912	0.8939810
COPPER	324.754	Axial	10228.21	0.9331545	0.9379691	0.9275504	0.9339440
LEAD	220.353	Axial	447.8104	0.9216686	0.9291921	0.9162841	0.9195295
MOLYBDENUM	202.030	Axial	2343.675	0.9507004	0.9521620	0.9526415	0.9472978
NICKEL	231.604	Axial	1268.705	0.9563628	0.9612680	0.9552215	0.9525990
SELENIUM	196.090	Axial	206.6801	0.9359042	0.9450956	0.9356499	0.9269670
SILVER	328.068	Axial	1079.985	0.1827928	0.1837349	0.1829669	0.1816766
ZINC	206.200	Axial	3032.256	0.9138783	0.9161272	0.9107711	0.9147367
ALUMINUM	308.215	Radial	421.0702	11.25123	11.21916	11.28012	11.25441
ANTIMONY	206.833	Axial	299.4959	0.9350842	0.9352859	0.9393036	0.9306632
BERYLLIUM	313.042	Radial	9761.500	0.9466249	0.9432055	0.9502579	0.9464114
BORON	249.678	Radial	107.1469	1.047413	1.043413	1.045743	1.053081
CALCIUM	317.933	Radial	4160.584	16.71924	16.69461	16.80688	16.65622
Ce	535.353	Radial	13.13621	0.03433004	0.02013309	0.06183971	0.02101732
COBALT	228.616	Axial	2215.388	0.9638739	0.9703832	0.9606771	0.9605614
IRON	259.940	Radial	1892.617	10.06245	10.06097	10.08997	10.03642
LITHIUM	670.784	Radial	5446.648	0.9318523	0.9275191	0.9364114	0.9316262
MAGNESIUM	279.079	Radial	333.2126	11.13007	11.15739	11.09463	11.13820
MANGANESE	257.610	Axial	36662.75	0.9090848	0.9091403	0.9125885	0.9055256
PHOSPHORUS	177.495	Axial	342.7146	0.9797416	0.9801332	0.9836023	0.9754893
POTASSIUM	766.490	Radial	7504.100	23.42838	23.42638	23.51874	23.34004
SILICON	251.611	Axial	30581.35	14.28240	14.28685	14.37138	14.18897
SODIUM	818.326	Radial	3202.734	105.5140	105.4272	105.9902	105.1246
STRONTIUM	421.552	Radial	15938.80	0.9310244	0.9284070	0.9344033	0.9302629
SULFUR	182.034	Axial	3267.228	24.90489	24.98617	24.92435	24.80415
THALLIUM	190.856	Axial	401.4688	0.9236066	0.9241233	0.9216010	0.9250956
TIN	189.989	Axial	606.4638	0.9460461	0.9518626	0.9436779	0.9425979
TITANIUM	334.941	Radial	1219.566	0.9693326	0.9637053	0.9722169	0.9720757
VANADIUM	292.402	Radial	256.3740	0.9200585	0.9103534	0.9194909	0.9303312

Sample ID: MSD DF: 1x Ref Sample ID: L937868-02 Batch: WG1024391 Units: mg/l
 Analyzed: 09/26/17 08:32 Sequence: 28

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10671.04	10647.73	10674.92	10690.49
YTTRIUM	360.073	Radial	5673.075	5679.668	5665.812	5673.744
YTTRIUM	360.073	Axial	168319.7	168613.7	168136.1	168209.2
INDIUM	230.606	Axial	3117.514	3109.945	3118.929	3123.669

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	268.5499	0.9322642	0.9339080	0.9348690	0.9280156
BARIUM	233.527	Axial	4336.036	0.9391018	0.9423514	0.9390486	0.9359053
CADMIUM	228.802	Axial	4504.771	0.9143315	0.9178674	0.9145929	0.9105341
CHROMIUM	267.716	Axial	4382.189	0.8962980	0.8986124	0.8961969	0.8940845
COPPER	324.754	Axial	10209.44	0.9308915	0.9283383	0.9343238	0.9300124
LEAD	220.353	Axial	445.3100	0.9179814	0.9185290	0.9202304	0.9151846
MOLYBDENUM	202.030	Axial	2331.911	0.9479046	0.9525933	0.9476094	0.9435113
NICKEL	231.604	Axial	1264.659	0.9548465	0.9594107	0.9547068	0.9504221
SELENIUM	196.090	Axial	207.7002	0.9425278	0.9435243	0.9455598	0.9384993
SILVER	328.068	Axial	1068.147	0.1812166	0.1811602	0.1803369	0.1821528
ZINC	206.200	Axial	3025.935	0.9138751	0.9145088	0.9163526	0.9107639
ALUMINUM	308.215	Radial	412.9331	10.91480	10.88781	10.93692	10.91967
ANTIMONY	206.833	Axial	297.4846	0.9307425	0.9337537	0.9299861	0.9284877
BERYLLIUM	313.042	Radial	9859.985	0.9459316	0.9466654	0.9494345	0.9416948
BORON	249.678	Radial	108.8932	1.053095	1.066659	1.041807	1.050818
CALCIUM	317.933	Radial	4189.976	16.65607	16.66183	16.65355	16.65283
Ce	535.353	Radial	13.30313	0.03530176	0.03853408	-0.05886093	0.1262321
COBALT	228.616	Axial	2210.011	0.9630739	0.9653878	0.9647900	0.9590439
IRON	259.940	Radial	1905.544	10.02242	10.04188	10.02897	9.996414
LITHIUM	670.784	Radial	5504.248	0.9316216	0.9324607	0.9339834	0.9284207
MAGNESIUM	279.079	Radial	335.5097	11.08665	11.04089	11.08029	11.13877
MANGANESE	257.610	Axial	36640.42	0.9104255	0.9110816	0.9113485	0.9088465
PHOSPHORUS	177.495	Axial	340.0647	0.9742017	0.9784196	0.9766727	0.9675130
POTASSIUM	766.490	Radial	7558.440	23.34477	23.37898	23.42736	23.22797
SILICON	251.611	Axial	29288.92	13.70681	13.74313	13.76658	13.61072
SODIUM	818.326	Radial	3233.527	105.3908	105.9632	104.6892	105.5200
STRONTIUM	421.552	Radial	16084.12	0.9294430	0.9309367	0.9309621	0.9264302
SULFUR	182.034	Axial	3252.262	24.84260	24.93898	24.88827	24.70056
THALLIUM	190.856	Axial	400.3744	0.9225659	0.9235727	0.9233561	0.9207688
TIN	189.989	Axial	604.7516	0.9448914	0.9498301	0.9460822	0.9387618
TITANIUM	334.941	Radial	1204.282	0.9468901	0.9522329	0.9473157	0.9411216
VANADIUM	292.402	Radial	259.2213	0.9203484	0.9203829	0.9241516	0.9165108

Sample ID: L937868-01 DF: 1x Batch: WG1024391 Units: mg/l

Analyzed: 09/26/17 08:34 Sequence: 29

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10310.94	10299.81	10326.36	10306.64
YTTRIUM	360.073	Radial	5529.381	5542.124	5554.241	5491.778
YTTRIUM	360.073	Axial	163703.0	164833.2	163018.1	163257.9
INDIUM	230.606	Axial	3046.367	3044.382	3048.106	3046.613

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-0.8232389	0.001568537	0.0008635658	0.002652050	0.001189997
BARIUM	233.527	Axial	224.1441	0.04971674	0.04951525	0.04992440	0.04971057
CADMIUM	228.802	Axial	3.072403	-0.00006742007	-0.0004898552	0.0002465944	0.00004100054
CHROMIUM	267.716	Axial	12.34873	0.001112623	0.001800373	0.0007806590	0.0007568360
LEAD	220.353	Axial	1.216495	0.001414694	0.0002983383	-0.00005319911	0.003998942
SELENIUM	196.090	Axial	1.165961	-0.0002682201	-0.006660293	0.001355662	0.004499971
SILVER	328.068	Axial	-35.4315	-0.0002664556	0.0001268063	-0.0005616077	-0.0003645655
ALUMINUM	308.215	Radial	15.47524	0.3949228	0.4022371	0.3811409	0.4013903
ANTIMONY	206.833	Axial	0.3768920	0.001064805	0.0005955573	0.002883359	-0.0002845012
BERYLLIUM	313.042	Radial	0.7981378	0.00006880363	0.00001013274	0.0001958288	0.0000004493360
BORON	249.678	Radial	31.38164	0.3087133	0.3290152	0.2955553	0.3015694
CALCIUM	373.690	Radial	19899.66	151.9059	152.0914	151.1738	152.4525
Ce	535.353	Radial	-0.9976874	-0.04794756	-0.1156849	-0.02645986	-0.001697885
COBALT	228.616	Axial	5.218622	0.001087582	0.001640747	0.0004516486	0.001170352
COPPER	324.754	Axial	281.5861	0.004018760	0.004675502	0.003391255	0.003989523
IRON	259.940	Radial	53.39686	0.2807523	0.2886141	0.2820378	0.2716049
LITHIUM	670.784	Radial	146.4706	0.02613886	0.02490984	0.02837221	0.02513454
MAGNESIUM	279.079	Radial	1210.226	40.90467	41.07307	40.55704	41.08390
MANGANESE	257.610	Axial	10941.59	0.2812509	0.2812398	0.2810119	0.2815011
MOLYBDENUM	202.030	Axial	2.358519	0.0008306518	0.0009200752	0.0006373650	0.0009345153
NICKEL	231.604	Axial	7.795074	0.006780454	0.007309333	0.006994672	0.006037357
PHOSPHORUS	177.495	Axial	2.092896	0.006750151	0.01086974	0.002984428	0.006396282
POTASSIUM	766.490	Radial	834.2169	2.641118	2.624166	2.658905	2.640282
SILICON	251.611	Axial	14644.03	7.085660	7.091636	7.063428	7.101918
SODIUM	818.326	Radial	1383.238	48.95264	49.18108	48.39894	49.27791
STRONTIUM	421.552	Radial	4622.315	0.2741588	0.2748943	0.2722322	0.2753499
SULFUR	182.034	Axial	6741.621	53.29786	53.26467	53.25638	53.37255
THALLIUM	190.856	Axial	1.735336	0.001351322	0.002295720	0.003004446	-0.001246199
TIN	189.989	Axial	-2.78014	-0.004562688	-0.004708248	-0.005187471	-0.003792346
TITANIUM	334.941	Radial	25.18832	0.01824703	0.01711022	0.01895906	0.01867181
VANADIUM	292.402	Radial	-0.8480878	-0.001021437	0.003314241	-0.007878203	0.001499650
ZINC	206.200	Axial	23.15279	0.006060190	0.006333719	0.005589928	0.006256923

Sample ID: L937868-03 DF: 1x Batch: WG1024391 Units: mg/l

Analyzed: 09/26/17 08:37 Sequence: 30

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10321.53	10267.47	10357.44	10339.67
YTTRIUM	360.073	Radial	5554.453	5595.863	5531.699	5535.797
YTTRIUM	360.073	Axial	163717.3	163982.8	162594.6	164574.4
INDIUM	230.606	Axial	3052.090	3044.237	3060.329	3051.703

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-1.46449	-0.0007183897	-0.001851676	-0.004549308	0.004245816
BARIUM	233.527	Axial	227.0304	0.05031211	0.05040910	0.05049839	0.05002884
CADMIUM	228.802	Axial	4.200113	0.0001692341	0.0002324593	0.00008065544	0.0001945874
CHROMIUM	267.716	Axial	14.91697	0.001654038	0.001817411	0.001482302	0.001662402
LEAD	220.353	Axial	0.8464823	0.0006312239	0.001652001	0.00002263663	0.0002190337
SELENIUM	196.090	Axial	1.181058	-0.0002168277	-0.006781474	0.002146944	0.003984047
SILVER	328.068	Axial	-31.7301	0.0003689952	0.0007795963	0.0003853868	-0.00005799757
ALUMINUM	308.215	Radial	15.96971	0.4066408	0.3340598	0.4245683	0.4612944
ANTIMONY	206.833	Axial	0.01434043	-0.0001123624	-0.001189686	0.002931403	-0.002078804
BERYLLIUM	313.042	Radial	-0.5158783	-0.00005994298	-0.00008235912	-0.0001321491	0.00003467927
BORON	249.678	Radial	34.21626	0.3354175	0.3340172	0.3293779	0.3428573
CALCIUM	373.690	Radial	20043.84	152.3143	152.2538	152.3903	152.2988
Ce	535.353	Radial	7.190617	-0.0002810069	-0.01964421	0.006254940	0.01254625
COBALT	228.616	Axial	6.495618	0.001651082	0.001031420	0.002217193	0.001704632
COPPER	324.754	Axial	274.2553	0.003314972	0.003409762	0.003376484	0.003158671
IRON	259.940	Radial	62.90799	0.3306523	0.3192429	0.3306077	0.3421063
LITHIUM	670.784	Radial	151.6783	0.02692406	0.02807458	0.02627527	0.02642234
MAGNESIUM	279.079	Radial	1218.898	41.01154	40.83013	40.92360	41.28087
MANGANESE	257.610	Axial	11181.97	0.2871400	0.2876901	0.2865731	0.2871568
MOLYBDENUM	202.030	Axial	1.037909	0.0002749727	0.0005871802	0.0005508886	-0.0003131508
NICKEL	231.604	Axial	8.405770	0.007240093	0.007393175	0.006923685	0.007403418
PHOSPHORUS	177.495	Axial	2.931751	0.009218336	0.007524195	0.01143788	0.008692935
POTASSIUM	766.490	Radial	837.1218	2.638423	2.623361	2.656952	2.634956
SILICON	251.611	Axial	14642.83	7.077801	7.078659	7.048099	7.106644
SODIUM	818.326	Radial	1406.115	49.47977	49.22990	49.64012	49.56929
STRONTIUM	421.552	Radial	4650.032	0.2745554	0.2737987	0.2750670	0.2748004
SULFUR	182.034	Axial	6806.516	53.75598	53.83009	53.58400	53.85385
THALLIUM	190.856	Axial	1.122825	-0.0001039122	-0.001749025	0.0002134989	0.001223789
TIN	189.989	Axial	-2.79863	-0.004585717	-0.006744701	-0.004545317	-0.002467134
TITANIUM	334.941	Radial	23.09105	0.01647043	0.01536677	0.01698906	0.01705547
VANADIUM	292.402	Radial	0.05044858	0.002217511	0.005458141	-0.004656724	0.005851118
ZINC	206.200	Axial	25.11748	0.006665668	0.006326039	0.006991490	0.006679477

Sample ID: L937868-04 DF: 1x Batch: WG1024391 Units: mg/l

Analyzed: 09/26/17 08:40 Sequence: 31

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10290.40	10287.27	10298.70	10285.23
YTTRIUM	360.073	Radial	5496.369	5466.058	5524.628	5498.421
YTTRIUM	360.073	Axial	162003.4	161582.1	162228.5	162199.6
INDIUM	230.606	Axial	3013.589	3011.775	3015.764	3013.229

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-0.3627331	0.003212405	0.003096655	0.005158189	0.001382372
BARIUM	233.527	Axial	204.3556	0.04537015	0.04529525	0.04573346	0.04508173
CADMIUM	228.802	Axial	6.293862	0.0006127184	0.0002844548	0.0006943294	0.0008593709
CHROMIUM	267.716	Axial	14.24980	0.001521480	0.001380317	0.001304051	0.001880071
LEAD	220.353	Axial	2.573390	0.004338596	0.002349988	0.007954353	0.002711449
SELENIUM	196.090	Axial	2.172181	0.004510755	0.01072943	0.0001855606	0.002617271
SILVER	328.068	Axial	-30.3021	0.0005952643	0.0006699224	-0.00002319295	0.001139064
ALUMINUM	308.215	Radial	24.47672	0.6435548	0.6324119	0.6449909	0.6532615
ANTIMONY	206.833	Axial	0.2511899	0.0006603680	0.001248571	0.001115340	-0.0003828069
BERYLLIUM	313.042	Radial	8.024921	0.0007856054	0.0009060438	0.0006686692	0.0007821031
BORON	249.678	Radial	20.57800	0.2024628	0.2281125	0.1791753	0.2001008
CALCIUM	373.690	Radial	21985.07	168.8479	169.6471	168.4382	168.4584
Ce	535.353	Radial	10.54511	0.01924652	0.01565049	0.05493998	-0.01285091
COBALT	228.616	Axial	5.505957	0.001242510	0.001908790	0.001187940	0.0006308005
COPPER	324.754	Axial	285.9414	0.004727176	0.004218922	0.004263289	0.005699318
IRON	259.940	Radial	302.5407	1.636107	1.649062	1.625410	1.633850
LITHIUM	670.784	Radial	198.1531	0.03531861	0.03568388	0.03530143	0.03497052
MAGNESIUM	279.079	Radial	1482.663	50.40246	50.51643	50.23265	50.45830
MANGANESE	257.610	Axial	1772.428	0.04551070	0.04567167	0.04490638	0.04595405
MOLYBDENUM	202.030	Axial	2.017172	0.0006884754	0.0001052109	0.001012684	0.0009475316
NICKEL	231.604	Axial	3.254807	0.003302454	0.003529167	0.003411798	0.002966397
PHOSPHORUS	177.495	Axial	12.52250	0.03772590	0.03860628	0.03577795	0.03879346
POTASSIUM	766.490	Radial	1395.163	4.445519	4.492355	4.449873	4.394328
SILICON	251.611	Axial	17190.65	8.336977	8.321340	8.296385	8.393205
SODIUM	818.326	Radial	2317.440	79.21213	79.43071	79.13791	79.06778
STRONTIUM	421.552	Radial	5768.666	0.3441613	0.3448151	0.3451357	0.3425331
SULFUR	182.034	Axial	7281.423	57.68058	57.80714	57.59847	57.63613
THALLIUM	190.856	Axial	1.926032	0.001851741	0.0008029442	0.001896565	0.002855713
TIN	189.989	Axial	-2.57088	-0.004272549	-0.003672768	-0.004913029	-0.004231849
TITANIUM	334.941	Radial	31.89778	0.02382802	0.02424194	0.02294692	0.02429521
VANADIUM	292.402	Radial	0.2667229	0.003025039	0.002232076	0.001141101	0.005701942
ZINC	206.200	Axial	23.07294	0.006049306	0.006183809	0.005904550	0.006059558

Sample ID: CCV Units: mg/l

Analyzed: 09/26/17 08:42 Sequence: 32 Standard ID: 17H17306

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10604.76	10605.62	10630.61	10578.04
YTTRIUM	360.073	Radial	5510.511	5534.926	5486.473	5510.133
YTTRIUM	360.073	Axial	166759.1	167127.4	167469.6	165680.2
INDIUM	230.606	Axial	3124.112	3125.055	3131.825	3115.455

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	381.5192	10.38059	10.40199	10.34163	10.39815
ANTIMONY	206.833	Axial	166.0645	0.5227451	0.5211560	0.5237710	0.5233081
ARSENIC	189.042	Axial	295.1476	1.030513	1.029472	1.035339	1.026728
BARIUM	233.527	Axial	2371.202	0.5165168	0.5175095	0.5153004	0.5167404
BERYLLIUM	313.042	Radial	2078.624	0.2052902	0.2054179	0.2048766	0.2055760
BORON	249.678	Radial	103.0666	1.026047	1.025884	1.013047	1.039209
CADMIUM	228.802	Axial	2500.223	0.5103263	0.5098381	0.5090634	0.5120775
CALCIUM	317.933	Radial	12017.66	49.52388	49.62811	49.33783	49.60571
CHROMIUM	267.716	Axial	4826.922	0.9935911	0.9947081	0.9930167	0.9930485
COBALT	228.616	Axial	2422.116	1.053391	1.053159	1.051665	1.055348
COPPER	324.754	Axial	10991.65	1.013599	1.011425	1.011729	1.017643
IRON	259.940	Radial	1844.536	9.987650	9.997945	9.950095	10.01491
LEAD	220.353	Axial	246.3042	0.5061519	0.5130577	0.5017983	0.5035997
LITHIUM	670.784	Radial	5823.572	1.014674	1.017158	1.012475	1.014389
MAGNESIUM	279.079	Radial	300.7758	10.23532	10.31311	10.05558	10.33727
MANGANESE	257.610	Axial	40103.90	1.002731	1.002475	1.001594	1.004124
MOLYBDENUM	202.030	Axial	640.1332	0.2617177	0.2622042	0.2611531	0.2617957
NICKEL	231.604	Axial	1369.904	1.032056	1.033905	1.030821	1.031442
PHOSPHORUS	177.495	Axial	358.2212	1.032595	1.038293	1.027022	1.032469
POTASSIUM	766.490	Radial	15337.04	48.76957	48.77865	48.62355	48.90650
SELENIUM	196.090	Axial	224.6268	1.026209	1.033346	1.027590	1.017692
SILICON	251.611	Axial	4363.610	2.042775	2.036549	2.046021	2.045756
SILVER	328.068	Axial	2983.251	0.4988711	0.5006921	0.4955108	0.5004105
SODIUM	818.326	Radial	1419.160	50.25248	50.26208	50.00177	50.49359
STRONTIUM	421.552	Radial	17203.43	1.023424	1.027214	1.019075	1.023983
SULFUR	182.034	Axial	658.0538	5.055633	5.075100	5.034491	5.057308
THALLIUM	190.856	Axial	435.3067	1.001174	1.010007	0.9952405	0.9982734
TIN	189.989	Axial	333.6936	0.5202161	0.5197547	0.5227744	0.5181192
TITANIUM	334.941	Radial	1280.160	1.036433	1.041139	1.032107	1.036053
VANADIUM	292.402	Radial	284.3487	1.039081	1.042310	1.044578	1.030353
ZINC	206.200	Axial	3315.473	1.007701	1.007015	1.006092	1.009996
Ce	535.353	Radial	11.78268	0.02645076	0.01899533	0.03014748	0.03020947

Sample ID: CCB Units: mg/l

Analyzed: 09/26/17 08:45 Sequence: 33

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10849.06	10871.77	10839.86	10835.54
YTTRIUM	360.073	Radial	5483.401	5488.254	5486.992	5474.958
YTTRIUM	360.073	Axial	174055.9	173744.3	174251.4	174171.9
INDIUM	230.606	Axial	3469.768	3477.986	3469.773	3461.546

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	0.07878788	-0.02357662	-0.03585799	-0.06238197	0.02751010
ANTIMONY	206.833	Axial	0.8533178	0.002470629	0.003576830	0.002805485	0.001029571
ARSENIC	189.042	Axial	-1.30103	0.00009073004	0.001244155	-0.001250396	0.0002784306
BARIUM	233.527	Axial	2.359763	-0.00005005458	-0.0001493836	-0.0001986844	0.0001979042
BERYLLIUM	313.042	Radial	-0.5333333	-0.00006253250	0.00007483565	-0.00002433575	-0.0002380974
BORON	249.678	Radial	1.016667	0.006436376	0.01094730	0.008776492	-0.0004146624
CADMIUM	228.802	Axial	1.989416	-0.0003153966	-0.0004341269	-0.0003757405	-0.0001363224
CALCIUM	317.933	Radial	41.50556	-0.002720378	0.0009846478	0.0001945353	-0.009340318
Ce	535.353	Radial	7.272222	0.0001940433	-0.06232023	0.06982323	-0.006920876
CHROMIUM	267.716	Axial	10.50525	0.0006111834	0.0003766939	0.0004752042	0.0009816520
COBALT	228.616	Axial	1.712189	-0.0005721021	-0.0001748107	-0.0008249553	-0.0007165404
COPPER	324.754	Axial	263.7382	0.0007997549	0.001092252	0.0005020578	0.0008049544
IRON	259.940	Radial	2.211111	0.004461386	0.009375013	-0.004679841	0.008688985
LEAD	220.353	Axial	0.9414742	0.0005922978	0.0001648160	-0.000001474592	0.001613552
LITHIUM	670.784	Radial	-2.29833	0.0003245424	-0.0003494426	0.003286484	-0.001963414
MAGNESIUM	279.079	Radial	-0.4183333	0.03255090	-0.03317597	0.05338838	0.07744028
MANGANESE	257.610	Axial	6.001763	-0.00002074128	-0.00006302171	-0.000001298605	0.000002096483
MOLYBDENUM	202.030	Axial	0.3983272	-0.000002620240	0.00004845859	-0.00006285104	0.000006531730
NICKEL	231.604	Axial	-1.58480	-0.0003114231	-0.0004144335	-0.0007422897	0.0002224540
PHOSPHORUS	177.495	Axial	0.1207417	0.0008834457	0.002721385	-0.0001237378	0.00005269003
POTASSIUM	766.490	Radial	25.04583	0.07735043	0.07313345	0.1246888	0.03422904
SELENIUM	196.090	Axial	0.6868680	-0.002686899	-0.006334824	0.0004018630	-0.002127735
SILICON	251.611	Axial	35.58489	0.002177462	0.003481103	0.0004094070	0.002641875
SILVER	328.068	Axial	-32.0367	0.0005806084	0.0005214745	0.0005603317	0.0006600191
SODIUM	589.592	Radial	52.87167	0.02748094	0.02963393	0.02885696	0.02395192
STRONTIUM	421.552	Radial	-1.30000	0.00007211510	0.000004466697	0.0001039940	0.0001078846
SULFUR	182.034	Axial	2.035210	0.01232814	0.01386170	0.006181616	0.01694112
THALLIUM	190.856	Axial	1.173666	-0.0003155773	0.0001706792	-0.001533557	0.0004161461
TIN	189.989	Axial	-0.9906955	-0.001508097	-0.001254011	-0.001748278	-0.001522000
TITANIUM	334.941	Radial	1.483333	-0.0009090128	-0.002322358	0.0001625980	-0.0005672790
VANADIUM	292.402	Radial	0.01666667	0.002112204	-0.003078201	0.004062818	0.005351996
ZINC	206.200	Axial	2.721820	-0.0003765197	-0.0004448193	-0.0006952733	0.00001053359

Sample ID: L937868-05 DF: 1x Batch: WG1024391 Units: mg/l

Analyzed: 09/26/17 08:47 Sequence: 34

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10089.19	10104.38	10088.00	10075.20
YTTRIUM	360.073	Radial	5450.005	5410.410	5463.666	5475.938
YTTRIUM	360.073	Axial	159514.5	158711.0	160487.1	159345.4
INDIUM	230.606	Axial	2896.942	2903.809	2900.611	2886.405

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-0.5886327	0.002360861	0.003445209	0.002390811	0.001246562
BARIUM	233.527	Axial	419.6073	0.09562236	0.09609590	0.09590388	0.09486729
CADMIUM	228.802	Axial	3.646986	0.00007018599	0.0005180091	-0.0001769156	-0.0001305356
CHROMIUM	267.716	Axial	6.838823	-0.00002474212	0.0007923361	-0.0004555615	-0.0004110010
LEAD	220.353	Axial	1.150580	0.001406445	-0.0005650647	0.0004011134	0.004383285
SELENIUM	196.090	Axial	0.9979895	-0.0009608491	0.003247633	0.001334296	-0.007464476
SILVER	328.068	Axial	-36.5246	-0.0005891365	-0.0007364273	-0.00002372380	-0.001007258
ALUMINUM	308.215	Radial	12.02038	0.3055364	0.2416317	0.3787948	0.2961826
ANTIMONY	206.833	Axial	0.4201235	0.001234557	0.003031178	0.0004961848	0.0001763100
BERYLLIUM	313.042	Radial	-0.7505255	-0.00008358334	0.0001361723	-0.0001588487	-0.0002280737
BORON	249.678	Radial	40.38470	0.4042011	0.3960493	0.4051329	0.4114211
CALCIUM	373.690	Radial	18699.72	144.8174	145.0230	144.7536	144.6756
Ce	535.353	Radial	1.566843	-0.03301867	-0.04824233	-0.01885919	-0.03195449
COBALT	228.616	Axial	4.699125	0.0009637444	0.0003388383	0.001643268	0.0009091265
COPPER	324.754	Axial	268.6025	0.003449235	0.003311172	0.004292017	0.002744515
IRON	259.940	Radial	111.9479	0.6057926	0.6061747	0.6151589	0.5960443
LITHIUM	670.784	Radial	311.6853	0.05560042	0.05608206	0.05506883	0.05565037
MAGNESIUM	279.079	Radial	1763.522	60.44980	60.35838	60.40338	60.58764
MANGANESE	257.610	Axial	3835.193	0.1006419	0.1004425	0.1010666	0.1004166
MOLYBDENUM	202.030	Axial	1.207224	0.0003571360	0.0006185531	0.00004469383	0.0004081611
NICKEL	231.604	Axial	0.9897238	0.001566172	0.0001829991	0.003038200	0.001477317
PHOSPHORUS	177.495	Axial	3.380875	0.01078380	0.009975530	0.01184215	0.01053371
POTASSIUM	766.490	Radial	5388.847	17.32442	17.33000	17.36817	17.27508
SILICON	251.611	Axial	9496.722	4.691264	4.694843	4.705671	4.673279
SODIUM	818.326	Radial	6215.886	206.0821	206.6602	205.8083	205.7778
STRONTIUM	421.552	Radial	21448.67	1.290118	1.291146	1.291636	1.287571
SULFUR	182.034	Axial	8805.901	71.14889	70.85848	71.39566	71.19254
THALLIUM	190.856	Axial	1.401437	0.0007352601	-0.002567170	0.003165706	0.001607244
TIN	189.989	Axial	-2.24972	-0.003897336	-0.004637513	-0.004684400	-0.002370093
TITANIUM	334.941	Radial	23.78693	0.01737561	0.01260695	0.01923290	0.02028697
VANADIUM	292.402	Radial	-0.5328540	0.00008736778	-0.0009185085	0.01069063	-0.009510022
ZINC	206.200	Axial	16.02700	0.003940302	0.003598669	0.003857840	0.004364397

Sample ID: CCV Units: mg/l

Analyzed: 09/26/17 08:58 Sequence: 38 Standard ID: 17H17306

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10602.34	10622.08	10644.23	10540.70
YTTRIUM	360.073	Radial	5569.284	5577.022	5577.331	5553.499
YTTRIUM	360.073	Axial	166904.9	167585.5	167295.4	165834.0
INDIUM	230.606	Axial	3120.558	3123.118	3129.942	3108.613

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	386.9225	10.41659	10.38909	10.50962	10.35106
ANTIMONY	206.833	Axial	166.6538	0.5247254	0.5217318	0.5256112	0.5268332
ARSENIC	189.042	Axial	295.2619	1.031192	1.019134	1.028391	1.046050
BARIUM	233.527	Axial	2378.893	0.5183188	0.5169442	0.5170378	0.5209745
BERYLLIUM	313.042	Radial	2096.502	0.2048726	0.2046965	0.2043195	0.2056017
BORON	249.678	Radial	103.3275	1.017804	1.022506	0.9933996	1.037506
CADMIUM	228.802	Axial	2510.852	0.5126243	0.5112660	0.5103104	0.5162965
CALCIUM	317.933	Radial	12052.92	49.14426	49.15457	49.03560	49.24262
CHROMIUM	267.716	Axial	4820.744	0.9925609	0.9962785	0.9844955	0.9969086
COBALT	228.616	Axial	2431.818	1.058824	1.055475	1.058433	1.062563
COPPER	324.754	Axial	11003.07	1.013765	1.014310	1.010098	1.016886
IRON	259.940	Radial	1849.251	9.907533	9.895028	9.910542	9.917030
LEAD	220.353	Axial	247.3431	0.5088735	0.5087108	0.5080479	0.5098618
LITHIUM	670.784	Radial	5868.167	1.011664	1.010464	1.012104	1.012425
MAGNESIUM	279.079	Radial	305.3562	10.28161	10.33186	10.29133	10.22163
MANGANESE	257.610	Axial	40161.17	1.004406	1.004546	0.9992895	1.009383
MOLYBDENUM	202.030	Axial	642.4371	0.2627244	0.2618316	0.2619551	0.2643864
NICKEL	231.604	Axial	1373.885	1.036241	1.033399	1.033843	1.041482
PHOSPHORUS	177.495	Axial	359.0475	1.035228	1.030939	1.031972	1.042774
POTASSIUM	766.490	Radial	15444.08	48.59205	48.54525	48.53343	48.69748
SELENIUM	196.090	Axial	223.8584	1.022952	1.017500	1.017935	1.033421
SILICON	251.611	Axial	4347.587	2.035736	2.044221	2.014697	2.048291
SILVER	328.068	Axial	2979.521	0.4983665	0.5009585	0.4952387	0.4989023
SODIUM	818.326	Radial	1418.001	49.73694	49.90280	49.25802	50.04999
STRONTIUM	421.552	Radial	17333.01	1.020266	1.019503	1.019141	1.022153
SULFUR	182.034	Axial	659.9679	5.071537	5.059208	5.065320	5.090082
THALLIUM	190.856	Axial	437.0820	1.006412	1.011933	1.004021	1.003280
TIN	189.989	Axial	333.2889	0.5201824	0.5196809	0.5199063	0.5209600
TITANIUM	334.941	Radial	1291.253	1.034399	1.032123	1.030535	1.040540
VANADIUM	292.402	Radial	285.3234	1.031652	1.026976	1.035348	1.032633
ZINC	206.200	Axial	3323.222	1.010301	1.008087	1.007748	1.015066
Ce	535.353	Radial	6.668396	-0.003321011	0.01389395	0.005287046	-0.02914403

Sample ID: CCB Units: mg/l

Analyzed: 09/26/17 09:00 Sequence: 39

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10928.53	10955.54	10932.17	10897.88
YTTRIUM	360.073	Radial	5579.803	5599.446	5578.813	5561.150
YTTRIUM	360.073	Axial	175635.2	175806.5	175601.5	175497.5
INDIUM	230.606	Axial	3493.877	3497.206	3501.353	3483.073

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	1.027273	0.001851555	0.02425123	-0.002996023	-0.01570054
ANTIMONY	206.833	Axial	0.5672681	0.001578933	0.002142751	0.0004884715	0.002105576
ARSENIC	189.042	Axial	-1.74641	-0.001373865	-0.003133933	-0.002749083	0.001761421
BARIUM	233.527	Axial	3.076175	0.00009780888	0.00006556004	0.00009696109	0.0001309055
BERYLLIUM	313.042	Radial	-0.2166667	-0.00003061478	-0.00004347669	0.00001981033	-0.00006817798
BORON	249.678	Radial	1.316667	0.009234782	0.005574620	0.008570042	0.01355968
CADMIUM	228.802	Axial	1.984694	-0.0003196936	-0.00002940024	-0.0004925392	-0.0004371413
CALCIUM	317.933	Radial	42.75556	-0.0005809826	-0.004616953	-0.0005819144	0.003455920
Ce	535.353	Radial	7.238889	0.00000000000001764792	-0.03224352	0.007632368	0.02461115
CHROMIUM	267.716	Axial	14.42799	0.001380177	0.001488603	0.001265384	0.001386544
COBALT	228.616	Axial	3.044224	-0.00005769585	-0.00009143975	-0.00003268920	-0.00004895858
COPPER	324.754	Axial	273.5266	0.001461792	0.001135995	0.001855049	0.001394331
IRON	259.940	Radial	2.422222	0.005385664	-0.0004718871	0.01311415	0.003514731
LEAD	220.353	Axial	0.6878579	0.0001145464	-0.001726013	0.00009016991	0.001979482
LITHIUM	670.784	Radial	-11.5450	-0.001252974	-0.002735458	-0.001710369	0.0006869033
MAGNESIUM	279.079	Radial	-0.6833333	0.02384239	0.03508622	0.04792546	-0.01148450
MANGANESE	257.610	Axial	8.544822	0.00003988941	0.00007240266	-0.00004414653	0.00009141208
MOLYBDENUM	202.030	Axial	0.6116537	0.00008138989	-0.0003480781	0.0003894859	0.0002027618
NICKEL	231.604	Axial	-1.20607	-0.00005023129	0.0003344799	0.00002937604	-0.0005145498
PHOSPHORUS	177.495	Axial	-0.2829663	-0.0002449370	-0.0006373872	-0.0003625065	0.0002650826
POTASSIUM	766.490	Radial	25.68472	0.07795571	0.09148790	0.09557926	0.04679998
SELENIUM	196.090	Axial	0.3671095	-0.004130573	-0.01054569	-0.0009309400	-0.0009150927
SILICON	251.611	Axial	36.20453	0.002341560	0.003260552	0.002061632	0.001702495
SILVER	328.068	Axial	-30.8445	0.0008080770	0.001576116	0.0007796717	0.00006844303
SODIUM	589.592	Radial	62.69833	0.03554773	0.04052685	0.03106139	0.03505495
STRONTIUM	421.552	Radial	-2.11111	0.00002569253	0.0001771091	-0.0002203536	0.0001203221
SULFUR	182.034	Axial	2.308148	0.01426286	0.004275940	0.02237728	0.01613537
THALLIUM	190.856	Axial	0.4578893	-0.001808460	-0.001853460	-0.001878775	-0.001693146
TIN	189.989	Axial	-1.11896	-0.001677051	-0.003557256	-0.0002734075	-0.001200489
TITANIUM	334.941	Radial	-0.03333333	-0.002145709	-0.001959037	-0.002278985	-0.002199105
VANADIUM	292.402	Radial	0.03333333	0.002177203	0.002048352	-0.005876890	0.01036015
ZINC	206.200	Axial	3.487433	-0.0001571724	0.0002136058	-0.00009459707	-0.0005905259

Sample ID: CCVLL Units: mg/l

Analyzed: 09/26/17 09:40 Sequence: 50 Standard ID: 17G05089

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	10814.53	10879.76	10771.00	10792.82
YTTRIUM	360.073	Radial	5409.126	5413.388	5420.563	5393.429
YTTRIUM	360.073	Axial	172319.3	172995.6	172077.6	171884.7
INDIUM	230.606	Axial	3436.238	3455.855	3421.281	3431.578

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	9.237879	0.2308159	0.2771242	0.2613463	0.1539771
ANTIMONY	206.833	Axial	2.734214	0.008293635	0.006164358	0.008289259	0.01042729
ARSENIC	189.042	Axial	1.534250	0.009746813	0.008782968	0.01201535	0.008442126
BARIUM	233.527	Axial	27.66843	0.005362987	0.005472665	0.005441906	0.005174391
BERYLLIUM	313.042	Radial	19.91667	0.001994671	0.001991278	0.001913325	0.002079411
BORON	249.678	Radial	20.90	0.2089876	0.2108448	0.2019267	0.2141912
CADMIUM	228.802	Axial	12.35409	0.001763961	0.001476605	0.001836454	0.001978824
CALCIUM	317.933	Radial	282.100	1.013297	1.019372	1.005178	1.015341
CHROMIUM	267.716	Axial	59.99219	0.01062230	0.01033582	0.01024115	0.01128992
COBALT	228.616	Axial	27.25936	0.009548975	0.009454161	0.01015910	0.009033668
COPPER	324.754	Axial	383.3349	0.01195532	0.01167902	0.01209051	0.01209642
IRON	259.940	Radial	21.0	0.1083459	0.1169895	0.1025935	0.1054547
LEAD	220.353	Axial	4.043246	0.006424198	0.003997274	0.008385348	0.006889971
LITHIUM	670.784	Radial	81.66167	0.01520841	0.01537772	0.01786732	0.01238020
MAGNESIUM	279.079	Radial	29.96833	1.081049	1.018666	1.082811	1.141670
MANGANESE	257.610	Axial	441.2023	0.01065213	0.01055378	0.01070432	0.01069830
MOLYBDENUM	202.030	Axial	14.10922	0.005499712	0.005136519	0.006189426	0.005173191
NICKEL	231.604	Axial	14.22722	0.01049991	0.01038940	0.01017255	0.01093778
PHOSPHORUS	177.495	Axial	3.500664	0.01043179	0.01152283	0.009688664	0.01008387
POTASSIUM	766.490	Radial	313.4667	1.012885	1.033549	0.9839685	1.021139
SELENIUM	196.090	Axial	3.063453	0.008011193	0.01240136	0.003267031	0.008365188
SILICON	251.611	Axial	453.3703	0.1953507	0.1963567	0.1947175	0.1949777
SILVER	328.068	Axial	4.395803	0.006471166	0.005724645	0.006358283	0.007330569
SODIUM	589.592	Radial	1151.015	1.055724	1.063889	1.049492	1.053790
STRONTIUM	421.552	Radial	173.6556	0.01067272	0.01067315	0.01065721	0.01068779
SULFUR	182.034	Axial	125.7171	0.9447067	0.9416235	0.9415582	0.9509384
THALLIUM	190.856	Axial	5.885873	0.009593651	0.008026831	0.01116561	0.009588511
TIN	189.989	Axial	33.37085	0.04719043	0.04792730	0.04691889	0.04672508
TITANIUM	334.941	Radial	63.38333	0.05026843	0.04792676	0.05087081	0.05200773
VANADIUM	292.402	Radial	5.483333	0.02240967	0.03063434	0.02318140	0.01341327
ZINC	206.200	Axial	174.0547	0.05075196	0.05022221	0.05077197	0.05126168
Ce	535.353	Radial	6.455556	-0.004560017	0.02296179	-0.01739921	-0.01924262

Sample ID: ICSA Units: mg/l

Analyzed: 09/26/17 10:55 Sequence: 55 Standard ID: 17H04290

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9386.267	9334.021	9415.990	9408.789
YTTRIUM	360.073	Radial	5101.546	5106.378	5066.103	5132.158
YTTRIUM	360.073	Axial	143802.9	143660.9	143314.4	144433.3
INDIUM	230.606	Axial	2535.192	2527.192	2536.200	2542.184

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	17895.03	527.2189	525.2865	528.9691	527.4012
ANTIMONY	206.833	Axial	4.043747	0.01424230	0.01840609	0.01439665	0.009924172
ARSENIC	189.042	Axial	-10.1483	-0.03534390	-0.03444181	-0.03131477	-0.04027513
BARIUM	233.527	Axial	13.98551	0.002891777	0.002645283	0.002913255	0.003116792
BERYLLIUM	313.042	Radial	0.9827550	0.00009457632	0.0001396712	-0.0001111307	0.0002551884
BORON	249.678	Radial	-7.93377	-0.08939418	-0.09123396	-0.08840008	-0.08854850
CADMIUM	228.802	Axial	5.180281	0.0004830598	0.0004166769	0.0006343569	0.0003981456
CALCIUM	373.690	Radial	63191.07	523.1522	521.0310	524.0218	524.4039
Ce	535.353	Radial	17.24517	0.05824952	0.09836031	0.05586778	0.02052048
CHROMIUM	267.716	Axial	17.18594	0.002496374	0.002242126	0.001803121	0.003443874
COBALT	228.616	Axial	3.747338	0.0007683067	0.001053267	0.0007472781	0.0005043747
COPPER	324.754	Axial	266.8989	0.006157805	0.005929322	0.006046136	0.006497955
IRON	271.441	Radial	1691.113	208.5395	207.1426	209.8691	208.6068
LEAD	220.353	Axial	-12.3386	-0.03248023	-0.03718428	-0.03122018	-0.02903621
LITHIUM	670.784	Radial	13.79332	0.003323114	0.003036111	0.003597954	0.003335276
MAGNESIUM	279.079	Radial	14619.49	534.9947	532.4080	536.9593	535.6169
MANGANESE	257.610	Axial	146.4921	0.003971416	0.003945732	0.003910891	0.004057624
MOLYBDENUM	202.030	Axial	-0.8229729	-0.0005397276	0.0004068894	-0.0005476847	-0.001478388
NICKEL	231.604	Axial	8.130447	0.008304626	0.007862706	0.009040739	0.008010434
PHOSPHORUS	177.495	Axial	1.843781	0.006533748	0.001851855	0.009332453	0.008416934
POTASSIUM	766.490	Radial	-9.26129	-0.03442426	-0.08051230	-0.005559253	-0.01720123
SELENIUM	196.090	Axial	2.376699	0.006568233	0.007962675	-0.005258548	0.01700057
SILICON	251.611	Axial	11.02351	-0.008350828	-0.009677304	-0.007833752	-0.007541427
SILVER	328.068	Axial	-13.7602	0.003185704	0.002757740	0.003853594	0.002945778
SODIUM	589.592	Radial	45.73293	0.02397477	0.02640797	0.004672540	0.04084379
STRONTIUM	421.552	Radial	288.2573	0.01867145	0.01855458	0.01898981	0.01846995
SULFUR	182.034	Axial	6.891719	0.05689743	0.05920469	0.05797396	0.05351365
THALLIUM	190.856	Axial	0.5541751	-0.001183701	-0.003072945	-0.003781029	0.003302873
TIN	189.989	Axial	-6.22449	-0.01207853	-0.01187466	-0.01368451	-0.01067643
TITANIUM	334.941	Radial	25.72981	0.02043128	0.02041148	0.02104566	0.01983670
VANADIUM	292.402	Radial	-0.1164706	0.001589252	0.001261690	0.001653157	0.001852908
ZINC	206.200	Axial	24.73529	0.007319774	0.008111241	0.007517393	0.006330688

Sample ID: ICSAB Units: mg/l

Analyzed: 09/26/17 10:57 Sequence: 56 Standard ID: 17H03236

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	9419.442	9436.833	9408.169	9413.326
YTTRIUM	360.073	Radial	5108.778	5116.088	5079.729	5130.516
YTTRIUM	360.073	Axial	144042.6	144303.0	144377.9	143447.1
INDIUM	230.606	Axial	2540.890	2547.114	2536.035	2539.520

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	17996.70	529.4551	530.0964	527.8685	530.4002
ANTIMONY	206.833	Axial	151.7109	0.5376682	0.5309682	0.5413511	0.5406851
ARSENIC	189.042	Axial	123.8662	0.4892862	0.4897111	0.4866842	0.4914632
BARIUM	233.527	Axial	2067.089	0.5069230	0.5053374	0.5069225	0.5085092
BERYLLIUM	313.042	Radial	4875.737	0.5194197	0.5204639	0.5181517	0.5196433
BORON	249.678	Radial	84.72545	0.9093052	0.8984665	0.8920978	0.9373512
CADMIUM	228.802	Axial	4603.635	1.058667	1.053397	1.059615	1.062988
CALCIUM	373.690	Radial	63528.53	525.1987	524.2769	524.4977	526.8214
Ce	535.353	Radial	17.35610	0.05889528	0.04983678	0.05362062	0.07322844
CHROMIUM	267.716	Axial	2083.988	0.4821816	0.4832419	0.4819832	0.4813197
COBALT	228.616	Axial	986.6232	0.5269594	0.5239760	0.5283359	0.5285664
COPPER	324.754	Axial	5248.844	0.5500593	0.5485933	0.5479292	0.5536555
IRON	271.441	Radial	1694.252	208.6264	208.4172	208.3527	209.1092
LEAD	220.353	Axial	385.4509	0.9749800	0.9729176	0.9784593	0.9735630
LITHIUM	670.784	Radial	13.38485	0.003245446	0.002798695	0.004403860	0.002533783
MAGNESIUM	279.079	Radial	14657.26	535.6087	535.8783	534.0422	536.9056
MANGANESE	257.610	Axial	17220.59	0.4846680	0.4827036	0.4851511	0.4861493
MOLYBDENUM	202.030	Axial	1083.377	0.4988233	0.4959636	0.4990184	0.5014880
NICKEL	231.604	Axial	1125.294	1.042362	1.038562	1.042070	1.046452
PHOSPHORUS	177.495	Axial	1.951728	0.006878559	0.004506921	0.01068475	0.005444004
POTASSIUM	766.490	Radial	-0.5790890	-0.004721949	0.01298284	-0.03288715	0.005738471
SELENIUM	196.090	Axial	102.9083	0.5265024	0.5299778	0.5216549	0.5278745
SILICON	251.611	Axial	1896.049	0.9920495	0.9885895	0.9952300	0.9923288
SILVER	328.068	Axial	5735.101	1.073019	1.072121	1.070998	1.075937
SODIUM	589.592	Radial	51.41405	0.02958723	0.03382037	0.01900979	0.03593154
STRONTIUM	421.552	Radial	292.0442	0.01888714	0.01893216	0.01891174	0.01881753
SULFUR	182.034	Axial	7.898974	0.06539709	0.06682217	0.06658333	0.06278578
THALLIUM	190.856	Axial	173.1702	0.4882867	0.4911099	0.4859755	0.4877749
TIN	189.989	Axial	264.0450	0.5061220	0.5055688	0.5050738	0.5077233
TITANIUM	334.941	Radial	617.4677	0.5382052	0.5369425	0.5369285	0.5407446
VANADIUM	292.402	Radial	131.1284	0.5178686	0.5097682	0.5155782	0.5282593
ZINC	206.200	Axial	2745.898	0.9395255	0.9375171	0.9398540	0.9412055

Sample ID: CALBLK Units: mg/l

Analyzed: 09/25/17 23:31 Sequence: 260 Standard ID: 17F16812

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	23661.60	23660.95	23670.02	23653.83
YTTRIUM	360.073	Axial	164579.2	164037.8	164528.1	165171.6
YTTRIUM	360.073	Radial	12159.41	12152.65	12196.21	12129.36
INDIUM	230.606	Axial	7422.968	7407.690	7428.383	7432.830

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	9.095620	8.898413	7.512299	10.87615
ANTIMONY	206.833	Axial	1.334697	1.487128	0.9139651	1.602996
ARSENIC	189.042	Axial	-0.6588734	-1.062234	-0.9102244	-0.004161465
BARIUM	233.527	Axial	4.413885	4.715488	3.873649	4.652518
BERYLLIUM	313.042	Radial	-3.33853	-4.161673	-4.022072	-1.831868
BORON	249.678	Radial	0.7347099	0.8739513	3.128740	-1.798561
CADMIUM	228.802	Axial	3.324135	2.761810	4.314214	2.896380
CALCIUM	317.933	Radial	123.2480	122.3032	124.4640	122.9766
CALCIUM	373.690	Radial	43.41835	43.29388	42.95888	44.00230
Ce	535.353	Radial	-33.8595	-36.35637	-37.81080	-27.41140
CHROMIUM	267.716	Axial	26.57777	28.98406	24.90842	25.84083
COBALT	228.616	Axial	-2.26734	-2.939890	-0.5870740	-3.275073
COPPER	324.754	Axial	140.3069	133.3873	143.6355	143.8978
IRON	259.940	Radial	5.155322	4.799241	4.871360	5.795364
IRON	271.441	Radial	3.089306	-0.1498202	4.030382	5.387357
LEAD	220.353	Axial	-1.15383	-1.445889	0.5024938	-2.518102
LITHIUM	670.784	Radial	35.03705	55.10055	24.69751	25.31308
MAGNESIUM	279.079	Radial	1.092170	3.820416	-2.829577	2.285671
MANGANESE	257.610	Axial	5.702001	8.964143	6.693307	1.448551
MOLYBDENUM	202.030	Axial	3.466284	4.136466	3.827930	2.434457
NICKEL	231.604	Axial	-2.03414	-1.837041	-3.428928	-0.8364544
POTASSIUM	766.490	Radial	2.835169	5.013983	-9.657958	13.14948
SELENIUM	196.090	Axial	-0.9010755	0.3665750	-1.088944	-1.980857
SILICON	251.611	Axial	41.35324	38.74502	43.95604	41.35864
SILVER	328.068	Axial	-10.9793	-9.711155	-16.83317	-6.393606
SODIUM	589.592	Radial	-2.17889	-11.11583	6.506781	-1.927625
SODIUM	818.326	Radial	-60.4466	-59.03749	-78.95393	-43.34865
STRONTIUM	421.552	Radial	17.29357	13.50047	17.44698	20.93325
SULFUR	182.034	Axial	-0.2619147	0.2749313	-0.3990025	-0.6616729
THALLIUM	190.856	Axial	-1.94386	-2.753062	-2.094763	-0.9837703
TIN	189.989	Axial	1.691650	2.532700	1.157523	1.384727
TITANIUM	334.941	Radial	5.456271	4.095086	8.226964	4.046763
VANADIUM	292.402	Radial	-1.06678	0.8739513	-3.719585	-0.3547162
ZINC	206.200	Axial	7.830807	8.147963	9.089776	6.254682

Sample ID: STD1 Units: mg/l

Analyzed: 09/25/17 23:34 Sequence: 261 Standard ID: 17G05089

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	24026.08	24018.64	24011.07	24048.53
YTTRIUM	360.073	Axial	166571.1	166748.8	166726.0	166238.5
YTTRIUM	360.073	Radial	12267.88	12250.17	12268.24	12285.23
INDIUM	230.606	Axial	7440.960	7433.009	7437.228	7452.643

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	19.04498	19.79863	16.50941	20.82691
ANTIMONY	206.833	Axial	7.949169	10.25340	6.473159	7.120948
ARSENIC	189.042	Axial	1.994807	1.980610	1.057012	2.946800
BARIUM	233.527	Axial	38.55374	39.57891	38.01082	38.07149
BERYLLIUM	313.042	Radial	36.16342	37.40682	32.40186	38.68157
BORON	249.678	Radial	79.04425	77.60084	81.03377	78.49814
CADMIUM	228.802	Axial	27.47418	28.86032	26.90387	26.65835
CALCIUM	317.933	Radial	949.4619	944.4389	948.8731	955.0738
CHROMIUM	267.716	Axial	82.15956	85.82834	82.81718	77.83317
COBALT	228.616	Axial	66.42529	69.49299	62.54786	67.23504
COPPER	324.754	Axial	282.3556	281.6617	277.6931	287.7119
IRON	259.940	Radial	66.43817	65.79972	67.62475	65.89004
LEAD	220.353	Axial	7.446991	7.832980	7.410737	7.097257
LITHIUM	670.784	Radial	183.2758	196.4523	179.6740	173.7012
MAGNESIUM	279.079	Radial	98.35472	101.0134	96.73570	97.31507
MANGANESE	257.610	Axial	564.9015	561.7265	563.4865	569.4915
MOLYBDENUM	202.030	Axial	20.12341	18.72425	20.06242	21.58354
NICKEL	231.604	Axial	32.09485	31.69392	31.68539	32.90524
POTASSIUM	766.490	Radial	536.4025	541.8730	538.0240	529.3105
SELENIUM	196.090	Axial	1.414913	2.787833	1.772784	-0.3158770
SILICON	251.611	Axial	698.9378	692.2156	705.8442	698.7537
SILVER	328.068	Axial	34.66595	37.02595	36.41359	30.55833
SODIUM	589.592	Radial	1550.402	1528.629	1525.166	1597.411
STRONTIUM	421.552	Radial	499.0513	488.9427	500.5780	507.6332
SULFUR	182.034	Axial	234.5832	237.3736	233.4956	232.8803
THALLIUM	190.856	Axial	3.381483	3.399076	3.789014	2.956359
TIN	189.989	Axial	66.14637	66.46070	65.86350	66.11492
TITANIUM	334.941	Radial	132.7273	134.9341	134.8802	128.3676
VANADIUM	292.402	Radial	12.82523	12.29533	14.84531	11.33506
ZINC	206.200	Axial	389.5217	390.9624	387.3908	390.2120

Sample ID: STD2 Units: mg/l

Analyzed: 09/25/17 23:36 Sequence: 262 Standard ID: 17H04289

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	24267.99	24295.47	24304.46	24204.04
YTTRIUM	360.073	Axial	166790.7	167451.3	166757.4	166163.4
YTTRIUM	360.073	Radial	12311.02	12302.03	12299.28	12331.76
INDIUM	230.606	Axial	7467.793	7472.502	7483.131	7447.746

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ANTIMONY	206.833	Axial	318.7130	318.2420	319.0621	318.8348
ARSENIC	189.042	Axial	172.0350	172.4350	172.1993	171.4708
BARIUM	233.527	Axial	3443.248	3450.214	3445.593	3433.937
BERYLLIUM	313.042	Radial	9826.129	9822.149	9818.741	9837.497
CADMIUM	228.802	Axial	5631.647	5637.280	5636.518	5621.144
CHROMIUM	267.716	Axial	3130.030	3126.507	3130.350	3133.234
COBALT	228.616	Axial	3397.801	3397.952	3400.706	3394.746
COPPER	324.754	Axial	6797.922	6845.296	6754.643	6793.827
IRON	259.940	Radial	316.6254	315.5682	317.3514	316.9564
LEAD	220.353	Axial	629.7461	631.1029	629.9176	628.2178
LITHIUM	670.784	Radial	4916.598	4906.897	4922.052	4920.847
MANGANESE	257.610	Axial	27458.64	27585.71	27427.13	27363.06
MOLYBDENUM	202.030	Axial	1753.546	1747.748	1759.760	1753.129
NICKEL	231.604	Axial	1620.988	1619.763	1622.580	1620.619
SELENIUM	196.090	Axial	127.8595	127.5775	127.5634	128.4376
SILICON	251.611	Axial	1740.424	1742.507	1740.780	1737.986
SILVER	328.068	Axial	4716.380	4762.138	4683.513	4703.490
STRONTIUM	421.552	Radial	23362.05	23391.21	23350.30	23344.64
THALLIUM	190.856	Axial	291.9187	291.3313	291.7497	292.6752
TIN	189.989	Axial	652.4309	652.8925	652.7372	651.6631
TITANIUM	334.941	Radial	1300.712	1292.041	1308.037	1302.058
VANADIUM	292.402	Radial	394.5579	394.1132	393.8971	395.6635
ZINC	206.200	Axial	3817.647	3825.752	3818.184	3809.005

Sample ID: STD3 Units: mg/l

Analyzed: 09/25/17 23:39 Sequence: 263 Standard ID: 17H04288

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	24308.84	24435.71	24236.89	24253.92
YTTRIUM	360.073	Axial	166416.3	166206.4	166402.3	166640.1
YTTRIUM	360.073	Radial	12472.78	12514.44	12362.54	12541.35
INDIUM	230.606	Axial	7436.688	7478.579	7421.254	7410.231

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ANTIMONY	206.833	Axial	651.5679	653.8809	650.0549	650.7680
ARSENIC	189.042	Axial	354.0766	354.6998	353.7338	353.7962
BARIUM	233.527	Axial	6846.940	6885.874	6836.439	6818.506
BERYLLIUM	313.042	Radial	20025.35	20065.79	19948.66	20061.59
BORON	249.678	Radial	393.8664	396.8193	389.1462	395.6337
CADMIUM	228.802	Axial	11313.49	11369.55	11293.18	11277.75
CALCIUM	317.933	Radial	964.7711	965.1932	968.3660	960.7540
CHROMIUM	267.716	Axial	6245.615	6242.503	6267.205	6227.137
COBALT	228.616	Axial	6850.364	6878.494	6830.039	6842.558
COPPER	324.754	Axial	13381.25	13391.29	13375.29	13377.16
IRON	259.940	Radial	638.2546	640.8996	636.4664	637.3977
LEAD	220.353	Axial	1268.942	1275.076	1265.062	1266.688
LITHIUM	670.784	Radial	9931.922	9949.181	9862.290	9984.295
MANGANESE	257.610	Axial	54933.23	55026.13	54939.72	54833.83
MOLYBDENUM	202.030	Axial	3526.069	3543.315	3510.852	3524.038
NICKEL	231.604	Axial	3283.013	3294.895	3282.842	3271.304
SELENIUM	196.090	Axial	260.6762	260.7498	260.5561	260.7226
SILICON	251.611	Axial	3635.476	3620.736	3634.316	3651.375
SILVER	328.068	Axial	9560.059	9585.179	9545.586	9549.412
SODIUM	589.592	Radial	1581.266	1592.585	1589.194	1562.018
STRONTIUM	421.552	Radial	47499.48	47542.16	47237.87	47718.40
SULFUR	182.034	Axial	246.6641	247.5596	245.6169	246.8157
THALLIUM	190.856	Axial	588.7413	592.9772	585.6169	587.6299
TIN	189.989	Axial	1316.801	1323.690	1311.425	1315.287
TITANIUM	334.941	Radial	2645.664	2645.717	2625.672	2665.602
VANADIUM	292.402	Radial	808.3062	810.6579	801.9078	812.3528
ZINC	206.200	Axial	7714.872	7737.261	7699.838	7707.517

Sample ID: STD4 Units: mg/l

Analyzed: 09/25/17 23:41 Sequence: 264 Standard ID: 17H04286

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	24276.84	24334.52	24245.70	24250.29
YTTRIUM	360.073	Axial	166170.2	167209.6	165741.6	165559.5
YTTRIUM	360.073	Radial	12479.39	12484.22	12571.70	12382.24
INDIUM	230.606	Axial	7349.736	7364.656	7352.957	7331.597

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ANTIMONY	206.833	Axial	1322.862	1328.328	1320.652	1319.608
ARSENIC	189.042	Axial	718.7225	717.7992	720.3232	718.0451
BARIUM	233.527	Axial	13597.66	13627.94	13579.76	13585.28
BERYLLIUM	313.042	Radial	40448.16	40286.47	40835.17	40222.85
BORON	249.678	Radial	788.5359	785.0417	791.8375	788.7285
CADMIUM	228.802	Axial	23032.57	23070.08	23023.29	23004.32
CALCIUM	317.933	Radial	1819.863	1811.188	1836.667	1811.735
CHROMIUM	267.716	Axial	12430.50	12459.30	12421.28	12410.93
COBALT	228.616	Axial	13693.43	13730.52	13660.28	13689.48
COPPER	324.754	Axial	26626.00	26729.08	26649.10	26499.82
IRON	259.940	Radial	1282.390	1274.170	1291.770	1281.229
LEAD	220.353	Axial	2559.450	2561.600	2556.494	2560.255
MANGANESE	257.610	Axial	109210.8	109393.8	109387.5	108851.0
MOLYBDENUM	202.030	Axial	6944.610	6963.502	6932.521	6937.806
NICKEL	231.604	Axial	6584.833	6599.163	6582.734	6572.601
POTASSIUM	766.490	Radial	1082.484	1098.945	1079.740	1068.766
SELENIUM	196.090	Axial	538.8550	539.9783	536.2569	540.3298
SILICON	251.611	Axial	7944.392	7896.033	7939.786	7997.357
SILVER	328.068	Axial	19431.19	19532.00	19444.23	19317.32
SODIUM	589.592	Radial	3175.147	3160.367	3201.438	3163.637
STRONTIUM	421.552	Radial	94606.13	94160.65	95371.37	94286.36
SULFUR	182.034	Axial	509.6399	513.8146	507.3463	507.7586
TIN	189.989	Axial	2658.361	2659.261	2658.081	2657.742
TITANIUM	334.941	Radial	5294.742	5259.200	5346.850	5278.177
VANADIUM	292.402	Radial	1621.558	1627.010	1629.960	1607.705
ZINC	206.200	Axial	15623.52	15657.13	15592.97	15620.46

Sample ID: STD5 Units: mg/l

Analyzed: 09/25/17 23:44 Sequence: 265 Standard ID: 17112248

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	24029.67	24084.96	24040.88	23963.18
YTTRIUM	360.073	Axial	163712.0	163947.6	163440.9	163747.6
YTTRIUM	360.073	Radial	12496.95	12507.04	12507.56	12476.25
INDIUM	230.606	Axial	7206.583	7211.298	7184.414	7224.037

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	617.5781	616.3221	615.7981	620.6140
BARIUM	233.527	Axial	65984.55	66131.29	66056.33	65766.04
CALCIUM	317.933	Radial	8768.945	8765.792	8765.034	8776.008
CALCIUM	373.690	Radial	4899.254	4896.495	4889.606	4911.662
IRON	259.940	Radial	6400.359	6407.689	6409.845	6383.543
IRON	271.441	Radial	419.2686	415.6633	416.5337	425.6089
MAGNESIUM	279.079	Radial	1006.853	1015.196	1001.221	1004.141
POTASSIUM	766.490	Radial	5387.601	5384.437	5387.727	5390.640
SILICON	251.611	Axial	31571.03	31700.19	31491.15	31521.75
SODIUM	589.592	Radial	15610.71	15579.70	15632.34	15620.10
SODIUM	818.326	Radial	412.5365	427.0917	391.4257	419.0922
SULFUR	182.034	Axial	2524.080	2525.534	2524.653	2522.054

Sample ID: STD6 Units: mg/l

Analyzed: 09/25/17 23:46 Sequence: 266 Standard ID: 17F02771

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	21351.02	21358.44	21362.67	21331.95
YTTRIUM	360.073	Axial	143338.5	143736.2	143103.6	143175.7
YTTRIUM	360.073	Radial	11832.93	11787.48	11895.73	11815.58
INDIUM	230.606	Axial	5763.878	5764.881	5763.732	5763.021

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	14060.48	14055.78	14102.42	14023.25
CALCIUM	373.690	Radial	107174.4	107085.7	107505.0	106932.6
Ce	535.353	Radial	3040.757	3033.800	3052.489	3035.983
IRON	271.441	Radial	3705.316	3703.863	3716.868	3695.217
MAGNESIUM	279.079	Radial	22606.30	22617.64	22675.97	22525.28
POTASSIUM	766.490	Radial	25206.53	25173.62	25315.60	25130.38
SODIUM	818.326	Radial	10377.27	10354.55	10423.39	10353.88
SULFUR	182.034	Axial	11202.71	11199.51	11190.19	11218.42

Sample ID: STD7 Units: mg/l

Analyzed: 09/25/17 23:49 Sequence: 267 Standard ID: 17F12502

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	20619.39	20625.00	20596.55	20636.61
YTTRIUM	360.073	Axial	137405.4	138099.0	137205.8	136911.6
YTTRIUM	360.073	Radial	11705.60	11640.80	11780.97	11695.03
INDIUM	230.606	Axial	5292.981	5292.895	5290.523	5295.525

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
ALUMINUM	308.215	Radial	28193.50	28071.18	28315.26	28194.05
CALCIUM	373.690	Radial	210967.6	209892.6	211921.9	211088.3
IRON	271.441	Radial	7225.291	7182.509	7253.637	7239.727
MAGNESIUM	279.079	Radial	44912.42	44809.48	45097.64	44830.14
POTASSIUM	766.490	Radial	50866.19	50692.73	51032.85	50872.98
SODIUM	818.326	Radial	20943.62	20842.98	21031.06	20956.81
SULFUR	182.034	Axial	22279.19	22284.44	22277.63	22275.50

Sample ID: ICV Units: mg/l

Analyzed: 09/25/17 23:51 Sequence: 268 Standard ID: 17G05088

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3	Intensity Rep4
YTTRIUM	224.306	Axial	23348.13	23310.67	23372.36	23361.36	
YTTRIUM	360.073	Axial	160171.5	160666.8	159737.6	160110.1	
YTTRIUM	360.073	Radial	12215.77	12186.11	12219.71	12241.48	
INDIUM	230.606	Axial	7007.060	6964.493	7017.282	7039.405	

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3	Conc. Rep4
ALUMINUM	308.215	Radial	606.4602	10.18159	10.15880	10.25470	10.13128	
ANTIMONY	206.833	Axial	615.2443	0.9711054	0.9766827	0.9668448	0.9697887	
ARSENIC	189.042	Axial	328.2163	0.9551772	0.9586680	0.9604053	0.9464583	
BARIUM	233.527	Axial	6502.716	1.012576	1.015159	1.012991	1.009578	
BERYLLIUM	313.042	Radial	19506.72	0.9878525	0.9885782	0.9865864	0.9883929	
BORON	249.678	Radial	382.7805	0.9910372	0.9969146	0.9860877	0.9901094	
CADMIUM	228.802	Axial	10610.16	0.9623131	0.9625296	0.9637055	0.9607041	
CALCIUM	317.933	Radial	8548.618	9.985074	9.981966	9.995484	9.977772	
CHROMIUM	267.716	Axial	5871.574	0.9777869	0.9723445	0.9795826	0.9814337	
COBALT	228.616	Axial	6461.844	0.9932794	0.9987599	0.9938219	0.9872564	
COPPER	324.754	Axial	12690.74	0.9837948	0.9824257	0.9841603	0.9847982	
IRON	259.940	Radial	6215.670	9.936000	9.920359	9.920048	9.967591	
LEAD	220.353	Axial	1164.200	0.9596545	0.9680198	0.9584607	0.9524829	
LITHIUM	670.784	Radial	9584.669	0.9853893	0.9864509	0.9853090	0.9844079	
MAGNESIUM	279.079	Radial	963.4976	10.27521	10.27052	10.26849	10.28664	
MANGANESE	257.610	Axial	51116.58	0.9701989	0.9667283	0.9716415	0.9722269	
MOLYBDENUM	202.030	Axial	3434.814	1.024959	1.027445	1.023596	1.023837	
NICKEL	231.604	Axial	3050.462	0.9761944	0.9832742	0.9770344	0.9682745	
POTASSIUM	766.490	Radial	5277.392	9.976300	9.963319	9.995046	9.970535	
SELENIUM	196.090	Axial	245.5275	0.9572412	0.9590657	0.9612601	0.9513979	
SILICON	251.611	Axial	3425.343	1.086259	1.080824	1.084546	1.093408	
SILVER	328.068	Axial	8794.158	0.9585576	0.9548735	0.9595966	0.9612028	
SODIUM	589.592	Radial	15346.73	10.04718	10.04545	10.04424	10.05184	
STRONTIUM	421.552	Radial	18783.92	0.4050031	0.4053358	0.4050860	0.4045874	
SULFUR	182.034	Axial	2297.892	9.164109	9.176833	9.165433	9.150060	
THALLIUM	190.856	Axial	535.4191	0.9670822	0.9688517	0.9651607	0.9672342	
TIN	189.989	Axial	1235.463	0.9687964	0.9705652	0.9665979	0.9692262	
TITANIUM	334.941	Radial	2617.621	1.009623	1.009853	1.008672	1.010345	
VANADIUM	292.402	Radial	796.0727	1.004629	1.010013	0.9963413	1.007533	
ZINC	206.200	Axial	7296.471	0.9744073	0.9751960	0.9743867	0.9736391	
Ce	535.353	Radial	-19.0199	0.04723216	0.05817657	0.01757967	0.06594024	

Sample ID: ICB Units: mg/l

Analyzed: 09/26/17 00:15 Sequence: 269

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	23733.07	23730.58	23754.18	23714.45
YTTRIUM	360.073	Axial	165504.4	165442.8	165821.4	165249.1
YTTRIUM	360.073	Radial	12187.38	12285.58	12156.37	12120.21
INDIUM	230.606	Axial	7450.677	7446.472	7431.575	7473.984

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	8.760278	-0.005835397	-0.07106722	-0.01505626	0.06861729
ANTIMONY	206.833	Axial	4.427363	0.004805830	0.002640683	0.006324287	0.005452521
ARSENIC	189.042	Axial	-2.76254	-0.006007002	-0.006279712	-0.003178468	-0.008562825
BARIUM	233.527	Axial	8.635208	0.0006449749	0.0005650936	0.0007930530	0.0005767782
BERYLLIUM	313.042	Radial	-3.51556	-0.000009375504	0.0001714120	-0.0001368764	-0.00006266215
BORON	249.678	Radial	2.869612	0.005559302	0.005458628	0.004801131	0.006418146
CADMIUM	228.802	Axial	5.557746	0.0001985126	0.0001748137	0.0001449641	0.0002757599
CALCIUM	317.933	Radial	135.4505	0.01417824	0.01023700	0.01414908	0.01814866
Ce	535.353	Radial	-26.5938	0.02306624	0.03943681	0.05255812	-0.02279621
CHROMIUM	267.716	Axial	22.86248	-0.0006260654	-0.00002816494	-0.0009282078	-0.0009218235
COBALT	228.616	Axial	-1.26069	0.0001465461	0.0001593006	0.00002650136	0.0002538364
COPPER	324.754	Axial	147.3413	0.0004742811	0.0003591634	0.0006637756	0.0003999045
IRON	259.940	Radial	9.027927	0.006191758	0.005608170	0.006943359	0.006023743
LEAD	220.353	Axial	-0.001556728	0.0008957018	0.001346699	0.0005784283	0.0007619785
LITHIUM	670.784	Radial	22.16751	-0.001339849	-0.001587613	-0.0004187507	-0.002013183
MAGNESIUM	279.079	Radial	2.073840	0.01038584	0.02126927	-0.004673838	0.01456209
MANGANESE	257.610	Axial	11.25342	0.0001011586	0.0001063338	0.0001613949	0.00003574710
MOLYBDENUM	202.030	Axial	4.118530	0.0001887542	0.0004089305	-0.0001174071	0.0002747393
NICKEL	231.604	Axial	0.4452444	0.0007480465	0.001098627	0.0005389020	0.0006066101
POTASSIUM	766.490	Radial	25.29462	0.04254154	0.03707489	0.05166555	0.03888420
SELENIUM	196.090	Axial	-1.06313	-0.0006130257	0.002150400	0.006215625	-0.01020510
SILICON	251.611	Axial	42.80185	0.0003790240	-0.0002483790	0.00003459071	0.001350860
SILVER	328.068	Axial	-9.12442	0.0002022034	0.0005957621	0.0002726118	-0.0002617638
SODIUM	589.592	Radial	33.98791	0.02376564	0.01812887	0.02299451	0.03017353
STRONTIUM	421.552	Radial	23.93762	0.0001429039	0.0001101477	0.0001984707	0.0001200932
SULFUR	182.034	Axial	1.352261	0.006336892	0.009061448	0.002692268	0.007256961
THALLIUM	190.856	Axial	-1.49475	0.0007727423	0.001112267	-0.0002019954	0.001407956
TIN	189.989	Axial	1.570338	-0.00009792762	-0.0006984401	0.0005770404	-0.0001723832
TITANIUM	334.941	Radial	3.793652	-0.0006476160	-0.0002147043	-0.002369223	0.0006410788
VANADIUM	292.402	Radial	-2.19521	-0.001436301	0.0003498780	-0.0001338515	-0.004524928
ZINC	206.200	Axial	8.473437	0.00008146025	0.00002756790	0.00008280193	0.0001340109

Sample ID: CCV Units: mg/l

Analyzed: 09/26/17 00:23 Sequence: 270 Standard ID: 17D27304

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	22927.97	22969.02	22939.36	22875.52
YTTRIUM	360.073	Axial	157008.0	156656.1	156982.6	157385.2
YTTRIUM	360.073	Radial	12208.45	12293.60	12171.64	12160.10
INDIUM	230.606	Axial	6677.542	6684.074	6683.693	6664.858

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	581.6815	9.765202	9.754976	9.761301	9.779330
ANTIMONY	206.833	Axial	308.0952	0.4941854	0.4979631	0.4909606	0.4936325
ARSENIC	189.042	Axial	331.6546	0.9828217	0.9802303	0.9786140	0.9896207
BARIUM	233.527	Axial	3159.717	0.5006930	0.4994372	0.4999253	0.5027166
BERYLLIUM	313.042	Radial	3861.472	0.1958094	0.1944356	0.1966039	0.1963887
BORON	249.678	Radial	375.6744	0.9732000	0.9686168	0.9702970	0.9806863
CADMIUM	228.802	Axial	5347.550	0.4937524	0.4932670	0.4934553	0.4945347
CALCIUM	373.690	Radial	22445.41	50.86572	50.64843	50.96434	50.98437
CHROMIUM	267.716	Axial	5675.343	0.9640876	0.9640112	0.9689186	0.9593329
COBALT	228.616	Axial	6285.101	1.013760	1.011637	1.014791	1.014852
COPPER	324.754	Axial	12244.42	0.9681486	0.9657224	0.9697595	0.9689639
IRON	259.940	Radial	5987.856	9.577435	9.540373	9.582574	9.609358
LEAD	220.353	Axial	556.9093	0.4821512	0.4802961	0.4812033	0.4849541
LITHIUM	670.784	Radial	9233.032	0.9496822	0.9475861	0.9489021	0.9525583
MAGNESIUM	279.079	Radial	927.1370	9.893276	9.797595	9.960688	9.921545
MANGANESE	257.610	Axial	49397.27	0.9564510	0.9559977	0.9579138	0.9554415
MOLYBDENUM	202.030	Axial	839.1818	0.2542356	0.2540238	0.2543020	0.2543811
NICKEL	231.604	Axial	2926.096	0.9825751	0.9831071	0.9806262	0.9839921
POTASSIUM	766.490	Radial	25268.45	47.81697	47.63716	47.89568	47.91806
SELENIUM	196.090	Axial	244.0386	0.9688328	0.9655841	0.9697243	0.9711902
SILICON	251.611	Axial	5954.263	1.936260	1.929346	1.943118	1.936316
SILVER	328.068	Axial	4328.973	0.4819418	0.4840146	0.4810111	0.4807996
SODIUM	818.326	Radial	2035.240	48.00404	47.89148	47.85961	48.26104
STRONTIUM	421.552	Radial	45554.46	0.9833412	0.9800155	0.9841504	0.9858576
SULFUR	182.034	Axial	1152.011	4.678975	4.676827	4.675695	4.684403
THALLIUM	190.856	Axial	501.4429	0.9504619	0.9493382	0.9509425	0.9511050
TIN	189.989	Axial	597.6458	0.4765714	0.4753843	0.4767042	0.4776257
TITANIUM	334.941	Radial	2576.490	0.9943261	0.9936844	0.9922144	0.9970795
VANADIUM	292.402	Radial	779.9512	0.9849392	0.9730633	0.9895250	0.9922292
ZINC	206.200	Axial	7181.141	0.9765849	0.9745380	0.9755837	0.9796329
Ce	535.353	Radial	-22.3159	0.03662738	0.08783155	0.004717107	0.01733348

Sample ID: CCB Units: mg/l

Analyzed: 09/26/17 00:25 Sequence: 271

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	23753.80	23745.67	23715.55	23800.19
YTTRIUM	360.073	Axial	165633.9	164743.1	166302.9	165855.8
YTTRIUM	360.073	Radial	12116.49	12167.65	12032.54	12149.29
INDIUM	230.606	Axial	7465.456	7442.257	7432.339	7521.772

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	8.367991	-0.01183559	-0.05097717	0.03486446	-0.01939407
ANTIMONY	206.833	Axial	4.910619	0.005551654	0.007042301	0.004697899	0.004914763
ARSENIC	189.042	Axial	-1.82886	-0.003332730	-0.003613076	-0.002847972	-0.003537143
BARIUM	233.527	Axial	4.359582	-0.00001087766	0.00009005948	-0.000001977162	-0.0001207153
BERYLLIUM	313.042	Radial	-4.66003	-0.00006799954	-0.0001839794	-0.00003914190	0.00001912263
BORON	249.678	Radial	2.106053	0.003608769	0.006810796	0.005333328	-0.001317818
CADMIUM	228.802	Axial	4.604578	0.0001129638	0.0001388842	0.00002803747	0.0001719696
CALCIUM	317.933	Radial	127.2096	0.005253109	0.01010762	0.005510196	0.0001415073
Ce	535.353	Radial	-25.4861	0.02611106	0.05798095	0.004287399	0.01606482
CHROMIUM	267.716	Axial	24.28986	-0.0003980397	-0.0003886029	-0.0005503926	-0.0002551235
COBALT	228.616	Axial	0.6248809	0.0004182782	0.0004421020	0.0001996288	0.0006131037
COPPER	324.754	Axial	147.8002	0.0005000489	0.0002350493	0.0003358977	0.0009291996
IRON	259.940	Radial	4.848556	-0.0004610098	0.001033503	0.001547672	-0.003964205
LEAD	220.353	Axial	1.079008	0.001739837	0.004288883	0.001694666	-0.0007640386
LITHIUM	670.784	Radial	23.32607	-0.001205571	-0.002810202	-0.001288073	0.0004815626
MAGNESIUM	279.079	Radial	1.318375	0.002357403	0.01619646	-0.01434549	0.005221238
MANGANESE	257.610	Axial	13.79806	0.0001477818	0.0001606471	0.0001757651	0.0001069331
MOLYBDENUM	202.030	Axial	3.589764	0.00003225221	-0.00003186783	0.000006350075	0.0001222744
NICKEL	231.604	Axial	-1.83439	0.00006397370	0.0006704708	-0.0003495169	-0.0001290328
POTASSIUM	766.490	Radial	36.13272	0.06344317	0.05532048	0.05265990	0.08234914
SELENIUM	196.090	Axial	-2.23511	-0.005079287	-0.005317630	-0.004312384	-0.005607848
SILICON	251.611	Axial	46.17322	0.001409785	0.0001323474	0.003094996	0.001002011
SILVER	328.068	Axial	-7.62643	0.0003632195	0.001396169	0.0003467400	-0.0006532507
SODIUM	589.592	Radial	22.12798	0.01605606	0.008462916	0.01895593	0.02074933
STRONTIUM	421.552	Radial	32.39719	0.0003297013	0.0003645703	0.0002724698	0.0003520638
SULFUR	182.034	Axial	-0.02905242	0.0009175414	0.002254090	0.0006875827	-0.0001890482
THALLIUM	190.856	Axial	-2.44930	-0.0008350022	-0.001492905	-0.0006191490	-0.0003929527
TIN	189.989	Axial	2.170258	0.0003640468	0.0003924954	0.0001530038	0.0005466412
TITANIUM	334.941	Radial	3.861276	-0.0006147082	0.0006153371	-0.001136856	-0.001322606
VANADIUM	292.402	Radial	-0.5353005	0.0006446615	0.001933758	-0.005781274	0.005781501
ZINC	206.200	Axial	7.058719	-0.0001055735	-0.0001896712	-0.0001785303	0.00005148113

Sample ID: ICVLL Units: mg/l

Analyzed: 09/26/17 00:39 Sequence: 272 Standard ID: 17G05089

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	24066.23	24098.50	24093.83	24006.35
YTTRIUM	360.073	Axial	167538.4	167851.6	167317.2	167446.3
YTTRIUM	360.073	Radial	12339.83	12364.67	12331.22	12323.59
INDIUM	230.606	Axial	7503.046	7530.400	7532.490	7446.247

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	20.61010	0.1919582	0.2005313	0.1849956	0.1903479
ANTIMONY	206.833	Axial	8.725232	0.01130784	0.01306789	0.008159072	0.01269654
ARSENIC	189.042	Axial	1.928956	0.007322984	0.005646135	0.009444988	0.006877830
BARIUM	233.527	Axial	38.84105	0.005193007	0.005276889	0.005054957	0.005247175
BERYLLIUM	313.042	Radial	34.47410	0.001897678	0.001934202	0.001856684	0.001902147
BORON	249.678	Radial	80.85979	0.2057414	0.2032233	0.2067052	0.2072958
CADMIUM	228.802	Axial	23.14171	0.001739267	0.001784740	0.001734833	0.001698229
CALCIUM	317.933	Radial	976.0954	0.9984899	0.9955588	1.004969	0.9949418
CHROMIUM	267.716	Axial	84.32917	0.009157490	0.009668094	0.008731687	0.009072691
COBALT	228.616	Axial	69.63159	0.01032152	0.01005884	0.01051415	0.01039157
COPPER	324.754	Axial	287.2260	0.01081837	0.01108482	0.01050866	0.01086164
IRON	259.940	Radial	69.20294	0.1013194	0.09778499	0.1030502	0.1031229
LEAD	220.353	Axial	6.946701	0.006242522	0.005458086	0.006209741	0.007059739
LITHIUM	670.784	Radial	186.2590	0.01539375	0.01510860	0.01626003	0.01481263
MAGNESIUM	279.079	Radial	99.72378	1.042232	1.053666	1.047746	1.025283
MANGANESE	257.610	Axial	652.4730	0.01173516	0.01178648	0.01174124	0.01167776
MOLYBDENUM	202.030	Axial	19.57406	0.004651464	0.004472342	0.004204456	0.005277594
NICKEL	231.604	Axial	32.67992	0.01037420	0.01098780	0.009839484	0.01029531
POTASSIUM	766.490	Radial	574.6204	1.070497	1.059486	1.098621	1.053383
SELENIUM	196.090	Axial	1.266987	0.008223098	0.01147147	0.009869141	0.003328682
SILICON	251.611	Axial	702.8586	0.2027129	0.2011894	0.2049051	0.2020442
SILVER	328.068	Axial	38.60039	0.005181434	0.004940479	0.005018661	0.005585161
SODIUM	589.592	Radial	1607.116	1.042865	1.035459	1.046333	1.046804
STRONTIUM	421.552	Radial	503.9794	0.01039208	0.01039130	0.01039766	0.01038730
SULFUR	182.034	Axial	237.5523	0.9200259	0.9223814	0.9199062	0.9177901
THALLIUM	190.856	Axial	4.495971	0.01086216	0.01022845	0.01157465	0.01078337
TIN	189.989	Axial	67.70492	0.05026530	0.05070153	0.05033398	0.04976038
TITANIUM	334.941	Radial	135.0154	0.04954420	0.04841162	0.05121714	0.04900384
VANADIUM	292.402	Radial	16.23643	0.02160042	0.02367148	0.02264748	0.01848230
ZINC	206.200	Axial	415.2172	0.05281994	0.05281674	0.05260062	0.05304247
Ce	535.353	Radial	-21.4404	0.04024337	0.08209620	0.01368122	0.02495271

Sample ID: ICSA Units: mg/l

Analyzed: 09/26/17 00:46 Sequence: 273 Standard ID: 17H04290

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	20734.09	20717.92	20762.03	20722.32
YTTRIUM	360.073	Axial	139668.7	140160.5	139556.3	139289.3
YTTRIUM	360.073	Radial	11696.21	11651.37	11717.17	11720.07
INDIUM	230.606	Axial	5529.924	5521.599	5544.977	5523.195

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	27712.54	493.2049	495.4421	492.4184	491.7541
ANTIMONY	206.833	Axial	7.600138	0.01145257	0.01093656	0.01373643	0.009684713
ARSENIC	189.042	Axial	-4.55952	-0.01302694	-0.01735075	-0.009628941	-0.01210113
BARIUM	233.527	Axial	18.89080	0.002635581	0.002150576	0.003232805	0.002523364
BERYLLIUM	313.042	Radial	-2.65019	0.00002968506	0.00009013725	-0.0002024047	0.0002013227
BORON	249.678	Radial	-39.2430	-0.1082221	-0.1084030	-0.1103703	-0.1058930
CADMIUM	228.802	Axial	6.173493	0.0003330074	0.00004285560	0.0004975345	0.0004586320
CALCIUM	373.690	Radial	208457.5	493.9520	496.0037	493.1422	492.7100
Ce	535.353	Radial	-44.1260	-0.03803997	-0.02378158	-0.07927158	-0.01106675
CHROMIUM	267.716	Axial	36.89350	0.002749225	0.003017359	0.002788035	0.002442282
COBALT	228.616	Axial	0.2902175	0.0003852113	0.0001921589	0.0005528600	0.0004106151
COPPER	324.754	Axial	62.68521	-0.005065709	-0.005408447	-0.004972160	-0.004816521
IRON	271.441	Radial	7137.245	197.1317	198.4457	196.6866	196.2629
LEAD	220.353	Axial	-26.7662	-0.02702935	-0.02770752	-0.02998462	-0.02339591
LITHIUM	670.784	Radial	97.47547	0.006870720	0.006008140	0.008474806	0.006129212
MAGNESIUM	279.079	Radial	44823.46	499.8195	502.3652	499.1455	497.9479
MANGANESE	257.610	Axial	179.8386	0.003809434	0.003772899	0.003767466	0.003887936
MOLYBDENUM	202.030	Axial	1.926992	-0.0003740050	-0.001344848	0.0003753672	-0.0001525344
NICKEL	231.604	Axial	9.158468	0.004325788	0.005310709	0.004096679	0.003569976
POTASSIUM	766.490	Radial	4.796302	0.004033991	-0.002018737	-0.004946235	0.01906694
SELENIUM	196.090	Axial	-5.42709	-0.02028244	-0.02002067	-0.02575274	-0.01507391
SILICON	251.611	Axial	14.98563	-0.007396679	-0.008595352	-0.007394953	-0.006199732
SILVER	328.068	Axial	7.385034	0.002085260	0.002392970	0.001893991	0.001968820
SODIUM	589.592	Radial	49.51913	0.03529551	0.03624076	0.03153120	0.03811458
STRONTIUM	421.552	Radial	755.4690	0.01665325	0.01674405	0.01639212	0.01682358
SULFUR	182.034	Axial	9.407748	0.04327989	0.04855246	0.03552950	0.04575771
THALLIUM	190.856	Axial	-7.29111	-0.01331905	-0.009704980	-0.01788242	-0.01236976
TIN	189.989	Axial	3.212045	0.001529002	0.001021335	0.002073972	0.001491698
TITANIUM	334.941	Radial	91.52242	0.03482657	0.03359004	0.03723813	0.03365153
VANADIUM	292.402	Radial	-2.58336	-0.002058731	-0.004392791	-0.0005086255	-0.001274776
ZINC	206.200	Axial	50.59871	0.006584277	0.006651201	0.006496160	0.006605468

Sample ID: ICSAB Units: mg/l

Analyzed: 09/26/17 00:49 Sequence: 274 Standard ID: 17H03236

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	20776.96	20829.57	20699.23	20802.08
YTTRIUM	360.073	Axial	140318.9	140856.0	139646.5	140454.1
YTTRIUM	360.073	Radial	11726.36	11729.71	11682.23	11767.14
INDIUM	230.606	Axial	5538.921	5544.736	5532.215	5539.812

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	27751.72	492.6309	493.7469	493.4313	490.7145
ANTIMONY	206.833	Axial	281.2071	0.4977791	0.4950897	0.5017393	0.4965082
ARSENIC	189.042	Axial	149.1870	0.4888186	0.4905445	0.4907333	0.4851779
BARIUM	233.527	Axial	2760.010	0.4826111	0.4811805	0.4847906	0.4818622
BERYLLIUM	313.042	Radial	9204.057	0.4856526	0.4875028	0.4866475	0.4828076
BORON	249.678	Radial	317.3870	0.8557894	0.8576924	0.8665712	0.8431046
CADMIUM	228.802	Axial	9811.382	1.000006	0.9978340	1.003424	0.9987594
CALCIUM	373.690	Radial	208317.8	492.3491	492.6369	492.9285	491.4820
Ce	535.353	Radial	-41.1056	-0.02772285	-0.02995965	-0.005051569	-0.04815734
CHROMIUM	267.716	Axial	2458.742	0.4651227	0.4640312	0.4662370	0.4650998
COBALT	228.616	Axial	2574.091	0.5007055	0.5006164	0.5007105	0.5007895
COPPER	324.754	Axial	5764.157	0.5049099	0.5042798	0.5054056	0.5050441
IRON	271.441	Radial	7131.549	196.4659	196.5131	196.7860	196.0986
LEAD	220.353	Axial	883.8670	0.9216996	0.9194245	0.9225040	0.9231703
LITHIUM	670.784	Radial	98.43529	0.006945022	0.006447724	0.005748439	0.008638902
MAGNESIUM	279.079	Radial	44807.91	498.3604	499.5999	499.4408	496.0404
MANGANESE	257.610	Axial	21472.21	0.4651505	0.4645436	0.4660897	0.4648183
MOLYBDENUM	202.030	Axial	1432.763	0.4799050	0.4817516	0.4798612	0.4781023
NICKEL	231.604	Axial	2417.022	0.9784757	0.9758640	0.9781471	0.9814161
POTASSIUM	766.490	Radial	16.92330	0.02791410	0.008135241	0.03555710	0.04004996
SELENIUM	196.090	Axial	107.5409	0.4729166	0.4698878	0.4761045	0.4727577
SILICON	251.611	Axial	2600.181	0.9395195	0.9376603	0.9405156	0.9403826
SILVER	328.068	Axial	8488.761	1.056054	1.055453	1.055314	1.057394
SODIUM	589.592	Radial	77.94077	0.05455849	0.05997945	0.04002903	0.06366698
STRONTIUM	421.552	Radial	763.7839	0.01679622	0.01669847	0.01683106	0.01685913
SULFUR	182.034	Axial	10.47926	0.04798259	0.05088041	0.04490982	0.04815754
THALLIUM	190.856	Axial	194.4974	0.4462058	0.4433219	0.4470226	0.4482729
TIN	189.989	Axial	494.1860	0.4347568	0.4337077	0.4369680	0.4335946
TITANIUM	334.941	Radial	1286.034	0.5156979	0.5168782	0.5161994	0.5140160
VANADIUM	292.402	Radial	357.1323	0.4702124	0.4727792	0.4659922	0.4718658
ZINC	206.200	Axial	6032.735	0.9052708	0.9032769	0.9071350	0.9054006

Sample ID: BLANK DF: 1x Batch: WG1024391 Units: mg/l

Analyzed: 09/26/17 01:26 Sequence: 276

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	24063.36	23998.19	24152.48	24039.41
YTTRIUM	360.073	Axial	167538.9	167628.8	167470.1	167517.7
YTTRIUM	360.073	Radial	12361.59	12308.72	12295.99	12480.07
INDIUM	230.606	Axial	7468.325	7442.419	7491.916	7470.640

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-1.09342	-0.001197428	-0.004586081	0.0001492512	0.0008445459
BARIUM	233.527	Axial	6.488534	0.0003023448	0.0002824767	0.0002779496	0.0003466081
CADMIUM	228.802	Axial	1.917268	-0.0001287444	-0.0001530703	-0.0001718127	-0.00006135028
CHROMIUM	267.716	Axial	27.06863	0.000001296318	0.0005918259	-0.0005713887	-0.00001654829
COPPER	324.754	Axial	156.6232	0.001034200	0.0009079233	0.001353382	0.0008412946
LEAD	220.353	Axial	1.015392	0.001684008	0.002634243	0.0002967253	0.002121056
MOLYBDENUM	202.030	Axial	2.952826	-0.0001660756	-0.0002952776	-0.00005310966	-0.0001498394
NICKEL	231.604	Axial	0.3789597	0.0007287403	0.0009113581	-0.00001246317	0.001287326
SELENIUM	196.090	Axial	-1.27286	-0.001339025	-0.001835552	-0.004287233	0.002105709
SILVER	328.068	Axial	-8.56233	0.0002725355	0.0005680230	0.0001339972	0.0001155863
ZINC	206.200	Axial	13.39627	0.0007045312	0.0005144271	0.0007476355	0.0008515309
ALUMINUM	308.215	Radial	7.842349	-0.02381686	-0.03840543	-0.03161431	-0.001430828
ANTIMONY	206.833	Axial	1.931269	0.0008832579	0.001022594	-0.0007029689	0.002330148
BERYLLIUM	313.042	Radial	-5.79660	-0.0001202817	0.000007451680	-0.0002349074	-0.0001333894
BORON	249.678	Radial	1.893697	0.002974696	-0.00002809563	0.01048596	-0.001533777
CALCIUM	317.933	Radial	134.3767	0.01062788	0.009900894	0.009837273	0.01214548
Ce	535.353	Radial	-25.3249	0.02804931	0.03370981	-0.02869151	0.07912964
COBALT	228.616	Axial	-1.71664	0.00008197552	0.0003095076	-0.0001647449	0.0001011639
IRON	259.940	Radial	7.975269	0.004326063	0.004415648	0.005145531	0.003417010
LITHIUM	670.784	Radial	44.32638	0.0008859751	-0.0003374943	0.001781889	0.001213530
MAGNESIUM	279.079	Radial	1.410244	0.003124750	-0.005731855	0.01515521	-0.00004909884
MANGANESE	257.610	Axial	12.26654	0.0001170978	0.0001492215	0.0001130468	0.00008902510
POTASSIUM	766.490	Radial	43.38898	0.07578532	0.04902774	0.1238753	0.05445295
SILICON	251.611	Axial	96.52446	0.01669815	0.01600711	0.01569204	0.01839531
SODIUM	589.592	Radial	72.65802	0.04841541	0.04585159	0.04596983	0.05342482
STRONTIUM	421.552	Radial	21.86816	0.00009203932	0.0002476170	0.00008023237	-0.00005173139
SULFUR	182.034	Axial	13.65588	0.05386827	0.05717357	0.05380583	0.05062542
THALLIUM	190.856	Axial	-1.82815	0.0002172370	-0.00002685970	-0.0002598194	0.0009383902
TIN	189.989	Axial	2.579892	0.0006553235	0.001046556	0.0004757126	0.0004437017
TITANIUM	334.941	Radial	-0.08331313	-0.002149568	-0.002270318	-0.002174503	-0.002003884
VANADIUM	292.402	Radial	-3.24018	-0.002689954	-0.0008276172	-0.004559612	-0.002682634

Sample ID: LCS DF: 1x Batch: WG1024391 Units: mg/l

Analyzed: 09/26/17 01:28 Sequence: 277

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	23697.30	23737.33	23758.70	23595.88
YTTRIUM	360.073	Axial	163088.1	163535.2	163110.8	162618.5
YTTRIUM	360.073	Radial	12393.14	12398.03	12361.69	12419.69
INDIUM	230.606	Axial	7079.397	7092.262	7087.602	7058.327

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	303.6913	0.8709523	0.8671813	0.8718927	0.8737829
BARIUM	233.527	Axial	5939.135	0.9111217	0.9100091	0.9116591	0.9116970
CADMIUM	228.802	Axial	9839.131	0.8792097	0.8786447	0.8789134	0.8800710
CHROMIUM	267.716	Axial	5333.482	0.8718186	0.8739472	0.8704776	0.8710311
COPPER	324.754	Axial	11638.53	0.8850298	0.8851390	0.8826848	0.8872657
LEAD	220.353	Axial	1068.415	0.8717616	0.8692623	0.8707602	0.8752624
MOLYBDENUM	202.030	Axial	3107.274	0.9134467	0.9169127	0.9096646	0.9137628
NICKEL	231.604	Axial	2796.872	0.8859338	0.8834170	0.8857317	0.8886528
SELENIUM	196.090	Axial	227.9202	0.8757883	0.8782371	0.8773080	0.8718199
SILVER	328.068	Axial	1610.063	0.1733117	0.1734233	0.1723715	0.1741402
ZINC	206.200	Axial	6674.061	0.8780552	0.8776790	0.8769564	0.8795304
ALUMINUM	308.215	Radial	542.2194	8.954285	8.940311	8.954839	8.967705
ANTIMONY	206.833	Axial	566.8555	0.8813527	0.8790322	0.8814019	0.8836240
BERYLLIUM	313.042	Radial	18011.29	0.8990829	0.8958290	0.9007861	0.9006337
BORON	249.678	Radial	347.3317	0.8861712	0.8857220	0.8793241	0.8934676
CALCIUM	317.933	Radial	7568.908	8.695537	8.664406	8.709853	8.712351
Ce	535.353	Radial	-22.5785	0.03702366	-0.001997913	0.04322390	0.06984498
COBALT	228.616	Axial	5964.287	0.9074388	0.9072460	0.9084295	0.9066409
IRON	259.940	Radial	5630.753	8.871316	8.855613	8.883612	8.874722
LITHIUM	670.784	Radial	8635.498	0.8746955	0.8720923	0.8780395	0.8739546
MAGNESIUM	279.079	Radial	867.9993	9.122983	9.141348	9.116399	9.111201
MANGANESE	257.610	Axial	46262.37	0.8623471	0.8617646	0.8622556	0.8630211
POTASSIUM	766.490	Radial	4742.851	8.836918	8.808788	8.870804	8.831162
SILICON	251.611	Axial	2750.264	0.8538473	0.8522368	0.8526483	0.8566569
SODIUM	589.592	Radial	13670.90	8.822145	8.788808	8.839157	8.838470
STRONTIUM	421.552	Radial	41841.08	0.8896773	0.8860079	0.8907903	0.8922338
SULFUR	182.034	Axial	2169.475	8.524605	8.505292	8.519140	8.549384
THALLIUM	190.856	Axial	500.0444	0.8942082	0.8923790	0.8940321	0.8962135
TIN	189.989	Axial	1133.472	0.8756002	0.8773869	0.8718264	0.8775873
TITANIUM	334.941	Radial	2330.884	0.8859060	0.8794580	0.8905177	0.8877425
VANADIUM	292.402	Radial	712.2677	0.8861639	0.8788137	0.8913054	0.8883725

Sample ID: LCSD DF: 1x Batch: WG1024391 Units: mg/l

Analyzed: 09/26/17 01:30 Sequence: 278

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	23666.66	23702.52	23655.47	23642.00
YTTRIUM	360.073	Axial	163002.1	163308.7	163004.2	162693.4
YTTRIUM	360.073	Radial	12368.12	12385.46	12356.27	12362.64
INDIUM	230.606	Axial	7066.388	7085.338	7082.367	7031.457

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	302.9646	0.8699932	0.8657879	0.8719450	0.8722466
BARIUM	233.527	Axial	5949.148	0.9138411	0.9133634	0.9129520	0.9152079
CADMIUM	228.802	Axial	9845.412	0.8809084	0.8811465	0.8816292	0.8799494
CHROMIUM	267.716	Axial	5357.727	0.8762729	0.8717117	0.8786606	0.8784465
COPPER	324.754	Axial	11722.05	0.8919339	0.8905825	0.8908146	0.8944047
LEAD	220.353	Axial	1071.786	0.8761202	0.8734510	0.8755486	0.8793610
MOLYBDENUM	202.030	Axial	3086.625	0.9085443	0.9080707	0.9090049	0.9085574
NICKEL	231.604	Axial	2796.623	0.8874901	0.8870367	0.8838789	0.8915545
SELENIUM	196.090	Axial	227.9115	0.8768904	0.8809114	0.8711020	0.8786577
SILVER	328.068	Axial	1620.925	0.1745652	0.1736176	0.1743495	0.1757284
ZINC	206.200	Axial	6678.491	0.8797743	0.8794455	0.8818289	0.8780487
ALUMINUM	308.215	Radial	541.6564	8.963244	8.957262	8.969129	8.963340
ANTIMONY	206.833	Axial	565.1361	0.8798078	0.8811751	0.8789367	0.8793115
BERYLLIUM	313.042	Radial	17971.46	0.8989094	0.8961415	0.8936459	0.9069409
BORON	249.678	Radial	343.1653	0.8773070	0.8733847	0.8817583	0.8767779
CALCIUM	317.933	Radial	7588.622	8.736509	8.701754	8.708216	8.799558
Ce	535.353	Radial	-14.2867	0.06271291	0.04465263	0.04964968	0.09383641
COBALT	228.616	Axial	5969.631	0.9099351	0.9075105	0.9079276	0.9143672
IRON	259.940	Radial	5622.671	8.876493	8.866784	8.841962	8.920734
LITHIUM	670.784	Radial	8667.806	0.8797635	0.8747181	0.8770595	0.8875129
MAGNESIUM	279.079	Radial	867.8624	9.140053	9.080524	9.163123	9.176511
MANGANESE	257.610	Axial	46415.35	0.8656547	0.8655535	0.8658788	0.8655319
POTASSIUM	766.490	Radial	4744.190	8.857235	8.883894	8.769171	8.918641
SILICON	251.611	Axial	2765.707	0.8591681	0.8613288	0.8583717	0.8578037
SODIUM	589.592	Radial	13659.92	8.832884	8.815398	8.816494	8.866759
STRONTIUM	421.552	Radial	41900.04	0.8927365	0.8897969	0.8929324	0.8954803
SULFUR	182.034	Axial	2168.490	8.531702	8.541708	8.537051	8.516348
THALLIUM	190.856	Axial	501.9485	0.8992414	0.9017822	0.8976316	0.8983104
TIN	189.989	Axial	1125.507	0.8705616	0.8692354	0.8703195	0.8721299
TITANIUM	334.941	Radial	2317.331	0.8825294	0.8750861	0.8825286	0.8899735
VANADIUM	292.402	Radial	706.6930	0.8810095	0.8816565	0.8783337	0.8830382

Sample ID: L937868-02 DF: 1x Batch: WG1024391 Units: mg/l

Analyzed: 09/26/17 01:33 Sequence: 279

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	23256.25	23317.60	23252.89	23198.26
YTTRIUM	360.073	Axial	158279.1	158918.3	158401.8	157517.2
YTTRIUM	360.073	Radial	12406.85	12486.38	12356.19	12377.98
INDIUM	230.606	Axial	6798.675	6806.491	6800.162	6789.373

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	5.363421	0.01752618	0.01753239	0.01901375	0.01603241
BARIUM	233.527	Axial	67.49039	0.009879826	0.009439692	0.01006680	0.01013299
CADMIUM	228.802	Axial	4.199850	0.00008501134	0.00008141738	0.00003430880	0.0001393079
CHROMIUM	267.716	Axial	35.31985	0.001652531	0.001186954	0.001756119	0.002014521
COPPER	324.754	Axial	188.8870	0.004279066	0.004673054	0.003699376	0.004464767
LEAD	220.353	Axial	6.477490	0.006393910	0.006185228	0.008266710	0.004729792
MOLYBDENUM	202.030	Axial	51.62288	0.01445868	0.01456429	0.01470611	0.01410563
NICKEL	231.604	Axial	39.22374	0.01354287	0.01290159	0.01394354	0.01378349
SELENIUM	196.090	Axial	-0.7385260	0.0005775308	-0.003509568	0.005076494	0.0001656658
SILVER	328.068	Axial	-7.07875	0.0003831353	0.0005668474	0.0005142857	0.00006827266
ZINC	206.200	Axial	62.60778	0.007369928	0.007457532	0.007166785	0.007485465
ALUMINUM	308.215	Radial	141.2615	2.215170	2.152798	2.243177	2.249534
ANTIMONY	206.833	Axial	1.772566	0.0007300297	0.002237327	-0.0006387630	0.0005915249
BERYLLIUM	313.042	Radial	10.47873	0.0006911927	0.0009888987	0.0005688370	0.0005158423
BORON	249.678	Radial	56.47420	0.1423243	0.1462906	0.1437050	0.1369773
CALCIUM	317.933	Radial	6682.639	7.651626	7.622007	7.667485	7.665388
Ce	535.353	Radial	-21.1508	0.04146315	0.06357399	0.01272757	0.04808790
COBALT	228.616	Axial	11.06230	0.002080757	0.002145430	0.002215374	0.001881468
IRON	259.940	Radial	652.7224	1.019934	1.010682	1.022369	1.026752
LITHIUM	670.784	Radial	185.4086	0.01520908	0.01391965	0.01671633	0.01499126
MAGNESIUM	279.079	Radial	185.3205	1.936366	1.936256	1.930763	1.942080
MANGANESE	257.610	Axial	854.2379	0.01630354	0.01633163	0.01628727	0.01629171
POTASSIUM	766.490	Radial	8084.970	15.05126	14.98736	15.03810	15.12833
SILICON	251.611	Axial	41617.83	13.50178	13.40417	13.57186	13.52931
SODIUM	818.326	Radial	4201.213	96.07540	95.48784	96.49497	96.24339
STRONTIUM	421.552	Radial	773.9402	0.01606995	0.01618590	0.01615457	0.01586938
SULFUR	182.034	Axial	3759.977	15.05363	15.02173	15.01009	15.12906
THALLIUM	190.856	Axial	-1.67790	0.0001911768	0.0004761331	0.0007798352	-0.0006824378
TIN	189.989	Axial	2.586941	0.0007291387	0.0005388204	0.0004443344	0.001204261
TITANIUM	334.941	Radial	174.3759	0.06425619	0.06133317	0.07191516	0.05952025
VANADIUM	292.402	Radial	0.7225024	0.002238049	0.003524552	0.0007811200	0.002408474

Sample ID: SD DF: 5x Ref Sample ID: L937868-02 Batch: WG1024391 Units: mg/l

Analyzed: 09/26/17 01:36 Sequence: 280

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	23622.00	23609.13	23664.93	23591.95
YTTRIUM	360.073	Axial	163457.8	163730.6	163625.7	163017.2
YTTRIUM	360.073	Radial	12389.33	12475.87	12370.93	12321.19
INDIUM	230.606	Axial	7211.595	7185.225	7231.288	7218.271

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-0.6001486	0.0001671981	0.01039737	-0.01140770	0.003518305
BARIUM	233.527	Axial	17.03175	0.001944485	0.008629637	0.009772508	0.01076513
CADMIUM	228.802	Axial	5.357456	0.0001829510	0.002116953	0.0001364599	0.0004908515
CHROMIUM	267.716	Axial	24.75832	-0.0002689492	0.0005384618	-0.004209233	-0.0003634659
COPPER	324.754	Axial	155.4738	0.001239185	0.005975369	0.005090964	0.007521449
LEAD	220.353	Axial	2.973460	0.003275434	0.01552951	0.02040842	0.01319357
MOLYBDENUM	202.030	Axial	13.76666	0.003042684	0.01571225	0.01569522	0.01423279
NICKEL	231.604	Axial	7.540799	0.002957116	0.01413931	0.01458794	0.01562950
SELENIUM	196.090	Axial	-1.08180	-0.0007001550	0.01151043	-0.003282655	-0.01873009
SILVER	328.068	Axial	-9.18780	0.0001838881	-0.0007604447	0.001890772	0.001627995
ZINC	206.200	Axial	17.93566	0.001336777	0.006004023	0.007896565	0.006151061
ALUMINUM	308.215	Radial	34.69980	0.4273700	2.133293	2.176715	2.100543
ANTIMONY	206.833	Axial	2.434102	0.001724933	0.003423781	-0.003293035	0.02574325
BERYLLIUM	313.042	Radial	-5.44765	-0.0001022710	-0.0003244264	-0.0009490970	-0.0002605414
BORON	249.678	Radial	11.40622	0.02727592	0.1228519	0.1573138	0.1289730
CALCIUM	317.933	Radial	1401.429	1.490973	7.427826	7.474517	7.462255
Ce	535.353	Radial	-29.3262	0.01601278	0.1450849	0.01058411	0.08452277
COBALT	228.616	Axial	0.8285775	0.0004521740	0.001109446	0.003307521	0.002365642
IRON	259.940	Radial	132.4387	0.2006490	0.9766785	1.015611	1.017446
LITHIUM	670.784	Radial	53.89967	0.001851982	0.007771919	0.01047616	0.009531654
MAGNESIUM	279.079	Radial	37.86137	0.3868212	1.895013	1.973677	1.933628
MANGANESE	257.610	Axial	178.5029	0.003214760	0.01599555	0.01606301	0.01616284
POTASSIUM	766.490	Radial	1627.362	3.02948	15.07905	15.31514	15.04803
SILICON	251.611	Axial	8294.154	2.595116	12.93208	13.00658	12.98809
SODIUM	589.592	Radial	29179.80	18.83455	94.09394	94.32384	94.10052
STRONTIUM	421.552	Radial	158.1052	0.002989318	0.01479463	0.01531922	0.01472592
SULFUR	182.034	Axial	706.6578	2.78623	13.90454	13.92481	13.96409
THALLIUM	190.856	Axial	-2.14749	-0.0004519246	-0.003812696	-0.001336933	-0.001629239
TIN	189.989	Axial	2.078964	0.0003034688	0.004027982	-0.002479540	0.003003589
TITANIUM	334.941	Radial	32.22084	0.01015682	0.05723888	0.05078888	0.04432458
VANADIUM	292.402	Radial	-3.03393	-0.002422964	-0.01304052	-0.01290864	-0.01039530

Sample ID: MS DF: 1x Ref Sample ID: L937868-02 Batch: WG1024391 Units: mg/l

Analyzed: 09/26/17 01:38 Sequence: 281

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	23097.33	23122.46	23159.99	23009.54
YTTRIUM	360.073	Axial	156903.7	157168.9	156799.4	156742.8
YTTRIUM	360.073	Radial	12329.97	12335.45	12378.50	12275.98
INDIUM	230.606	Axial	6650.977	6653.638	6669.838	6629.454

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	304.8613	0.8969601	0.8934438	0.8980588	0.8993778
BARIUM	233.527	Axial	5760.954	0.9067419	0.9069247	0.9057170	0.9075840
CADMIUM	228.802	Axial	9623.981	0.8823259	0.8818352	0.8810087	0.8841338
CHROMIUM	267.716	Axial	5144.165	0.8740290	0.8741300	0.8778323	0.8701247
COPPER	324.754	Axial	11301.42	0.8933673	0.8910088	0.8948847	0.8942082
LEAD	220.353	Axial	1016.903	0.8831581	0.8855434	0.8828638	0.8810673
MOLYBDENUM	202.030	Axial	3044.664	0.9182952	0.9186714	0.9176410	0.9185731
NICKEL	231.604	Axial	2713.058	0.9147184	0.9180442	0.9122912	0.9138199
SELENIUM	196.090	Axial	225.6670	0.8896052	0.8872114	0.8929296	0.8886746
SILVER	328.068	Axial	1571.654	0.1758273	0.1761710	0.1759323	0.1753785
ZINC	206.200	Axial	6568.986	0.8866899	0.8872475	0.8851007	0.8877215
ALUMINUM	308.215	Radial	672.9438	11.20856	11.15046	11.24903	11.22618
ANTIMONY	206.833	Axial	558.4635	0.8908822	0.8904449	0.8890545	0.8931473
BERYLLIUM	313.042	Radial	18069.66	0.9066212	0.9035859	0.9062576	0.9100200
BORON	249.678	Radial	397.2577	1.019019	1.013702	1.029907	1.013446
CALCIUM	317.933	Radial	13784.59	16.03958	15.99628	16.00844	16.11401
Ce	535.353	Radial	-8.79863	0.07967037	0.05650590	0.1044327	0.07807257
COBALT	228.616	Axial	5720.297	0.9263739	0.9269628	0.9251448	0.9270143
IRON	259.940	Radial	6207.284	9.830734	9.790943	9.815686	9.885573
LITHIUM	670.784	Radial	8630.277	0.8786629	0.8761051	0.8781545	0.8817292
MAGNESIUM	279.079	Radial	1033.772	10.92329	10.94469	10.91473	10.91043
MANGANESE	257.610	Axial	44981.62	0.8715227	0.8708839	0.8732044	0.8704800
POTASSIUM	766.490	Radial	12544.77	23.50236	23.38018	23.49804	23.62886
SILICON	251.611	Axial	43966.53	14.38953	14.31726	14.42271	14.42863
SODIUM	818.326	Radial	4439.664	102.0723	101.4958	102.0706	102.6504
STRONTIUM	421.552	Radial	42191.29	0.9017297	0.8977036	0.9023540	0.9051317
SULFUR	182.034	Axial	5816.406	23.44646	23.42020	23.42150	23.49767
THALLIUM	190.856	Axial	465.3700	0.8858411	0.8874432	0.8820705	0.8880096
TIN	189.989	Axial	1087.772	0.8621065	0.8613255	0.8594262	0.8655679
TITANIUM	334.941	Radial	2494.708	0.9532204	0.9461709	0.9445145	0.9689759
VANADIUM	292.402	Radial	710.2263	0.8881614	0.8908305	0.8802061	0.8934476

Sample ID: MSD DF: 1x Ref Sample ID: L937868-02 Batch: WG1024391 Units: mg/l

Analyzed: 09/26/17 01:40 Sequence: 282

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	23054.30	23121.82	23040.34	23000.73
YTTRIUM	360.073	Axial	157188.5	157175.4	157415.6	156974.5
YTTRIUM	360.073	Radial	12345.19	12358.53	12371.98	12305.05
INDIUM	230.606	Axial	6648.238	6671.319	6646.267	6627.127

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	304.6025	0.8978668	0.8971551	0.8989830	0.8974622
BARIUM	233.527	Axial	5745.702	0.9060314	0.9027095	0.9083400	0.9070448
CADMIUM	228.802	Axial	9609.283	0.8826227	0.8803890	0.8835277	0.8839515
CHROMIUM	267.716	Axial	5114.613	0.8674034	0.8710436	0.8635322	0.8676345
COPPER	324.754	Axial	11326.25	0.8937110	0.8954076	0.8919341	0.8937913
LEAD	220.353	Axial	1014.446	0.8813908	0.8811259	0.8823870	0.8806595
MOLYBDENUM	202.030	Axial	3037.852	0.9179526	0.9164030	0.9173814	0.9200733
NICKEL	231.604	Axial	2709.115	0.9137661	0.9134452	0.9135823	0.9142706
SELENIUM	196.090	Axial	225.4580	0.8904395	0.8904607	0.8920633	0.8887945
SILVER	328.068	Axial	1566.555	0.1749467	0.1752950	0.1735133	0.1760319
ZINC	206.200	Axial	6558.929	0.8869844	0.8857050	0.8882288	0.8870192
ALUMINUM	308.215	Radial	676.1536	11.24879	11.26096	11.19700	11.28841
ANTIMONY	206.833	Axial	554.5121	0.8862130	0.8877995	0.8837903	0.8870493
BERYLLIUM	313.042	Radial	17980.14	0.9010150	0.8988814	0.9015842	0.9025794
BORON	249.678	Radial	396.7232	1.016404	1.028798	1.010134	1.010279
CALCIUM	317.933	Radial	13751.62	15.98086	15.97439	15.95251	16.01568
Ce	535.353	Radial	-19.1051	0.04763546	0.02924569	0.04045517	0.07320551
COBALT	228.616	Axial	5718.029	0.9263913	0.9239642	0.9270181	0.9281915
IRON	259.940	Radial	6222.012	9.841857	9.830361	9.830704	9.864506
LITHIUM	670.784	Radial	8617.310	0.8762487	0.8721868	0.8780589	0.8785004
MAGNESIUM	279.079	Radial	1028.029	10.84926	10.85122	10.78393	10.91263
MANGANESE	257.610	Axial	44928.51	0.8689169	0.8701412	0.8672069	0.8694025
POTASSIUM	766.490	Radial	12561.53	23.50465	23.44814	23.49719	23.56861
SILICON	251.611	Axial	44787.89	14.63201	14.63675	14.56107	14.69821
SODIUM	818.326	Radial	4449.092	102.1608	101.9209	102.3327	102.2289
STRONTIUM	421.552	Radial	42096.81	0.8985983	0.8947330	0.9002755	0.9007864
SULFUR	182.034	Axial	5807.766	23.45522	23.46490	23.44864	23.45212
THALLIUM	190.856	Axial	465.5897	0.8866151	0.8881205	0.8839219	0.8878028
TIN	189.989	Axial	1088.112	0.8639819	0.8635053	0.8647483	0.8636921
TITANIUM	334.941	Radial	2483.508	0.9477375	0.9406266	0.9461245	0.9564615
VANADIUM	292.402	Radial	710.8182	0.8877855	0.8878390	0.8896538	0.8858636

Sample ID: L937868-01 DF: 1x Batch: WG1024391 Units: mg/l

Analyzed: 09/26/17 01:43 Sequence: 283

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	22467.74	22520.20	22405.29	22477.73
YTTRIUM	360.073	Axial	153897.7	153739.2	154007.3	153946.5
YTTRIUM	360.073	Radial	12078.28	12115.53	11986.83	12132.48
INDIUM	230.606	Axial	6527.594	6546.329	6506.406	6530.047

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-1.99356	-0.004126502	-0.006849961	-0.003333187	-0.002196356
BARIUM	233.527	Axial	304.6624	0.04865373	0.04895580	0.04860207	0.04840333
CADMIUM	228.802	Axial	6.404362	0.0003062751	0.0004461853	0.0004275058	0.00004513411
CHROMIUM	267.716	Axial	28.53416	0.0006401774	0.0004681690	0.0008207462	0.0006316170
LEAD	220.353	Axial	4.479783	0.004859872	0.004093897	0.006651311	0.003834408
SELENIUM	196.090	Axial	-1.02877	-0.0007003791	-0.00009529328	-0.001896733	-0.0001091111
SILVER	328.068	Axial	-8.50285	0.0001999921	-0.0004608977	0.0007567379	0.0003041360
ALUMINUM	308.215	Radial	33.76481	0.4264307	0.4533666	0.4613492	0.3645762
ANTIMONY	206.833	Axial	1.865063	0.0009805057	0.001213696	-0.0006156943	0.002343516
BERYLLIUM	313.042	Radial	4.866636	0.0004195636	0.0005393797	0.0005580655	0.0001612456
BORON	249.678	Radial	112.0085	0.2919918	0.2839734	0.3021094	0.2898927
CALCIUM	373.690	Radial	63316.15	145.2146	145.0669	145.3120	145.2647
Ce	535.353	Radial	-41.2526	-0.02444807	-0.05793935	-0.05453098	0.03912610
COBALT	228.616	Axial	3.657640	0.0009326663	0.0006217695	0.001054661	0.001121568
COPPER	324.754	Axial	160.7280	0.002408722	0.001880166	0.002688674	0.002657326
IRON	259.940	Radial	172.8605	0.2714187	0.2677311	0.2724049	0.2741202
LITHIUM	670.784	Radial	276.0861	0.02518131	0.02424877	0.02557033	0.02572485
MAGNESIUM	279.079	Radial	3703.547	39.97996	40.04146	39.94397	39.95444
MANGANESE	257.610	Axial	13524.28	0.2670789	0.2668160	0.2675036	0.2669171
MOLYBDENUM	202.030	Axial	4.026713	0.0002283831	0.0001950146	0.0002942615	0.0001958733
NICKEL	231.604	Axial	18.93118	0.007112246	0.007709693	0.006820333	0.006806713
POTASSIUM	766.490	Radial	1403.837	2.680144	2.668896	2.708725	2.662812
SILICON	251.611	Axial	20482.99	6.827888	6.830310	6.813543	6.839812
SODIUM	818.326	Radial	2016.851	48.08156	48.11616	48.40770	47.72081
STRONTIUM	421.552	Radial	12146.29	0.2647415	0.2641953	0.2654403	0.2645889
SULFUR	182.034	Axial	11985.60	49.66762	49.67429	49.73203	49.59653
THALLIUM	190.856	Axial	-0.9515218	0.001465334	0.001362967	0.0008363825	0.002196652
TIN	189.989	Axial	2.114052	0.0004137251	0.0004017640	-0.0001202756	0.0009596868
TITANIUM	334.941	Radial	80.58660	0.02939233	0.02762757	0.03138947	0.02915996
VANADIUM	292.402	Radial	-1.68828	-0.0008088033	0.003745475	-0.002079695	-0.004092191
ZINC	206.200	Axial	51.29195	0.006092779	0.006050951	0.006077709	0.006149677

Sample ID: L937868-03 DF: 1x Batch: WG1024391 Units: mg/l

Analyzed: 09/26/17 01:46 Sequence: 284

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	22405.67	22377.38	22408.15	22431.47
YTTRIUM	360.073	Axial	154154.7	153999.2	154872.0	153592.9
YTTRIUM	360.073	Radial	12137.60	12125.70	12124.27	12162.82
INDIUM	230.606	Axial	6517.708	6509.448	6514.584	6529.093

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-1.30324	-0.002055138	-0.001012883	-0.0008829455	-0.004269587
BARIUM	233.527	Axial	305.8367	0.04898116	0.04856139	0.04941817	0.04896390
CADMIUM	228.802	Axial	5.495744	0.0002219480	0.00009128355	0.0003645817	0.0002099788
CHROMIUM	267.716	Axial	28.08467	0.0005543551	0.00007224045	0.0005346928	0.001056132
LEAD	220.353	Axial	2.357204	0.002983821	0.002726548	0.003254860	0.002970053
SELENIUM	196.090	Axial	-0.9043857	-0.0002071113	0.0005190668	-0.003115644	0.001975243
SILVER	328.068	Axial	-7.99279	0.0002589065	0.0004630105	0.0004680706	-0.0001543617
ALUMINUM	308.215	Radial	34.85331	0.4421342	0.4414653	0.4689001	0.4160373
ANTIMONY	206.833	Axial	1.707138	0.0007290020	-0.001970021	0.002522124	0.001634903
BERYLLIUM	313.042	Radial	-5.30856	-0.0001008666	-0.0001210175	-0.0001582662	-0.00002331593
BORON	249.678	Radial	121.8925	0.3163146	0.3119944	0.3124528	0.3244966
CALCIUM	373.690	Radial	64203.88	146.5316	146.3225	146.7857	146.4866
Ce	535.353	Radial	-51.3102	-0.05555474	-0.04521917	-0.05191558	-0.06952945
COBALT	228.616	Axial	6.690035	0.001434170	0.001619045	0.001252076	0.001431389
COPPER	324.754	Axial	159.5848	0.002293992	0.002407752	0.002281470	0.002192755
IRON	259.940	Radial	207.5346	0.3258851	0.3268785	0.3285376	0.3222393
LITHIUM	670.784	Radial	263.1807	0.02369991	0.02271092	0.02538763	0.02300118
MAGNESIUM	279.079	Radial	3730.424	40.07356	40.01870	40.23215	39.96984
MANGANESE	257.610	Axial	13820.32	0.2724742	0.2722716	0.2718495	0.2733015
MOLYBDENUM	202.030	Axial	2.462613	-0.0002551536	-0.0002394577	-0.0004620338	-0.00006396910
NICKEL	231.604	Axial	18.75427	0.007061990	0.006846669	0.007168171	0.007171131
POTASSIUM	766.490	Radial	1409.024	2.676787	2.659581	2.694894	2.675885
SILICON	251.611	Axial	20676.65	6.881038	6.862498	6.890627	6.889989
SODIUM	818.326	Radial	2056.721	48.77065	48.60439	49.02171	48.68584
STRONTIUM	421.552	Radial	12261.30	0.2659415	0.2653047	0.2666461	0.2658737
SULFUR	182.034	Axial	12008.08	49.89857	49.95493	49.83186	49.90893
THALLIUM	190.856	Axial	-1.57298	0.0002604097	-0.0004792386	0.001034631	0.0002258362
TIN	189.989	Axial	1.397881	-0.0001669671	-0.0002971709	0.00003599271	-0.0002397231
TITANIUM	334.941	Radial	85.52265	0.03115154	0.03411496	0.02851258	0.03082709
VANADIUM	292.402	Radial	-3.26803	-0.002796382	-0.003116696	0.00005804099	-0.005330492
ZINC	206.200	Axial	53.71302	0.006449869	0.006617951	0.006289167	0.006442490

Sample ID: L937868-04 DF: 1x Batch: WG1024391 Units: mg/l

Analyzed: 09/26/17 01:48 Sequence: 285

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	22227.63	22246.54	22180.26	22256.09
YTTRIUM	360.073	Axial	152066.1	151800.8	151915.4	152482.1
YTTRIUM	360.073	Radial	12088.76	12065.85	12134.35	12066.09
INDIUM	230.606	Axial	6405.415	6425.901	6384.400	6405.944

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-1.02811	-0.001250542	0.001254480	-0.003271778	-0.001734328
BARIUM	233.527	Axial	275.4126	0.04439945	0.04436656	0.04441661	0.04441517
CADMIUM	228.802	Axial	14.56541	0.001090477	0.001250801	0.001055347	0.0009652816
CHROMIUM	267.716	Axial	36.46182	0.002096454	0.002182758	0.001712426	0.002394178
LEAD	220.353	Axial	4.128528	0.004617446	0.004665164	0.005793094	0.003394080
SELENIUM	196.090	Axial	0.8590708	0.006959004	0.004979558	0.006581917	0.009315536
SILVER	328.068	Axial	-5.66039	0.0005161809	0.0006585498	0.001536595	-0.0006466022
ALUMINUM	308.215	Radial	49.57200	0.6980539	0.7585652	0.6933420	0.6422545
ANTIMONY	206.833	Axial	2.974602	0.002861250	0.0001959549	0.005167455	0.003220341
BERYLLIUM	313.042	Radial	9.624775	0.0006619150	0.0006583816	0.0008049865	0.0005223770
BORON	249.678	Radial	72.20515	0.1873713	0.1864313	0.1841458	0.1915368
CALCIUM	373.690	Radial	70223.69	160.9278	160.8389	160.8019	161.1426
Ce	535.353	Radial	-41.5812	-0.02533925	-0.06254018	0.02503830	-0.03851587
COBALT	228.616	Axial	4.287041	0.001049188	0.001164746	0.0008189630	0.001163856
COPPER	324.754	Axial	164.9216	0.002912774	0.003091776	0.002499924	0.003146621
IRON	259.940	Radial	985.0948	1.584312	1.583435	1.579227	1.590275
LITHIUM	670.784	Radial	363.9264	0.03431721	0.03620960	0.03286851	0.03387353
MAGNESIUM	279.079	Radial	4535.026	48.91642	49.03434	48.77147	48.94344
MANGANESE	257.610	Axial	2194.591	0.04377302	0.04382913	0.04384324	0.04364668
MOLYBDENUM	202.030	Axial	4.584944	0.0004172501	0.0002919237	0.0007036357	0.0002561908
NICKEL	231.604	Axial	8.683543	0.003654251	0.002536259	0.004640983	0.003785511
POTASSIUM	766.490	Radial	2350.302	4.486727	4.500165	4.456814	4.503201
SILICON	251.611	Axial	24426.27	8.243031	8.221040	8.218089	8.289963
SODIUM	818.326	Radial	3264.957	76.90784	76.52172	77.46065	76.74115
STRONTIUM	421.552	Radial	15259.03	0.3323904	0.3315691	0.3327893	0.3328127
SULFUR	182.034	Axial	12787.88	53.56449	53.63490	53.52489	53.53367
THALLIUM	190.856	Axial	-0.5046348	0.002314074	0.0003208109	0.003292270	0.003329141
TIN	189.989	Axial	2.733439	0.0009439634	0.0001434273	0.001193127	0.001495336
TITANIUM	334.941	Radial	122.3080	0.04565282	0.04695313	0.04577427	0.04423106
VANADIUM	292.402	Radial	-1.05041	0.00001019643	0.002820900	-0.0009434429	-0.001846867
ZINC	206.200	Axial	47.76988	0.005674912	0.005766269	0.005449643	0.005808822

Sample ID: CCV Units: mg/l

Analyzed: 09/26/17 01:50 Sequence: 286 Standard ID: 17D27304

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	22830.13	22822.63	22834.37	22833.39
YTTRIUM	360.073	Axial	156015.3	155860.7	155954.5	156230.8
YTTRIUM	360.073	Radial	12154.48	12190.32	12061.54	12211.59
INDIUM	230.606	Axial	6660.762	6649.530	6666.155	6666.600

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	581.9962	9.814713	9.718383	9.855037	9.870719
ANTIMONY	206.833	Axial	306.3791	0.4935383	0.4935778	0.4961869	0.4908501
ARSENIC	189.042	Axial	331.9768	0.9879744	0.9837959	0.9876212	0.9925060
BARIUM	233.527	Axial	3152.534	0.5016944	0.5006897	0.5029194	0.5014742
BERYLLIUM	313.042	Radial	3855.490	0.1963698	0.1953907	0.1967582	0.1969606
BORON	249.678	Radial	376.1241	0.9786723	0.9858164	0.9747925	0.9754079
CADMIUM	228.802	Axial	5322.172	0.4935139	0.4929006	0.4940449	0.4935961
CALCIUM	373.690	Radial	22407.11	51.00406	50.95963	51.05659	50.99596
CHROMIUM	267.716	Axial	5636.131	0.9635137	0.9645237	0.9655383	0.9604790
COBALT	228.616	Axial	6248.435	1.010385	1.009960	1.010127	1.011067
COPPER	324.754	Axial	12208.19	0.9714645	0.9747102	0.9677061	0.9719771
IRON	259.940	Radial	5975.037	9.599203	9.597553	9.588826	9.611229
LEAD	220.353	Axial	554.6812	0.4814299	0.4805745	0.4831252	0.4805901
LITHIUM	670.784	Radial	9224.071	0.9529831	0.9519726	0.9544822	0.9524944
MAGNESIUM	279.079	Radial	924.1238	9.904616	9.892426	9.912489	9.908934
MANGANESE	257.610	Axial	49199.63	0.9586852	0.9588378	0.9587691	0.9584489
MOLYBDENUM	202.030	Axial	836.0323	0.2543672	0.2547224	0.2543465	0.2540328
NICKEL	231.604	Axial	2915.151	0.9813653	0.9815296	0.9804486	0.9821178
POTASSIUM	766.490	Radial	25244.25	47.98280	47.94909	48.01892	47.98040
SELENIUM	196.090	Axial	242.7422	0.9678153	0.9633134	0.9711826	0.9689500
SILICON	251.611	Axial	5975.906	1.955795	1.954549	1.954106	1.958729
SILVER	328.068	Axial	4310.703	0.4829561	0.4829698	0.4823602	0.4835384
SODIUM	818.326	Radial	2038.695	48.29031	48.78170	48.28586	47.80336
STRONTIUM	421.552	Radial	45466.19	0.9857767	0.9861508	0.9843469	0.9868324
SULFUR	182.034	Axial	1155.325	4.712528	4.705936	4.717847	4.713800
THALLIUM	190.856	Axial	496.8079	0.9440679	0.9410570	0.9468183	0.9443285
TIN	189.989	Axial	594.0452	0.4757265	0.4756193	0.4768102	0.4747498
TITANIUM	334.941	Radial	2573.832	0.9977026	0.9950213	0.9951310	1.002955
VANADIUM	292.402	Radial	785.7329	0.9965739	0.9960035	0.9933589	1.000359
ZINC	206.200	Axial	7133.863	0.9743067	0.9727160	0.9750689	0.9751352
Ce	535.353	Radial	-23.4745	0.03287781	0.02018472	0.04833899	0.03010972

Sample ID: CCB Units: mg/l

Analyzed: 09/26/17 01:53 Sequence: 287

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	23761.36	23778.61	23780.65	23724.80
YTTRIUM	360.073	Axial	165606.8	165323.8	165687.7	165808.9
YTTRIUM	360.073	Radial	12210.24	12191.91	12173.40	12265.41
INDIUM	230.606	Axial	7436.691	7430.255	7453.196	7426.621

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	8.755550	-0.006599090	-0.01120658	-0.04223209	0.03364140
ANTIMONY	206.833	Axial	3.269404	0.002998905	0.002753267	0.002333331	0.003910116
ARSENIC	189.042	Axial	-1.32880	-0.001904168	-0.001303649	-0.002633269	-0.001775586
BARIUM	233.527	Axial	4.405334	-0.000004003410	-0.0001821719	-0.00004839492	0.0002185566
BERYLLIUM	313.042	Radial	-2.73691	0.00003124884	-0.000007261839	0.0001240421	-0.00002303377
BORON	249.678	Radial	1.115401	0.0009751127	0.0002883524	-0.005056677	0.007693662
CADMIUM	228.802	Axial	3.553357	0.00001913252	0.0002739275	-0.0001396615	-0.00007686839
CALCIUM	317.933	Radial	142.0615	0.02170363	0.02554273	0.02081137	0.01875681
Ce	535.353	Radial	-28.9914	0.01559195	-0.02014432	-0.02564680	0.09256697
CHROMIUM	267.716	Axial	22.63425	-0.0006646893	0.00003423150	-0.0005902158	-0.001438084
COBALT	228.616	Axial	0.2580789	0.0003661505	0.0002104767	0.0005201171	0.0003678576
COPPER	324.754	Axial	149.0153	0.0005940847	0.0001710733	0.0009022081	0.0007089729
IRON	259.940	Radial	4.362839	-0.001302119	0.0009644542	-0.002287794	-0.002583018
LEAD	220.353	Axial	-0.004137364	0.0008937787	0.0006720760	0.0008950212	0.001114239
LITHIUM	670.784	Radial	33.98279	-0.0001219975	0.001111388	-0.00006846369	-0.001408917
MAGNESIUM	279.079	Radial	0.1357276	-0.01028660	-0.01670508	0.009503602	-0.02365833
MANGANESE	257.610	Axial	15.10317	0.0001718258	0.0002248684	0.0001465619	0.0001440473
MOLYBDENUM	202.030	Axial	1.710236	-0.0005198910	-0.0005786777	-0.0001612210	-0.0008197744
NICKEL	231.604	Axial	-0.6740742	0.0004108743	0.0003129593	0.0005127514	0.0004069122
POTASSIUM	766.490	Radial	40.94513	0.07212752	0.1083033	0.07366449	0.03441478
SELENIUM	196.090	Axial	-1.67001	-0.002920115	-0.002195120	-0.003814968	-0.002750258
SILICON	251.611	Axial	44.84446	0.001003382	0.00003998730	0.001868348	0.001101809
SILVER	328.068	Axial	-1.78151	0.0009760422	0.0008795635	0.0007484834	0.001300080
SODIUM	589.592	Radial	40.23978	0.02782120	0.02532958	0.04148716	0.01664687
STRONTIUM	421.552	Radial	38.09716	0.0004476039	0.0005482520	0.0003855241	0.0004090355
SULFUR	182.034	Axial	1.543828	0.007080061	0.004598120	0.009095417	0.007546645
THALLIUM	190.856	Axial	-2.16052	-0.0003590391	0.001162568	-0.001174377	-0.001065308
TIN	189.989	Axial	1.916960	0.0001677045	-0.0004951868	0.001577455	-0.0005791547
TITANIUM	334.941	Radial	2.859726	-0.001012259	-0.001151984	-0.001303217	-0.0005815760
VANADIUM	292.402	Radial	-3.55376	-0.003135356	0.00006850732	-0.005964167	-0.003510408
ZINC	206.200	Axial	5.871399	-0.0002616171	-0.0003579533	-0.0002562469	-0.0001706512

Sample ID: L937868-05 DF: 1x Batch: WG1024391 Units: mg/l

Analyzed: 09/26/17 02:05 Sequence: 288

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	21991.48	22049.68	21968.75	21956.02
YTTRIUM	360.073	Axial	149551.6	149420.6	149262.4	149971.8
YTTRIUM	360.073	Radial	11950.31	12012.80	11982.95	11855.19
INDIUM	230.606	Axial	6219.855	6237.050	6213.805	6208.709

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ARSENIC	189.042	Axial	-0.4941164	0.0003626132	0.001593592	0.0003720536	-0.0008778061
BARIUM	233.527	Axial	561.0235	0.09213306	0.09185052	0.09270775	0.09184092
CADMIUM	228.802	Axial	6.040654	0.0002842140	0.0003250453	0.0003055904	0.0002220064
CHROMIUM	267.716	Axial	27.16448	0.0005395662	0.0004903294	0.0007684190	0.0003599501
LEAD	220.353	Axial	1.380450	0.002176299	0.002841352	0.003413055	0.0002744894
SELENIUM	196.090	Axial	-0.8742209	-0.0001514259	0.0001326315	-0.001219460	0.0006325512
SILVER	328.068	Axial	-2.29764	0.0008957076	0.001000591	0.0007083457	0.0009781865
ALUMINUM	308.215	Radial	29.26561	0.3541934	0.3731098	0.3092623	0.3802081
ANTIMONY	206.833	Axial	0.8435488	-0.0006689020	0.001141846	-0.002752945	-0.0003956071
BERYLLIUM	313.042	Radial	-3.56594	-0.00001416043	-0.0002184646	0.00004972694	0.0001262564
BORON	249.678	Radial	145.6272	0.3842610	0.3827591	0.3818726	0.3881513
CALCIUM	373.690	Radial	59256.01	137.3546	137.0092	137.1579	137.8966
Ce	535.353	Radial	-36.1283	-0.008988524	-0.07010185	0.003723091	0.03941319
COBALT	228.616	Axial	2.786159	0.0008106711	0.001250519	0.0004852578	0.0006962369
COPPER	324.754	Axial	144.1335	0.001397401	0.001525416	0.001431532	0.001235254
IRON	259.940	Radial	362.5866	0.5847183	0.5755752	0.5889088	0.5896709
LITHIUM	670.784	Radial	542.0571	0.05354087	0.05516884	0.05221799	0.05323579
MAGNESIUM	279.079	Radial	5384.643	58.75699	58.53105	58.65367	59.08624
MANGANESE	257.610	Axial	4721.020	0.09587242	0.09569631	0.09563327	0.09628767
MOLYBDENUM	202.030	Axial	1.007474	-0.0007016882	-0.001049266	-0.0003874219	-0.0006683771
NICKEL	231.604	Axial	8.031056	0.003507043	0.003965596	0.002761949	0.003793582
POTASSIUM	766.490	Radial	8793.994	16.99753	16.93731	16.96017	17.09512
SILICON	251.611	Axial	13182.52	4.517632	4.504952	4.511223	4.536721
SODIUM	818.326	Radial	8362.826	197.0691	196.0670	197.2778	197.8625
STRONTIUM	421.552	Radial	55932.64	1.233545	1.230333	1.232229	1.238072
SULFUR	182.034	Axial	15657.05	66.28678	66.13657	66.32800	66.39578
THALLIUM	190.856	Axial	-2.65571	-0.002081476	-0.001586925	-0.002400423	-0.002257081
TIN	189.989	Axial	1.649900	0.00006451009	0.0001627511	0.0003598919	-0.0003291128
TITANIUM	334.941	Radial	76.89370	0.02825877	0.02766657	0.03029269	0.02681706
VANADIUM	292.402	Radial	-0.3472526	0.0008937003	0.0003947600	0.002927114	-0.0006407734
ZINC	206.200	Axial	32.68165	0.003605820	0.003527752	0.003354163	0.003935543

Sample ID: CCV Units: mg/l

Analyzed: 09/26/17 02:15 Sequence: 292 Standard ID: 17D27304

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	22823.90	22871.12	22766.59	22833.99
YTTRIUM	360.073	Axial	155791.0	155724.5	155854.1	155794.5
YTTRIUM	360.073	Radial	12102.10	12134.15	12082.58	12089.58
INDIUM	230.606	Axial	6647.339	6659.696	6636.769	6645.553

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	577.0644	9.772985	9.707491	9.784649	9.826815
ANTIMONY	206.833	Axial	303.7270	0.4893818	0.4896085	0.4891759	0.4893609
ARSENIC	189.042	Axial	330.8896	0.9850161	0.9840108	0.9865919	0.9844454
BARIUM	233.527	Axial	3146.219	0.5008260	0.5001904	0.5015251	0.5007626
BERYLLIUM	313.042	Radial	3841.315	0.1964931	0.1968895	0.1968936	0.1956963
BORON	249.678	Radial	376.7851	0.9846654	0.9790754	0.9818776	0.9930431
CADMIUM	228.802	Axial	5326.332	0.4940345	0.4947113	0.4940633	0.4933289
CALCIUM	373.690	Radial	22284.33	50.94376	50.98807	50.89231	50.95088
CHROMIUM	267.716	Axial	5626.101	0.9631807	0.9658761	0.9642434	0.9594227
COBALT	228.616	Axial	6262.137	1.014644	1.014520	1.014550	1.014862
COPPER	324.754	Axial	12151.66	0.9683243	0.9685177	0.9678745	0.9685806
IRON	259.940	Radial	5967.069	9.627976	9.615386	9.614956	9.653586
LEAD	220.353	Axial	553.6736	0.4815269	0.4817426	0.4832329	0.4796051
LITHIUM	670.784	Radial	9201.105	0.9547251	0.9550293	0.9526697	0.9564763
MAGNESIUM	279.079	Radial	918.1461	9.883107	9.866270	9.867776	9.915275
MANGANESE	257.610	Axial	48798.50	0.9522377	0.9539064	0.9509212	0.9518854
MOLYBDENUM	202.030	Axial	835.7046	0.2543354	0.2552792	0.2534978	0.2542293
NICKEL	231.604	Axial	2905.668	0.9801475	0.9817843	0.9798752	0.9787829
POTASSIUM	766.490	Radial	25085.63	47.88761	47.82615	47.87979	47.95690
SELENIUM	196.090	Axial	243.1251	0.9695971	0.9766666	0.9698886	0.9622360
SILICON	251.611	Axial	5891.408	1.930755	1.934322	1.928329	1.929614
SILVER	328.068	Axial	4290.071	0.4813414	0.4836544	0.4805173	0.4798524
SODIUM	818.326	Radial	2023.557	48.14313	48.25617	48.10577	48.06745
STRONTIUM	421.552	Radial	45182.84	0.9838785	0.9835401	0.9828287	0.9852666
SULFUR	182.034	Axial	1155.663	4.715212	4.707006	4.729339	4.709292
THALLIUM	190.856	Axial	498.9975	0.9501254	0.9504509	0.9524709	0.9474546
TIN	189.989	Axial	594.8775	0.4765268	0.4769328	0.4783074	0.4743402
TITANIUM	334.941	Radial	2549.994	0.9927412	0.9934030	0.9922775	0.9925431
VANADIUM	292.402	Radial	775.7770	0.9882263	0.9921482	0.9943764	0.9781545
ZINC	206.200	Axial	7122.433	0.9730116	0.9718901	0.9739175	0.9732271
Ce	535.353	Radial	-11.7370	0.06985911	0.05428547	0.08306934	0.07222253

Sample ID: CCB Units: mg/l

Analyzed: 09/26/17 02:18 Sequence: 293

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	23793.04	23793.77	23790.81	23794.55
YTTRIUM	360.073	Axial	165673.2	165632.6	165830.7	165556.2
YTTRIUM	360.073	Radial	12211.23	12206.30	12224.66	12202.73
INDIUM	230.606	Axial	7413.225	7416.338	7410.025	7413.313

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	5.368088	-0.06426552	-0.06367806	-0.07978729	-0.04933120
ANTIMONY	206.833	Axial	3.459242	0.003285960	0.004792093	0.0003303353	0.004735452
ARSENIC	189.042	Axial	-1.48755	-0.002351739	-0.003246234	-0.003016655	-0.0007923274
BARIUM	233.527	Axial	5.776270	0.0002045484	0.0002602621	0.00009546253	0.0002579206
BERYLLIUM	313.042	Radial	-2.09380	0.00006373286	0.00004514109	-0.00002367632	0.0001697338
BORON	249.678	Radial	2.179505	0.003754337	0.007898022	0.0003802861	0.002984704
CADMIUM	228.802	Axial	5.236036	0.0001685926	0.0001968934	0.0002985990	0.00001028530
CALCIUM	317.933	Radial	130.2595	0.007691027	0.008451898	0.008418401	0.006202781
Ce	535.353	Radial	-31.7349	0.007143481	0.01259671	-0.02367462	0.03250836
CHROMIUM	267.716	Axial	26.31810	-0.00007117706	-0.000004053132	-0.00002638726	-0.0001830908
COBALT	228.616	Axial	0.3327632	0.0003772028	0.0006955790	0.0001882285	0.0002478009
COPPER	324.754	Axial	150.5836	0.0007087132	0.0006578487	0.0007288573	0.0007394334
IRON	259.940	Radial	4.175845	-0.001603284	0.001272749	-0.003329244	-0.002753357
LEAD	220.353	Axial	0.3557009	0.001174290	-0.0003489952	0.002899115	0.0009727517
LITHIUM	670.784	Radial	44.18261	0.0009281229	0.00007469538	0.0008554993	0.001854174
MAGNESIUM	279.079	Radial	0.6688222	-0.004631546	-0.0006785037	-0.002242293	-0.01097384
MANGANESE	257.610	Axial	18.99305	0.0002430659	0.0004009414	0.0001796595	0.0001485968
MOLYBDENUM	202.030	Axial	3.497491	0.000003567579	0.0001014897	0.0003746441	-0.0004654311
NICKEL	231.604	Axial	-1.06495	0.0002923499	-0.0006304311	0.0005839323	0.0009235484
POTASSIUM	766.490	Radial	38.72091	0.06781016	0.09874443	0.1064324	-0.001746305
SELENIUM	196.090	Axial	-2.16552	-0.004800733	-0.004887562	-0.005989443	-0.003525195
SILICON	251.611	Axial	45.67868	0.001258161	0.002277241	-0.0005069080	0.002004149
SILVER	328.068	Axial	-5.50588	0.0005840414	0.0007443437	0.0009593423	0.00004843809
SODIUM	589.592	Radial	51.17243	0.03495153	0.04024975	0.02943066	0.03517419
STRONTIUM	421.552	Radial	38.10162	0.0004476539	0.0005302991	0.0003229400	0.0004897227
SULFUR	182.034	Axial	1.430617	0.006628816	0.002886513	0.009374693	0.007625242
THALLIUM	190.856	Axial	-2.05807	-0.0001970801	0.00001441936	-0.0001867250	-0.0004189347
TIN	189.989	Axial	1.397403	-0.0002339827	-0.001004603	0.0002002014	0.0001024532
TITANIUM	334.941	Radial	6.629928	0.0004474657	0.002259238	-0.001577853	0.0006610117
VANADIUM	292.402	Radial	-1.19603	-0.0001617825	-0.004500055	0.0005298082	0.003484899
ZINC	206.200	Axial	7.828277	-0.000006001656	0.0001098923	-0.0001266749	-0.000001222331

Sample ID: CCVLL Units: mg/l

Analyzed: 09/26/17 03:48 Sequence: 328 Standard ID: 17G05089

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	23629.89	23696.58	23612.03	23581.05
YTTRIUM	360.073	Axial	164553.8	164454.5	165268.0	163938.7
YTTRIUM	360.073	Radial	12241.61	12278.05	12200.47	12246.31
INDIUM	230.606	Axial	7348.155	7350.876	7319.401	7374.189

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	21.83297	0.2155999	0.1815130	0.2262846	0.2390020
ANTIMONY	206.833	Axial	8.481611	0.01116821	0.01427620	0.009971175	0.009257263
ARSENIC	189.042	Axial	2.438296	0.008884876	0.009425508	0.008286140	0.008942980
BARIUM	233.527	Axial	37.95107	0.005164454	0.005041360	0.005376875	0.005075128
BERYLLIUM	313.042	Radial	36.38683	0.002008401	0.001914295	0.002091281	0.002019628
BORON	249.678	Radial	299.3094	0.7728631	0.7762680	0.7714501	0.7708711
CADMIUM	228.802	Axial	26.39656	0.002068977	0.001905128	0.002066019	0.002235784
CALCIUM	317.933	Radial	941.2996	0.9665239	0.9664427	0.9665297	0.9665991
CHROMIUM	267.716	Axial	87.31349	0.009889437	0.01002209	0.009481427	0.01016479
COBALT	228.616	Axial	66.29122	0.01004267	0.01011396	0.01010312	0.009910935
COPPER	324.754	Axial	286.1724	0.01112963	0.01112242	0.01074877	0.01151769
IRON	259.940	Radial	66.72893	0.09825051	0.09694058	0.1013860	0.09642489
LEAD	220.353	Axial	6.573716	0.006057689	0.006735154	0.005170063	0.006267851
LITHIUM	670.784	Radial	176.8636	0.01457735	0.01508824	0.01374846	0.01489535
MAGNESIUM	279.079	Radial	97.09123	1.022634	1.027470	1.008984	1.031447
MANGANESE	257.610	Axial	587.1792	0.01074369	0.01068422	0.01071659	0.01083027
MOLYBDENUM	202.030	Axial	19.95533	0.004868107	0.004801346	0.004786175	0.005016801
NICKEL	231.604	Axial	30.30981	0.009858999	0.009811655	0.01052798	0.009237363
POTASSIUM	766.490	Radial	1023.882	1.927037	1.944200	1.912626	1.924284
SELENIUM	196.090	Axial	0.7542384	0.006350765	0.004919507	0.008371584	0.005761203
SILICON	251.611	Axial	647.1747	0.1892290	0.1886001	0.1895916	0.1894954
SILVER	328.068	Axial	34.75953	0.004845483	0.005303637	0.005285064	0.003947747
SODIUM	589.592	Radial	1628.901	1.065448	1.062182	1.066886	1.067275
STRONTIUM	421.552	Radial	493.5736	0.01025444	0.01018412	0.01025851	0.01032069
SULFUR	182.034	Axial	236.0481	0.9310702	0.9312103	0.9349189	0.9270814
THALLIUM	190.856	Axial	3.930167	0.01005402	0.008222299	0.01219358	0.009746178
TIN	189.989	Axial	64.16994	0.04847643	0.04777155	0.04944990	0.04820784
TITANIUM	334.941	Radial	134.8328	0.04988515	0.05069152	0.04867425	0.05028969
VANADIUM	292.402	Radial	11.42325	0.01571159	0.01593107	0.01531011	0.01589359
ZINC	206.200	Axial	883.9881	0.1157401	0.1131847	0.1139974	0.1200382
Ce	535.353	Radial	-29.5600	0.01428594	-0.02712119	0.04374813	0.02623090

Sample ID: ICSA Units: mg/l

Analyzed: 09/26/17 03:51 Sequence: 329 Standard ID: 17H04290

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	20605.71	20592.62	20648.09	20576.41
YTTRIUM	360.073	Axial	139415.4	139624.3	139242.6	139379.4
YTTRIUM	360.073	Radial	11644.79	11615.66	11677.13	11641.56
INDIUM	230.606	Axial	5517.681	5516.207	5528.918	5507.917

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	27408.01	489.9334	488.9083	489.5872	491.3046
ANTIMONY	206.833	Axial	3.446170	0.004095427	0.006531615	0.001649173	0.004105494
ARSENIC	189.042	Axial	-2.25482	-0.005532841	-0.005846095	-0.005267371	-0.005485058
BARIUM	233.527	Axial	19.39144	0.002745085	0.002571701	0.002746925	0.002916628
BERYLLIUM	313.042	Radial	-3.30113	-0.000005898382	-0.00003534127	0.0002578033	-0.0002401571
BORON	249.678	Radial	165.1887	0.4475921	0.4432908	0.4600741	0.4394115
CADMIUM	228.802	Axial	3.970472	0.0001106792	0.0002193838	0.00001082133	0.0001018326
CALCIUM	373.690	Radial	206815.7	492.2210	491.5543	492.1831	492.9255
Ce	535.353	Radial	-46.4340	-0.04641184	-0.05914439	0.01903050	-0.09912162
CHROMIUM	267.716	Axial	32.98193	0.002011102	0.001591148	0.001605935	0.002836224
COBALT	228.616	Axial	-2.76524	-0.0002109142	-0.0008063590	0.0002232770	-0.00004966050
COPPER	324.754	Axial	68.08862	-0.004569145	-0.005266264	-0.004251973	-0.004189198
IRON	271.441	Radial	7084.909	196.5474	196.4202	196.5574	196.6645
LEAD	220.353	Axial	-27.5242	-0.02789107	-0.02740544	-0.02555090	-0.03071687
LITHIUM	670.784	Radial	110.0446	0.008281306	0.009296138	0.006987135	0.008560645
MAGNESIUM	279.079	Radial	44211.16	495.1638	494.7803	494.9047	495.8062
MANGANESE	257.610	Axial	180.1503	0.003823266	0.003800644	0.003857991	0.003811161
MOLYBDENUM	202.030	Axial	1.043074	-0.0006685617	0.0008028624	-0.001021618	-0.001786930
NICKEL	231.604	Axial	9.841285	0.004611527	0.004383165	0.004238938	0.005212477
POTASSIUM	766.490	Radial	876.1460	1.732946	1.727315	1.765210	1.706312
SELENIUM	196.090	Axial	-5.88164	-0.02243200	-0.02360549	-0.02445270	-0.01923782
SILICON	251.611	Axial	14.88014	-0.007425830	-0.009540689	-0.004450910	-0.008285892
SILVER	328.068	Axial	10.96718	0.002535727	0.002270843	0.002790133	0.002546204
SODIUM	589.592	Radial	177.9730	0.1236453	0.1213931	0.1270320	0.1225107
STRONTIUM	421.552	Radial	750.9066	0.01662501	0.01668895	0.01665325	0.01653283
SULFUR	182.034	Axial	15.81152	0.07247384	0.07517148	0.07026629	0.07198376
THALLIUM	190.856	Axial	-5.82806	-0.01001723	-0.01275727	-0.009451974	-0.007842439
TIN	189.989	Axial	2.293302	0.0007298758	0.0007477927	0.0005360381	0.0009057965
TITANIUM	334.941	Radial	92.32874	0.03531852	0.03573740	0.03596126	0.03425690
VANADIUM	292.402	Radial	0.5793055	0.002106417	-0.0003832400	0.005778549	0.0009239422
ZINC	206.200	Axial	587.9909	0.08803392	0.08450239	0.08997138	0.08962800

Sample ID: ICSAB Units: mg/l

Analyzed: 09/26/17 03:54 Sequence: 330 Standard ID: 17H03236

Internal Standards

Analyte	Wavelength	Mode	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
YTTRIUM	224.306	Axial	20648.90	20705.74	20578.19	20662.77
YTTRIUM	360.073	Axial	139319.4	139209.7	139391.8	139356.8
YTTRIUM	360.073	Radial	11772.33	11665.12	11857.20	11794.69
INDIUM	230.606	Axial	5527.002	5536.810	5516.575	5527.621

Target Analytes

Analyte	Wavelength	Mode	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
ALUMINUM	308.215	Radial	27578.04	487.6334	488.0710	487.3292	487.5000
ANTIMONY	206.833	Axial	279.9999	0.4987164	0.4886751	0.4967031	0.5107712
ARSENIC	189.042	Axial	149.9701	0.4944094	0.4883596	0.4926177	0.5022510
BARIUM	233.527	Axial	2759.373	0.4854961	0.4840518	0.4879440	0.4844924
BERYLLIUM	313.042	Radial	9132.155	0.4799710	0.4793309	0.4806002	0.4799821
BORON	249.678	Radial	495.1639	1.331036	1.350373	1.315200	1.327533
CADMIUM	228.802	Axial	9764.218	1.001371	0.9981862	1.004661	1.001267
CALCIUM	373.690	Radial	209165.2	492.4248	493.5123	491.7685	491.9937
Ce	535.353	Radial	-40.9133	-0.02651031	0.007306912	-0.01790880	-0.06892905
CHROMIUM	267.716	Axial	2436.393	0.4641898	0.4651299	0.4640521	0.4633873
COBALT	228.616	Axial	2566.396	0.5002870	0.4995923	0.5019835	0.4992852
COPPER	324.754	Axial	5721.304	0.5047468	0.5056234	0.5044364	0.5041807
IRON	271.441	Radial	7165.942	196.6430	196.8397	196.3064	196.7830
LEAD	220.353	Axial	880.6793	0.9203560	0.9216143	0.9212306	0.9182231
LITHIUM	670.784	Radial	105.5813	0.007663928	0.005832039	0.008579712	0.008580032
MAGNESIUM	279.079	Radial	44564.92	493.7271	495.8350	492.9631	492.3833
MANGANESE	257.610	Axial	21288.89	0.4644860	0.4662353	0.4626216	0.4646013
MOLYBDENUM	202.030	Axial	1427.055	0.4809633	0.4806343	0.4828538	0.4794017
NICKEL	231.604	Axial	2403.796	0.9752247	0.9734734	0.9789870	0.9732138
POTASSIUM	766.490	Radial	712.2043	1.392057	1.319421	1.427583	1.429167
SELENIUM	196.090	Axial	106.7502	0.4723553	0.4739157	0.4781940	0.4649562
SILICON	251.611	Axial	2587.013	0.9414901	0.9413207	0.9430518	0.9400979
SILVER	328.068	Axial	8414.812	1.054367	1.055087	1.058589	1.049424
SODIUM	589.592	Radial	149.2345	0.1027493	0.09365306	0.1158790	0.09871574
STRONTIUM	421.552	Radial	759.6835	0.01663689	0.01658990	0.01679990	0.01652088
SULFUR	182.034	Axial	15.64033	0.07154708	0.06873587	0.06748878	0.07841659
THALLIUM	190.856	Axial	194.8689	0.4480058	0.4493115	0.4466573	0.4480486
TIN	189.989	Axial	492.7695	0.4361983	0.4372121	0.4358987	0.4354841
TITANIUM	334.941	Radial	1294.535	0.5170732	0.5153166	0.5188228	0.5170802
VANADIUM	292.402	Radial	358.9535	0.4707590	0.4685019	0.4725010	0.4712740
ZINC	206.200	Axial	6423.163	0.9699043	0.9691622	0.9686542	0.9718964

3015A GW/SPLP ICP Metals Prep Benchsheet

Batch #: WG1024391

Prep Start Date/Time: 09/25/17 18:33-18:34 Analyst: LD704 Analyst Verified pH: 704 Leachate Fluid Type: N/A Vessel ESC Lot ID: ESC36193
Pipette ID: F13412591 Carousel ID: 2 Microwave ID: MD4692 Dig. Start Date/Time: 09/25/17 18:45:27 Prep End Date/Time: 09/25/17 18:41 SOP: 340704
Method: 3015

Nitric Acid: 17H31480 Amt. Used: 3 mL Exp. Date:02/28/18 Hydrochloric Acid: 17I08036 Amt. Used: 2 mL Exp. Date:03/08/18
High Spike: 17I21056 Amt. Used: 0.45 mL Exp. Date:03/21/18 High Spike 2: 17I21057 Amt. Used: 0.45 mL Exp. Date:03/21/18

Sample Number	Initial Sample Vol (mL)	Final Volume (mL)	Sample Description	Initial pH	Review Analyst	Review Date	Sample Comments
BLANK	45	50	Nanopure		LD704	09/25/17 18:41:48	
LCS	45	50	Nanopure		LD704	09/25/17 18:41:48	
LCSD	45	50	Nanopure		LD704	09/25/17 18:41:48	
MS(L937868-02)	45	50	Cloudy yellow tint	2	LD704	09/25/17 18:41:48	
MSD(L937868-02)	45	50	Cloudy yellow tint	2	LD704	09/25/17 18:41:48	
1. L937868-01	45	50	Clear	2	LD704	09/25/17 18:41:48	
2. L937868-02	45	50	Cloudy yellow tint	2	LD704	09/25/17 18:41:48	MS/MSD
3. L937868-03	45	50	Clear	2	LD704	09/25/17 18:41:48	
4. L937868-04	45	50	Clear	2	LD704	09/25/17 18:41:48	
5. L937868-05	45	50	Clear	2	LD704	09/25/17 18:41:48	
6. L938067-01	45	50	Cloudy white	2	LD704	09/25/17 18:41:48	pH adjusted in Lab at 1255 for metals 9/21
7. L938500-08	45	50	Gray	2	LD704	09/25/17 18:41:48	
8. L938606-14	45	50	Clear	2	LD704	09/25/17 18:41:48	

Comments:

Reviewed By:LD704 on 09/25/17 18:41:48



7470A Mercury

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

ESC Sample ID:	L937868-01	SDG:	L937868
Client Sample ID:	FIELD DUPLICATE	Collected Date/Time:	09/18/17 00:00
Lab File ID:	20170926202806	Received Date/Time:	09/20/17 08:45
Instrument ID:	CVAA5	Preparation Date/Time:	09/26/17 11:45
Analytical Batch:	WG1022948	Analysis Date/Time:	09/26/17 20:28
Dilution Factor:	1	Prep Method:	7470A
Analytical Method:	7470A	Sample Vol Used:	_____
Matrix:	GW	Initial Wt/Vol:	30 mL
Total Solids (%):	_____	Final Wt/Vol:	30.0 mL

Analyte	CAS	Result <i>ug/l</i>	Qualifier	SDL <i>ug/l</i>	Unadj. MQL <i>ug/l</i>	MQL <i>ug/l</i>
Mercury	7439-97-6	ND		0.0490	0.200	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

ESC Sample ID:	L937868-02	SDG:	L937868
Client Sample ID:	RMW-4	Collected Date/Time:	09/18/17 12:15
Lab File ID:	20170926202116	Received Date/Time:	09/20/17 08:45
Instrument ID:	CVAA5	Preparation Date/Time:	09/26/17 11:45
Analytical Batch:	WG1022948	Analysis Date/Time:	09/26/17 20:21
Dilution Factor:	1	Prep Method:	7470A
Analytical Method:	7470A	Sample Vol Used:	_____
Matrix:	GW	Initial Wt/Vol:	30 mL
Total Solids (%):	_____	Final Wt/Vol:	30.0 mL

Analyte	CAS	Result <i>ug/l</i>	Qualifier	SDL <i>ug/l</i>	Unadj. MQL <i>ug/l</i>	MQL <i>ug/l</i>
Mercury	7439-97-6	ND		0.0490	0.200	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

ESC Sample ID:	L937868-03	SDG:	L937868
Client Sample ID:	WELL-09	Collected Date/Time:	09/18/17 15:55
Lab File ID:	20170926203027	Received Date/Time:	09/20/17 08:45
Instrument ID:	CVAA5	Preparation Date/Time:	09/26/17 11:45
Analytical Batch:	WG1022948	Analysis Date/Time:	09/26/17 20:30
Dilution Factor:	1	Prep Method:	7470A
Analytical Method:	7470A	Sample Vol Used:	_____
Matrix:	GW	Initial Wt/Vol:	30 mL
Total Solids (%):	_____	Final Wt/Vol:	30.0 mL

Analyte	CAS	Result <i>ug/l</i>	Qualifier	SDL <i>ug/l</i>	Unadj. MQL <i>ug/l</i>	MQL <i>ug/l</i>
Mercury	7439-97-6	ND		0.0490	0.200	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

ESC Sample ID:	L937868-04	SDG:	L937868
Client Sample ID:	RMW-3	Collected Date/Time:	09/18/17 14:30
Lab File ID:	20170926203933	Received Date/Time:	09/20/17 08:45
Instrument ID:	CVAA5	Preparation Date/Time:	09/26/17 11:45
Analytical Batch:	WG1022948	Analysis Date/Time:	09/26/17 20:39
Dilution Factor:	1	Prep Method:	7470A
Analytical Method:	7470A	Sample Vol Used:	_____
Matrix:	GW	Initial Wt/Vol:	30 mL
Total Solids (%):	_____	Final Wt/Vol:	30.0 mL

Analyte	CAS	Result <i>ug/l</i>	Qualifier	SDL <i>ug/l</i>	Unadj. MQL <i>ug/l</i>	MQL <i>ug/l</i>
Mercury	7439-97-6	ND		0.0490	0.200	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

ESC Sample ID:	L937868-05	SDG:	L937868
Client Sample ID:	RMW-9	Collected Date/Time:	09/18/17 11:20
Lab File ID:	20170926204149	Received Date/Time:	09/20/17 08:45
Instrument ID:	CVAA5	Preparation Date/Time:	09/26/17 11:45
Analytical Batch:	WG1022948	Analysis Date/Time:	09/26/17 20:41
Dilution Factor:	1	Prep Method:	7470A
Analytical Method:	7470A	Sample Vol Used:	_____
Matrix:	GW	Initial Wt/Vol:	30 mL
Total Solids (%):	_____	Final Wt/Vol:	30.0 mL

Analyte	CAS	Result <i>ug/l</i>	Qualifier	SDL <i>ug/l</i>	Unadj. MQL <i>ug/l</i>	MQL <i>ug/l</i>
Mercury	7439-97-6	ND		0.0490	0.200	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

ESC Sample ID:	R3252549-1	SDG:	L937868
Client Sample ID:	BLANK	Collected Date/Time:	
Lab File ID:	20170926201427	Received Date/Time:	
Instrument ID:	CVAA5	Preparation Date/Time:	09/26/17 11:44
Analytical Batch:	WG1022948	Analysis Date/Time:	09/26/17 20:14
Dilution Factor:	1	Prep Method:	7470A
Analytical Method:	7470A	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	30 mL
Total Solids (%):		Final Wt/Vol:	30.0 mL

Analyte	CAS	Result <i>ug/l</i>	Qualifier	SDL <i>ug/l</i>	Unadj. MQL <i>ug/l</i>	MQL <i>ug/l</i>
Mercury	7439-97-6	U		0.0490	0.200	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

ESC Sample ID:	R3252549-2	SDG:	L937868
Client Sample ID:	LCS	Collected Date/Time:	
Lab File ID:	20170926201644	Received Date/Time:	
Instrument ID:	CVAA5	Preparation Date/Time:	09/26/17 11:44
Analytical Batch:	WG1022948	Analysis Date/Time:	09/26/17 20:16
Dilution Factor:	1	Prep Method:	7470A
Analytical Method:	7470A	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	30 mL
Total Solids (%):		Final Wt/Vol:	30.0 mL

Analyte	CAS	Result <i>ug/l</i>	Qualifier	SDL <i>ug/l</i>	Unadj. MQL <i>ug/l</i>	MQL <i>ug/l</i>
Mercury	7439-97-6	2.99		0.0490	0.200	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

ESC Sample ID:	R3252549-3	SDG:	L937868
Client Sample ID:	LCSD	Collected Date/Time:	
Lab File ID:	20170926201859	Received Date/Time:	
Instrument ID:	CVAA5	Preparation Date/Time:	09/26/17 11:44
Analytical Batch:	WG1022948	Analysis Date/Time:	09/26/17 20:18
Dilution Factor:	1	Prep Method:	7470A
Analytical Method:	7470A	Sample Vol Used:	
Matrix:	GW	Initial Wt/Vol:	30 mL
Total Solids (%):		Final Wt/Vol:	30.0 mL

Analyte	CAS	Result <i>ug/l</i>	Qualifier	SDL <i>ug/l</i>	Unadj. MQL <i>ug/l</i>	MQL <i>ug/l</i>
Mercury	7439-97-6	2.90		0.0490	0.200	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

ESC Sample ID:	R3252549-4	SDG:	L937868
Client Sample ID:	MS	Collected Date/Time:	09/18/17 12:15
Lab File ID:	20170926202334	Received Date/Time:	09/20/17 08:45
Instrument ID:	CVAA5	Preparation Date/Time:	09/26/17 11:45
Analytical Batch:	WG1022948	Analysis Date/Time:	09/26/17 20:23
Dilution Factor:	1	Prep Method:	7470A
Analytical Method:	7470A	Sample Vol Used:	_____
Matrix:	GW	Initial Wt/Vol:	30 mL
Total Solids (%):	_____	Final Wt/Vol:	30.0 mL

Analyte	CAS	Result <i>ug/l</i>	Qualifier	SDL <i>ug/l</i>	Unadj. MQL <i>ug/l</i>	MQL <i>ug/l</i>
Mercury	7439-97-6	2.86		0.0490	0.200	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

ESC Sample ID:	R3252549-5	SDG:	L937868
Client Sample ID:	MSD	Collected Date/Time:	09/18/17 12:15
Lab File ID:	20170926202548	Received Date/Time:	09/20/17 08:45
Instrument ID:	CVAA5	Preparation Date/Time:	09/26/17 11:45
Analytical Batch:	WG1022948	Analysis Date/Time:	09/26/17 20:25
Dilution Factor:	1	Prep Method:	7470A
Analytical Method:	7470A	Sample Vol Used:	_____
Matrix:	GW	Initial Wt/Vol:	30 mL
Total Solids (%):	_____	Final Wt/Vol:	30.0 mL

Analyte	CAS	Result <i>ug/l</i>	Qualifier	SDL <i>ug/l</i>	Unadj. MQL <i>ug/l</i>	MQL <i>ug/l</i>
Mercury	7439-97-6	2.69		0.0490	0.200	0.200

SDG:	L937868	Calibration (begin) date/time:	09/26/17 07:33
Instrument ID:	CVAA5	Calibration (end) date/time:	09/26/17 07:44
Analytical Method:	7470A	Analytical Run:	092617CVAA5 W
Concentration Units:	mg/l		

Analyte	Sample ID:	ICV				CCVLL				CCV			
		CVAA50926170807				CVAA50926171456-2				CVAA50926172005-3			
		True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
MERCURY		0.0030	0.0029828	99	2.280000	0.0002	0.0001940	97	0.610000	0.0025	0.0025093	100	1.140000

SDG:	L937868	Calibration (begin) date/time:	09/26/17 07:33
Instrument ID:	CVAA5	Calibration (end) date/time:	09/26/17 07:44
Analytical Method:	7470A	Analytical Run:	092617CVAA5 W
Concentration Units:	mg/l		

Analyte	Sample ID:	CCV				CCVLL				CCV			
		CVAA50926172032-2				CVAA50926172037-3				CVAA50926172102			
		True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
MERCURY		0.0025	0.0025174	101	1.560000	0.0002	0.0001942	97	2.020000	0.0025	0.0024734	99	1.960000

SDG:	L937868	Calibration (begin) date/time:	09/26/17 07:33
Instrument ID:	CVAA5	Calibration (end) date/time:	09/26/17 07:44
Analytical Method:	7470A	Analytical Run:	092617CVAA5 W
Concentration Units:	mg/l		

CCVLL				
Sample ID: CVAA50926172201				
Analyte	True	Found	%R	%RSD
MERCURY	0.0002	0.0001981	99	1.120000



SDG:	L937868	Calibration (begin) date/time:	09/26/17 07:33
Instrument ID:	CVAA5	Calibration (end) date/time:	09/26/17 07:44
Analytical Method:	7470A	Analytical Run:	092617CVAA5 W

	Sample ID:	ICB Result	ICB Qual	CCB Result	CCB Qual	BLANK Result	BLANK Qual	CCB Result	CCB Qual
	File ID:	20170926080925		20170926200732-3		20170926201427		20170926203457-2	
Analyte		mg/l		mg/l		mg/l		mg/l	
MERCURY		-0.00003920	U	-0.00006690	U	ND		-0.00006040	U

SDG:	L937868	Calibration (begin) date/time:	09/26/17 07:33
Instrument ID:	CVAA5	Calibration (end) date/time:	09/26/17 07:44
Analytical Method:	7470A	Analytical Run:	092617CVAA5 W

	Sample ID:	CCB Result	CCB Qual
	File ID:	20170926210423	
Analyte	mg/l		
MERCURY	-0.00006040	U	

MATRIX SPIKE /
MATRIX SPIKE DUPLICATE RECOVERY
L937868-01,02,03,04,05

MS Sample / File ID:	R3252549-4 / 20170926202334	SDG:	L937868
MSD Sample / File ID:	R3252549-5 / 20170926202548	Analytical Batch:	WG1022948
OS Sample / File ID:	L937868-02 / 20170926202116	Matrix:	GW
Instrument ID:	CVAA5		
Analytical Method:	7470A		

Analyte	Spike Amount <i>ug/l</i>	OS Result <i>ug/l</i>	MS Result <i>ug/l</i>	MSD Result <i>ug/l</i>	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	RPD %	RPD Limits %
Mercury	3.00	ND	2.86	2.69	95	90	1	75 - 125	6	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY
L937868-01,02,03,04,05

LCS Sample / File ID:	R3252549-2 / 20170926201644	SDG:	L937868
LCSD Sample / File ID:	R3252549-3 / 20170926201859	Analytical Batch:	WG1022948
Instrument ID:	CVAA5	Dilution Factor:	1
Analytical Method:	7470A	Matrix:	GW

Analyte	Spike Amount <i>ug/l</i>	LCS Result <i>ug/l</i>	LCSD Result <i>ug/l</i>	LCS Rec. %	LCSD Rec. %	Rec. Limits %	RPD %	RPD Limits %
Mercury	3.00	2.99	2.90	100	97	80 - 120	3	20

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

SDG:	L937868	Analytical Method:	7470A
Instrument ID:	CVAA5	Date:	01/19/17 08:54

Analyte	LDR <i>ppm</i>
MERCURY	0.01



12-IN

ANALYSIS LOG

SDG:	L937868	Analytical Method:	7470A
Instrument ID:	CVAA5	Calibration Start Date:	09/26/17 07:33
Analytical Run:	092617CVAA5 W	Calibration End Date:	09/26/17 07:44

Client Sample ID	Lab Sample ID	File ID	Analysis Date Time	Dilution	Batch
CALBLK	CVAA50926170731	20170926073122	09/26/17 07:31	1	
CAL	STD 0.2	20170926073338	09/26/17 07:33	1	
CAL	STD 0.4	20170926073554	09/26/17 07:35	1	
CAL	STD 1.0	20170926073809	09/26/17 07:38	1	
CAL	STD 2.0	20170926074023	09/26/17 07:40	1	
CAL	STD 5.0	20170926074239	09/26/17 07:42	1	
CAL	STD 10.0	20170926074456	09/26/17 07:44	1	
ICV	CVAA50926170807	20170926080709	09/26/17 08:07	1	
ICB	CVAA50926170809	20170926080925	09/26/17 08:09	1	
CCVLL	CVAA50926171456-2	20170926145621-2	09/26/17 14:56	1	
CCV	CVAA50926172005-3	20170926200517-3	09/26/17 20:05	1	
CCB	CVAA50926172007-3	20170926200732-3	09/26/17 20:07	1	
BLANK	R3252549-1	20170926201427	09/26/17 20:14	1	WG1022948
LCS	R3252549-2	20170926201644	09/26/17 20:16	1	WG1022948
LCSD	R3252549-3	20170926201859	09/26/17 20:18	1	WG1022948
RMW-4	L937868-02	20170926202116	09/26/17 20:21	1	WG1022948
MS	R3252549-4	20170926202334	09/26/17 20:23	1	WG1022948
MSD	R3252549-5	20170926202548	09/26/17 20:25	1	WG1022948
FIELD DUPLICATE	L937868-01	20170926202806	09/26/17 20:28	1	WG1022948
WELL-09	L937868-03	20170926203027	09/26/17 20:30	1	WG1022948
CCV	CVAA50926172032-2	20170926203243-2	09/26/17 20:32	1	
CCB	CVAA50926172034-2	20170926203457-2	09/26/17 20:34	1	
CCVLL	CVAA50926172037-3	20170926203717-3	09/26/17 20:37	1	
RMW-3	L937868-04	20170926203933	09/26/17 20:39	1	WG1022948
RMW-9	L937868-05	20170926204149	09/26/17 20:41	1	WG1022948
CCV	CVAA50926172102	20170926210208	09/26/17 21:02	1	
CCB	CVAA50926172104	20170926210423	09/26/17 21:04	1	
CCVLL	CVAA50926172201	20170926220124	09/26/17 22:01	1	

SDG:	L937868	Calibration (begin) date/time:	09/26/17 07:33
Instrument ID:	CVAA5	Calibration (end) date/time:	09/26/17 07:44
Analytical Method:	7470A	Analytical Run:	092617CVAA5 W

Analyte	Std Conc	Result	Rec.	Std Conc	Result	Rec.
	ug/l	ug/l	%	ug/l	ug/l	%
MERCURY	0.20	.22156492	111	0.40	.43293725	108
File ID:		20170926073338			20170926073554	

SDG:	L937868	Calibration (begin) date/time:	09/26/17 07:33
Instrument ID:	CVAA5	Calibration (end) date/time:	09/26/17 07:44
Analytical Method:	7470A	Analytical Run:	092617CVAA5 W

Analyte	Std Conc	Result	Rec.	Std Conc	Result	Rec.
	ug/l	ug/l	%	ug/l	ug/l	%
MERCURY	1	.96803626	97	2	2.00352318	100
File ID:		20170926073809			20170926074023	

SDG:	L937868	Calibration (begin) date/time:	09/26/17 07:33
Instrument ID:	CVAA5	Calibration (end) date/time:	09/26/17 07:44
Analytical Method:	7470A	Analytical Run:	092617CVAA5 W

Analyte	Std Conc ug/l	Result ug/l	Rec. %	Std Conc ug/l	Result ug/l	Rec. %
MERCURY	5	4.93332271	99	10	10.03329675	100
File ID:		20170926074239			20170926074456	

INITIAL
CALIBRATION

SDG:	L937868	Calibration (begin) date/time:	09/26/17 07:33
Instrument ID:	CVAA5	Calibration (end) date/time:	09/26/17 07:44
Analytical Method:	7470A	Analytical Run:	092617CVAA5 W

Analyte	Wavelength	Cal. Type	Weightage	Corr.	Slope	Incpt
MERCURY	253.7	0	5	0.999949	0.000183	0.031933

Calibration Type
0 = Linear Regression
Weightage
5 = None

Sample ID: CALBLK

Analyzed: 09/26/17 07:31 Sequence: 1 Standard ID:

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	-135.00	-136.00	-137.00	-132.00

Sample ID: STD 0.2 Units: ug/l

Analyzed: 09/26/17 07:33 Sequence: 2 Standard ID: 17I07908

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	1038.000	1029.000	1045.000	1041.000

Sample ID: STD 0.4 Units: ug/l

Analyzed: 09/26/17 07:35 Sequence: 3 Standard ID: 17I07908

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	2195.000	2164.000	2207.000	2215.000

Sample ID: STD 1.0 Units: ug/l

Analyzed: 09/26/17 07:38 Sequence: 4 Standard ID: 17I07908

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	5124.000	5041.000	5125.000	5206.000

Sample ID: STD 2.0 Units: ug/l

Analyzed: 09/26/17 07:40 Sequence: 5 Standard ID: 17I07908

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	10792.00	10556.00	10798.00	11021.00

Sample ID: STD 5.0 Units: ug/l

Analyzed: 09/26/17 07:42 Sequence: 6 Standard ID: 17I07908

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	26829.00	26582.00	26819.00	27086.00

Sample ID: STD 10.0 Units: ug/l

Analyzed: 09/26/17 07:44 Sequence: 7 Standard ID: 17I07908

Analyte	Mean Intensity	Intensity Rep1	Intensity Rep2	Intensity Rep3
MERCURY	54745.00	53508.00	55038.00	55688.00

Sample ID: ICV Units: mg/l

Analyzed: 09/26/17 08:07 Sequence: 8 Standard ID: 17I07907

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY		0.002982800	0.002891600	0.003002300	0.003054500

Sample ID: ICB Units: mg/l

Analyzed: 09/26/17 08:09 Sequence: 9

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY		-0.00003920000	-0.00003900000	-0.00003900000	-0.00003970000

Sample ID: CCVLL-2 Units: mg/l

Analyzed: 09/26/17 14:56 Sequence: 186 Standard ID: 17107908

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY		0.0001940000	0.0001945000	0.0001951000	0.0001923000

Sample ID: CCV-3 Units: mg/l

Analyzed: 09/26/17 20:05 Sequence: 200 Standard ID: 17I07908

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY		0.002509300	0.002470900	0.002517400	0.002539500

Sample ID: CCB-3 Units: mg/l

Analyzed: 09/26/17 20:07 Sequence: 201

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY		-0.00006690000	-0.00006420000	-0.00006780000	-0.00006870000

Sample ID: BLANK DF: 1x Batch: WG1022948 Units: mg/l

Analyzed: 09/26/17 20:14 Sequence: 204

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY		-0.00001310000	-0.00001230000	-0.00001390000	-0.00001320000

Sample ID: LCS DF: 1x Batch: WG1022948 Units: mg/l

Analyzed: 09/26/17 20:16 Sequence: 205

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY		0.002987400	0.002946800	0.003005800	0.003009600

Sample ID: LCSD DF: 1x Batch: WG1022948 Units: mg/l

Analyzed: 09/26/17 20:18 Sequence: 206

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY		0.002901200	0.002855000	0.002899300	0.002949300

Sample ID: L937868-02 DF: 1x Batch: WG1022948 Units: mg/l

Analyzed: 09/26/17 20:21 Sequence: 207

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY		-0.00006940000	-0.00006890000	-0.00006890000	-0.00007040000

Sample ID: MS DF: 1x Ref Sample ID: L937868-02 Batch: WG1022948 Units: mg/l

Analyzed: 09/26/17 20:23 Sequence: 208

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY		0.002860100	0.002807000	0.002865300	0.002908000

Sample ID: MSD DF: 1x Ref Sample ID: L937868-02 Batch: WG1022948 Units: mg/l

Analyzed: 09/26/17 20:25 Sequence: 209

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY		0.002685900	0.002611300	0.002686800	0.002759700

Sample ID: L937868-01 DF: 1x Batch: WG1022948 Units: mg/l

Analyzed: 09/26/17 20:28 Sequence: 210

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY		-0.00009470000	-0.00009340000	-0.00009560000	-0.00009520000

Sample ID: L937868-03 DF: 1x Batch: WG1022948 Units: mg/l

Analyzed: 09/26/17 20:30 Sequence: 211

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY		-0.00002480000	-0.00002490000	-0.00002510000	-0.00002430000

Sample ID: CCV-2 Units: mg/l

Analyzed: 09/26/17 20:32 Sequence: 212 Standard ID: 17107908

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY		0.002517400	0.002463000	0.002535500	0.002553800

Sample ID: CCB-2 Units: mg/l

Analyzed: 09/26/17 20:34 Sequence: 213

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY		-0.00006040000	-0.00005890000	-0.00006000000	-0.00006230000

Sample ID: CCVLL-3 Units: mg/l

Analyzed: 09/26/17 20:37 Sequence: 214 Standard ID: 17107908

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY		0.0001942000	0.0001898000	0.0001934000	0.0001993000

Sample ID: L937868-04 DF: 1x Batch: WG1022948 Units: mg/l

Analyzed: 09/26/17 20:39 Sequence: 215

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY		-0.00002790000	-0.00002740000	-0.00002780000	-0.00002840000

Sample ID: L937868-05 DF: 1x Batch: WG1022948 Units: mg/l

Analyzed: 09/26/17 20:41 Sequence: 216

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY		-0.00001640000	-0.00001590000	-0.00001650000	-0.00001680000

Sample ID: CCV Units: mg/l

Analyzed: 09/26/17 21:02 Sequence: 225 Standard ID: 17107908

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY		0.002473400	0.002414400	0.002472900	0.002533000

Sample ID: CCB Units: mg/l

Analyzed: 09/26/17 21:04 Sequence: 226

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY		-0.00006040000	-0.00005980000	-0.00006050000	-0.00006090000

Sample ID: CCVLL Units: mg/l

Analyzed: 09/26/17 22:01 Sequence: 251 Standard ID: 17I07908

Analyte	Mean Intensity	Mean Conc. (uncorrected)	Conc. Rep1	Conc. Rep2	Conc. Rep3
MERCURY		0.0001981000	0.0001958000	0.0001975000	0.0002011000

7470A GW Metals Prep Benchsheet

Batch #: WG1022948

Analyst: ABL802 Balance ID: NA Vessel Vendor: 36193 Hotblock ID: MPC Hotblock Temp On: 95 Hotblock Temp Off: 94 Hotblock Date On: 09/26/17
Hotblock Date Off: 09/26/17 Prep Date: 09/26/17 11:44-11:45 Prep End Date/Time: 09/26/17 19:14 SOP: 340384A Method: 7470A
15min KMNO4 HoldTime: 09/26/17 10:05:00

LCS/D Standard: 17122202 Amt. Used: 90 uL Exp. Date:09/29/17 HNO3: 17H31480 Amt. Used: 0.75 mL Exp. Date:02/28/18
H2SO4: 17F15744 Amt. Used: 1.50 mL Exp. Date:12/15/17 KMNO4: 17F15743 Amt. Used: 5 mL Exp. Date:12/15/17
K2S2O8: 17I10140 Amt. Used: 2.50 mL Exp. Date:03/10/18 H8N2O6S: 17F15742 Amt. Used: 2 mL Exp. Date:12/15/17 SnCl: 17I19883 mL Exp. Date:04/03/20
HCl: 17I08036 mL Exp. Date:03/08/18

Sample ID	Sample Matrix	Initial Sample Vol (mL)	Final Volume (mL)	Initial pH	Review Analyst	Review Date	Sample Comments
BLANK		30	30.0	7	EL684	09/26/17 19:14:27	
LCS		30	30.0	7	EL684	09/26/17 19:14:27	
LCS D		30	30.0	7	EL684	09/26/17 19:14:27	
MS(L937868-02)		30	30.0	<2	EL684	09/26/17 19:14:27	
MSD(L937868-02)		30	30.0	<2	EL684	09/26/17 19:14:27	
1. L937868-01	GW	30	30.0	<2	EL684	09/26/17 19:14:27	
2. L937868-02	GW	30	30.0	<2	EL684	09/26/17 19:14:27	MS/MSD
3. L937868-03	GW	30	30.0	<2	EL684	09/26/17 19:14:27	
4. L937868-04	GW	30	30.0	<2	EL684	09/26/17 19:14:27	
5. L937868-05	GW	30	30.0	<2	EL684	09/26/17 19:14:27	
6. L937935-11	GW	30	30.0	<2	EL684	09/26/17 19:14:27	
7. L937961-01	GW	30	30.0	<2	EL684	09/26/17 19:14:27	
8. L937961-02	GW	30	30.0	<2	EL684	09/26/17 19:14:27	
9. L937961-03	GW	30	30.0	<2	EL684	09/26/17 19:14:27	
10. L937961-04	GW	30	30.0	<2	EL684	09/26/17 19:14:27	
11. L937961-05	GW	30	30.0	<2	EL684	09/26/17 19:14:27	
12. L937961-06	GW	30	30.0	<2	EL684	09/26/17 19:14:27	
13. L937961-07	GW	30	30.0	<2	EL684	09/26/17 19:14:27	
14. L937961-08	GW	30	30.0	<2	EL684	09/26/17 19:14:27	
15. L937961-09	GW	30	30.0	<2	EL684	09/26/17 19:14:27	
16. L937961-10	GW	30	30.0	<2	EL684	09/26/17 19:14:27	
17. L937961-11	GW	30	30.0	<2	EL684	09/26/17 19:14:27	
18. L937961-12	GW	30	30.0	<2	EL684	09/26/17 19:14:27	
Comments:							

Reviewed By:EL684 on 09/26/17 19:14:27



8260C Volatile Organic Compounds (GC/MS)

Analytical Method:8260C

SDG:L937868

Matrix:GW

Sample ID	ESC Sample ID	Instrument	File ID	DMC-1	DMC-2	DMC-3	DMC-4	TOT Out
				% Rec.	% Rec.	% Rec.	% Rec.	
FIELD DUPLICATE	L937868-01	VOCMS13	0922_25	103	102	104	98.5	0
RMW-4	L937868-02	VOCMS13	0922_26	101	100	102	99.3	0
WELL-09	L937868-03	VOCMS13	0922_27	104	101	103	98.7	0
RMW-3	L937868-04	VOCMS13	0922_28	100	104	100	96.6	0
RMW-9	L937868-05	VOCMS13	0922_29	104	102	104	98.6	0
MS	R3251791-3	VOCMS13	0922_45	103	97.3	102	98.3	0
MSD	R3251791-4	VOCMS13	0922_46	102	97.5	105	97.4	0
BLANK	R3251791-2	VOCMS13	0922_21	104	99.1	103	101	0
LCS	R3251791-1	VOCMS13	0922_19	99.8	96.9	108	104	0

Parm Abbreviation	Parameter	QC LIMITS
DMC-1	Toluene-d8	80.0 - 120
DMC-2	Dibromofluoromethane	76.0 - 123
DMC-3	a,a,a-Trifluorotoluene	80.0 - 120
DMC-4	4-Bromofluorobenzene	80.0 - 120

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

MATRIX SPIKE /
MATRIX SPIKE DUPLICATE RECOVERY
L937868-01,02,03,04,05

SAMPLE NO.:

R3251791-3

R3251791-4

MS Sample / File ID: R3251791-3 / 0922_45
MSD Sample / File ID: R3251791-4 / 0922_46
OS Sample / File ID: L937868-02 / 0922_26
Instrument ID: VOCMS13
Analytical Method: 8260C

SDG: L937868
Analytical Batch: WG1023529
Matrix: GW

Analyte	Spike Amount ug/l	OS Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	RPD %	RPD Limit %
Acetone	125	ND	106	131	70.4	90.4	1	10.0 - 139	21.0	25
Benzene	25.0	ND	17.7	23.3	70.7	93.4	1	34.0 - 147	27.7*	20
Bromodichloromethane	25.0	ND	17.7	24.7	70.8	98.6	1	52.0 - 135	32.9*	20
Bromochloromethane	25.0	ND	17.5	24.5	70.0	97.9	1	53.0 - 138	33.2*	20
Bromoform	25.0	ND	17.7	23.8	70.9	95.1	1	50.0 - 146	29.2*	20
Bromomethane	25.0	ND	19.3	25.0	77.2	99.9	1	10.0 - 160	25.7*	23
n-Butylbenzene	25.0	ND	20.1	25.6	80.5	102	1	50.0 - 144	23.9*	20
sec-Butylbenzene	25.0	ND	19.2	24.7	76.8	99.0	1	48.0 - 143	25.3*	20
tert-Butylbenzene	25.0	ND	19.2	24.9	76.8	99.6	1	50.0 - 142	25.8*	20
Carbon disulfide	25.0	ND	17.5	22.6	70.2	90.5	1	10.0 - 147	25.3*	20
Carbon tetrachloride	25.0	ND	19.8	24.4	79.3	97.7	1	41.0 - 138	20.7*	20
Chlorobenzene	25.0	ND	18.8	24.5	75.1	98.2	1	52.0 - 141	26.6*	20
Chlorodibromomethane	25.0	ND	18.7	25.6	74.8	102	1	54.0 - 142	31.2*	20
Chloroethane	25.0	ND	20.2	25.5	80.6	102	1	23.0 - 160	23.5*	20
Chloroform	25.0	ND	18.6	24.8	74.4	99.4	1	50.0 - 139	28.7*	20
Chloromethane	25.0	ND	16.5	21.6	66.1	86.6	1	14.0 - 151	26.8*	20
1,2-Dibromo-3-Chloropropane	25.0	ND	18.8	25.2	75.1	101	1	49.0 - 144	29.2*	24
1,2-Dibromoethane	25.0	ND	18.6	24.8	74.4	99.3	1	54.0 - 140	28.7*	20
1,2-Dichlorobenzene	25.0	ND	19.0	25.3	75.8	101	1	56.0 - 139	28.7*	20
1,3-Dichlorobenzene	25.0	ND	17.9	23.4	71.4	93.8	1	50.0 - 141	27.1*	20
1,4-Dichlorobenzene	25.0	ND	19.1	24.9	76.2	99.4	1	53.0 - 136	26.4*	20
Dichlorodifluoromethane	25.0	ND	19.7	24.1	78.9	96.6	1	20.0 - 160	20.1	21
1,1-Dichloroethane	25.0	ND	18.0	24.2	70.8	95.7	1	47.0 - 143	29.6*	20
1,2-Dichloroethane	25.0	ND	17.2	22.7	68.9	91.0	1	47.0 - 141	27.7*	20
1,1-Dichloroethene	25.0	ND	19.0	25.0	76.0	100	1	31.0 - 148	27.4*	20
cis-1,2-Dichloroethene	25.0	ND	18.2	24.2	72.8	96.7	1	43.0 - 142	28.2*	20
trans-1,2-Dichloroethene	25.0	ND	18.1	24.0	72.2	95.8	1	36.0 - 141	28.1*	20
1,2-Dichloropropane	25.0	ND	18.0	23.9	71.9	95.7	1	51.0 - 141	28.3*	20
cis-1,3-Dichloropropene	25.0	ND	18.3	24.0	73.3	96.2	1	53.0 - 139	27.0*	20
trans-1,3-Dichloropropene	25.0	ND	18.2	24.0	72.9	96.0	1	51.0 - 143	27.4*	20
Ethylbenzene	25.0	ND	20.4	26.4	78.9	103	1	42.0 - 147	25.7*	20
2-Hexanone	125	ND	94.3	125	75.4	99.9	1	36.0 - 145	28.0*	23
Isopropylbenzene	25.0	ND	19.3	24.6	77.3	98.4	1	48.0 - 141	24.0*	20
p-Isopropyltoluene	25.0	ND	19.6	25.6	78.3	102	1	49.0 - 146	26.7*	20
2-Butanone (MEK)	125	ND	83.9	107	67.1	85.4	1	12.0 - 149	24.0	24
Methylene Chloride	25.0	ND	17.9	23.8	71.7	95.4	1	42.0 - 135	28.3*	20
4-Methyl-2-pentanone (MIBK)	125	ND	96.2	130	77.0	104	1	44.0 - 160	30.0*	22
Methyl tert-butyl ether	25.0	ND	17.0	23.6	67.9	94.4	1	42.0 - 142	32.7*	20
Naphthalene	25.0	15.4	35.3	44.5	79.5	116	1	42.0 - 146	23.0	24
n-Propylbenzene	25.0	ND	18.7	24.1	74.8	96.5	1	47.0 - 144	25.3*	20
Styrene	25.0	ND	18.5	24.4	74.2	97.5	1	47.0 - 147	27.1*	20
1,1,2,2-Tetrachloroethane	25.0	ND	17.0	23.6	68.1	94.2	1	46.0 - 149	32.2*	20
1,1,2-Trichlorotrifluoroethane	25.0	ND	21.3	25.3	85.2	101	1	40.0 - 151	17.0	21

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3A-OR

MATRIX SPIKE /
MATRIX SPIKE DUPLICATE RECOVERY
L937868-01,02,03,04,05

SAMPLE NO.:

R3251791-3

R3251791-4

MS Sample / File ID: R3251791-3 / 0922_45
MSD Sample / File ID: R3251791-4 / 0922_46
OS Sample / File ID: L937868-02 / 0922_26
Instrument ID: VOCMS13
Analytical Method: 8260C

SDG: L937868
Analytical Batch: WG1023529
Matrix: GW

Analyte	Spike Amount ug/l	OS Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	RPD %	RPD Limit %
Tetrachloroethene	25.0	ND	19.8	24.7	79.3	98.9	1	38.0 - 147	21.9*	20
Toluene	25.0	ND	19.8	25.2	76.3	97.8	1	42.0 - 141	23.9*	20
1,2,3-Trichlorobenzene	25.0	ND	17.7	24.8	70.6	99.4	1	45.0 - 145	33.8*	22
1,2,4-Trichlorobenzene	25.0	ND	18.4	25.8	73.7	103	1	49.0 - 147	33.2*	21
1,1,1-Trichloroethane	25.0	ND	19.0	25.3	76.1	101	1	46.0 - 140	28.4*	20
1,1,2-Trichloroethane	25.0	ND	18.1	23.8	72.4	95.0	1	54.0 - 139	27.1*	20
Trichloroethene	25.0	ND	19.9	26.1	79.5	104	1	32.0 - 156	27.2*	20
Trichlorofluoromethane	25.0	ND	23.2	31.3	82.8	115	1	32.0 - 152	29.9*	20
Cyclohexane	25.0	ND	20.3	24.1	81.0	96.5	1	70.0 - 130	17.4	20
1,2,4-Trimethylbenzene	25.0	ND	19.1	25.3	74.8	99.6	1	41.0 - 146	27.9*	20
1,3,5-Trimethylbenzene	25.0	ND	19.0	25.6	76.2	103	1	44.0 - 143	29.5*	20
Vinyl chloride	25.0	ND	19.2	23.4	76.7	93.8	1	24.0 - 153	20.1*	20
Methyl Acetate	125	ND	77.8	104	62.3*	83.1	1	70.0 - 130	28.7*	20.8
Methyl Cyclohexane	25.0	ND	19.9	24.2	79.8	96.7	1	70.0 - 130	19.2	20.8
o-Xylene	25.0	ND	20.0	26.2	78.3	103	1	44.0 - 146	26.6*	20
m&p-Xylenes	50.0	ND	40.8	51.9	78.6	101	1	41.0 - 147	24.0*	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY
L937868-01,02,03,04,05

LCS Sample / File ID: R3251791-1 / 0922_19

LCSD Sample / File ID: _____

Instrument ID: VOCMS13

Analytical Method: 8260C

SDG: L937868

Analytical Batch: WG1023529

Dilution Factor: 1

Matrix: GW

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result	LCS Rec. %	LCSD Rec. %	Rec. Limits %	RPD %	RPD Limit %
Acetone	125	111		88.6		10.0 - 160		
Benzene	25.0	23.8		95.2		69.0 - 123		
Bromodichloromethane	25.0	23.2		93.0		76.0 - 120		
Bromochloromethane	25.0	23.4		93.7		76.0 - 122		
Bromoform	25.0	25.8		103		67.0 - 132		
Bromomethane	25.0	23.0		91.8		18.0 - 160		
n-Butylbenzene	25.0	26.0		104		72.0 - 126		
sec-Butylbenzene	25.0	25.6		102		74.0 - 121		
tert-Butylbenzene	25.0	25.7		103		75.0 - 122		
Carbon disulfide	25.0	24.4		97.4		55.0 - 127		
Carbon tetrachloride	25.0	25.0		100		63.0 - 122		
Chlorobenzene	25.0	24.7		98.6		79.0 - 121		
Chlorodibromomethane	25.0	25.4		102		75.0 - 125		
Chloroethane	25.0	22.8		91.3		47.0 - 152		
Chloroform	25.0	23.7		94.7		72.0 - 121		
Chloromethane	25.0	22.6		90.5		48.0 - 139		
1,2-Dibromo-3-Chloropropane	25.0	25.3		101		64.0 - 127		
1,2-Dibromoethane	25.0	24.4		97.5		77.0 - 123		
1,2-Dichlorobenzene	25.0	24.3		97.3		80.0 - 120		
1,3-Dichlorobenzene	25.0	23.9		95.6		72.0 - 123		
1,4-Dichlorobenzene	25.0	24.6		98.4		77.0 - 120		
Dichlorodifluoromethane	25.0	22.5		90.1		49.0 - 155		
1,1-Dichloroethane	25.0	23.4		93.8		70.0 - 126		
1,2-Dichloroethane	25.0	22.1		88.6		67.0 - 126		
1,1-Dichloroethene	25.0	24.8		99.1		64.0 - 129		
cis-1,2-Dichloroethene	25.0	23.2		92.7		73.0 - 120		
trans-1,2-Dichloroethene	25.0	24.3		97.2		71.0 - 121		
1,2-Dichloropropane	25.0	24.1		96.4		75.0 - 125		
cis-1,3-Dichloropropene	25.0	24.3		97.1		79.0 - 123		
trans-1,3-Dichloropropene	25.0	24.5		97.9		74.0 - 127		
Ethylbenzene	25.0	25.4		101		77.0 - 120		
2-Hexanone	125	118		94.5		58.0 - 147		
Isopropylbenzene	25.0	25.9		104		75.0 - 120		
p-Isopropyltoluene	25.0	26.7		107		74.0 - 126		
2-Butanone (MEK)	125	99.3		79.4		37.0 - 158		
Methylene Chloride	25.0	23.8		95.1		66.0 - 121		
4-Methyl-2-pentanone (MIBK)	125	120		95.7		59.0 - 143		
Methyl tert-butyl ether	25.0	23.3		93.3		64.0 - 123		
Naphthalene	25.0	24.6		98.6		62.0 - 128		
n-Propylbenzene	25.0	25.6		102		79.0 - 120		
Styrene	25.0	25.3		101		78.0 - 124		
Cyclohexane	25.0	25.3		101		70.0 - 130		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

SAMPLE NO.:

R3251791-1

L937868-01,02,03,04,05

LCS Sample / File ID: R3251791-1 / 0922_19

LCSD Sample / File ID: _____

Instrument ID: VOCMS13

Analytical Method: 8260C

SDG: L937868

Analytical Batch: WG1023529

Dilution Factor: 1

Matrix: GW

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result	LCS Rec. %	LCSD Rec. %	Rec. Limits %	RPD %	RPD Limit %
1,1,2,2-Tetrachloroethane	25.0	25.0		100		71.0 - 122		
1,1,2-Trichlorotrifluoroethane	25.0	24.9		99.6		61.0 - 136		
Tetrachloroethene	25.0	26.0		104		70.0 - 127		
Toluene	25.0	24.8		99.2		77.0 - 120		
1,2,3-Trichlorobenzene	25.0	23.4		93.4		61.0 - 133		
1,2,4-Trichlorobenzene	25.0	24.1		96.3		69.0 - 129		
1,1,1-Trichloroethane	25.0	24.6		98.5		68.0 - 122		
1,1,2-Trichloroethane	25.0	23.5		93.9		78.0 - 120		
Trichloroethene	25.0	26.1		104		78.0 - 120		
Trichlorofluoromethane	25.0	25.3		101		56.0 - 137		
1,2,4-Trimethylbenzene	25.0	25.3		101		75.0 - 120		
1,3,5-Trimethylbenzene	25.0	26.5		106		75.0 - 120		
Vinyl chloride	25.0	23.5		93.9		64.0 - 133		
Methyl Acetate	125	111		88.6		70.0 - 130		
Methyl Cyclohexane	25.0	24.5		97.8		70.0 - 130		
o-Xylene	25.0	26.1		104		78.0 - 120		
m&p-Xylenes	50.0	50.3		101		77.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

ESC Sample ID: R3251791-2
Lab File ID: 0922_21
Instrument ID: VOCMS13
Analytical Batch: WG1023529
Analytical Method: 8260C

SDG: L937868
Preparation Date/Time: 09/22/17 14:11
Analysis Date/Time: 09/22/17 14:11
Dilution Factor: 1
Matrix: GW

Sample ID	ESC Sample ID	Instrument	File ID	Analysis date/time
LCS	R3251791-1	VOCMS13	0922_19	09/22/17 13:32
FIELD DUPLICATE	L937868-01	VOCMS13	0922_25	09/22/17 15:29
RMW-4	L937868-02	VOCMS13	0922_26	09/22/17 15:48
WELL-09	L937868-03	VOCMS13	0922_27	09/22/17 16:08
RMW-3	L937868-04	VOCMS13	0922_28	09/22/17 16:27
RMW-9	L937868-05	VOCMS13	0922_29	09/22/17 16:46
MS	R3251791-3	VOCMS13	0922_45	09/22/17 21:57
MSD	R3251791-4	VOCMS13	0922_46	09/22/17 22:16

GC/MS INSTRUMENT
PERFORMANCE CHECK

Lab File ID: 0922_03-1
Instrument ID: VOCMS13
Analysis Date/Time: 09/22/17 04:58

SDG: L937868
Analytical Method: 8260C

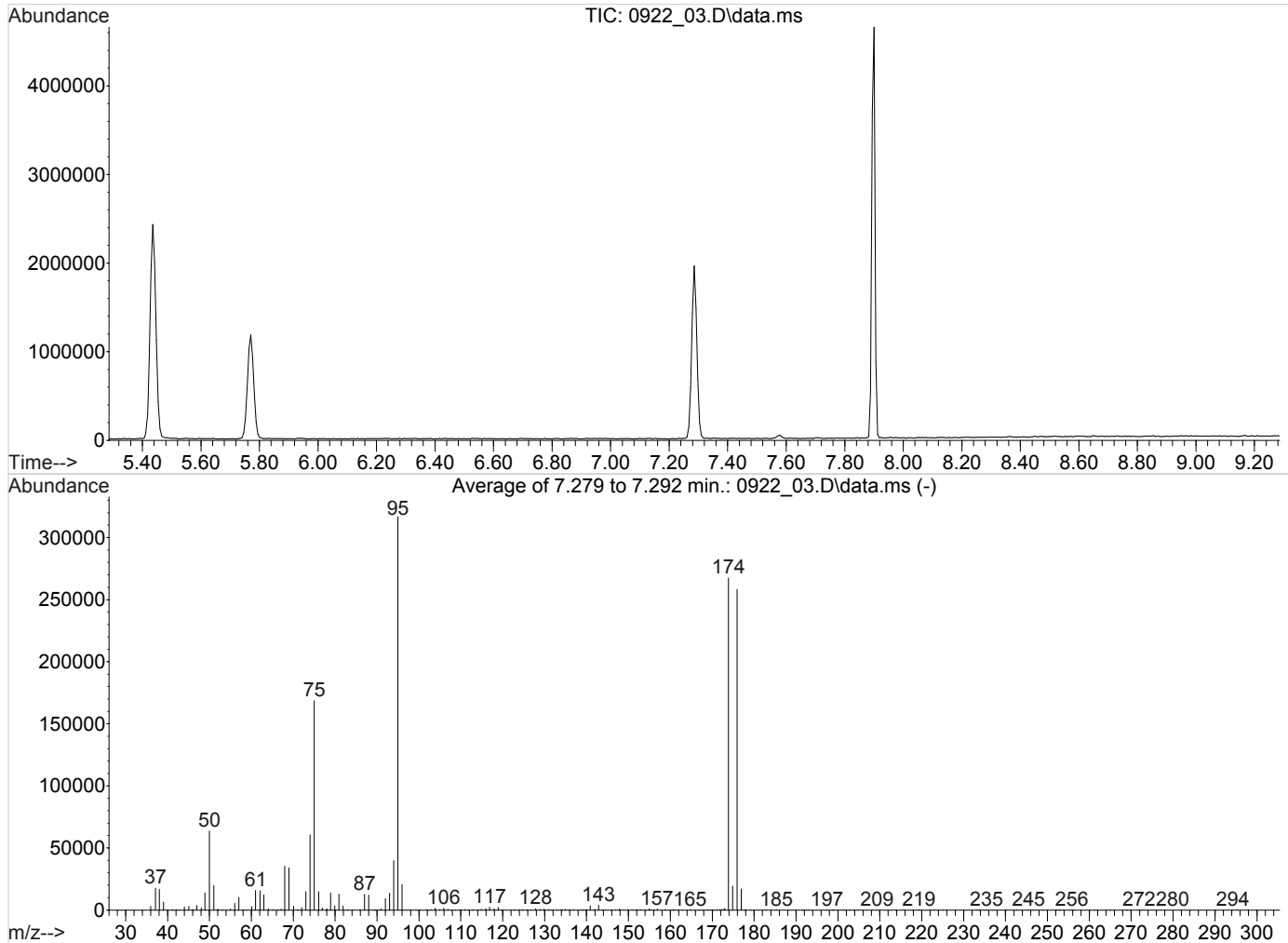
Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
173	174	0	2	0
174	95	50	100	84
175	174	5	9	7
176	174	95	101	97
177	176	5	9	6
50	95	15	40	20
75	95	30	60	53
95	95	100	100	100
96	95	5	9	6

Sample ID	ESC Sample ID	File ID	Analysis date/time
STD-0.25	0.25	0922_04	09/22/17 06:55
STD-0.5	0.5	0922_05	09/22/17 07:14
STD-1	1	0922_06	09/22/17 07:33
STD-2	2	0922_07	09/22/17 07:53
STD-5.0	5.0	0922_08	09/22/17 08:13
STD-10	10	0922_09	09/22/17 08:32
STD-25	25	0922_10	09/22/17 08:51
STD-40	40	0922_11	09/22/17 09:11
STD-75	75	0922_12	09/22/17 09:30
STD-100	100	0922_13	09/22/17 09:50
STD-200	200	0922_14	09/22/17 10:09
SSCV	VOCMS130922170922_17-1	0922_17-1	09/22/17 11:07

Data Path : C:\msdchem\1\data\092217\
 Data File : 0922_03.D
 Acq On : 22 Sep 2017 4:58 am
 Operator : 605
 Sample : INSTBLK
 Misc : water IS/SURR 17H10686
 ALS Vial : 3 Sample Multiplier: 1

Integration File: RTEINTLRH.P

Method : C:\msdchem\1\methods\V813I22Q.M
 Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
 Last Update : Fri Sep 22 10:59:34 2017



AutoFind: Scans 1183, 1184, 1185; Background Corrected with Scan 1177

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.1	63608	PASS
75	95	30	60	53.2	168533	PASS
95	95	100	100	100.0	316928	PASS
96	95	5	9	6.5	20554	PASS
173	174	0.00	2	0.5	1325	PASS
174	95	50	100	84.4	267413	PASS
175	174	5	9	7.2	19341	PASS
176	174	95	101	96.6	258283	PASS
177	176	5	9	6.5	16863	PASS

GC/MS INSTRUMENT
PERFORMANCE CHECK

Lab File ID: 0922_18T-1
Instrument ID: VOCMS13
Analysis Date/Time: 09/22/17 13:13

SDG: L937868
Analytical Method: 8260C

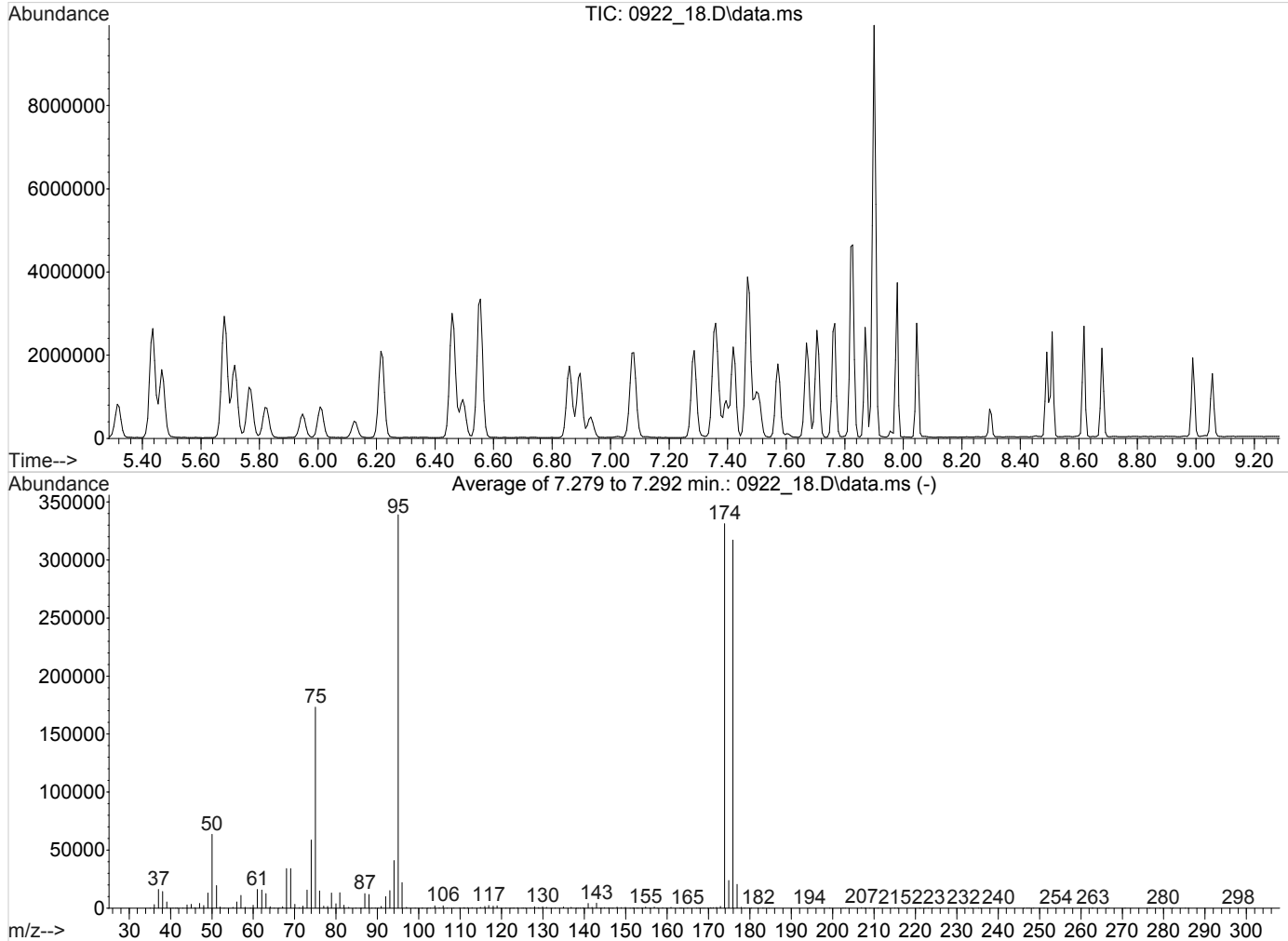
Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
173	174	0	2	0
174	95	50	100	98
175	174	5	9	7
176	174	95	101	96
177	176	5	9	6
50	95	15	40	19
75	95	30	60	51
95	95	100	100	100
96	95	5	9	6

Sample ID	ESC Sample ID	File ID	Analysis date/time
ICV	VOCMS130922170922_18-1	0922_18-1	09/22/17 13:13
LCS	R3251791-1	0922_19	09/22/17 13:32
BLANK	R3251791-2	0922_21	09/22/17 14:11
FIELD DUPLICATE	L937868-01	0922_25	09/22/17 15:29
OS	L937868-02	0922_26	09/22/17 15:48
RMW-4	L937868-02	0922_26	09/22/17 15:48
WELL-09	L937868-03	0922_27	09/22/17 16:08
RMW-3	L937868-04	0922_28	09/22/17 16:27
RMW-9	L937868-05	0922_29	09/22/17 16:46
MS	R3251791-3	0922_45	09/22/17 21:57
MSD	R3251791-4	0922_46	09/22/17 22:16

Data Path : C:\msdchem\1\data\092217\
 Data File : 0922_18.D
 Acq On : 22 Sep 2017 1:13 pm
 Operator : 605
 Sample : ICV VMS 25 ppb
 Misc : water
 ALS Vial : 18 Sample Multiplier: 1

Integration File: RTEINTLRH.P

Method : C:\msdchem\1\methods\V813I22Q.M
 Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
 Last Update : Fri Sep 22 10:59:34 2017



AutoFind: Scans 1183, 1184, 1185; Background Corrected with Scan 1176

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.7	63485	PASS
75	95	30	60	51.1	173293	PASS
95	95	100	100	100.0	339159	PASS
96	95	5	9	6.5	21983	PASS
173	174	0.00	2	0.4	1416	PASS
174	95	50	100	97.7	331307	PASS
175	174	5	9	7.2	23808	PASS
176	174	95	101	95.8	317355	PASS
177	176	5	9	6.4	20359	PASS

INTERNAL STANDARD
AND RETENTION TIME

SDG:	L937868	Analytical Method:	8260C
Instrument ID:	VOCMS13	Calibration Start Date:	07/21/17 20:27
Std File:	0922_18-1	Calibration End Date:	09/22/17 10:09
		Std Analysis Date:	09/22/17 13:13

Sample ID	File ID	1,4-DCB		DFB		BCP		PFB	
		Response	RT	Response	RT	Response	RT	Response	RT
STANDARD		595295	7.90	1160905	4.61	196130	5.76	797649	4.29
UPPER LIMIT		1190000		2320000		392000		1600000	
LOWER LIMIT		298000		580000		98100		399000	
LCS R3251791-1 WG1023529 1x	0922_19	614909	7.90	1170468	4.61	204145	5.77	802009	4.29
BLANK R3251791-2 WG1023529 1x	0922_21	569695	7.90	1078098	4.61	185192	5.77	708100	4.29
L937868-01 WG1023529 1x	0922_25	542285	7.90	988589	4.61	174534	5.77	656971	4.29
L937868-02 WG1023529 1x	0922_26	557142	7.90	1025373	4.61	181109	5.77	676157	4.29
OS L937868-02 WG1023529 1x	0922_26	557142	7.90	1025373	4.61	181109	5.77	676157	4.29
L937868-03 WG1023529 1x	0922_27	523693	7.90	979806	4.61	170893	5.77	658736	4.29
L937868-04 WG1023529 1x	0922_28	545640	7.90	968245	4.61	174397	5.77	640814	4.29
L937868-05 WG1023529 1x	0922_29	518213	7.90	951809	4.61	167148	5.77	640642	4.29
MS R3251791-3 WG1023529 1x	0922_45	531679	7.90	967307	4.61	166411	5.77	666634	4.29
MSD R3251791-4 WG1023529 1x	0922_46	553168	7.90	1014851	4.61	175334	5.77	715366	4.29

1,4-DCB - 8260-1,4-DICHLOROBENZENE-D4 DFB - 8260-1,4-DIFLUOROBENZENE
BCP - 8260-2-BROMO-1-CHLOROPROPANE PFB - 8260-PENTAFLUOROBENZENE

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEETSAMPLE NO.:
FIELD DUPLICATE

ESC Sample ID: L937868-01
Client Sample ID: FIELD DUPLICATE
Lab File ID: 0922_25
Instrument ID: VOCMS13
Analytical Batch: WG1023529
Dilution Factor: 1
Analytical Method: 8260C
Matrix: GW
Total Solids (%): _____

SDG: L937868
Collected Date/Time: 09/18/17 00:00
Received Date/Time: 09/20/17 08:45
Preparation Date/Time: 09/22/17 15:29
Analysis Date/Time: 09/22/17 15:29
Prep Method: 8260C
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>ug/l</i>	Qualifier	MDL <i>ug/l</i>	RDL <i>ug/l</i>
Acetone	67-64-1	3.08	ND		10.0	50.0
Benzene	71-43-2	0	ND		0.331	1.00
Bromochloromethane	74-97-5	0	ND		0.520	1.00
Bromodichloromethane	75-27-4	0	ND		0.380	1.00
Bromoform	75-25-2	0	ND		0.469	1.00
Bromomethane	74-83-9	0	ND		0.866	5.00
Carbon disulfide	75-15-0	0	ND		0.275	1.00
Carbon tetrachloride	56-23-5	0	ND		0.379	1.00
Chlorobenzene	108-90-7	0	ND		0.348	1.00
Chlorodibromomethane	124-48-1	0	ND		0.327	1.00
Chloroethane	75-00-3	0	ND		0.453	5.00
Chloroform	67-66-3	0	ND		0.324	5.00
Chloromethane	74-87-3	0	ND		0.276	2.50
Cyclohexane	110-82-7	0	ND		0.390	1.00
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND		1.33	5.00
1,2-Dibromoethane	106-93-4	0	ND		0.381	1.00
1,2-Dichlorobenzene	95-50-1	0	ND		0.349	1.00
1,3-Dichlorobenzene	541-73-1	0	ND		0.220	1.00
1,4-Dichlorobenzene	106-46-7	0	ND		0.274	1.00
Dichlorodifluoromethane	75-71-8	0	ND		0.551	5.00
1,1-Dichloroethane	75-34-3	3.51	ND		0.259	1.00
1,2-Dichloroethane	107-06-2	0	ND		0.361	1.00
1,1-Dichloroethene	75-35-4	2.70	ND		0.398	1.00
cis-1,2-Dichloroethene	156-59-2	3.80	ND		0.260	1.00
trans-1,2-Dichloroethene	156-60-5	0	ND		0.396	1.00
1,2-Dichloropropane	78-87-5	0	ND		0.306	1.00
cis-1,3-Dichloropropene	10061-01-5	0	ND		0.418	1.00
trans-1,3-Dichloropropene	10061-02-6	0	ND		0.419	1.00
Ethylbenzene	100-41-4	0	ND		0.384	1.00
2-Hexanone	591-78-6	0	ND		3.82	10.0
Isopropylbenzene	98-82-8	0	ND		0.326	1.00
2-Butanone (MEK)	78-93-3	4.11	ND		3.93	10.0
Methyl Acetate	79-20-9	0	ND		4.30	20.0
Methyl Cyclohexane	108-87-2	0	ND		0.380	1.00
Methylene Chloride	75-09-2	0	ND		1.00	5.00
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		2.14	10.0
Methyl tert-butyl ether	1634-04-4	0	ND		0.367	1.00
Naphthalene	91-20-3	0	ND		1.00	5.00
Styrene	100-42-5	0	ND		0.307	1.00
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		0.130	1.00
Tetrachloroethene	127-18-4	0	ND		0.372	1.00
Toluene	108-88-3	0	ND		0.412	1.00
1,2,3-Trichlorobenzene	87-61-6	0	ND		0.230	1.00

ESC Sample ID:

L937868-01

Client Sample ID:

FIELD DUPLICATE

Lab File ID:

0922_25

Instrument ID:

VOCMS13

Analytical Batch:

WG1023529

Dilution Factor:

1

Analytical Method:

8260C

Matrix:

GW

Total Solids (%):

SDG:

L937868

Collected Date/Time:

09/18/17 00:00

Received Date/Time:

09/20/17 08:45

Preparation Date/Time:

09/22/17 15:29

Analysis Date/Time:

09/22/17 15:29

Prep Method:

8260C

Sample Vol Used:

5 mL

Initial Wt/Vol:

Final Wt/Vol:

5 mL

Analyte	CAS	RT	Result <i>ug/l</i>	Qualifier	MDL <i>ug/l</i>	RDL <i>ug/l</i>
1,2,4-Trichlorobenzene	120-82-1	0	ND		0.355	1.00
1,1,1-Trichloroethane	71-55-6	4.09	ND		0.319	1.00
1,1,2-Trichloroethane	79-00-5	0	ND		0.383	1.00
Trichloroethene	79-01-6	4.61	7.71		0.398	1.00
Trichlorofluoromethane	75-69-4	0	ND		1.20	5.00
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		0.303	1.00
Vinyl chloride	75-01-4	0	ND		0.259	1.00
o-Xylene	95-47-6	0	ND		0.341	1.00
m&p-Xylenes	1330-20-7	0	ND		0.719	2.00
n-Butylbenzene	104-51-8	0	ND		0.361	1.00
sec-Butylbenzene	135-98-8	0	ND		0.365	1.00
tert-Butylbenzene	98-06-6	0	ND		0.399	1.00
1,2,4-Trimethylbenzene	95-63-6	0	ND		0.373	1.00
1,3,5-Trimethylbenzene	108-67-8	0	ND		0.387	1.00
n-Propylbenzene	103-65-1	0	ND		0.349	1.00
p-Isopropyltoluene	99-87-6	0	ND		0.350	1.00

Data Path : \\VOCCOMPY\msdchem\1\data\092217\
 Data File : 0922_25.D
 Acq On : 22 Sep 2017 3:29 pm
 Operator : 605
 Sample : L937868-01 1x WG1023529
 Misc : water
 ALS Vial : 25 Sample Multiplier: 1
 InstName : VOCMS13

Quant Time: Sep 24 11:06:13 2017
 Quant Method : C:\msdchem\1\methods\V813I22Q.M
 Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
 QLast Update : Fri Sep 22 10:59:34 2017
 Response via : Initial Calibration

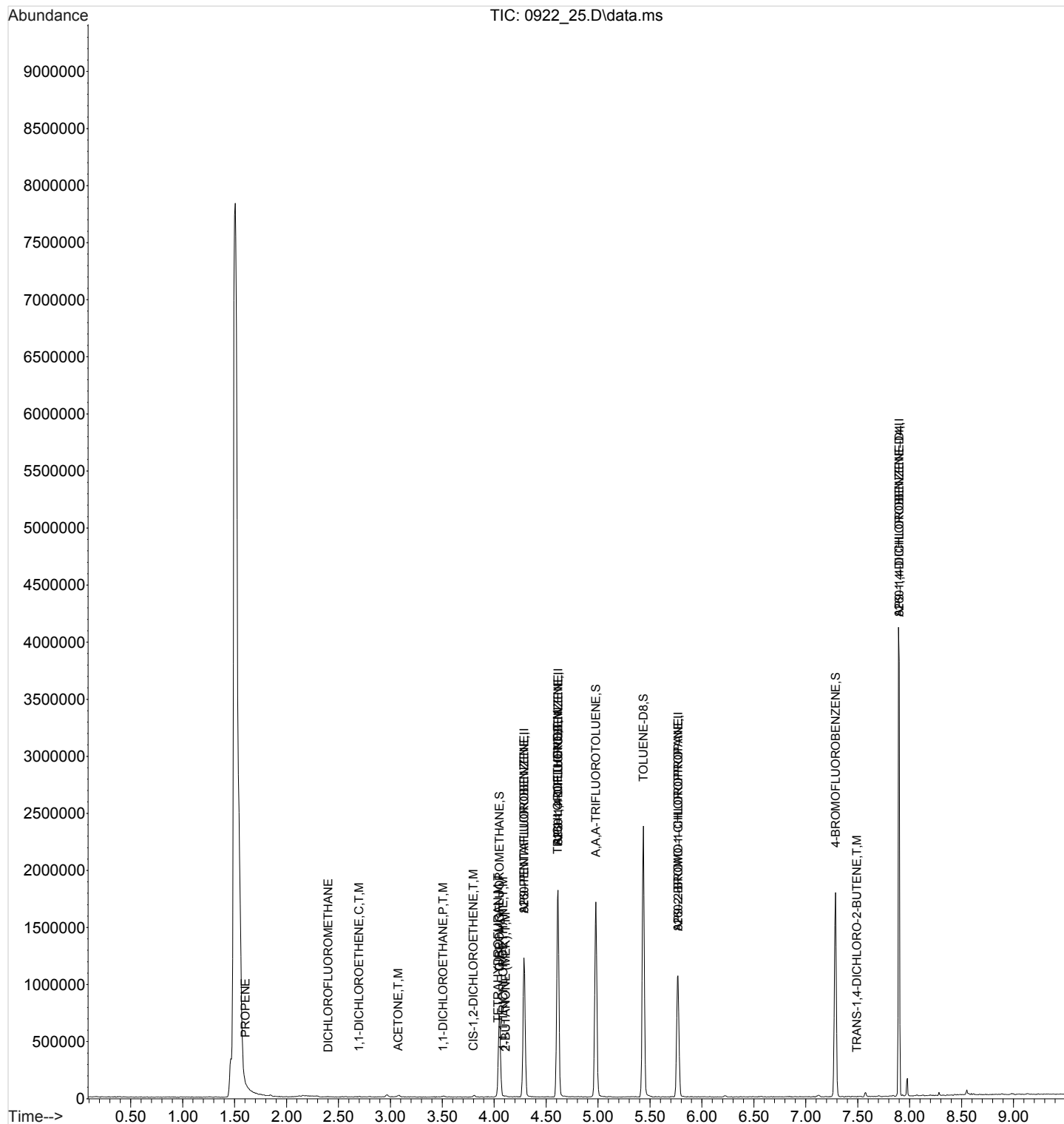
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.286	168	656971	40.00000000	ppb	0.00
48) 8260-1,4-DIFLUOROBENZENE	4.615	114	988589	40.00000000	ppb	0.00
55) 8260-2-BROMO-1-CHLOROP...	5.770	79	174534	40.00000000	ppb	0.00
73) 8260-1,4-DICHLOROBENZE...	7.900	152	542285	40.00000000	ppb	0.00
104) AP9-PENTAFLUOROBENZENE	4.286	168	658901	40.00000000	ppb	0.00
116) AP9-1,4-DIFLUOROBENZENE	4.615	114	988589	40.00000000	ppb	0.00
121) AP9-2-BROMO-1-CHLOROPR...	5.770	79	174534	40.00000000	ppb	0.00
125) AP9-1,4-DICHLOROBENZEN...	7.900	152	542285	40.00000000	ppb	0.00
System Monitoring Compounds						
38) DIBROMOFLUOROMETHANE	4.049	111	313720	40.6135522	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 101.53%			
54) A,A,A-TRIFLUOROTOLUENE	4.980	146	543825	41.5861827	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 103.97%			
59) TOLUENE-D8	5.436	98	1181667	41.0455138	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 102.61%			
77) 4-BROMOFLUOROBENZENE	7.285	95	443749	39.3986224	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 98.50%			
Target Compounds						
4) PROPENE	1.603	41	1595	0.2169839	ppb #	34
12) DICHLOROFLUOROMETHANE	2.400	67	2379	0.1939607	ug/l #	83
14) ACRROLEIN	2.923	56	363	Below Cal	#	34
15) 1,1-DICHLOROETHENE	2.698	96	1201	0.2129155	ppb #	71
17) ACETONE	3.075	43	14066	5.1179459	ppb	94
27) 1,1-DICHLOROETHANE	3.507	63	5120	0.3825138	ppb #	88
32) CIS-1,2-DICHLOROETHENE	3.799	96	3445	0.4401117	ppb	90
33) 2-BUTANONE (MEK)	4.110	43	4333	0.8051802	ppb	97
35) TETRAHYDROFURAN	4.037	42	811	0.2332035	ppb #	35
39) 1,1,1-TRICHLOROETHANE	4.085	97	2971	0.2692139	ppb	94
49) TRICHLOROETHENE	4.608	130	55433	7.7107383	ppb #	97
81) TRANS-1,4-DICHLORO-2-B...	7.492	53	558	0.1577036	ppb #	40

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

Data Path : \\VOCCOMPY\msdchem\1\data\092217\
Data File : 0922_25.D
Acq On : 22 Sep 2017 3:29 pm
Operator : 605
Sample : L937868-01 1x WG1023529
Misc : water
ALS Vial : 25 Sample Multiplier: 1
InstName : VOCMS13

Quant Time: Sep 24 11:06:13 2017
Quant Method : C:\msdchem\1\methods\V813I22Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
QLast Update : Fri Sep 22 10:59:34 2017
Response via : Initial Calibration



1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:

RMW-4

ESC Sample ID: L937868-02
Client Sample ID: RMW-4
Lab File ID: 0922_26
Instrument ID: VOCMS13
Analytical Batch: WG1023529
Dilution Factor: 1
Analytical Method: 8260C
Matrix: GW
Total Solids (%): _____

SDG: L937868
Collected Date/Time: 09/18/17 12:15
Received Date/Time: 09/20/17 08:45
Preparation Date/Time: 09/22/17 15:48
Analysis Date/Time: 09/22/17 15:48
Prep Method: 8260C
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>ug/l</i>	Qualifier	MDL <i>ug/l</i>	RDL <i>ug/l</i>
Acetone	67-64-1	3.08	ND		10.0	50.0
Benzene	71-43-2	4.29	ND	J3	0.331	1.00
Bromochloromethane	74-97-5	0	ND	J3	0.520	1.00
Bromodichloromethane	75-27-4	0	ND	J3	0.380	1.00
Bromoform	75-25-2	0	ND	J3	0.469	1.00
Bromomethane	74-83-9	0	ND	J3	0.866	5.00
Carbon disulfide	75-15-0	2.73	ND	J3	0.275	1.00
Carbon tetrachloride	56-23-5	0	ND	J3	0.379	1.00
Chlorobenzene	108-90-7	0	ND	J3	0.348	1.00
Chlorodibromomethane	124-48-1	0	ND	J3	0.327	1.00
Chloroethane	75-00-3	0	ND	J3	0.453	5.00
Chloroform	67-66-3	0	ND	J3	0.324	5.00
Chloromethane	74-87-3	0	ND	J3	0.276	2.50
Cyclohexane	110-82-7	3.93	ND		0.390	1.00
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND	J3	1.33	5.00
1,2-Dibromoethane	106-93-4	0	ND	J3	0.381	1.00
1,2-Dichlorobenzene	95-50-1	0	ND	J3	0.349	1.00
1,3-Dichlorobenzene	541-73-1	0	ND	J3	0.220	1.00
1,4-Dichlorobenzene	106-46-7	0	ND	J3	0.274	1.00
Dichlorodifluoromethane	75-71-8	0	ND		0.551	5.00
1,1-Dichloroethane	75-34-3	3.50	ND	J3	0.259	1.00
1,2-Dichloroethane	107-06-2	0	ND	J3	0.361	1.00
1,1-Dichloroethene	75-35-4	0	ND	J3	0.398	1.00
cis-1,2-Dichloroethene	156-59-2	3.81	ND	J3	0.260	1.00
trans-1,2-Dichloroethene	156-60-5	3.15	ND	J3	0.396	1.00
1,2-Dichloropropane	78-87-5	0	ND	J3	0.306	1.00
cis-1,3-Dichloropropene	10061-01-5	0	ND	J3	0.418	1.00
trans-1,3-Dichloropropene	10061-02-6	0	ND	J3	0.419	1.00
Ethylbenzene	100-41-4	6.46	ND	J3	0.384	1.00
2-Hexanone	591-78-6	0	ND	J3	3.82	10.0
Isopropylbenzene	98-82-8	7.07	ND	J3	0.326	1.00
2-Butanone (MEK)	78-93-3	4.12	ND		3.93	10.0
Methyl Acetate	79-20-9	0	ND	J3 J6	4.30	20.0
Methyl Cyclohexane	108-87-2	0	ND		0.380	1.00
Methylene Chloride	75-09-2	0	ND	J3	1.00	5.00
4-Methyl-2-pentanone (MIBK)	108-10-1	5.68	ND	J3	2.14	10.0
Methyl tert-butyl ether	1634-04-4	0	ND	J3	0.367	1.00
Naphthalene	91-20-3	8.62	15.4		1.00	5.00
Styrene	100-42-5	0	ND	J3	0.307	1.00
1,1,2,2-Tetrachloroethane	79-34-5	0	ND	J3	0.130	1.00
Tetrachloroethene	127-18-4	0	ND	J3	0.372	1.00
Toluene	108-88-3	5.47	ND	J3	0.412	1.00
1,2,3-Trichlorobenzene	87-61-6	0	ND	J3	0.230	1.00

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

ESC Sample ID:	L937868-02	SDG:	L937868
Client Sample ID:	RMW-4	Collected Date/Time:	09/18/17 12:15
Lab File ID:	0922_26	Received Date/Time:	09/20/17 08:45
Instrument ID:	VOCMS13	Preparation Date/Time:	09/22/17 15:48
Analytical Batch:	WG1023529	Analysis Date/Time:	09/22/17 15:48
Dilution Factor:	1	Prep Method:	8260C
Analytical Method:	8260C	Sample Vol Used:	5 mL
Matrix:	GW	Initial Wt/Vol:	
Total Solids (%):		Final Wt/Vol:	5 mL

Analyte	CAS	RT	Result <i>ug/l</i>	Qualifier	MDL <i>ug/l</i>	RDL <i>ug/l</i>
1,2,4-Trichlorobenzene	120-82-1	0	ND	J3	0.355	1.00
1,1,1-Trichloroethane	71-55-6	4.08	ND	J3	0.319	1.00
1,1,2-Trichloroethane	79-00-5	0	ND	J3	0.383	1.00
Trichloroethene	79-01-6	4.61	ND	J3	0.398	1.00
Trichlorofluoromethane	75-69-4	2.36	ND	J3	1.20	5.00
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		0.303	1.00
Vinyl chloride	75-01-4	0	ND	J3	0.259	1.00
o-Xylene	95-47-6	6.86	ND	J3	0.341	1.00
m&p-Xylenes	1330-20-7	6.56	ND	J3	0.719	2.00
n-Butylbenzene	104-51-8	0	ND	J3	0.361	1.00
sec-Butylbenzene	135-98-8	0	ND	J3	0.365	1.00
tert-Butylbenzene	98-06-6	0	ND	J3	0.399	1.00
1,2,4-Trimethylbenzene	95-63-6	7.70	ND	J3	0.373	1.00
1,3,5-Trimethylbenzene	108-67-8	7.47	ND	J3	0.387	1.00
n-Propylbenzene	103-65-1	0	ND	J3	0.349	1.00
p-Isopropyltoluene	99-87-6	0	ND	J3	0.350	1.00

Data Path : \\VOCCOMPY\msdchem\1\data\092217\
 Data File : 0922_26.D
 Acq On : 22 Sep 2017 3:48 pm
 Operator : 605
 Sample : L937868-02 1x WG1023529
 Misc : water
 ALS Vial : 26 Sample Multiplier: 1
 InstName : VOCMS13

Quant Time: Sep 24 11:07:23 2017

Quant Method : C:\msdchem\1\methods\V813I22Q.M

Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13

QLast Update : Fri Sep 22 10:59:34 2017

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.286	168	676157	40.00000000	ppb	0.00	
48) 8260-1,4-DIFLUOROBENZENE	4.615	114	1025373	40.00000000	ppb	0.00	
55) 8260-2-BROMO-1-CHLOROP...	5.770	79	181109	40.00000000	ppb	0.00	
73) 8260-1,4-DICHLOROBENZE...	7.900	152	557142	40.00000000	ppb	0.00	
104) AP9-PENTAFLUOROBENZENE	4.286	168	676157	40.00000000	ppb	0.00	
116) AP9-1,4-DIFLUOROBENZENE	4.615	114	1025373	40.00000000	ppb	0.00	
121) AP9-2-BROMO-1-CHLOROPR...	5.770	79	181109	40.00000000	ppb	0.00	
125) AP9-1,4-DICHLOROBENZEN...	7.900	152	557142	40.00000000	ppb	0.00	
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.049	111	319486	40.1864138	ppb	0.00	
Spiked Amount	40.000	Range 79 - 121	Recovery	= 100.47%			
54) A,A,A-TRIFLUOROTOLUENE	4.980	146	555279	40.9387930	ppb	0.00	
Spiked Amount	40.000	Range 90 - 116	Recovery	= 102.35%			
59) TOLUENE-D8	5.436	98	1203390	40.2825539	ppb	0.00	
Spiked Amount	40.000	Range 90 - 115	Recovery	= 100.71%			
77) 4-BROMOFLUOROBENZENE	7.285	95	459676	39.7243841	ppb	0.00	
Spiked Amount	40.000	Range 80 - 120	Recovery	= 99.31%			
Target Compounds						Qvalue	
4) PROPENE	1.621	41	16174	2.1378780	ppb #	53	
11) TRICHLOROFLUOROMETHANE	2.364	101	25723	2.4802381	ppb #	97	
12) DICHLOROFLUOROMETHANE	2.394	67	22742	1.8015510	ug/l	91	
13) ETHYL ETHER	2.558	59	4492	0.7274416	ppb	94	
14) ACROLEIN	2.911	56	576	Below Cal		85	
17) ACETONE	3.081	43	51130	18.0758829	ppb	98	
19) CARBON DISULFIDE	2.735	76	4645	0.2160949	ppb #	94	
24) n-HEXANE	3.203	56	1214	0.1818407	ppb #	1	
25) TRANS-1,2-DICHLOROETHENE	3.148	96	947	0.1343006	ppb	91	
27) 1,1-DICHLOROETHANE	3.501	63	3735	0.2711230	ppb #	80	
32) CIS-1,2-DICHLOROETHENE	3.811	96	1492	0.1852001	ppb	90	
33) 2-BUTANONE (MEK)	4.116	43	7557	1.3644337	ppb	95	
35) TETRAHYDROFURAN	4.049	42	2332	0.6515406	ppb #	79	
37) CYCLOHEXANE	3.933	84	2244	0.1913032	ppb #	67	
39) 1,1,1-TRICHLOROETHANE	4.079	97	1481	0.1303913	ppb #	70	
44) BENZENE	4.292	78	9854	0.3220756	ppb #	13	
47) T-AMYL ALCOHOL	4.402	59	747	0.4569164	ppb #	1	
49) TRICHLOROETHENE	4.608	130	2574	0.3451994	ppb #	97	
58) 4-METHYL-2-PENTANONE (...)	5.679	43	7888	0.6788184	ppb	94	
60) TOLUENE	5.466	91	23410	0.7264827	ppb	98	
70) ETHYLBENZENE	6.458	106	7997	0.6681427	ppb	95	
71) M&P-XYLENE	6.555	106	22698	1.5018786	ppb	100	
72) O-XYLENE	6.859	106	6565	0.4527479	ppb	91	
76) ISOPROPYLBENZENE	7.072	105	9322	0.2379812	ppb #	91	
81) TRANS-1,4-DICHLORO-2-B...	7.462	53	496	0.1364429	ppb #	70	
83) 4-ETHYLTOLUENE	7.407	105	8769	0.2297476	ppb	100	
86) 1,3,5-TRIMETHYLBENZENE	7.468	105	5004	0.1528442	ppb	91	
88) 1,2,4-TRIMETHYLBENZENE	7.705	105	13338	0.3901539	ppb	97	
94) 1,2,3-TRIMETHYLBENZENE	7.900	105	9268	0.2857919	ppb	99	
100) NAPHTHALENE	8.618	128	468972	15.3898327	ppb	99	
102) 1-METHYLNAPHTHALENE	8.989	142	28003	1.6811334	ppb	97	
103) 2-METHYLNAPHTHALENE	9.056	142	21339	1.5491129	ppb	96	

Data Path : \\VOCCOMPY\msdchem\1\data\092217\
Data File : 0922_26.D
Acq On : 22 Sep 2017 3:48 pm
Operator : 605
Sample : L937868-02 1x WG1023529
Misc : water
ALS Vial : 26 Sample Multiplier: 1
InstName : VOCMS13

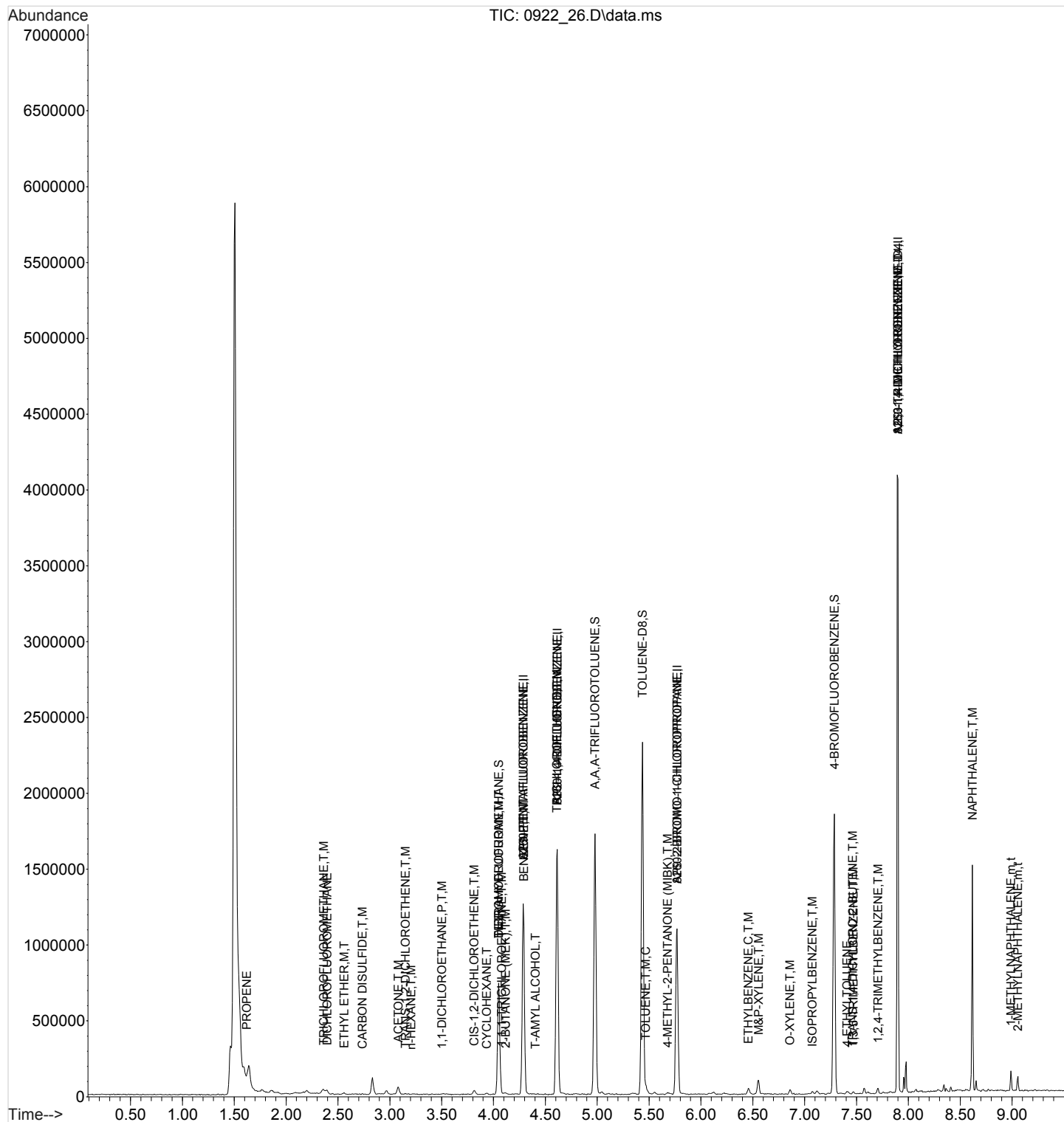
Quant Time: Sep 24 11:07:23 2017
Quant Method : C:\msdchem\1\methods\V813I22Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
QLast Update : Fri Sep 22 10:59:34 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : \\VOCCOMPY\msdchem\1\data\092217\
Data File : 0922_26.D
Acq On : 22 Sep 2017 3:48 pm
Operator : 605
Sample : L937868-02 1x WG1023529
Misc : water
ALS Vial : 26 Sample Multiplier: 1
InstName : VOCMS13

Quant Time: Sep 24 11:07:23 2017
Quant Method : C:\msdchem\1\methods\V813I22Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
QLast Update : Fri Sep 22 10:59:34 2017
Response via : Initial Calibration



1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:

WELL-09

ESC Sample ID: L937868-03
Client Sample ID: WELL-09
Lab File ID: 0922_27
Instrument ID: VOCMS13
Analytical Batch: WG1023529
Dilution Factor: 1
Analytical Method: 8260C
Matrix: GW
Total Solids (%): _____

SDG: L937868
Collected Date/Time: 09/18/17 15:55
Received Date/Time: 09/20/17 08:45
Preparation Date/Time: 09/22/17 16:08
Analysis Date/Time: 09/22/17 16:08
Prep Method: 8260C
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>ug/l</i>	Qualifier	MDL <i>ug/l</i>	RDL <i>ug/l</i>
Acetone	67-64-1	3.08	ND		10.0	50.0
Benzene	71-43-2	0	ND		0.331	1.00
Bromochloromethane	74-97-5	0	ND		0.520	1.00
Bromodichloromethane	75-27-4	0	ND		0.380	1.00
Bromoform	75-25-2	0	ND		0.469	1.00
Bromomethane	74-83-9	0	ND		0.866	5.00
Carbon disulfide	75-15-0	0	ND		0.275	1.00
Carbon tetrachloride	56-23-5	0	ND		0.379	1.00
Chlorobenzene	108-90-7	0	ND		0.348	1.00
Chlorodibromomethane	124-48-1	0	ND		0.327	1.00
Chloroethane	75-00-3	2.27	ND		0.453	5.00
Chloroform	67-66-3	0	ND		0.324	5.00
Chloromethane	74-87-3	0	ND		0.276	2.50
Cyclohexane	110-82-7	0	ND		0.390	1.00
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND		1.33	5.00
1,2-Dibromoethane	106-93-4	0	ND		0.381	1.00
1,2-Dichlorobenzene	95-50-1	0	ND		0.349	1.00
1,3-Dichlorobenzene	541-73-1	0	ND		0.220	1.00
1,4-Dichlorobenzene	106-46-7	0	ND		0.274	1.00
Dichlorodifluoromethane	75-71-8	0	ND		0.551	5.00
1,1-Dichloroethane	75-34-3	3.51	9.06		0.259	1.00
1,2-Dichloroethane	107-06-2	0	ND		0.361	1.00
1,1-Dichloroethene	75-35-4	2.70	3.00		0.398	1.00
cis-1,2-Dichloroethene	156-59-2	0	ND		0.260	1.00
trans-1,2-Dichloroethene	156-60-5	0	ND		0.396	1.00
1,2-Dichloropropane	78-87-5	0	ND		0.306	1.00
cis-1,3-Dichloropropene	10061-01-5	0	ND		0.418	1.00
trans-1,3-Dichloropropene	10061-02-6	0	ND		0.419	1.00
Ethylbenzene	100-41-4	0	ND		0.384	1.00
2-Hexanone	591-78-6	0	ND		3.82	10.0
Isopropylbenzene	98-82-8	0	ND		0.326	1.00
2-Butanone (MEK)	78-93-3	4.11	ND		3.93	10.0
Methyl Acetate	79-20-9	0	ND		4.30	20.0
Methyl Cyclohexane	108-87-2	0	ND		0.380	1.00
Methylene Chloride	75-09-2	0	ND		1.00	5.00
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		2.14	10.0
Methyl tert-butyl ether	1634-04-4	0	ND		0.367	1.00
Naphthalene	91-20-3	8.62	ND		1.00	5.00
Styrene	100-42-5	0	ND		0.307	1.00
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		0.130	1.00
Tetrachloroethene	127-18-4	5.72	ND		0.372	1.00
Toluene	108-88-3	0	ND		0.412	1.00
1,2,3-Trichlorobenzene	87-61-6	0	ND		0.230	1.00

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

ESC Sample ID: L937868-03
Client Sample ID: WELL-09
Lab File ID: 0922_27
Instrument ID: VOCMS13
Analytical Batch: WG1023529
Dilution Factor: 1
Analytical Method: 8260C
Matrix: GW
Total Solids (%): _____

SDG: L937868
Collected Date/Time: 09/18/17 15:55
Received Date/Time: 09/20/17 08:45
Preparation Date/Time: 09/22/17 16:08
Analysis Date/Time: 09/22/17 16:08
Prep Method: 8260C
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>ug/l</i>	Qualifier	MDL <i>ug/l</i>	RDL <i>ug/l</i>
1,2,4-Trichlorobenzene	120-82-1	0	ND		0.355	1.00
1,1,1-Trichloroethane	71-55-6	4.09	ND		0.319	1.00
1,1,2-Trichloroethane	79-00-5	0	ND		0.383	1.00
Trichloroethene	79-01-6	4.61	ND		0.398	1.00
Trichlorofluoromethane	75-69-4	0	ND		1.20	5.00
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		0.303	1.00
Vinyl chloride	75-01-4	0	ND		0.259	1.00
o-Xylene	95-47-6	0	ND		0.341	1.00
m&p-Xylenes	1330-20-7	0	ND		0.719	2.00
n-Butylbenzene	104-51-8	0	ND		0.361	1.00
sec-Butylbenzene	135-98-8	0	ND		0.365	1.00
tert-Butylbenzene	98-06-6	0	ND		0.399	1.00
1,2,4-Trimethylbenzene	95-63-6	0	ND		0.373	1.00
1,3,5-Trimethylbenzene	108-67-8	0	ND		0.387	1.00
n-Propylbenzene	103-65-1	0	ND		0.349	1.00
p-Isopropyltoluene	99-87-6	0	ND		0.350	1.00

Data Path : \\VOCCOMPY\msdchem\1\data\092217\
 Data File : 0922_27.D
 Acq On : 22 Sep 2017 4:08 pm
 Operator : 605
 Sample : L937868-03 1x WG1023529
 Misc : water
 ALS Vial : 27 Sample Multiplier: 1
 InstName : VOCMS13

Quant Time: Sep 24 11:07:57 2017

Quant Method : C:\msdchem\1\methods\V813I22Q.M

Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13

QLast Update : Fri Sep 22 10:59:34 2017

Response via : Initial Calibration

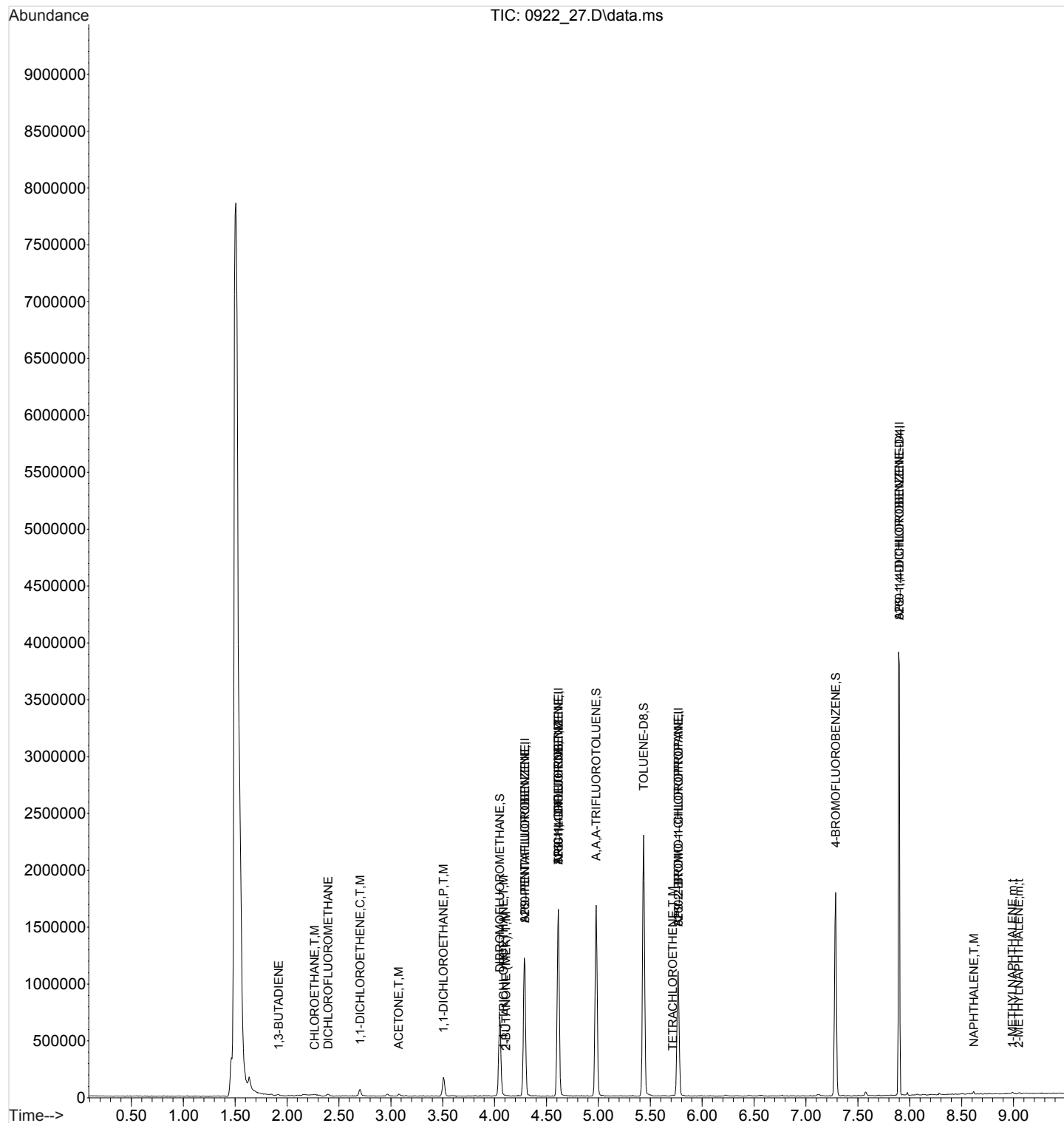
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.292	168	658736	40.00000000	ppb	0.00
48) 8260-1,4-DIFLUOROBENZENE	4.615	114	979806	40.00000000	ppb	0.00
55) 8260-2-BROMO-1-CHLOROP...	5.771	79	170893	40.00000000	ppb	0.00
73) 8260-1,4-DICHLOROBENZE...	7.900	152	523693	40.00000000	ppb	0.00
104) AP9-PENTAFLUOROBENZENE	4.292	168	658736	40.00000000	ppb	0.00
116) AP9-1,4-DIFLUOROBENZENE	4.615	114	979806	40.00000000	ppb	0.00
121) AP9-2-BROMO-1-CHLOROPR...	5.771	79	170893	40.00000000	ppb	0.00
125) AP9-1,4-DICHLOROBENZEN...	7.900	152	523693	40.00000000	ppb	0.00
System Monitoring Compounds						
38) DIBROMOFLUOROMETHANE	4.049	111	311926	40.2731080	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 100.68%			
54) A,A,A-TRIFLUOROTOLUENE	4.980	146	532558	41.0896537	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 102.72%			
59) TOLUENE-D8	5.436	98	1175186	41.6901029	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 104.23%			
77) 4-BROMOFLUOROBENZENE	7.285	95	429549	39.4918233	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 98.73%			
Target Compounds						
8) 1,3-BUTADIENE	1.920	39	1204	0.1554934	ppb #	4
10) CHLOROETHANE	2.266	64	3213	0.6045430	ppb #	51
12) DICHLOROFLUOROMETHANE	2.394	67	14161	1.1514577	ug/l #	87
14) ACROLEIN	2.905	56	444	Below Cal	#	76
15) 1,1-DICHLOROETHENE	2.704	96	16978	3.0018272	ppb	98
17) ACETONE	3.075	43	16139	5.8564778	ppb	92
27) 1,1-DICHLOROETHANE	3.507	63	121647	9.0638624	ppb	99
33) 2-BUTANONE (MEK)	4.110	43	3227	0.5980509	ppb	94
39) 1,1,1-TRICHLOROETHANE	4.085	97	3692	0.3336501	ppb #	85
49) TRICHLOROETHENE	4.615	130	6956	0.9762540	ppb #	49
63) TETRACHLOROETHENE	5.716	164	1149	0.1877076	ppb #	80
100) NAPHTHALENE	8.618	128	6325	0.2208191	ppb #	86
102) 1-METHYLNAPHTHALENE	8.989	142	2460	0.1571165	ppb #	83
103) 2-METHYLNAPHTHALENE	9.050	142	2009	0.1551594	ppb #	66

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

Data Path : \\VOCCOMPY\msdchem\1\data\092217\
Data File : 0922_27.D
Acq On : 22 Sep 2017 4:08 pm
Operator : 605
Sample : L937868-03 1x WG1023529
Misc : water
ALS Vial : 27 Sample Multiplier: 1
InstName : VOCMS13

Quant Time: Sep 24 11:07:57 2017
Quant Method : C:\msdchem\1\methods\V813I22Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
QLast Update : Fri Sep 22 10:59:34 2017
Response via : Initial Calibration



1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:

RMW-3

ESC Sample ID: L937868-04
Client Sample ID: RMW-3
Lab File ID: 0922_28
Instrument ID: VOCMS13
Analytical Batch: WG1023529
Dilution Factor: 1
Analytical Method: 8260C
Matrix: GW
Total Solids (%): _____

SDG: L937868
Collected Date/Time: 09/18/17 14:30
Received Date/Time: 09/20/17 08:45
Preparation Date/Time: 09/22/17 16:27
Analysis Date/Time: 09/22/17 16:27
Prep Method: 8260C
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>ug/l</i>	Qualifier	MDL <i>ug/l</i>	RDL <i>ug/l</i>
Acetone	67-64-1	3.08	ND		10.0	50.0
Benzene	71-43-2	0	ND		0.331	1.00
Bromochloromethane	74-97-5	0	ND		0.520	1.00
Bromodichloromethane	75-27-4	0	ND		0.380	1.00
Bromoform	75-25-2	0	ND		0.469	1.00
Bromomethane	74-83-9	0	ND		0.866	5.00
Carbon disulfide	75-15-0	0	ND		0.275	1.00
Carbon tetrachloride	56-23-5	0	ND		0.379	1.00
Chlorobenzene	108-90-7	0	ND		0.348	1.00
Chlorodibromomethane	124-48-1	0	ND		0.327	1.00
Chloroethane	75-00-3	0	ND		0.453	5.00
Chloroform	67-66-3	0	ND		0.324	5.00
Chloromethane	74-87-3	0	ND		0.276	2.50
Cyclohexane	110-82-7	0	ND		0.390	1.00
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND		1.33	5.00
1,2-Dibromoethane	106-93-4	0	ND		0.381	1.00
1,2-Dichlorobenzene	95-50-1	0	ND		0.349	1.00
1,3-Dichlorobenzene	541-73-1	0	ND		0.220	1.00
1,4-Dichlorobenzene	106-46-7	0	ND		0.274	1.00
Dichlorodifluoromethane	75-71-8	0	ND		0.551	5.00
1,1-Dichloroethane	75-34-3	3.51	ND		0.259	1.00
1,2-Dichloroethane	107-06-2	0	ND		0.361	1.00
1,1-Dichloroethene	75-35-4	2.70	ND		0.398	1.00
cis-1,2-Dichloroethene	156-59-2	3.81	ND		0.260	1.00
trans-1,2-Dichloroethene	156-60-5	0	ND		0.396	1.00
1,2-Dichloropropane	78-87-5	0	ND		0.306	1.00
cis-1,3-Dichloropropene	10061-01-5	0	ND		0.418	1.00
trans-1,3-Dichloropropene	10061-02-6	0	ND		0.419	1.00
Ethylbenzene	100-41-4	0	ND		0.384	1.00
2-Hexanone	591-78-6	0	ND		3.82	10.0
Isopropylbenzene	98-82-8	0	ND		0.326	1.00
2-Butanone (MEK)	78-93-3	4.11	ND		3.93	10.0
Methyl Acetate	79-20-9	0	ND		4.30	20.0
Methyl Cyclohexane	108-87-2	0	ND		0.380	1.00
Methylene Chloride	75-09-2	0	ND		1.00	5.00
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		2.14	10.0
Methyl tert-butyl ether	1634-04-4	0	ND		0.367	1.00
Naphthalene	91-20-3	0	ND		1.00	5.00
Styrene	100-42-5	0	ND		0.307	1.00
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		0.130	1.00
Tetrachloroethene	127-18-4	0	ND		0.372	1.00
Toluene	108-88-3	0	ND		0.412	1.00
1,2,3-Trichlorobenzene	87-61-6	0	ND		0.230	1.00

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

ESC Sample ID:	L937868-04	SDG:	L937868
Client Sample ID:	RMW-3	Collected Date/Time:	09/18/17 14:30
Lab File ID:	0922_28	Received Date/Time:	09/20/17 08:45
Instrument ID:	VOCMS13	Preparation Date/Time:	09/22/17 16:27
Analytical Batch:	WG1023529	Analysis Date/Time:	09/22/17 16:27
Dilution Factor:	1	Prep Method:	8260C
Analytical Method:	8260C	Sample Vol Used:	5 mL
Matrix:	GW	Initial Wt/Vol:	
Total Solids (%):		Final Wt/Vol:	5 mL

Analyte	CAS	RT	Result <i>ug/l</i>	Qualifier	MDL <i>ug/l</i>	RDL <i>ug/l</i>
1,2,4-Trichlorobenzene	120-82-1	0	ND		0.355	1.00
1,1,1-Trichloroethane	71-55-6	4.09	ND		0.319	1.00
1,1,2-Trichloroethane	79-00-5	0	ND		0.383	1.00
Trichloroethene	79-01-6	4.61	7.88		0.398	1.00
Trichlorofluoromethane	75-69-4	0	ND		1.20	5.00
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		0.303	1.00
Vinyl chloride	75-01-4	0	ND		0.259	1.00
o-Xylene	95-47-6	0	ND		0.341	1.00
m&p-Xylenes	1330-20-7	0	ND		0.719	2.00
n-Butylbenzene	104-51-8	0	ND		0.361	1.00
sec-Butylbenzene	135-98-8	0	ND		0.365	1.00
tert-Butylbenzene	98-06-6	0	ND		0.399	1.00
1,2,4-Trimethylbenzene	95-63-6	0	ND		0.373	1.00
1,3,5-Trimethylbenzene	108-67-8	0	ND		0.387	1.00
n-Propylbenzene	103-65-1	0	ND		0.349	1.00
p-Isopropyltoluene	99-87-6	0	ND		0.350	1.00

Data Path : \\VOCCOMPY\msdchem\1\data\092217\
 Data File : 0922_28.D
 Acq On : 22 Sep 2017 4:27 pm
 Operator : 605
 Sample : L937868-04 1x WG1023529
 Misc : water
 ALS Vial : 28 Sample Multiplier: 1
 InstName : VOCMS13

Quant Time: Sep 24 11:08:46 2017

Quant Method : C:\msdchem\1\methods\V813I22Q.M

Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13

QLast Update : Fri Sep 22 10:59:34 2017

Response via : Initial Calibration

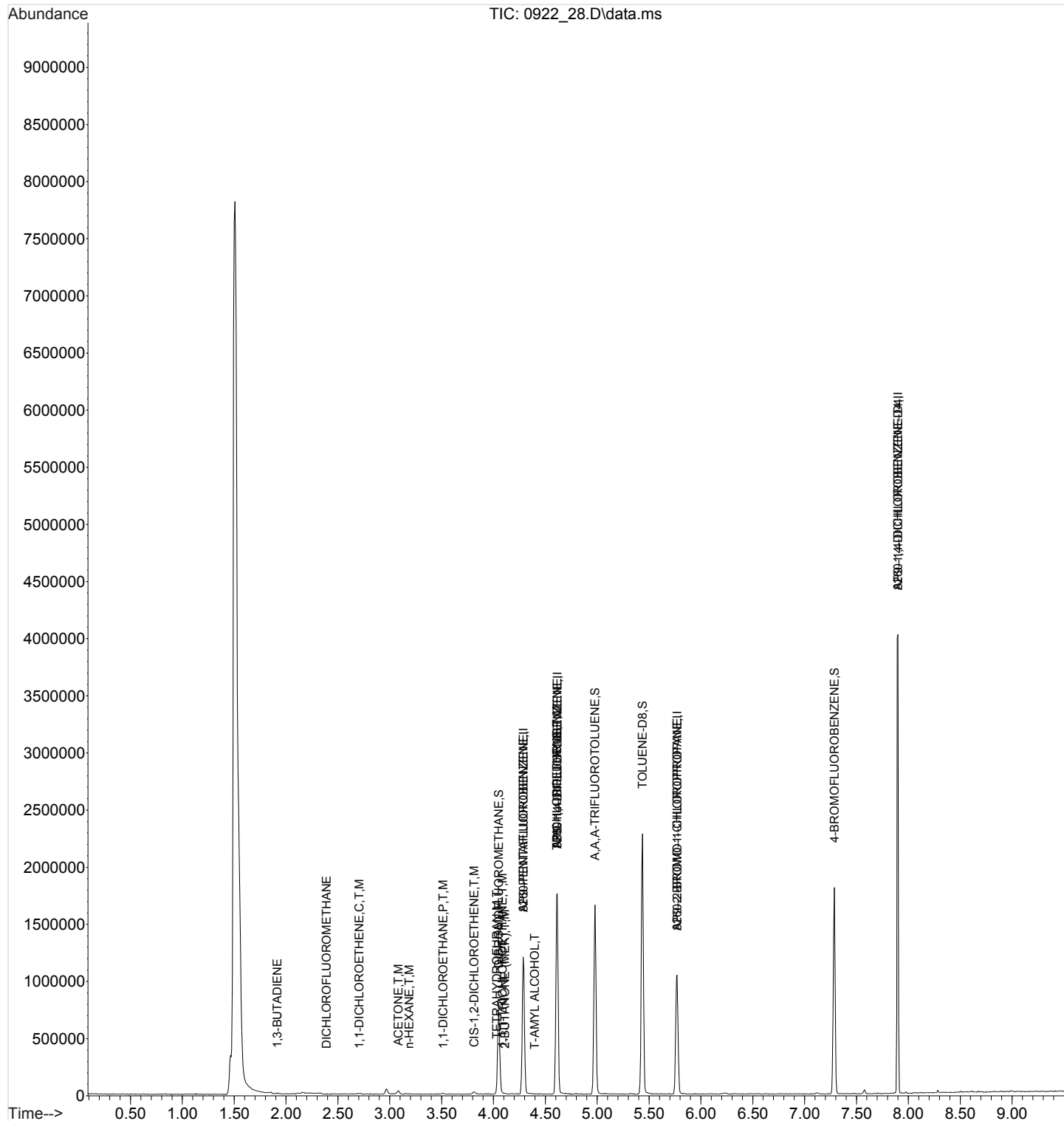
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.286	168	640814	40.00000000	ppb	0.00	
48) 8260-1,4-DIFLUOROBENZENE	4.615	114	968245	40.00000000	ppb	0.00	
55) 8260-2-BROMO-1-CHLOROP...	5.771	79	174397	40.00000000	ppb	0.00	
73) 8260-1,4-DICHLOROBENZE...	7.900	152	545640	40.00000000	ppb	0.00	
104) AP9-PENTAFLUOROBENZENE	4.286	168	642870	40.00000000	ppb	0.00	
116) AP9-1,4-DIFLUOROBENZENE	4.615	114	968245	40.00000000	ppb	0.00	
121) AP9-2-BROMO-1-CHLOROPR...	5.771	79	174397	40.00000000	ppb	0.00	
125) AP9-1,4-DICHLOROBENZEN...	7.900	152	545640	40.00000000	ppb	0.00	
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.049	111	314307	41.7154594	ppb	0.00	
Spiked Amount	40.000	Range 79 - 121	Recovery	= 104.29%			
54) A,A,A-TRIFLUOROTOLUENE	4.980	146	514008	40.1319515	ppb	0.00	
Spiked Amount	40.000	Range 90 - 116	Recovery	= 100.33%			
59) TOLUENE-D8	5.436	98	1154703	40.1404203	ppb	0.00	
Spiked Amount	40.000	Range 90 - 115	Recovery	= 100.35%			
77) 4-BROMOFLUOROBENZENE	7.285	95	437770	38.6287840	ppb	0.00	
Spiked Amount	40.000	Range 80 - 120	Recovery	= 96.57%			
Target Compounds						Qvalue	
8) 1,3-BUTADIENE	1.914	39	983	0.1305024	ppb #	4	
12) DICHLOROFLUOROMETHANE	2.388	67	2465	0.2060395	ug/l #	85	
14) ACRROLEIN	2.899	56	304	Below Cal	#	1	
15) 1,1-DICHLOROETHENE	2.704	96	1256	0.2282802	ppb #	63	
17) ACETONE	3.082	43	27867	10.3951199	ppb	97	
24) n-HEXANE	3.185	56	1263	0.1996142	ppb #	21	
27) 1,1-DICHLOROETHANE	3.514	63	5699	0.4365057	ppb	97	
32) CIS-1,2-DICHLOROETHENE	3.812	96	4237	0.5549404	ppb #	87	
33) 2-BUTANONE (MEK)	4.110	43	4251	0.8098595	ppb	94	
35) TETRAHYDROFURAN	4.031	42	494	0.1456315	ppb #	1	
39) 1,1,1-TRICHLOROETHANE	4.085	97	2672	0.2482250	ppb #	79	
47) T-AMYL ALCOHOL	4.396	59	370	0.2387995	ppb #	1	
49) TRICHLOROETHENE	4.609	130	55498	7.8819817	ppb #	100	

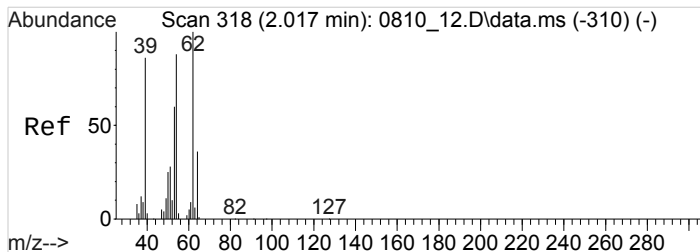
(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

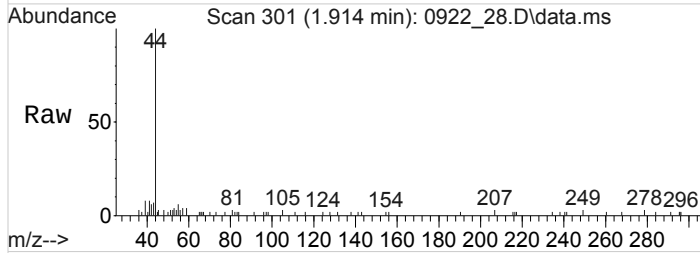
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Data File : 0922_28.D  
Acq On    : 22 Sep 2017    4:27 pm  
Operator  : 605  
Sample    : L937868-04 1x WG1023529  
Misc      : water  
ALS Vial  : 28      Sample Multiplier: 1  
InstName  : VOCMS13
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Quant Time: Sep 24 11:08:46 2017
Quant Method : C:\msdchem\1\methods\V813I22Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
QLast Update : Fri Sep 22 10:59:34 2017
Response via : Initial Calibration

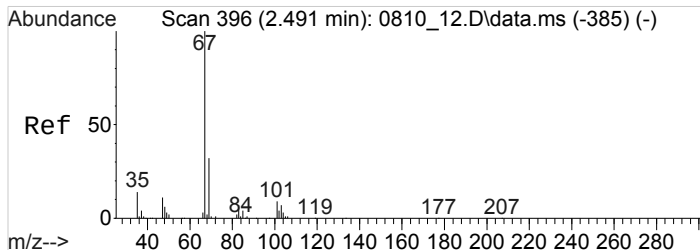
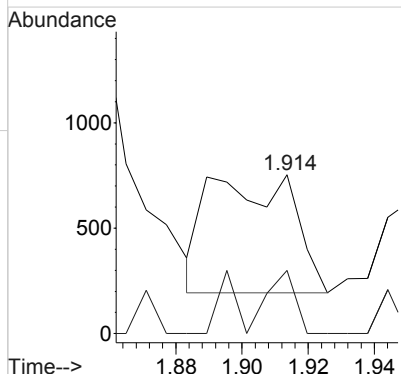
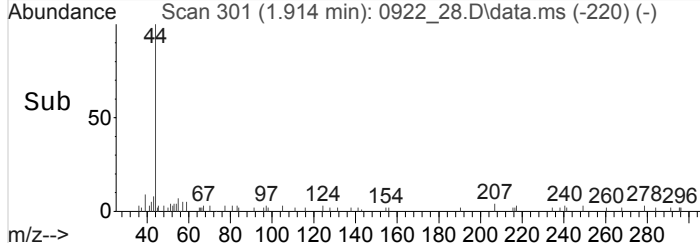




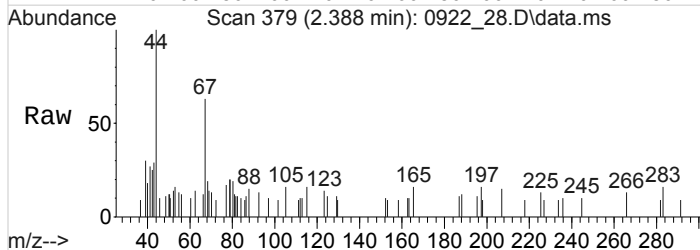
#8
 1,3-BUTADIENE
 Concen: 0.1305024 ppb
 RT: 1.914 min Scan# 301
 Delta R.T. -0.005 min
 Lab File: 0922_28.D
 Acq: 22 Sep 2017 4:27 pm



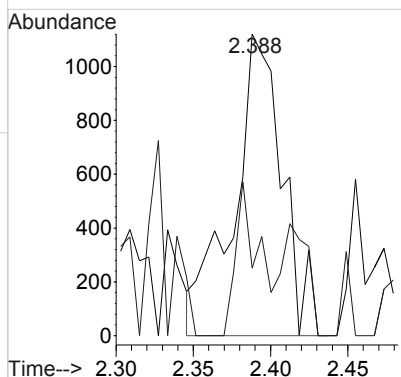
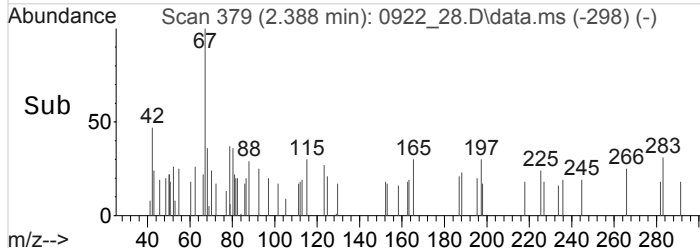
Tgt Ion: 39 Resp: 983
 Ion Ratio Lower Upper
 39 100
 54 0.0 72.4 108.6#

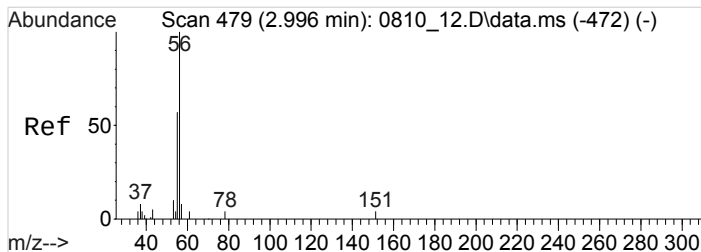


#12
 DICHLOROFLUOROMETHANE
 Concen: 0.2060395 ug/l
 RT: 2.388 min Scan# 379
 Delta R.T. -0.006 min
 Lab File: 0922_28.D
 Acq: 22 Sep 2017 4:27 pm



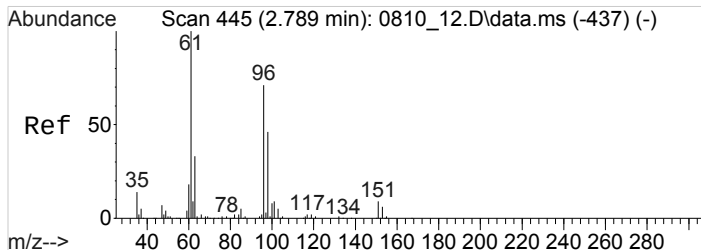
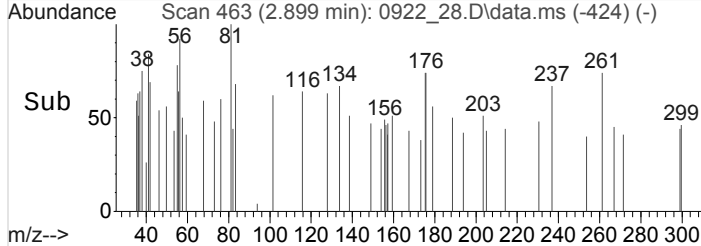
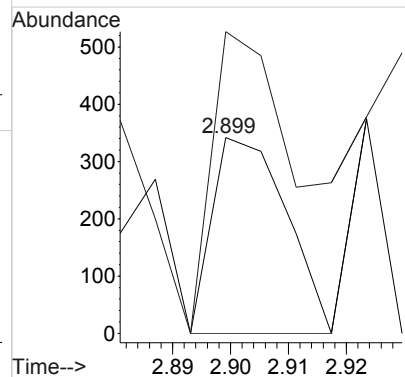
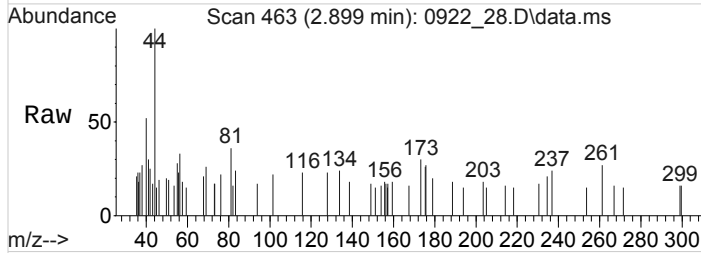
Tgt Ion: 67 Resp: 2465
 Ion Ratio Lower Upper
 67 100
 69 23.5 25.5 38.3#





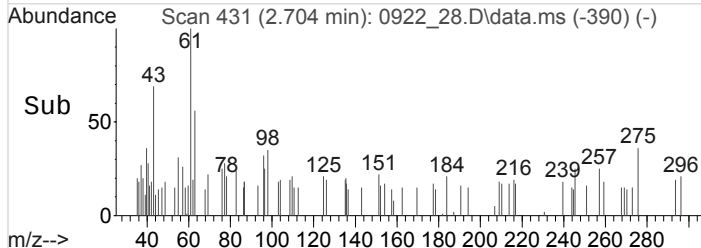
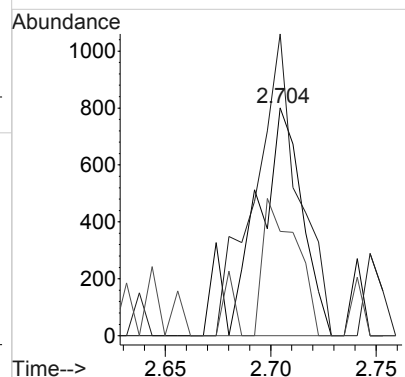
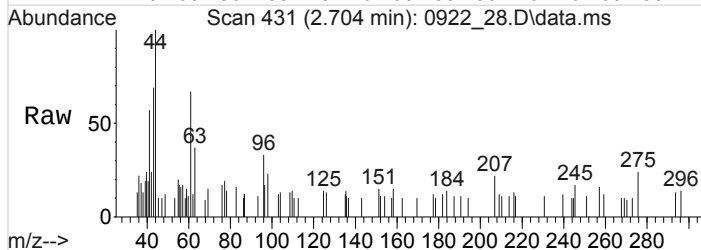
#14
ACROLEIN
Concen: Below Cal
RT: 2.899 min Scan# 463
Delta R.T. -0.012 min
Lab File: 0922_28.D
Acq: 22 Sep 2017 4:27 pm

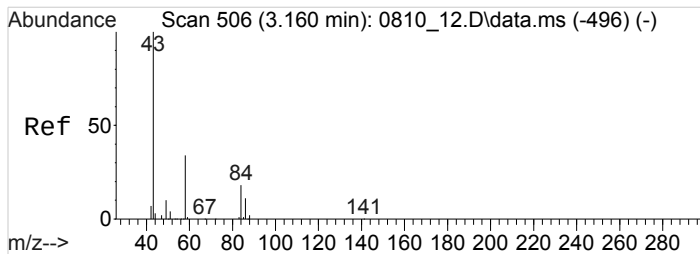
Tgt Ion: 56 Resp: 304
Ion Ratio Lower Upper
56 100
55 152.0 55.5 83.3#



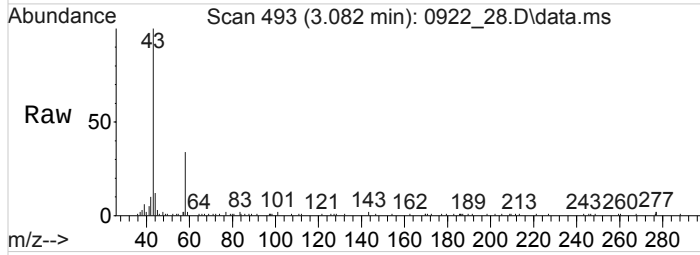
#15
1,1-DICHLOROETHENE
Concen: 0.2282802 ppb
RT: 2.704 min Scan# 431
Delta R.T. 0.000 min
Lab File: 0922_28.D
Acq: 22 Sep 2017 4:27 pm

Tgt Ion: 96 Resp: 1256
Ion Ratio Lower Upper
96 100
61 122.4 142.8 214.2#
98 42.7 51.4 77.2#

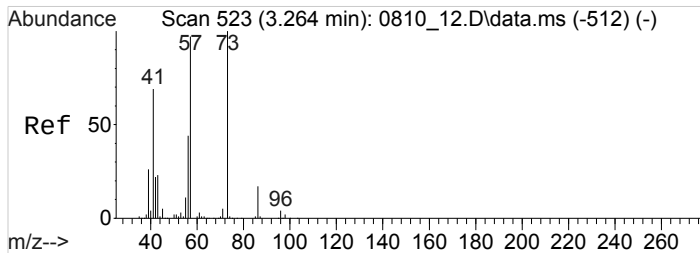
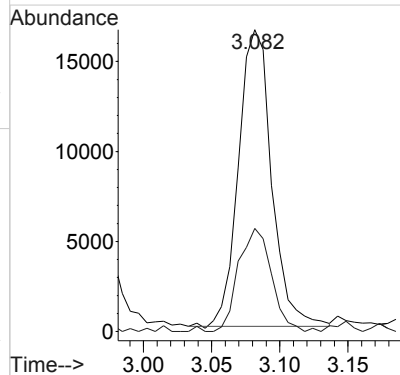
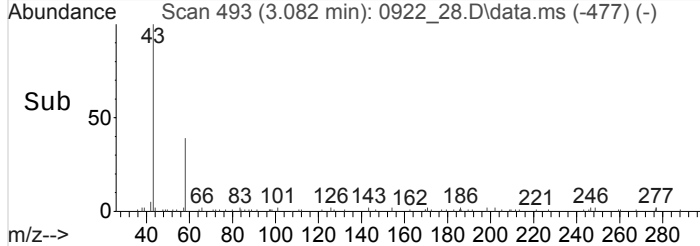




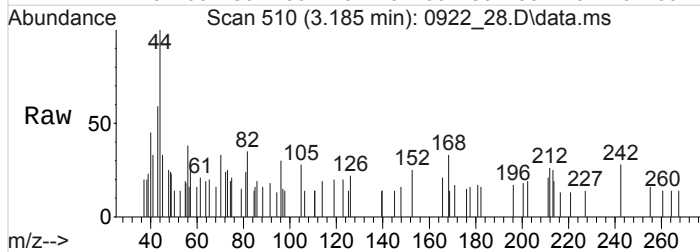
#17
 ACETONE
 Concen: 10.3951199 ppb
 RT: 3.082 min Scan# 493
 Delta R.T. 0.001 min
 Lab File: 0922_28.D
 Acq: 22 Sep 2017 4:27 pm



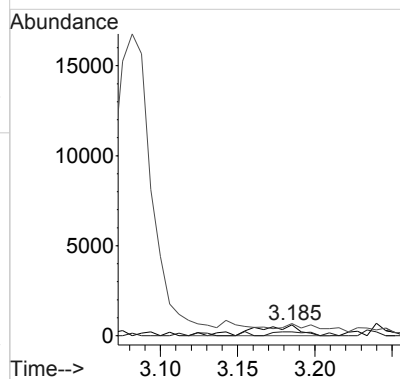
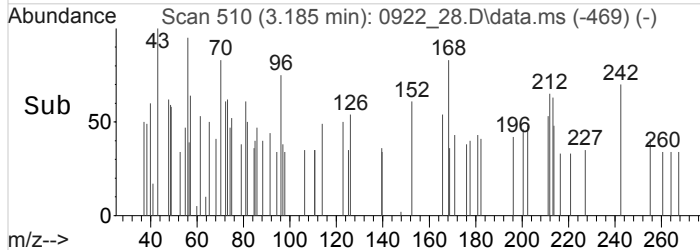
Tgt Ion: 43 Resp: 27867
 Ion Ratio Lower Upper
 43 100
 58 34.3 25.9 38.9

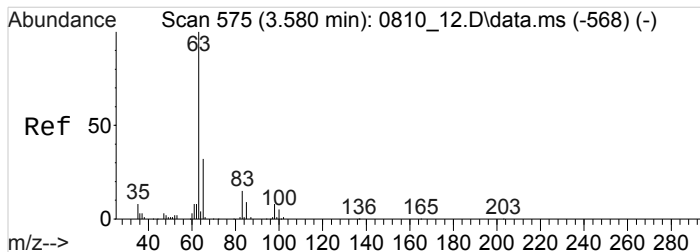


#24
 n-HEXANE
 Concen: 0.1996142 ppb
 RT: 3.185 min Scan# 510
 Delta R.T. 0.001 min
 Lab File: 0922_28.D
 Acq: 22 Sep 2017 4:27 pm

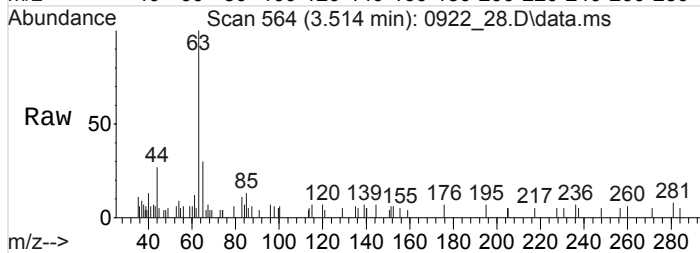


Tgt Ion: 56 Resp: 1263
 Ion Ratio Lower Upper
 56 100
 86 33.2 25.0 37.6
 43 60.0 156.2 234.2#

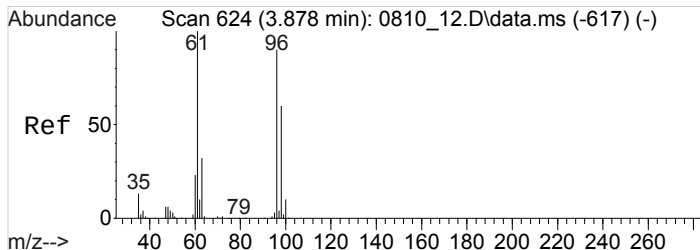
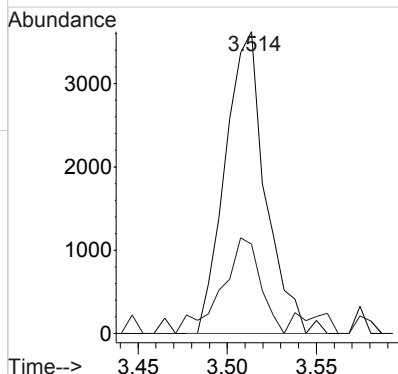
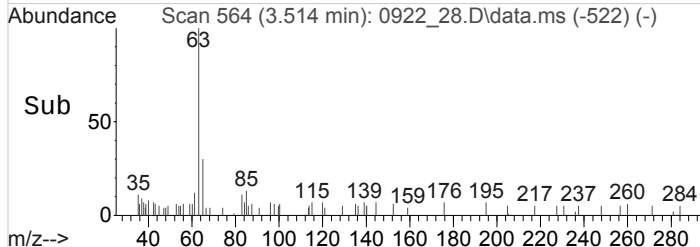




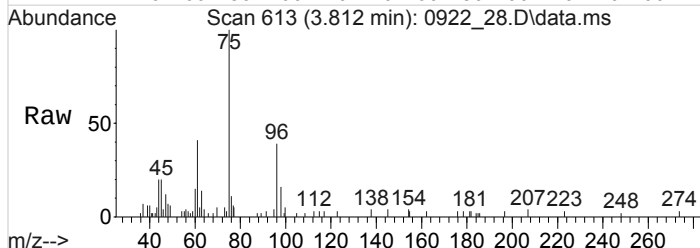
#27
 1,1-DICHLOROETHANE
 Concen: 0.4365057 ppb
 RT: 3.514 min Scan# 564
 Delta R.T. 0.007 min
 Lab File: 0922_28.D
 Acq: 22 Sep 2017 4:27 pm



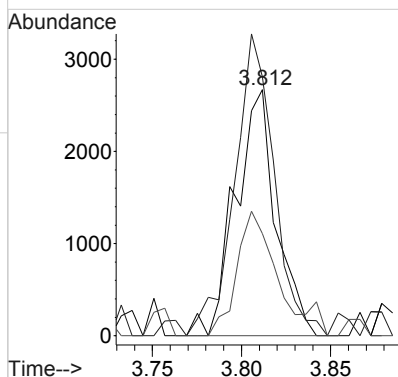
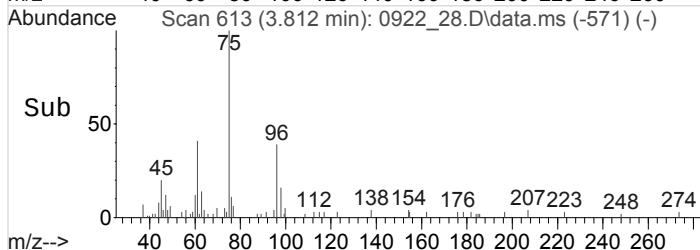
Tgt Ion: 63 Resp: 5699
 Ion Ratio Lower Upper
 63 100
 65 30.4 25.6 38.4

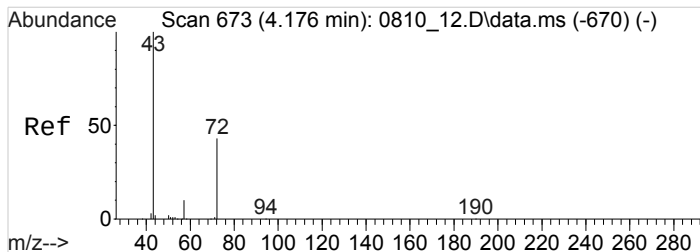


#32
 CIS-1,2-DICHLOROETHENE
 Concen: 0.5549404 ppb
 RT: 3.812 min Scan# 613
 Delta R.T. 0.007 min
 Lab File: 0922_28.D
 Acq: 22 Sep 2017 4:27 pm

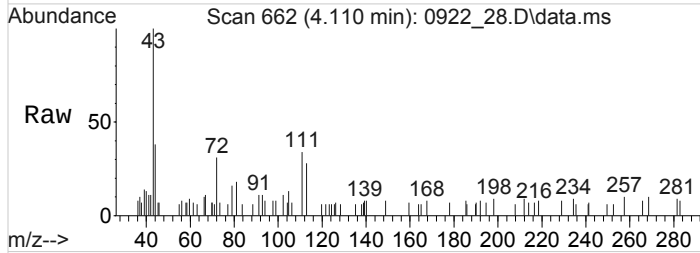


Tgt Ion: 96 Resp: 4237
 Ion Ratio Lower Upper
 96 100
 61 122.4 108.2 162.2
 98 51.2 51.9 77.9#

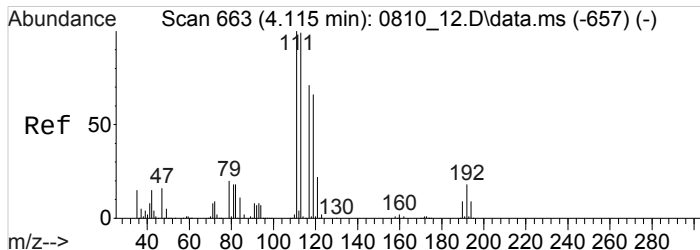
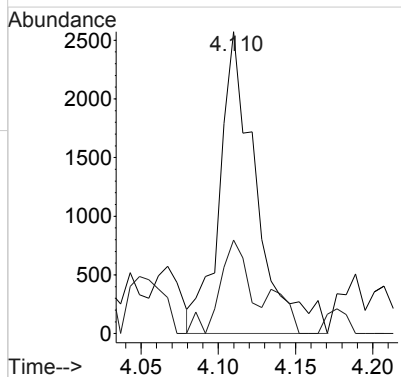
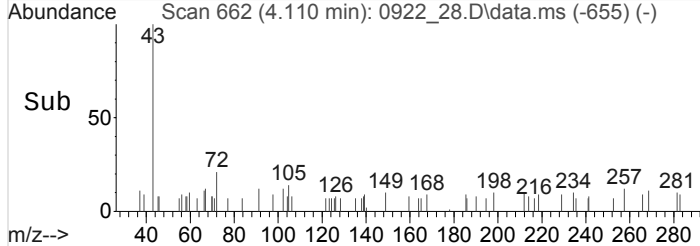




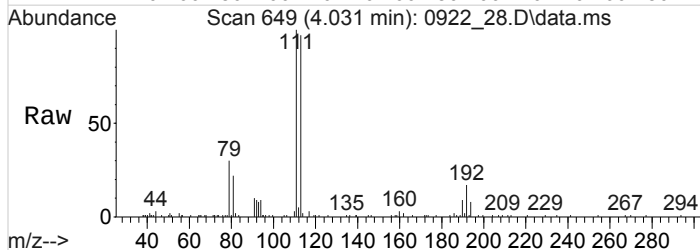
#33
2-BUTANONE (MEK)
Concen: 0.8098595 ppb
RT: 4.110 min Scan# 662
Delta R.T. 0.001 min
Lab File: 0922_28.D
Acq: 22 Sep 2017 4:27 pm



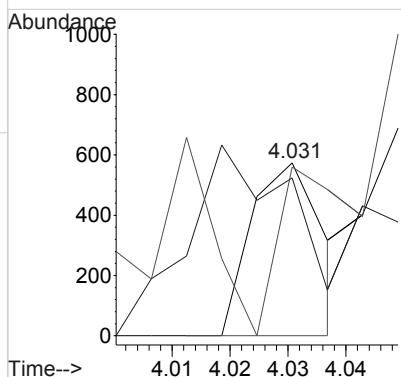
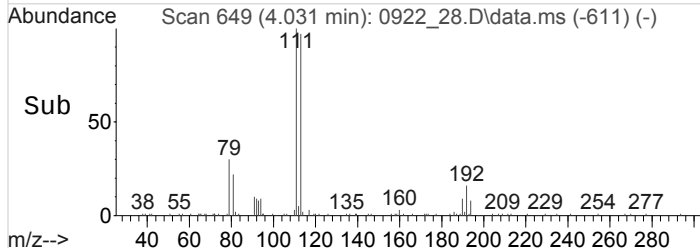
Tgt Ion: 43 Resp: 4251
Ion Ratio Lower Upper
43 100
72 24.8 22.2 33.2

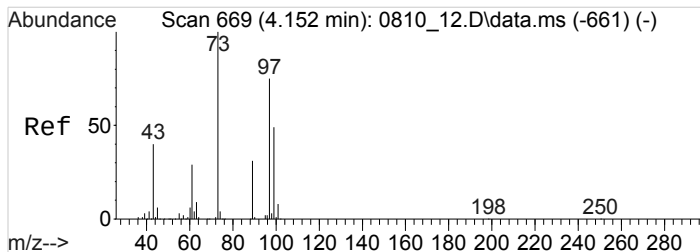


#35
TETRAHYDROFURAN
Concen: 0.1456315 ppb
RT: 4.031 min Scan# 649
Delta R.T. -0.017 min
Lab File: 0922_28.D
Acq: 22 Sep 2017 4:27 pm

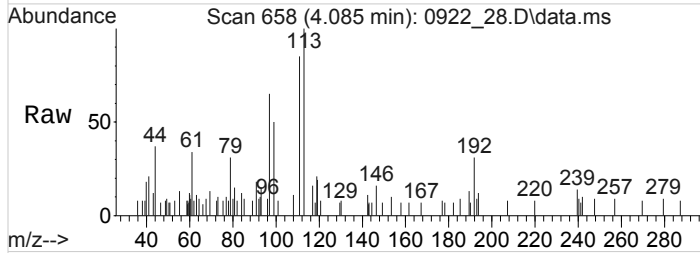


Tgt Ion: 42 Resp: 494
Ion Ratio Lower Upper
42 100
41 0.0 40.0 60.0#
39 219.2 19.2 28.8#

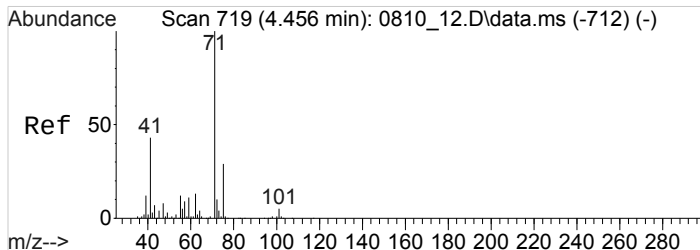
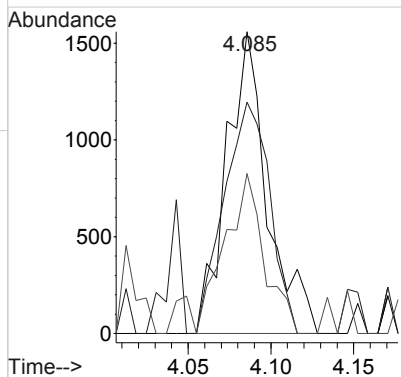
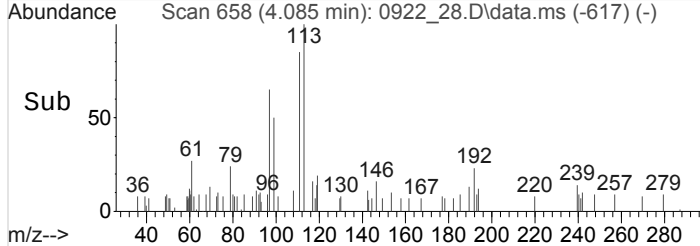




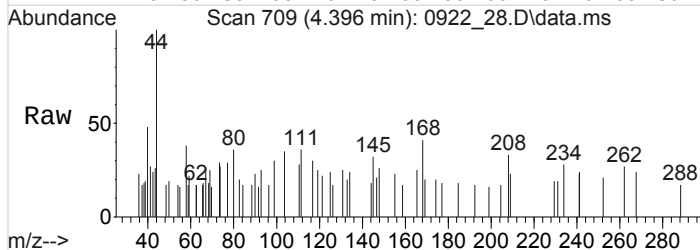
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 1,1,1-TRICHLOROETHANE
 Concen: 0.2482250 ppb
 RT: 4.085 min Scan# 658
 Delta R.T. 0.000 min
 Lab File: 0922_28.D
 Acq: 22 Sep 2017 4:27 pm



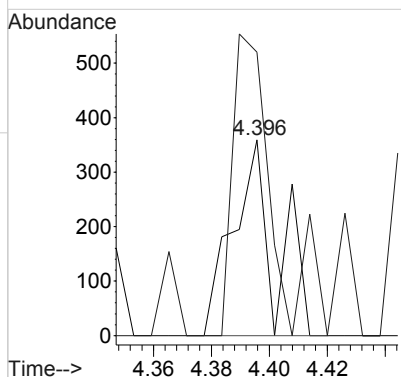
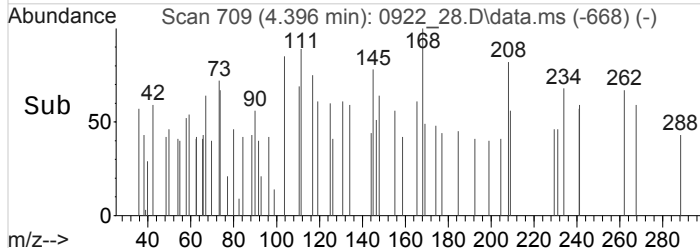
Tgt Ion: 97 Resp: 2672
 Ion Ratio Lower Upper
 97 100
 99 86.2 51.0 76.4#
 61 51.3 36.3 54.5

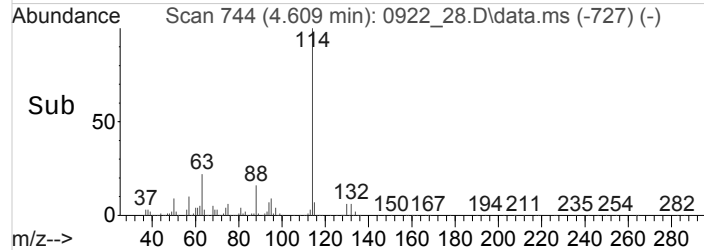
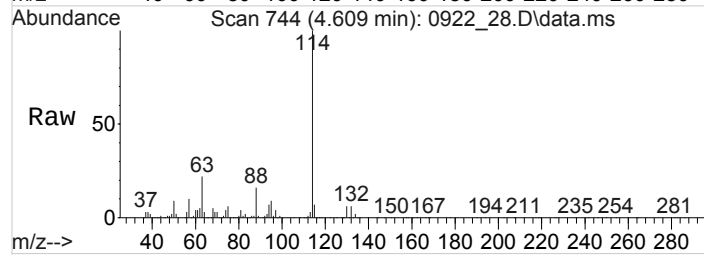
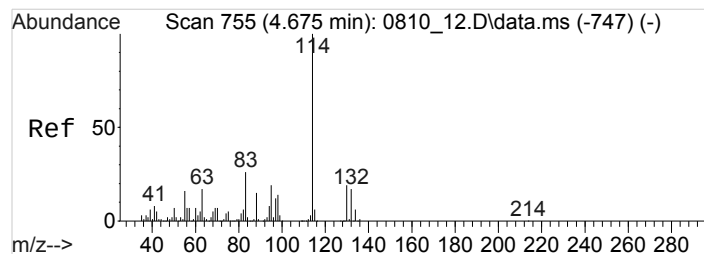


#47
 T-AMYL ALCOHOL
 Concen: 0.2387995 ppb
 RT: 4.396 min Scan# 709
 Delta R.T. 0.001 min
 Lab File: 0922_28.D
 Acq: 22 Sep 2017 4:27 pm



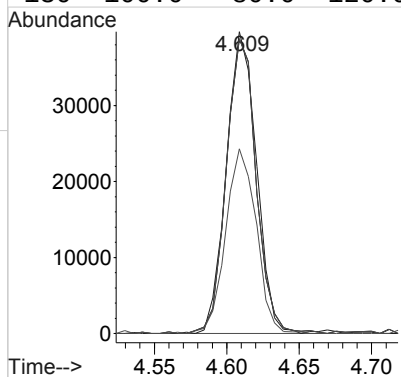
Tgt Ion: 59 Resp: 370
 Ion Ratio Lower Upper
 59 100
 73 122.4 39.2 58.8#





#49
 TRICHLOROETHENE
 Concen: 7.8819817 ppb
 RT: 4.609 min Scan# 744
 Delta R.T. 0.001 min
 Lab File: 0922_28.D
 Acq: 22 Sep 2017 4:27 pm

Tgt Ion	Ratio	Resp	Lower	Upper
130	100			
132	102.9	81.6	122.4	
97	0.0	0.0	0.0	
130	100.0	80.0	120.0	



1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:

RMW-9

ESC Sample ID: L937868-05
Client Sample ID: RMW-9
Lab File ID: 0922_29
Instrument ID: VOCMS13
Analytical Batch: WG1023529
Dilution Factor: 1
Analytical Method: 8260C
Matrix: GW
Total Solids (%): _____

SDG: L937868
Collected Date/Time: 09/18/17 11:20
Received Date/Time: 09/20/17 08:45
Preparation Date/Time: 09/22/17 16:46
Analysis Date/Time: 09/22/17 16:46
Prep Method: 8260C
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>ug/l</i>	Qualifier	MDL <i>ug/l</i>	RDL <i>ug/l</i>
Acetone	67-64-1	3.08	ND		10.0	50.0
Benzene	71-43-2	0	ND		0.331	1.00
Bromochloromethane	74-97-5	0	ND		0.520	1.00
Bromodichloromethane	75-27-4	0	ND		0.380	1.00
Bromoform	75-25-2	0	ND		0.469	1.00
Bromomethane	74-83-9	0	ND		0.866	5.00
Carbon disulfide	75-15-0	0	ND		0.275	1.00
Carbon tetrachloride	56-23-5	0	ND		0.379	1.00
Chlorobenzene	108-90-7	0	ND		0.348	1.00
Chlorodibromomethane	124-48-1	0	ND		0.327	1.00
Chloroethane	75-00-3	0	ND		0.453	5.00
Chloroform	67-66-3	0	ND		0.324	5.00
Chloromethane	74-87-3	0	ND		0.276	2.50
Cyclohexane	110-82-7	0	ND		0.390	1.00
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND		1.33	5.00
1,2-Dibromoethane	106-93-4	0	ND		0.381	1.00
1,2-Dichlorobenzene	95-50-1	0	ND		0.349	1.00
1,3-Dichlorobenzene	541-73-1	0	ND		0.220	1.00
1,4-Dichlorobenzene	106-46-7	0	ND		0.274	1.00
Dichlorodifluoromethane	75-71-8	0	ND		0.551	5.00
1,1-Dichloroethane	75-34-3	3.51	12.9		0.259	1.00
1,2-Dichloroethane	107-06-2	4.40	ND		0.361	1.00
1,1-Dichloroethene	75-35-4	0	ND		0.398	1.00
cis-1,2-Dichloroethene	156-59-2	3.81	5.10		0.260	1.00
trans-1,2-Dichloroethene	156-60-5	3.15	ND		0.396	1.00
1,2-Dichloropropane	78-87-5	0	ND		0.306	1.00
cis-1,3-Dichloropropene	10061-01-5	0	ND		0.418	1.00
trans-1,3-Dichloropropene	10061-02-6	0	ND		0.419	1.00
Ethylbenzene	100-41-4	0	ND		0.384	1.00
2-Hexanone	591-78-6	0	ND		3.82	10.0
Isopropylbenzene	98-82-8	0	ND		0.326	1.00
2-Butanone (MEK)	78-93-3	4.11	ND		3.93	10.0
Methyl Acetate	79-20-9	0	ND		4.30	20.0
Methyl Cyclohexane	108-87-2	0	ND		0.380	1.00
Methylene Chloride	75-09-2	0	ND		1.00	5.00
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		2.14	10.0
Methyl tert-butyl ether	1634-04-4	0	ND		0.367	1.00
Naphthalene	91-20-3	0	ND		1.00	5.00
Styrene	100-42-5	0	ND		0.307	1.00
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		0.130	1.00
Tetrachloroethene	127-18-4	0	ND		0.372	1.00
Toluene	108-88-3	0	ND		0.412	1.00
1,2,3-Trichlorobenzene	87-61-6	0	ND		0.230	1.00

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

ESC Sample ID:	L937868-05	SDG:	L937868
Client Sample ID:	RMW-9	Collected Date/Time:	09/18/17 11:20
Lab File ID:	0922_29	Received Date/Time:	09/20/17 08:45
Instrument ID:	VOCMS13	Preparation Date/Time:	09/22/17 16:46
Analytical Batch:	WG1023529	Analysis Date/Time:	09/22/17 16:46
Dilution Factor:	1	Prep Method:	8260C
Analytical Method:	8260C	Sample Vol Used:	5 mL
Matrix:	GW	Initial Wt/Vol:	
Total Solids (%):		Final Wt/Vol:	5 mL

Analyte	CAS	RT	Result <i>ug/l</i>	Qualifier	MDL <i>ug/l</i>	RDL <i>ug/l</i>
1,2,4-Trichlorobenzene	120-82-1	0	ND		0.355	1.00
1,1,1-Trichloroethane	71-55-6	0	ND		0.319	1.00
1,1,2-Trichloroethane	79-00-5	0	ND		0.383	1.00
Trichloroethene	79-01-6	0	ND		0.398	1.00
Trichlorofluoromethane	75-69-4	0	ND		1.20	5.00
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		0.303	1.00
Vinyl chloride	75-01-4	1.90	123		0.259	1.00
o-Xylene	95-47-6	0	ND		0.341	1.00
m&p-Xylenes	1330-20-7	0	ND		0.719	2.00
n-Butylbenzene	104-51-8	0	ND		0.361	1.00
sec-Butylbenzene	135-98-8	0	ND		0.365	1.00
tert-Butylbenzene	98-06-6	0	ND		0.399	1.00
1,2,4-Trimethylbenzene	95-63-6	0	ND		0.373	1.00
1,3,5-Trimethylbenzene	108-67-8	0	ND		0.387	1.00
n-Propylbenzene	103-65-1	0	ND		0.349	1.00
p-Isopropyltoluene	99-87-6	0	ND		0.350	1.00

Data Path : \\VOCCOMPY\msdchem\1\data\092217\
 Data File : 0922_29.D
 Acq On : 22 Sep 2017 4:46 pm
 Operator : 605
 Sample : L937868-05 1x WG1023529
 Misc : water
 ALS Vial : 29 Sample Multiplier: 1
 InstName : VOCMS13

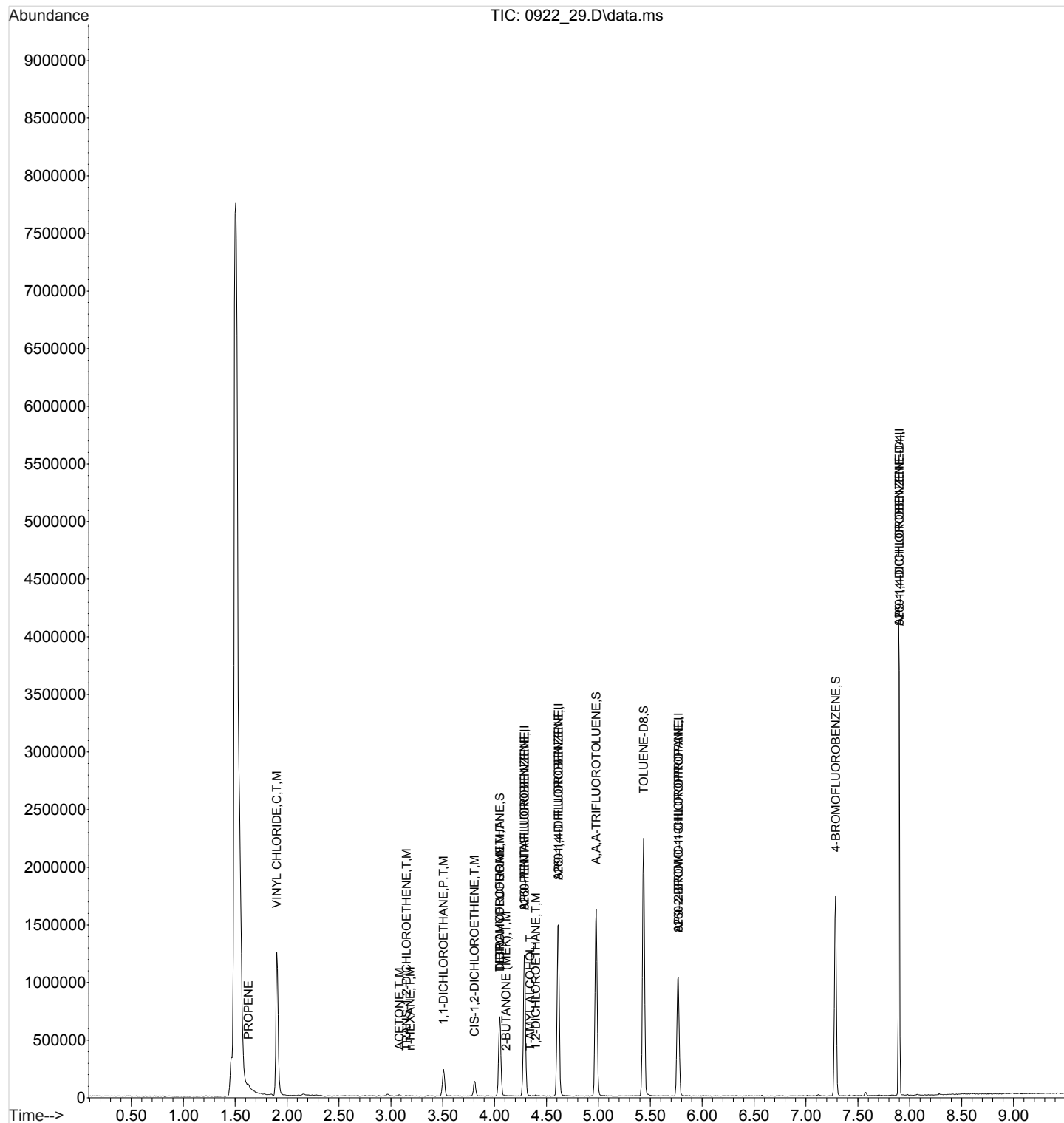
Quant Time: Sep 24 11:09:10 2017
 Quant Method : C:\msdchem\1\methods\V813I22Q.M
 Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
 QLast Update : Fri Sep 22 10:59:34 2017
 Response via : Initial Calibration

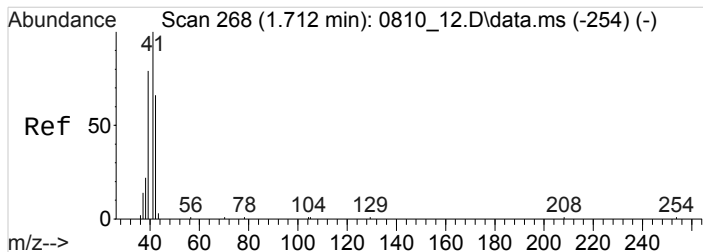
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.286	168	640642	40.00000000	ppb	0.00
48) 8260-1,4-DIFLUOROBENZENE	4.615	114	951809	40.00000000	ppb	0.00
55) 8260-2-BROMO-1-CHLOROP...	5.771	79	167148	40.00000000	ppb	0.00
73) 8260-1,4-DICHLOROBENZE...	7.900	152	518213	40.00000000	ppb	0.00
104) AP9-PENTAFLUOROBENZENE	4.286	168	640642	40.00000000	ppb	0.00
116) AP9-1,4-DIFLUOROBENZENE	4.615	114	951809	40.00000000	ppb	0.00
121) AP9-2-BROMO-1-CHLOROPR...	5.771	79	167148	40.00000000	ppb	0.00
125) AP9-1,4-DICHLOROBENZEN...	7.900	152	518213	40.00000000	ppb	0.00
System Monitoring Compounds						
38) DIBROMOFLUOROMETHANE	4.049	111	307868	40.8718327	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 102.18%			
54) A,A,A-TRIFLUOROTOLUENE	4.980	146	521486	41.4188951	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 103.55%			
59) TOLUENE-D8	5.436	98	1147548	41.6217472	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 104.05%			
77) 4-BROMOFLUOROBENZENE	7.285	95	424481	39.4385731	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 98.60%			
Target Compounds						
4) PROPENE	1.628	41	8018	1.1185713	ppb #	63
7) VINYL CHLORIDE	1.901	62	1084035	123.1756637	ppb	98
14) ACROLEIN	2.887	56	592	Below Cal	#	54
17) ACETONE	3.082	43	10485	3.9122293	ppb	100
24) n-HEXANE	3.185	56	901	0.1424392	ppb #	1
25) TRANS-1,2-DICHLOROETHENE	3.148	96	1113	0.1665924	ppb	86
27) 1,1-DICHLOROETHANE	3.507	63	168344	12.8975000	ppb	98
32) CIS-1,2-DICHLOROETHENE	3.806	96	38909	5.0974683	ppb	91
33) 2-BUTANONE (MEK)	4.110	43	2298	0.4379103	ppb #	65
35) TETRAHYDROFURAN	4.049	42	632	0.1863641	ppb #	13
46) 1,2-DICHLOROETHANE	4.396	62	1681	0.1610052	ppb #	72
47) T-AMYL ALCOHOL	4.341	59	251	0.1620399	ppb #	28

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

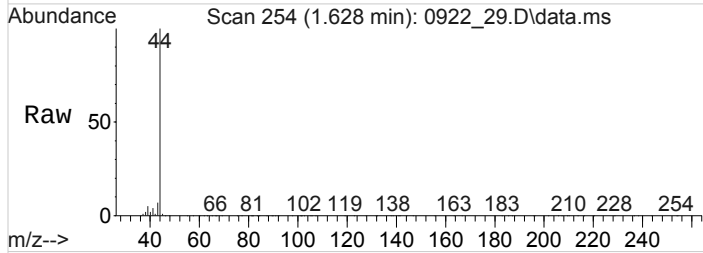
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Data File : 0922_29.D
Acq On : 22 Sep 2017 4:46 pm
Operator : 605
Sample : L937868-05 1x WG1023529
Misc : water
ALS Vial : 29 Sample Multiplier: 1
InstName : VOCMS13

Quant Time: Sep 24 11:09:10 2017
Quant Method : C:\msdchem\1\methods\V813I22Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
QLast Update : Fri Sep 22 10:59:34 2017
Response via : Initial Calibration

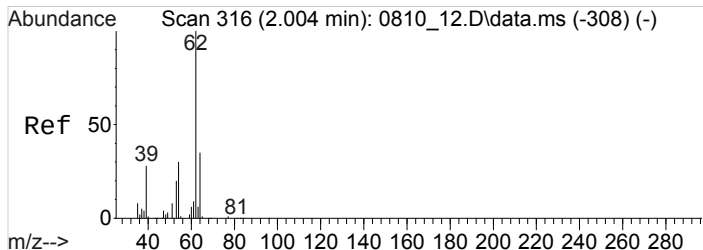
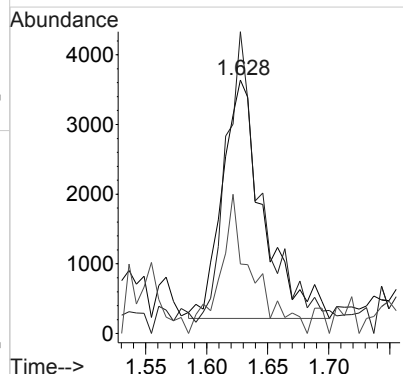
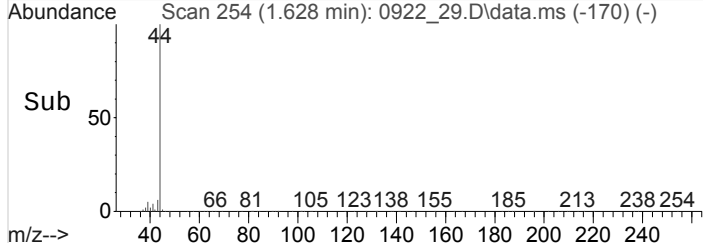




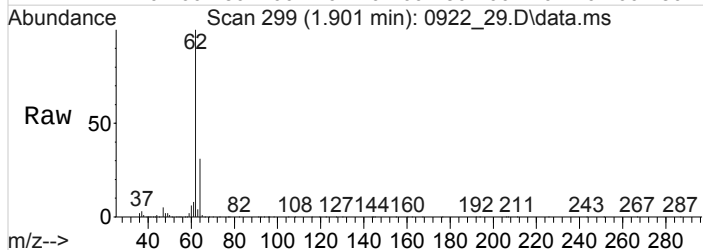
#4
 PROPENE
 Concen: 1.1185713 ppb
 RT: 1.628 min Scan# 254
 Delta R.T. 0.013 min
 Lab File: 0922_29.D
 Acq: 22 Sep 2017 4:46 pm



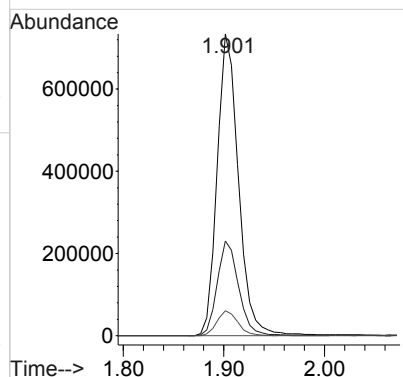
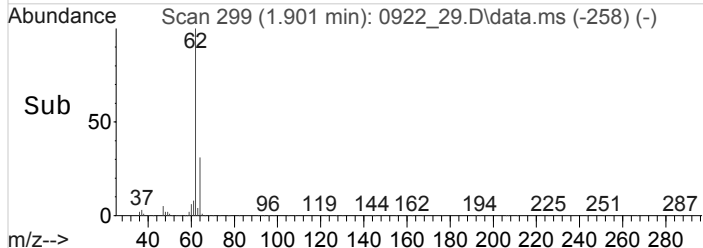
Tgt Ion: 41 Resp: 8018
 Ion Ratio Lower Upper
 41 100
 39 109.2 56.1 84.1#
 42 45.4 52.8 79.2#

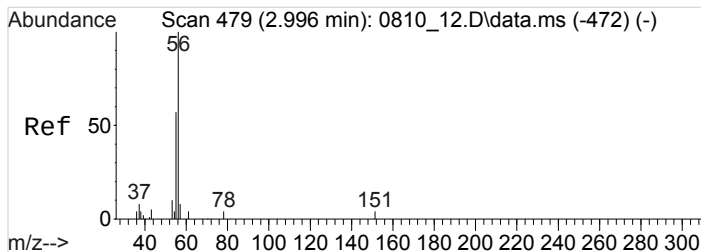


#7
 VINYL CHLORIDE
 Concen: 123.1756637 ppb
 RT: 1.901 min Scan# 299
 Delta R.T. 0.000 min
 Lab File: 0922_29.D
 Acq: 22 Sep 2017 4:46 pm



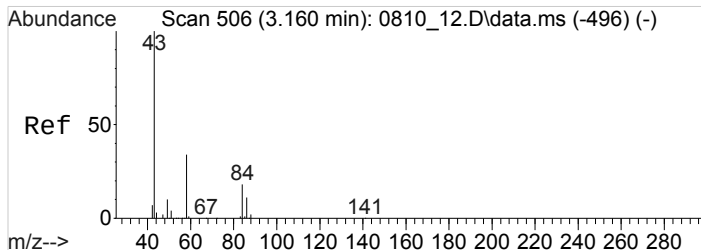
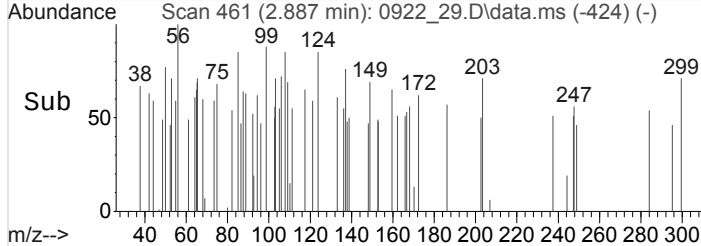
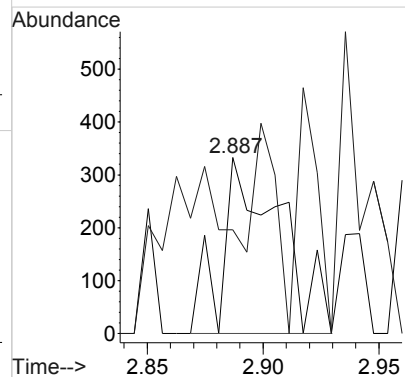
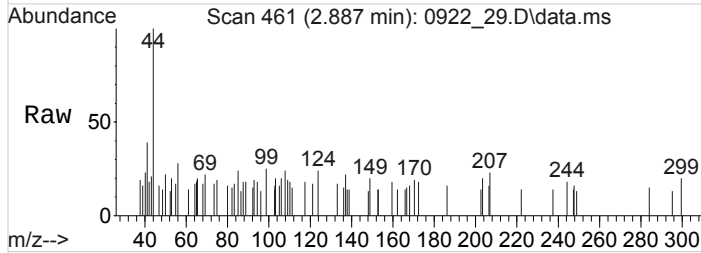
Tgt Ion: 62 Resp: 1084035
 Ion Ratio Lower Upper
 62 100
 64 31.6 24.5 36.7
 61 8.3 6.7 10.1





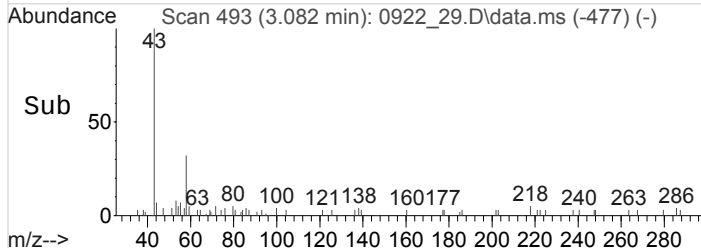
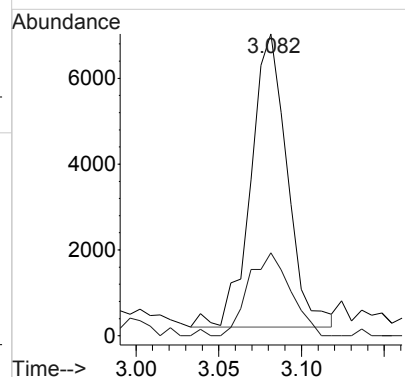
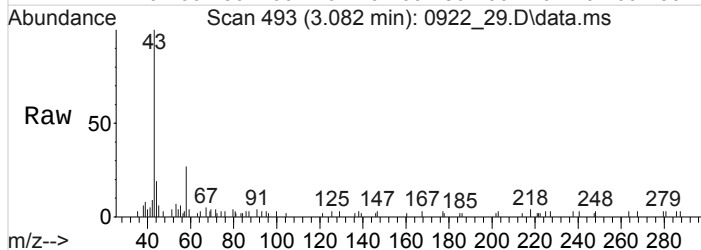
#14
ACROLEIN
Concen: Below Cal
RT: 2.887 min Scan# 461
Delta R.T. -0.024 min
Lab File: 0922_29.D
Acq: 22 Sep 2017 4:46 pm

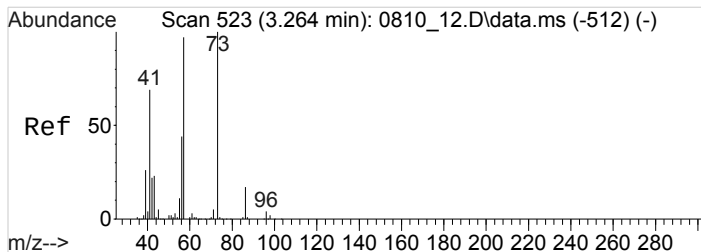
Tgt Ion: 56 Resp: 592
Ion Ratio Lower Upper
56 100
55 107.1 55.5 83.3#



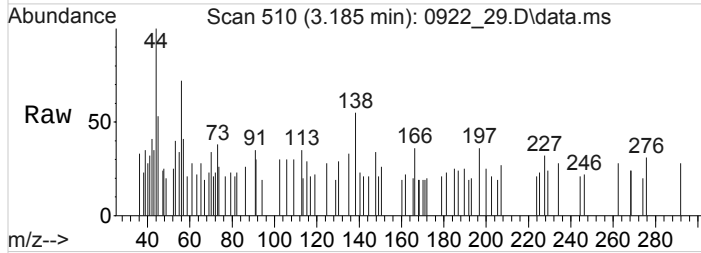
#17
ACETONE
Concen: 3.9122293 ppb
RT: 3.082 min Scan# 493
Delta R.T. 0.001 min
Lab File: 0922_29.D
Acq: 22 Sep 2017 4:46 pm

Tgt Ion: 43 Resp: 10485
Ion Ratio Lower Upper
43 100
58 32.5 25.9 38.9

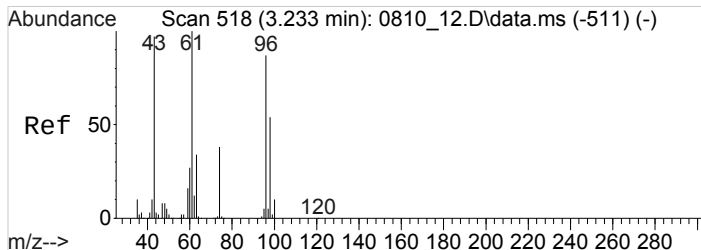
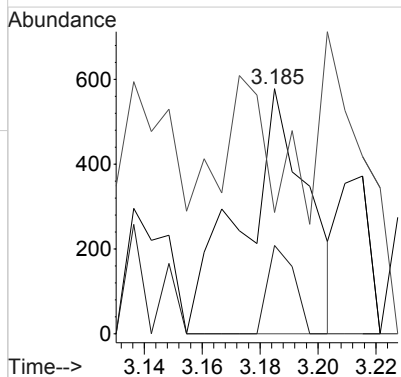
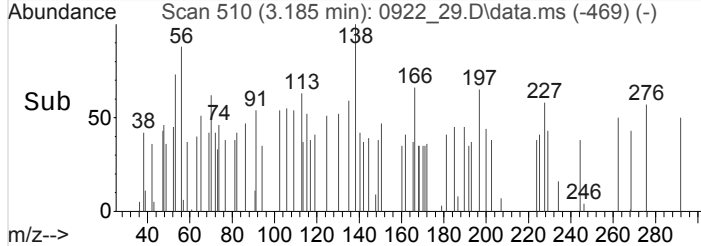




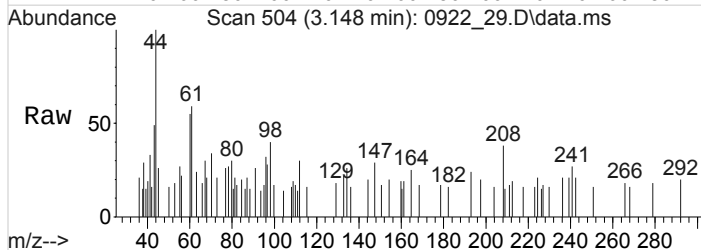
#24
n-HEXANE
Concen: 0.1424392 ppb
RT: 3.185 min Scan# 510
Delta R.T. 0.001 min
Lab File: 0922_29.D
Acq: 22 Sep 2017 4:46 pm



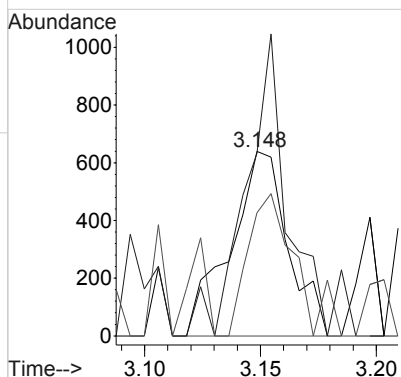
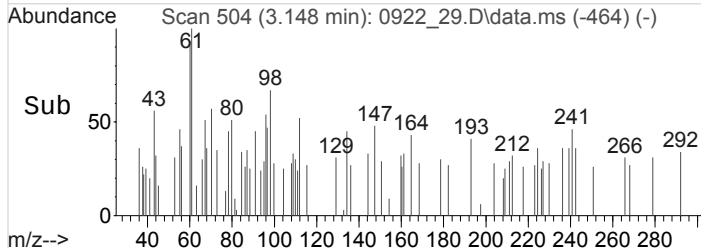
Tgt Ion: 56 Resp: 901
Ion Ratio Lower Upper
56 100
86 0.0 25.0 37.6#
43 24.3 156.2 234.2#

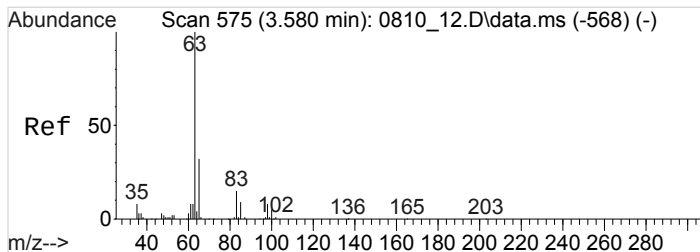


#25
TRANS-1,2-DICHLOROETHENE
Concen: 0.1665924 ppb
RT: 3.148 min Scan# 504
Delta R.T. -0.006 min
Lab File: 0922_29.D
Acq: 22 Sep 2017 4:46 pm

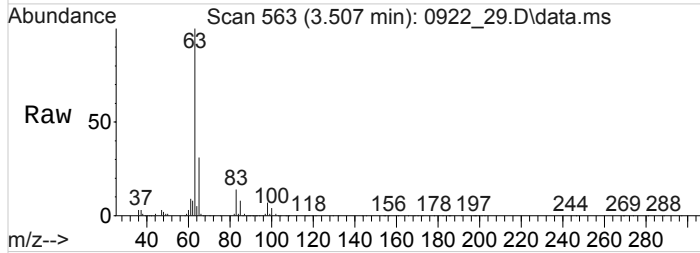


Tgt Ion: 96 Resp: 1113
Ion Ratio Lower Upper
96 100
61 123.0 118.9 178.3
98 63.3 51.1 76.7

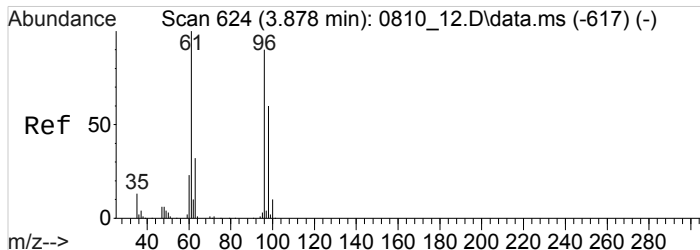
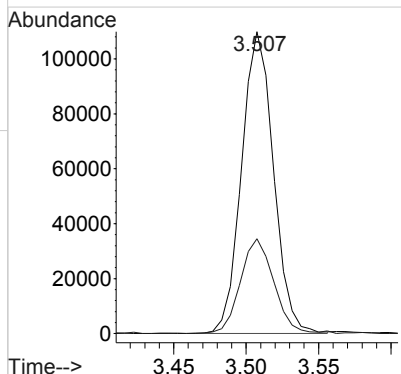
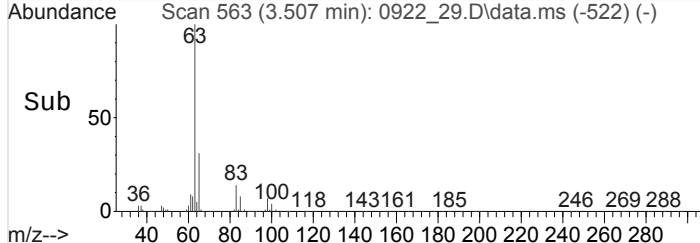




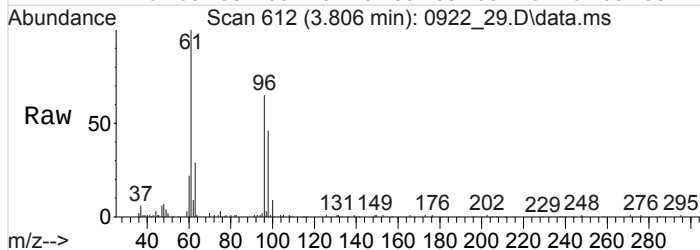
#27
 1,1-DICHLOROETHANE
 Concen: 12.8975000 ppb
 RT: 3.507 min Scan# 563
 Delta R.T. 0.000 min
 Lab File: 0922_29.D
 Acq: 22 Sep 2017 4:46 pm



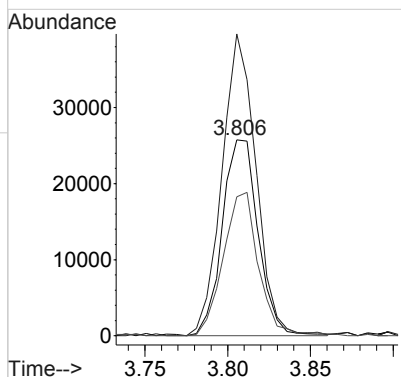
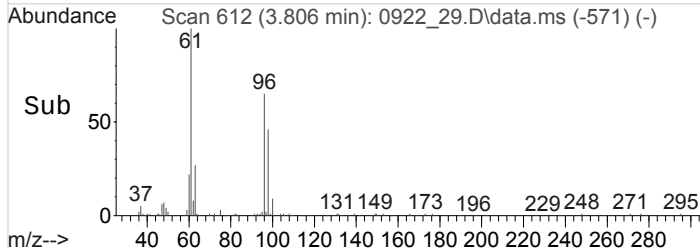
Tgt Ion: 63 Resp: 168344
 Ion Ratio Lower Upper
 63 100
 65 33.0 25.6 38.4

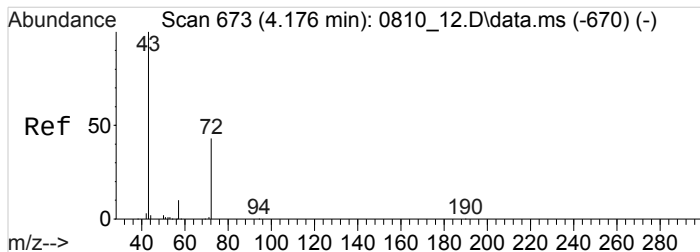


#32
 CIS-1,2-DICHLOROETHENE
 Concen: 5.0974683 ppb
 RT: 3.806 min Scan# 612
 Delta R.T. 0.001 min
 Lab File: 0922_29.D
 Acq: 22 Sep 2017 4:46 pm

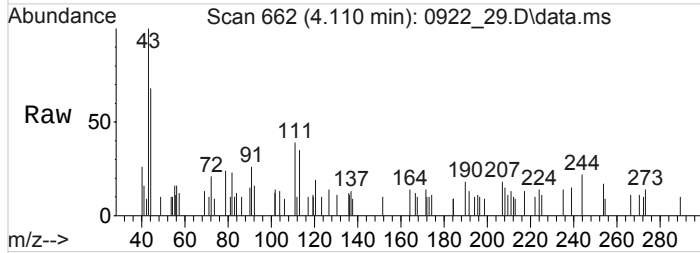


Tgt Ion: 96 Resp: 38909
 Ion Ratio Lower Upper
 96 100
 61 146.5 108.2 162.2
 98 71.9 51.9 77.9

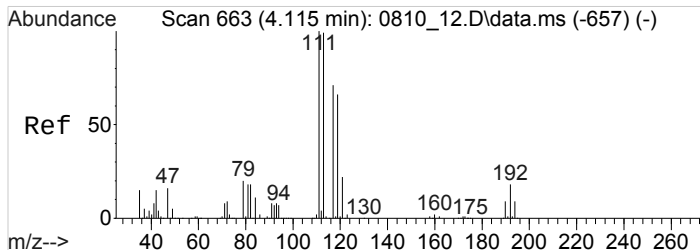
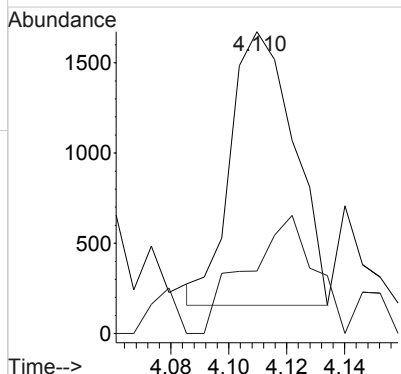
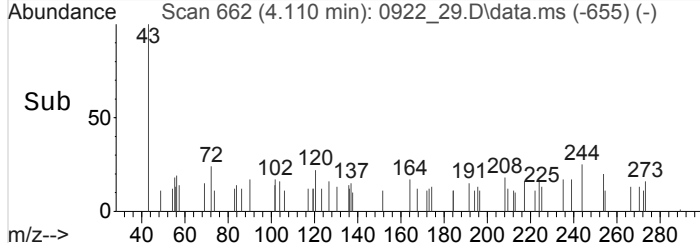




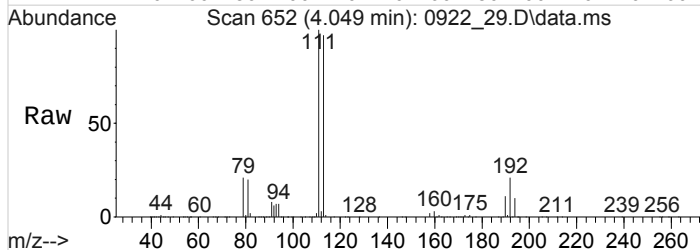
#33
2-BUTANONE (MEK)
Concen: 0.4379103 ppb
RT: 4.110 min Scan# 662
Delta R.T. 0.001 min
Lab File: 0922_29.D
Acq: 22 Sep 2017 4:46 pm



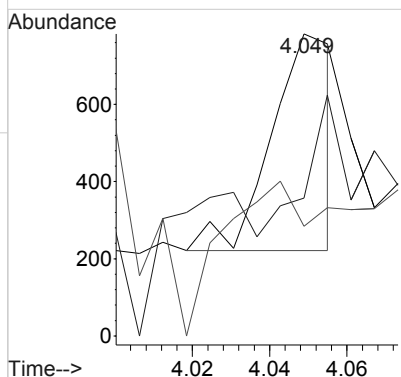
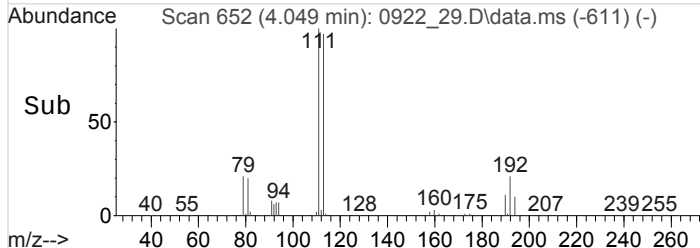
Tgt Ion: 43 Resp: 2298
Ion Ratio Lower Upper
43 100
72 46.1 22.2 33.2#

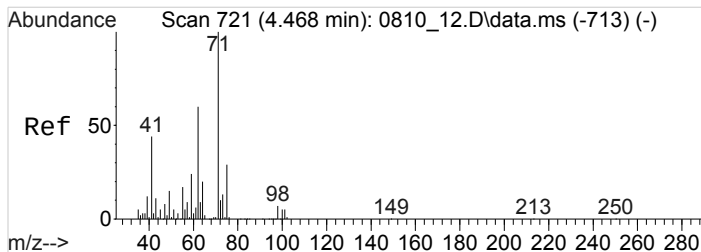


#35
TETRAHYDROFURAN
Concen: 0.1863641 ppb
RT: 4.049 min Scan# 652
Delta R.T. 0.001 min
Lab File: 0922_29.D
Acq: 22 Sep 2017 4:46 pm

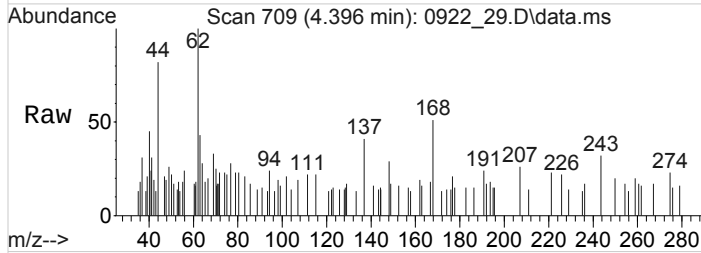


Tgt Ion: 42 Resp: 632
Ion Ratio Lower Upper
42 100
41 93.2 40.0 60.0#
39 91.1 19.2 28.8#

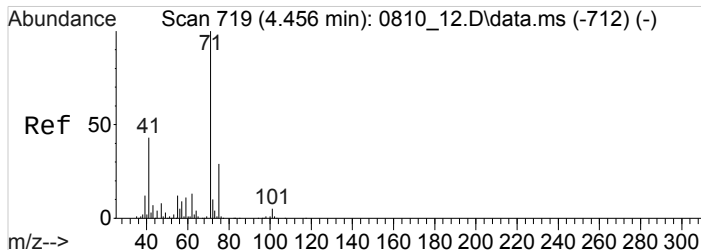
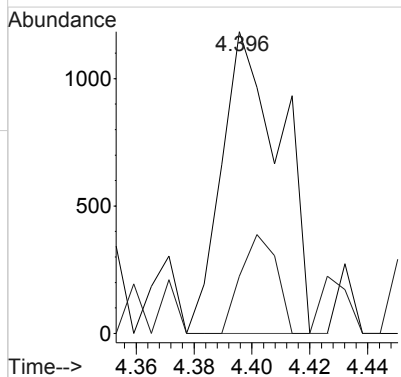
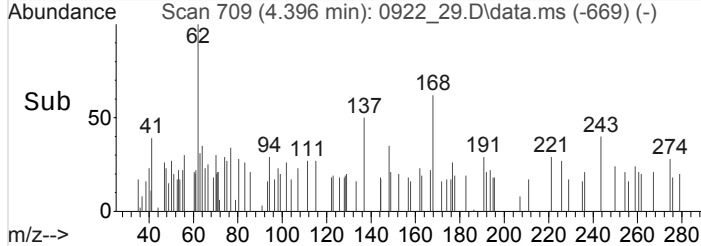




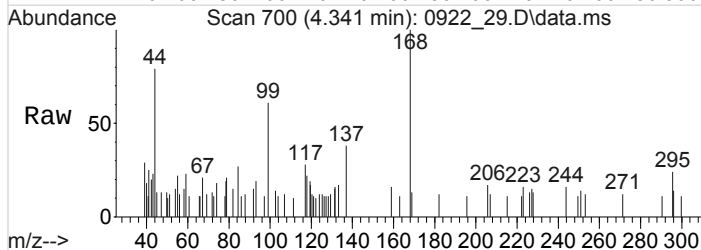
#46
 1,2-DICHLOROETHANE
 Concen: 0.1610052 ppb
 RT: 4.396 min Scan# 709
 Delta R.T. -0.005 min
 Lab File: 0922_29.D
 Acq: 22 Sep 2017 4:46 pm



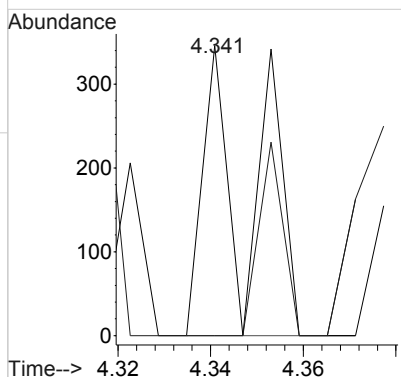
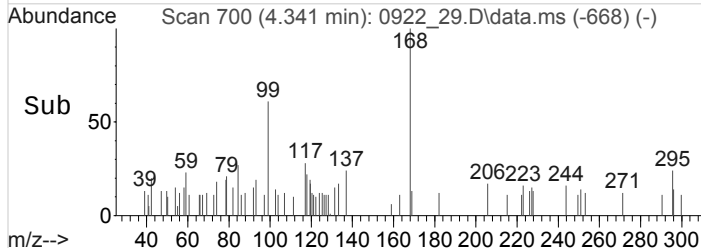
Tgt Ion: 62 Resp: 1681
 Ion Ratio Lower Upper
 62 100
 98 19.9 7.7 11.5#



#47
 T-AMYL ALCOHOL
 Concen: 0.1620399 ppb
 RT: 4.341 min Scan# 700
 Delta R.T. -0.054 min
 Lab File: 0922_29.D
 Acq: 22 Sep 2017 4:46 pm



Tgt Ion: 59 Resp: 251
 Ion Ratio Lower Upper
 59 100
 73 0.0 39.2 58.8#





6A-OR

GC/MS INITIAL CALIBRATION DATA

SDG: L937868
Instrument ID: VOCMS13

Analytical Method: 8260C

Analyte	RRF: 0.25	RRF: 0.5	RRF: 1	RRF: 2	RRF: 5.0	RRF: 10	RRF: 25	RRF: 40	RRF: 75	RRF: 100
Analysis date/time	09/22/17 06:55	09/22/17 07:14	09/22/17 07:33	09/22/17 07:53	09/22/17 08:13	09/22/17 08:32	09/22/17 08:51	09/22/17 09:11	09/22/17 09:30	09/22/17 09:50
METHYL ACETATE	0.6070	0.5640	0.5220	0.5120	0.4950	0.4970	0.4720	0.4480	0.4630	0.4760
CIS-1,3-DICHLOROPROPENE	3.4560	3.1350	2.9290	2.7210	2.7690	2.8760	2.8830	2.8450	2.9650	2.8820
4-METHYL-2-PENTANONE (MIBK)	3.0790	2.5390	2.4560	2.4480	2.5230	2.4470	2.5380	2.5220	2.7260	2.6550
2-HEXANONE	1.2810	1.0390	0.9740	0.9550	0.9390	0.9560	0.9550	0.9510	0.9960	0.9690
CHLOROBENZENE	5.7520	4.7510	4.6280	4.5270	4.69	4.6350	4.8410	4.7880	4.9940	4.8860
M&P-XYLENE	3.9110	3.0220	3.1420	3.2830	3.0620	3.2420	3.3250	3.3320	3.4630	3.3970
STYRENE	1.9490	1.5630	1.6530	1.5720	1.6530	1.7470	1.7820	1.7460	1.9490	1.9870
ISOPROPYLBENZENE	3.2040	2.7680	2.5440	2.5190	2.2450	2.7060	2.79	2.7830	3.1110	3.1570
TERT-BUTYLBENZENE	2.1010	1.8420	1.6960	1.8180	1.7430	1.92	1.9320	1.9510	2.0680	2.0910
SEC-BUTYLBENZENE	3.6080	2.7370	2.86	2.8130	2.8280	3.0890	2.9950	3.0440	3.2560	3.2690
1,3-DICHLOROBENZENE	1.5330	1.3590	1.2770	1.2720	1.2540	1.2580	1.2810	1.2390	1.3470	1.3660
DIBROMOFLUOROMETHANE	0.4970	0.4920	0.4940	0.5070	0.4720	0.4740	0.4540	0.4560	0.4420	0.4460
A,A,A-TRIFLUOROTOLUENE	0.5450	0.5340	0.5360	0.5240	0.5220	0.5260	0.5190	0.5310	0.5250	0.5370
TOLUENE-D8	6.7660	6.7220	6.65	6.7550	6.5040	6.5220	6.5550	6.6540	6.6410	6.3610
4-BROMOFLUOROBENZENE	0.81	0.8140	0.8050	0.8040	0.7920	0.8380	0.8370	0.8320	0.8640	0.8780
DICHLORODIFLUOROMETHANE		0.4780	0.5170	0.4830	0.4370	0.51	0.4170	0.4640	0.4410	0.4440
CHLOROMETHANE		0.71	0.6960	0.6550	0.61	0.60	0.5340	0.5230	0.5120	0.5140
VINYL CHLORIDE		0.5280	0.6020	0.6170	0.5780	0.5850	0.52	0.5180	0.5130	0.5070
TRICHLOROFLUOROMETHANE		0.65	0.6130	0.7310	0.5840	0.6390	0.5650	0.59	0.5750	0.5880
1,1-DICHLOROETHENE		0.3560	0.3450	0.3980	0.33	0.3670	0.3160	0.3260	0.33	0.3330
1,1,2-TRICHLOROTRIFLUOROETHANE		0.2920	0.4510	0.4220	0.3610	0.4230	0.3530	0.3760	0.3720	0.3680
ACETONE		0.2050	0.2060	0.1970	0.1670	0.1570	0.1520	0.1460	0.1460	0.1450
CARBON DISULFIDE		1.3490	1.3560	1.4030	1.2110	1.3220	1.1880	1.18	1.1990	1.2330
TRANS-1,2-DICHLOROETHENE		0.4490	0.5040	0.4470	0.4170	0.42	0.3880	0.3870	0.3820	0.3890
METHYL TERT-BUTYL ETHER		1.71	1.5770	1.6370	1.4910	1.4920	1.4280	1.3960	1.3890	1.4180
1,1-DICHLOROETHANE		0.9220	0.9210	0.8790	0.8050	0.8160	0.7670	0.7560	0.7450	0.7550
CIS-1,2-DICHLOROETHENE		0.5990	0.5420	0.5340	0.4670	0.4650	0.4370	0.42	0.4280	0.4330
2-BUTANONE (MEK)		0.36	0.3530	0.3630	0.3760	0.3660	0.2720	0.2610	0.2660	0.3360
BROMOCHLOROMETHANE		0.3520	0.3060	0.32	0.2920	0.29	0.2840	0.28	0.2820	0.28
CHLOROFORM		0.7950	0.8730	0.8620	0.7950	0.79	0.7630	0.7330	0.7410	0.75
CYCLOHEXANE		0.6780	0.6780	0.7520	0.6530	0.7310	0.6690	0.6930	0.6840	0.6860
1,1,1-TRICHLOROETHANE		0.7190	0.7140	0.7430	0.6170	0.6880	0.6430	0.6340	0.6420	0.6480
CARBON TETRACHLORIDE		0.6820	0.6650	0.6270	0.59	0.6350	0.5870	0.6030	0.6030	0.6040
BENZENE		2.0470	1.8320	1.9410	1.7870	1.8140	1.7140	1.6820	1.7160	1.7330
1,2-DICHLOROETHANE		0.7720	0.6730	0.6860	0.6380	0.6420	0.6070	0.5830	0.6140	0.6290
TRICHLOROETHENE		0.30	0.30	0.2950	0.2730	0.2870	0.2860	0.2850	0.2930	0.29
METHYL CYCLOHEXANE		1.5560	1.0130	0.7920	0.5810	0.5920	0.5090	0.54	0.5450	0.5450
1,2-DICHLOROPROPANE		0.2580	0.2260	0.2330	0.22	0.2270	0.2090	0.2040	0.2130	0.2130
BROMODICHLOROMETHANE		0.5240	0.4570	0.4270	0.4110	0.4060	0.3910	0.3890	0.3960	0.3990
TOLUENE		7.1690	6.9420	7.2390	6.8940	6.8670	6.9740	6.9850	7.2740	7.1780
TRANS-1,3-DICHLOROPROPENE		2.8320	2.7850	2.7770	2.6690	2.6950	2.7920	2.7370	2.8970	2.83
1,1,2-TRICHLOROETHANE		1.80	1.8580	1.5680	1.5710	1.5190	1.5650	1.5230	1.55	1.4880
TETRACHLOROETHENE		1.4810	1.33	1.3180	1.3250	1.3930	1.4240	1.4760	1.5190	1.4810
CHLORODIBROMOMETHANE		1.7130	1.7660	1.6980	1.6730	1.7350	1.8320	1.8070	1.8730	1.8170
1,2-DIBROMOETHANE		1.8190	1.7340	1.7760	1.7550	1.7580	1.7310	1.70	1.76	1.6920
ETHYLBENZENE		2.2390	2.74	2.6660	2.5610	2.6460	2.6610	2.6630	2.7620	2.6750
O-XYLENE		2.9540	3.1080	3.2590	3.0070	3.1230	3.2860	3.2760	3.3750	3.2760
BROMOFORM		0.4510	0.4480	0.43	0.4650	0.4770	0.5050	0.52	0.5740	0.5960
1,1,2,2-TETRACHLOROETHANE		0.8690	0.7960	0.8270	0.8050	0.83	0.8410	0.8230	0.86	0.8830
N-PROPYLBENZENE		2.9750	3.0290	2.9390	2.91	3.1350	3.1250	3.1660	3.5230	3.59



SDG: L937868
Instrument ID: VOCMS13

Analytical Method: 8260C

Analyte	RRF: 0.25	RRF: 0.5	RRF: 1	RRF: 2	RRF: 5.0	RRF: 10	RRF: 25	RRF: 40	RRF: 75	RRF: 100
Analysis date/time	09/22/17 06:55	09/22/17 07:14	09/22/17 07:33	09/22/17 07:53	09/22/17 08:13	09/22/17 08:32	09/22/17 08:51	09/22/17 09:11	09/22/17 09:30	09/22/17 09:50
1,3,5-TRIMETHYLBENZENE		2.2420	2.02	2.1490	2.1580	2.2650	2.3920	2.3830	2.6030	2.6210
1,2,4-TRIMETHYLBENZENE		2.5560	2.4010	2.2250	2.3230	2.4220	2.4090	2.4330	2.6030	2.6510
P-ISOPROPYL TOLUENE		2.3070	2.2530	2.3180	2.4270	2.5530	2.4950	2.5240	2.6580	2.6810
1,4-DICHLOROBENZENE		1.2440	1.25	1.2650	1.28	1.2880	1.29	1.2470	1.3250	1.3710
1,2-DICHLOROBENZENE		1.1350	1.2070	1.0960	1.1860	1.1460	1.1460	1.1280	1.1810	1.1860
N-BUTYLBENZENE		1.9230	2.1240	2.1390	2.1430	2.1690	2.13	2.14	2.2170	2.2030
1,2-DIBROMO-3-CHLOROPROPANE		0.2420	0.2030	0.1960	0.2070	0.2080	0.2050	0.1980	0.1990	0.2020
1,2,4-TRICHLOROBENZENE		0.8980	0.8010	0.8150	0.8570	0.8160	0.8140	0.7470	0.89	0.9310
NAPHTHALENE		2.0970	2.1590	2.1190	2.2260	2.1560	2.1580	2.0120	2.41	2.4730
1,2,3-TRICHLOROBENZENE		0.8530	0.7650	0.7640	0.7720	0.7440	0.74	0.6920	0.85	0.8860
BROMOMETHANE			0.3750	0.37	0.3190	0.3150	0.2920	0.2720	0.2650	0.2590
CHLOROETHANE			0.3930	0.3990	0.3410	0.3380	0.3010	0.2920	0.2870	0.2790
METHYLENE CHLORIDE				0.5980	0.4690	0.4510	0.4340	0.4050	0.4010	0.4070
File ID:	0922_04	0922_05	0922_06	0922_07	0922_08	0922_09	0922_10	0922_11	0922_12	0922_13



SDG:

L937868

Analytical Method:

8260C

Instrument ID:

VOCMS13

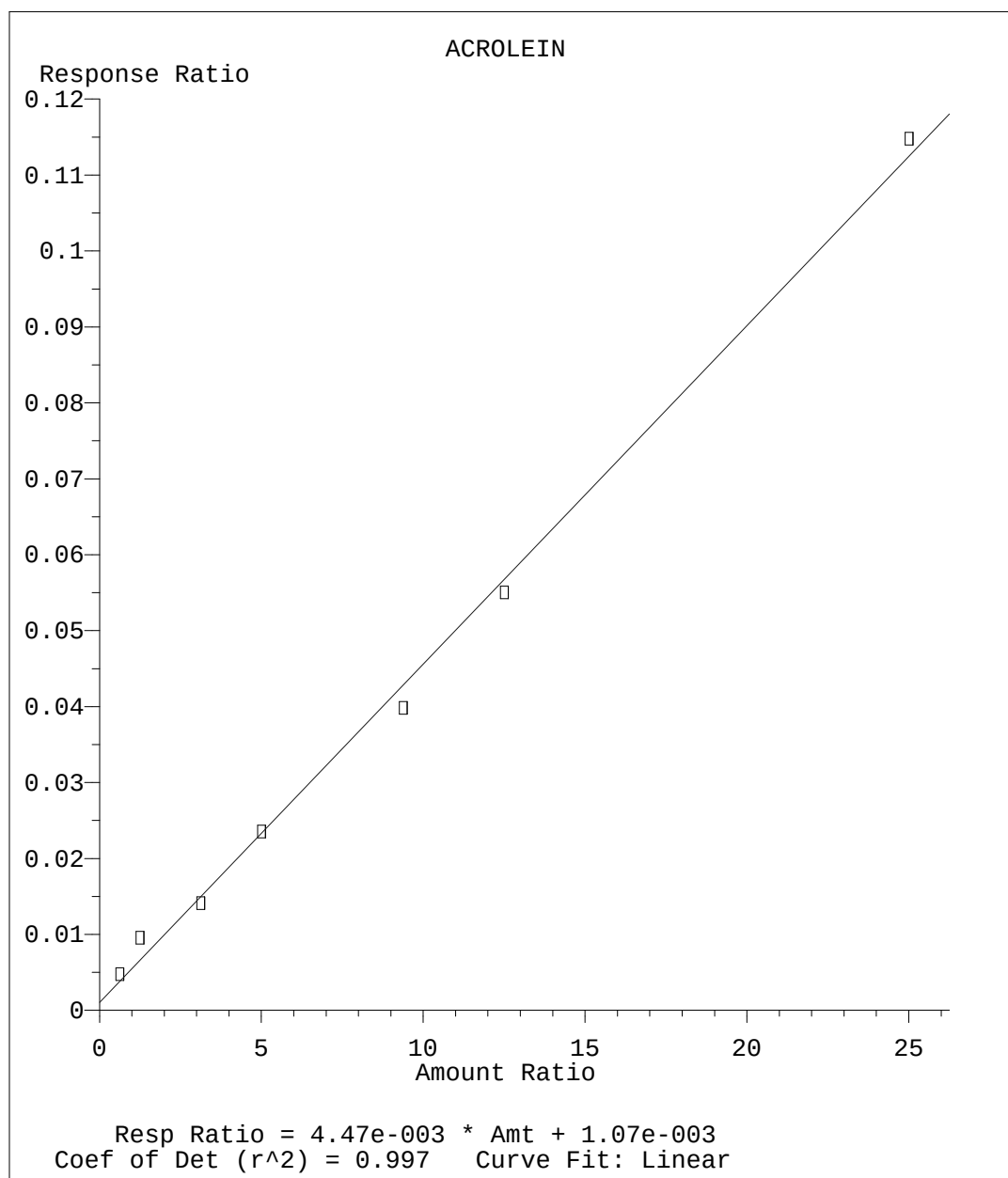
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Analysis date/time	09/22/17 10:09			
METHYL ACETATE	0.4620	0.501495	9.57	
CIS-1,3-DICHLOROPROPENE	3.0820	2.958413	6.92	
4-METHYL-2-PENTANONE (MIBK)	2.2980	2.566453	7.93	
2-HEXANONE	1.0050	1.001836	9.69	
CHLOROBENZENE	5.2010	4.881147	7.06	
M&P-XYLENE	3.5370	3.337895	7.42	
STYRENE	2.0810	1.78937	9.92	
ISOPROPYLBENZENE	3.1090	2.812292	10.92	
TERT-BUTYLBENZENE	2.2360	1.945318	8.54	
SEC-BUTYLBENZENE	2.77	3.024444	8.86	
1,3-DICHLOROBENZENE	1.4420	1.329822	6.89	
DIBROMOFLUOROMETHANE	0.4390	0.470311	5.21	
A,A,A-TRIFLUOROTOLUENE	0.52	0.52912	1.57	
TOLUENE-D8	6.4460	6.597955	1.98	
4-BROMOFLUOROBENZENE	0.8640	0.830785	3.43	
DICHLORODIFLUOROMETHANE	0.4580	0.46505	6.94	
CHLOROMETHANE	0.5290	0.58827	13.11	
VINYL CHLORIDE	0.5270	0.549494	7.51	
TRICHLOROFLUOROMETHANE	0.6010	0.613537	8.02	
1,1-DICHLOROETHENE	0.3340	0.343439	7.11	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.3770	0.379532	11.73	
ACETONE	0.15	0.167336	15.25	
CARBON DISULFIDE	1.2760	1.271609	6.37	
TRANS-1,2-DICHLOROETHENE	0.3880	0.417142	9.47	
METHYL TERT-BUTYL ETHER	1.4550	1.499421	7.24	
1,1-DICHLOROETHANE	0.7840	0.814961	8.4	
CIS-1,2-DICHLOROETHENE	0.4430	0.476585	12.75	
2-BUTANONE (MEK)	0.3230	0.327649	13.71	
BROMOCHLOROMETHANE	0.2830	0.296995	7.84	
CHLOROFORM	0.7860	0.788907	5.99	
CYCLOHEXANE	0.7150	0.693926	4.35	
1,1,1-TRICHLOROETHANE	0.6720	0.671922	6.26	
CARBON TETRACHLORIDE	0.6310	0.622616	5.06	
BENZENE	1.8330	1.809952	6.24	
1,2-DICHLOROETHANE	0.6740	0.651887	8.18	
TRICHLOROETHENE	0.30	0.290882	2.92	
METHYL CYCLOHEXANE	0.5650	0.723826	45.78	0.999
1,2-DICHLOROPROPANE	0.2190	0.222184	6.85	
BROMODICHLOROMETHANE	0.4240	0.422558	9.74	
TOLUENE	7.6470	7.116985	3.34	
TRANS-1,3-DICHLOROPROPENE	3.0630	2.807641	3.99	
1,1,2-TRICHLOROETHANE	1.5540	1.599516	7.77	
TETRACHLOROETHENE	1.58	1.432761	6.28	
CHLORODIBROMOMETHANE	1.9180	1.783129	4.47	
1,2-DIBROMOETHANE	1.76	1.748565	2.1	
ETHYLBENZENE	2.8220	2.643491	6.01	
O-XYLENE	3.3620	3.202567	4.55	
BROMOFORM	0.6080	0.507427	12.84	
1,1,2,2-TETRACHLOROETHANE	0.89	0.842411	3.8	
N-PROPYLBENZENE	3.2420	3.163366	7.36	

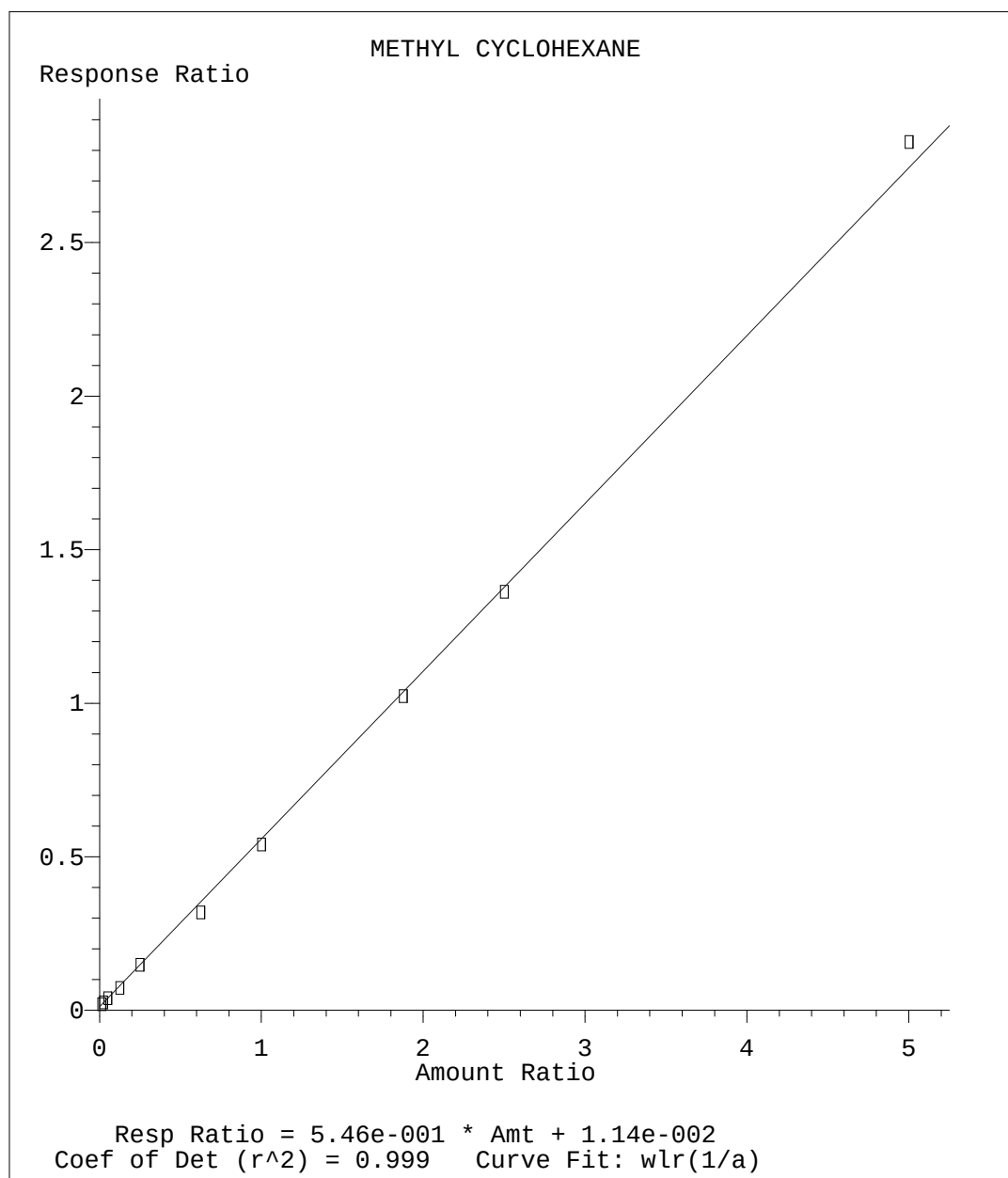


SDG: L937868
Instrument ID: VOCMS13

Analytical Method: 8260C

Analyte	RRF: 200	RRF. Avg	%RSD	COD
Analysis date/time	09/22/17 10:09			
1,3,5-TRIMETHYLBENZENE	2.6710	2.350511	9.5	
1,2,4-TRIMETHYLBENZENE	2.5220	2.45442	5.29	
P-ISOPROPYLTOLUENE	2.3130	2.45301	6.24	
1,4-DICHLOROBENZENE	1.4060	1.296643	4.22	
1,2-DICHLOROBENZENE	1.2850	1.169467	4.49	
N-BUTYLBENZENE	1.8740	2.106235	5.43	
1,2-DIBROMO-3-CHLOROPROPANE	0.2260	0.208468	6.98	
1,2,4-TRICHLOROBENZENE	1.0590	0.862796	10.17	
NAPHTHALENE	2.0690	2.187797	6.68	
1,2,3-TRICHLOROBENZENE	0.9980	0.806457	11.19	
BROMOMETHANE	0.2590	0.302991	14.95	
CHLOROETHANE	0.2760	0.322725	14.69	
METHYLENE CHLORIDE	0.4110	0.447034	14.65	
File ID:	0922_14			





Method Name: C:\msdchem\1\methods\V813I22Q.M

Method Path : C:\msdchem\1\methods\
 Method File : V813I22Q.M
 Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
 Last Update : Fri Sep 22 10:59:34 2017
 Response Via : Initial Calibration

Calibration Files

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 7.5a=0721_31.D 10a =0721_32.D 12a =0721_33.D 15a =0721_34.D 17a =0721_35.D 20a =0721_36.D

Compound	17a	20a	AVG	%RSD	0.25	0.5	1	2	5.0	10	25	40	75	100	200	1a	2.5a	5a	7.5a	10a	12a

1) I	8260-PENTAFLUOROB...																				
2) H	TPH (GC/MS) LO...																				
3) H	LRH (C5-C8)																				
4)	PROPENE																				
5) T, M	DICHLORODIFLUO...																				
6) P, T, M	CHLOROMETHANE																				
7) C, T, M	VINYL CHLORIDE																				
8)	1, 3-BUTADIENE																				
9) T, M	BROMOMETHANE																				
10) T, M	CHLOROETHANE																				
11) T, M	TRICHLOROFLUOR...																				
12)	DICHLOROFLUORO...																				
13) M, T	ETHYL ETHER																				
14) T, M	ACROLEIN																				
15) C, T, M	1, 1-DICHLOROET...																				
16) M, T	1, 1, 2-TRICHLOR...																				
17) T, M	ACETONE																				
18) T, M	IODOMETHANE																				
19) T, M	CARBON DISULFIDE																				

PA

Method Path : C:\msdchem\1\methods\ Method File : V813I22Q.M Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13 Last Update : Fri Sep 22 10:59:34 2017												
20) T	ALLYL CHLORIDE	0.281	0.278	0.281	0.253	0.262	0.248	0.242	0.244	0.248	0.255	
	0.259#	5.94										
21) T, M	METHYLENE CHLO...				0.598	0.469	0.451	0.434	0.405	0.401	0.411	
	0.447	14.65										
22) T	METHYL ACETATE	0.607	0.564	0.522	0.512	0.495	0.497	0.472	0.448	0.463	0.476	0.462
	0.501	9.57										
23) T, M	ACRYLONITRILE	0.275	0.259	0.249	0.240	0.236	0.224	0.212	0.213	0.218	0.223	
	0.235#	8.98										
24) T, M	n-HEXANE	0.496	0.456	0.423	0.371	0.398	0.347	0.357	0.364	0.367	0.370	
	0.395	12.38										
25) T, M	TRANS-1,2-DICH...	0.449	0.504	0.447	0.417	0.420	0.388	0.387	0.382	0.389	0.388	
	0.417	9.47										
26) T, M	METHYL TERT-BU...	1.710	1.577	1.637	1.491	1.492	1.428	1.396	1.389	1.418	1.455	
	1.499	7.24										
27) P, T, M1,	1-DICHLOROET...	0.922	0.921	0.879	0.805	0.816	0.767	0.756	0.745	0.755	0.784	
	0.815	8.40										
28) T, M	VINYL ACETATE	1.523	1.328	1.260	1.269	1.220	1.228	1.168	1.166	1.163	1.069	
	1.239	9.90										
29) T, M	DI-ISOPROPYL E...	2.007	1.656	1.673	1.660	1.555	1.559	1.477	1.443	1.454	1.500	1.575
	1.596	9.96										
30) T	ETHYL TERT-BUT...	1.569	1.560	1.513	1.486	1.454	1.380	1.364	1.387	1.408	1.527	
	1.465	5.25										
31) T, M	2,2-DICHLOROPR...	0.725	0.782	0.718	0.631	0.677	0.605	0.593	0.568	0.573	0.558	
	0.643	12.12										
32) T, M	CIS-1,2-DICHL...	0.599	0.542	0.534	0.467	0.465	0.437	0.420	0.428	0.433	0.443	
	0.477	12.75										
33) T, M	2-BUTANONE (MEK)	0.360	0.353	0.363	0.376	0.366	0.272	0.261	0.266	0.336	0.323	
	0.328	13.71										
34) T, M	BROMOCHLOROMET...	0.352	0.306	0.320	0.292	0.290	0.284	0.280	0.282	0.280	0.283	
	0.297#	7.84										
35) M, T	TETRAHYDROFURAN				0.252	0.218	0.211	0.218	0.208	0.201	0.187	0.200
	0.212#	9.14										
36) C, T, MCHLOROFORM		0.795	0.873	0.862	0.795	0.790	0.763	0.733	0.741	0.750	0.786	
	0.789	5.99#										
37) T	CYCLOHEXANE	0.678	0.678	0.752	0.653	0.731	0.669	0.693	0.684	0.686	0.715	
	0.694	4.35										
38) S	DIBROMOFLUOROM...	0.497	0.492	0.494	0.507	0.472	0.474	0.454	0.456	0.442	0.446	0.439
	0.470	5.21										
39) T, M	1,1,1-TRICHLOR...	0.719	0.714	0.743	0.617	0.688	0.643	0.634	0.642	0.648	0.672	
	0.672	6.26										
40) T, M	CARBON TETRACH...	0.682	0.665	0.627	0.590	0.635	0.587	0.603	0.603	0.604	0.631	
	0.623	5.06										
41) T, M	1,1-DICHLOROPR...	0.576	0.566	0.669	0.560	0.597	0.554	0.549	0.553	0.558	0.581	
	0.576	6.23										
42)	2,2,4-TRIMETHY...	1.636	1.540	1.611	1.443	1.583	1.510	1.535	1.571	1.480	1.644	
	1.555	4.26										
43) T	n-Heptane	0.485	0.467	0.447	0.397	0.433	0.380	0.388	0.389	0.390	0.399	
	0.417	9.00										
44) T, M	BENZENE	2.047	1.832	1.941	1.787	1.814	1.714	1.682	1.716	1.733	1.833	

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45) T	TERT-AMYL METH...	1.666	1.657	1.587	1.496	1.523	1.478	1.427	1.438	1.543
		5.56								
46) T, M	1, 2-DICHLOROET...	0.772	0.673	0.686	0.638	0.642	0.607	0.583	0.614	0.674
		8.18								
47) T	T-AMYL ALCOHOL	0.105	0.111	0.109	0.104	0.097	0.090	0.090	0.088	0.083
		0.097#	10.28							
-----ISTD-----										
48) I	8260-1, 4-DIFLUOROB...	0.300	0.300	0.295	0.273	0.287	0.286	0.285	0.293	0.300
49) T, M	TRICHLOROETHENE	0.291#	2.92							
50) T	METHYL CYCLOHE...	1.556	1.013	0.792	0.581	0.592	0.509	0.540	0.545	0.565
		0.724	45.78							
51) C, T, M1, 2-DICHLOROPR...		0.258	0.226	0.233	0.220	0.227	0.209	0.204	0.213	0.219
		6.85#								
52) T, M	DIBROMOMETHANE	0.230	0.217	0.203	0.202	0.196	0.191	0.184	0.187	0.196
		7.06								
53) T, M	BROMODICHLOROM...	0.524	0.457	0.427	0.411	0.406	0.391	0.389	0.396	0.424
		0.423	9.74							
54) S	A, A, A-TRIFLUOR...	0.545	0.534	0.536	0.524	0.522	0.526	0.519	0.525	0.520
		0.529	1.57							
-----ISTD-----										
55) I	8260-2-BROMO-1-CHL...	1.577	1.350	1.285	1.272	1.339	1.303	1.301	1.372	1.423
56) T, M	2-CHLOROETHYL...	1.352	6.37							
57) T, M	CIS-1, 3-DICHLOR...	3.456	3.135	2.929	2.721	2.769	2.876	2.883	2.845	2.965
		6.92								
58) T, M	4-METHYL-2-PEN...	3.079	2.539	2.456	2.448	2.523	2.447	2.538	2.522	2.726
		7.93								
59) S	TOLUENE-D8	6.766	6.722	6.650	6.755	6.504	6.522	6.555	6.654	6.361
		1.98								
60) T, M, CTOLUENE		7.169	6.942	7.239	6.894	6.867	6.974	6.985	7.274	7.178
		3.34#								
61) T, M	TRANS-1, 3-DICH...	2.832	2.785	2.777	2.669	2.695	2.792	2.737	2.897	2.830
		3.99								
62) T, M	1, 1, 2-TRICHLOR...	1.800	1.858	1.568	1.571	1.519	1.565	1.523	1.550	1.488
		7.77								
63) T, M	TETRACHLOROETHENE	1.481	1.330	1.318	1.325	1.393	1.424	1.476	1.519	1.481
		6.28								
64) T, M	1, 3-DICHLOROPR...	3.736	2.985	2.720	2.801	2.800	2.850	2.820	2.742	2.882
		9.75								
65) T, M	2-HEXANONE	1.281	1.039	0.974	0.955	0.939	0.956	0.955	0.951	0.969
		9.69								
66) T, M	CHLORODIBROMOM...	1.713	1.766	1.698	1.673	1.735	1.832	1.807	1.873	1.918
		4.47								
67) T, M	1, 2-DIBROMOETHANE	1.819	1.734	1.776	1.755	1.758	1.731	1.700	1.760	1.692
		2.10								
68) P, T, MCHLOROBENZENE		5.752	4.751	4.628	4.527	4.690	4.635	4.841	4.788	4.994
		4.881	7.06							

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69) T, M 1, 1, 1, 2-TETRAC...	1.787	1.694	1.748	1.664	1.679	1.747	1.726	1.810	1.746	1.757		
	1.736	2.67										
70) C, T, METHYLBENZENE	2.239	2.740	2.666	2.561	2.646	2.661	2.663	2.762	2.675	2.822		
	6.01#											
71) T, M M&P-XYLENE	3.911	3.022	3.142	3.283	3.062	3.242	3.325	3.332	3.463	3.397	3.537	
	7.42											
72) T, M O-XYLENE	2.954	3.108	3.259	3.007	3.123	3.286	3.276	3.375	3.276	3.362		
	3.203	4.55										
-----ISTD-----												
73) I 8260-1, 4-DICHLOROB...	1.949	1.563	1.653	1.572	1.653	1.747	1.782	1.746	1.949	1.987	2.081	
74) T, M STYRENE	9.92											
75) T, P, MBROMOFORM	0.451	0.448	0.430	0.465	0.477	0.505	0.520	0.574	0.596	0.608		
	12.84											
76) T, M ISOPROPYLBENZENE	3.204	2.768	2.544	2.519	2.245	2.706	2.790	2.783	3.111	3.157	3.109	
	10.92											
77) S 4-BROMOFLUOROB...	0.810	0.814	0.805	0.804	0.792	0.838	0.837	0.832	0.864	0.878	0.864	
	3.43											
78) T, M BROMOBENZENE	1.335	1.083	1.170	1.104	1.152	1.151	1.138	1.269	1.287	1.365		
	8.29											
79) P, T, M1, 1, 2, 2-TETRAC...	0.869	0.796	0.827	0.805	0.830	0.841	0.823	0.860	0.883	0.890		
	0.842											
80) T, M 1, 2, 3-TRICHLOR...	0.290	0.288	0.266	0.260	0.265	0.275	0.269	0.287	0.284	0.276		
	3.94											
81) T, M TRANS-1, 4-DICH...	0.212	0.249	0.276	0.278	0.251	0.258	0.254	0.273	0.275	0.284		
	8.16											
82) T, M N-PROPYLBENZENE	2.975	3.029	2.939	2.910	3.135	3.125	3.166	3.523	3.590	3.242		
	7.36											
83) 4-ETHYLTOLUENE	2.564	2.616	2.539	2.464	2.698	2.705	2.763	3.020	3.078	2.956		
	7.76											
84) T, M 2-CHLOROTOLUENE	2.105	1.812	1.965	1.928	1.992	2.050	2.047	2.287	2.312	2.389		
	8.88											
85) T, M 4-CHLOROTOLUENE	2.316	2.039	1.743	1.774	1.820	1.877	1.913	1.880	2.045	2.147		
	8.94											
86) T, M 1, 3, 5-TRIMETHY...	2.242	2.020	2.149	2.158	2.265	2.392	2.383	2.603	2.621	2.671		
	9.50											
87) T, M TERT-BUTYLBENZENE	2.101	1.842	1.696	1.818	1.743	1.920	1.932	1.951	2.068	2.091	2.236	
	8.54											
88) T, M 1, 2, 4-TRIMETHY...	2.556	2.401	2.225	2.323	2.422	2.409	2.433	2.603	2.651	2.522		
	5.29											
89) T, M SEC-BUTYLBENZENE	3.608	2.737	2.860	2.813	2.828	3.089	2.995	3.044	3.256	3.269	2.770	
	8.86											
90) T, M 1, 3-DICHLOROB...	1.533	1.359	1.277	1.272	1.254	1.258	1.281	1.239	1.347	1.366	1.442	
	6.89											
91) T, M P-ISOPROPYLTOL...	2.307	2.253	2.318	2.427	2.553	2.495	2.524	2.658	2.681	2.313		
	2.453											
92) DICYCLOPENTADIENE	3.138	2.627	2.574	2.687	2.639	2.723	2.708	2.683	2.854	2.878	2.473	
	2.726											
93) T, M 1, 4-DICHLOROB...	1.244	1.250	1.265	1.280	1.288	1.290	1.247	1.325	1.371	1.406		

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94)	M, T	1,2,3-TRIMETHY...	2.397	2.388	2.287	2.347	2.329	2.316	2.320	2.432	2.436	2.031	
			4.99										
95)	T, M	1,2-DICHLOROB...	1.135	1.207	1.096	1.186	1.146	1.146	1.128	1.181	1.186	1.285	
			4.49										
96)	T, M	N-BUTYLBENZENE	1.923	2.124	2.139	2.143	2.169	2.130	2.140	2.217	2.203	1.874	
			5.43										
97)	T, M	1,2-DIBROMO-3-...	0.242	0.203	0.196	0.207	0.208	0.205	0.198	0.199	0.202	0.226	
			6.98										
98)	T, M	1,2,4-TRICHLOR...	0.898	0.801	0.815	0.857	0.816	0.814	0.747	0.890	0.931	1.059	
			10.17										
99)	T, M	HEXACHLORO-1,3...	0.490	0.494	0.469	0.458	0.491	0.458	0.439	0.475	0.501	0.581	
			7.99										
100)	T, M	NAPHTHALENE	2.097	2.159	2.119	2.226	2.156	2.158	2.012	2.410	2.473	2.069	
			6.68										
101)	T, M	1,2,3-TRICHLOR...	0.853	0.765	0.764	0.772	0.744	0.740	0.692	0.850	0.886	0.998	
			11.19										
102)	m, t	1-METHYLNAPHTH...	1.497	1.103	1.076	1.075	1.151	1.084	1.122	1.125	1.531		
			1.196										
103)	m, t	2-METHYLNAPHTH...	0.943	0.883	0.882	0.944	0.907	0.920	0.938	1.212	1.271		
			0.989										
-----ISTD-----													
104)	I	AP9-PENTAFLUOROB...											
105)	T	ETHANOL											
106)	T	BROMOETHANE	0.000#										
			-1.00										
107)	T	2-PROPANOL	0.000#										
			-1.00										
108)	T	ACETONITRILE	0.000#										
			-1.00										
109)	T	TERT-BUTYL ALC...	0.000#										
			-1.00										
110)	T	CHLOROPRENE	0.000#										
			-1.00										
111)	T	PROPIONITRILE	0.000#										
			-1.00										
112)	T	ETHYL ACETATE	0.000#										
			-1.00										
113)	T	METHACRYLONITRILE	0.000#										
			-1.00										
114)		TERT-BUTYL FOR...	0.000#										
			-1.00										
115)	T	ISOBUTANOL	0.000#										
			-1.00										

116)	I	AP9-1,4-DIFLUOROB...											
117)	T	N-BUTANOL											
			0.000#										
			-1.00										

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118)	T	2-NITROPROPANE	0.000#	-1.00	
119)	T	METHYL METHACR...	0.000#	-1.00	
120)	T	1,4-DIOXANE	0.000#	-1.00	
121)	I	AP9-2-BROMO-1-CHLO...			ISTD-----
122)	T	N-OCTANE	0.000#	-1.00	
123)		3,3-DIMETHYL-1...	0.000#	-1.00	
124)	T	ETHYL METHACRY...	0.000#	-1.00	
125)	I	AP9-1,4-DICHLOROB...			ISTD-----
126)	T	CIS-1,4-DICHLOR...	0.000#	-1.00	
127)	T	CYCLOHEXANONE	0.000#	-1.00	
128)	T	PENTACHLOROETHANE	0.000#	-1.00	
129)	T	HEXACHLOROETHANE	0.000#	-1.00	

(#) = Out of Range					

Data Path : C:\msdchem\1\data\092217\
 Data File : 0922_04.D
 Acq On : 22 Sep 2017 6:55 am
 Operator : 605
 Sample : STD VMS 0.25 ppb 17I22108
 Misc : water IS/SURR 17H10686
 ALS Vial : 4 Sample Multiplier: 1
 InstName : VOCMS13

Quant Time: Sep 22 10:40:21 2017

Quant Method : C:\msdchem\1\methods\V813I22Q.M

Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13

QLast Update : Fri Sep 22 10:36:45 2017

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.286	168	660954	40.00000000	ppb	0.00
48) 8260-1,4-DIFLUOROBENZENE	4.615	114	1023405	40.00000000	ppb	0.00
55) 8260-2-BROMO-1-CHLOROP...	5.765	79	184748	40.00000000	ppb	0.00
73) 8260-1,4-DICHLOROBENZE...	7.900	152	577328	40.00000000	ppb	0.00
104) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.00000000	ppb	-4.29
116) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.00000000	ppb	-4.61
121) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.00000000	ppb	-5.77
125) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.00000000	ppb	-7.90
System Monitoring Compounds						
38) DIBROMOFLUOROMETHANE	4.049	111	328551	43.8155914	ppb	0.00
Spiked Amount	40.000	Range 79 - 121	Recovery	= 109.54%		
54) A,A,A-TRIFLUOROTOLUENE	4.980	146	557997	42.0431450	ppb	0.00
Spiked Amount	40.000	Range 90 - 116	Recovery	= 105.11%		
59) TOLUENE-D8	5.436	98	1250060	41.2872391	ppb	0.00
Spiked Amount	40.000	Range 90 - 115	Recovery	= 103.22%		
77) 4-BROMOFLUOROBENZENE	7.285	95	467767	38.7121313	ppb	0.00
Spiked Amount	40.000	Range 80 - 120	Recovery	= 96.78%		
Target Compounds						Qvalue
4) PROPENE	1.615	41	3896	0.5720446	ppb	99
5) DICHLORODIFLUOROMETHANE	1.676	85	3219	0.4672331	ppb	91
6) CHLOROMETHANE	1.822	50	4478	0.5071389	ppb	# 91
7) VINYL CHLORIDE	1.901	62	3371	0.3922327	ppb	# 89
8) 1,3-BUTADIENE	1.914	39	3064	0.4328129	ppb	96
9) BROMOMETHANE	2.163	94	2605	0.5391451	ppb	94
10) CHLOROETHANE	2.260	64	2352	0.4735972	ppb	93
11) TRICHLOROFLUOROMETHANE	2.364	101	4117	0.4412231	ppb	# 89
12) DICHLOROFLUOROMETHANE	2.400	67	6633	0.5736255	ug/l	89
13) ETHYL ETHER	2.558	59	2298	0.4057987	ppb	# 75
14) ACROLEIN	2.923	56	968	12.9905660	ppb	96
15) 1,1-DICHLOROETHENE	2.698	96	3051	0.5846506	ppb	# 58
16) 1,1,2-TRICHLOROTRIFLUO...	2.729	101	3208	0.5500065	ppb	# 84
17) ACETONE	3.082	43	6832	2.7127369	ppb	# 86
18) IODOMETHANE	2.808	142	17081	1.6422658	ppb	# 97
19) CARBON DISULFIDE	2.735	76	8099	0.4126988	ppb	# 92
20) ALLYL CHLORIDE	2.990	76	7765	1.8917437	ppb	85
21) METHYLENE CHLORIDE	3.057	84	5040	0.7022768	ppb	96
22) METHYL ACETATE	3.142	43	12533	1.6085572	ppb	# 81
23) ACRYLONITRILE	3.538	53	7154	1.9366155	ppb	# 92
24) n-HEXANE	3.191	56	3141	0.5477392	ppb	# 79
25) TRANS-1,2-DICHLOROETHENE	3.149	96	2860	0.4458275	ppb	# 86
26) METHYL TERT-BUTYL ETHER	3.197	73	9076	0.3847192	ppb	# 83
27) 1,1-DICHLOROETHANE	3.507	63	4825	0.3807066	ppb	92
28) VINYL ACETATE	3.617	43	31462	1.6299456	ppb	# 92
29) DI-ISOPROPYL ETHER	3.392	45	8289	0.3395228	ppb	100
30) ETHYL TERT-BUTYL ETHER	3.605	59	8186	0.3590874	ppb	# 89
31) 2,2-DICHLOROPROPANE	3.879	77	3976	0.3975627	ppb	# 78
32) CIS-1,2-DICHLOROETHENE	3.812	96	3048	0.4225829	ppb	# 83
33) 2-BUTANONE (MEK)	4.116	43	11163	2.4856956	ppb	99
34) BROMOCHLOROMETHANE	3.921	130	2070	0.4403711	ppb	97
35) TETRAHYDROFURAN	4.049	42	1788	0.4969900	ppb	# 73
36) CHLOROFORM	3.946	83	4872	0.3864661	ppb	93
37) CYCLOHEXANE	3.933	84	4572	0.4137714	ppb	96

Data Path : C:\msdchem\1\data\092217\
 Data File : 0922_04.D
 Acq On : 22 Sep 2017 6:55 am
 Operator : 605
 Sample : STD VMS 0.25 ppb 17I22108
 Misc : water IS/SURR 17H10686
 ALS Vial : 4 Sample Multiplier: 1
 InstName : VOCMS13

Quant Time: Sep 22 10:40:21 2017

Quant Method : C:\msdchem\1\methods\V813I22Q.M

Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13

QLast Update : Fri Sep 22 10:36:45 2017

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 1,1,1-TRICHLOROETHANE	4.085	97	4189	0.3942382	ppb	96
40) CARBON TETRACHLORIDE	4.049	117	4511	0.4650615	ppb	90
41) 1,1-DICHLOROPROPENE	4.140	75	3560	0.3887433	ppb #	89
42) 2,2,4-TRIMETHYLPENTANE	4.189	57	8970	0.3595205	ppb #	86
43) n-Heptane	4.225	71	2882	0.4593713	ppb #	75
44) BENZENE	4.286	78	9982	0.3523841	ppb #	1
45) TERT-AMYL METHYL ETHER	4.317	73	10372	0.4247387	ppb #	69
46) 1,2-DICHLOROETHANE	4.402	62	4047	0.4032661	ppb #	94
47) T-AMYL ALCOHOL	4.402	59	2975	1.9925250	ppb #	70
49) TRICHLOROETHENE	4.609	130	3264	0.4455250	ppb #	49
50) METHYL CYCLOHEXANE	4.615	83	19398	1.4882770	ppb #	62
51) 1,2-DICHLOROPROPANE	4.919	62	1963	0.3669668	ppb #	87
52) DIBROMOMETHANE	4.864	93	2055	0.4215239	ppb	86
53) BROMODICHLOROMETHANE	4.937	83	3693	0.3689428	ppb #	87
56) 2-CHLOROETHYL VINYL ETHER	5.253	63	9103	1.5153870	ppb	97
57) CIS-1,3-DICHLOROPROPENE	5.320	75	3991	0.2996709	ppb #	45
58) 4-METHYL-2-PENTANONE (...)	5.679	43	17774	1.5163981	ppb	98
60) TOLUENE	5.466	91	13441	0.4172868	ppb	95
61) TRANS-1,3-DICHLOROPROPENE	5.710	75	4398	0.3410794	ppb #	84
62) 1,1,2-TRICHLOROETHANE	5.825	97	3052	0.4223061	ppb	89
63) TETRACHLOROETHENE	5.722	164	2186	0.3324064	ppb #	85
64) 1,3-DICHLOROPROPANE	6.008	76	4314	0.3311858	ppb #	60
65) 2-HEXANONE	6.221	58	7395	1.6757357	ppb	88
66) CHLORODIBROMOMETHANE	5.947	129	2794	0.3301971	ppb #	74
67) 1,2-DIBROMOETHANE	6.123	107	2779	0.3475609	ppb	94
68) CHLOROBENZENE	6.464	112	6642	0.2970856	ppb #	81
69) 1,1,1,2-TETRACHLOROETHANE	6.495	133	2944	0.3648350	ppb #	97
70) ETHYLBENZENE	6.458	106	3992	0.3248478	ppb	95
71) M&P-XYLENE	6.549	106	9032	0.5881087	ppb	91
72) O-XYLENE	6.866	106	5665	0.3732623	ppb	98
74) STYRENE	6.896	104	7032	0.2733956	ppb #	69
75) BROMOFORM	6.939	173	2435	0.3341289	ppb	96
76) ISOPROPYLBENZENE	7.079	105	11560	0.2870722	ppb #	92
78) BROMOBENZENE	7.364	77	6310	0.3797630	ppb #	84
79) 1,1,2,2-TETRACHLOROETHANE	7.395	83	4475	0.3685528	ppb #	95
80) 1,2,3-TRICHLOROPROPANE	7.498	110	2031	0.5122065	ppb #	37
81) TRANS-1,4-DICHLORO-2-B...	7.510	53	1667	0.4472848	ppb #	89
82) N-PROPYLBENZENE	7.358	91	14313	0.3173069	ppb #	95
83) 4-ETHYLTOLUENE	7.419	105	18021	0.4616122	ppb	98
84) 2-CHLOROTOLUENE	7.468	91	9229	0.3119778	ppb #	89
85) 4-CHLOROTOLUENE	7.571	91	8357	0.3026991	ppb	92
86) 1,3,5-TRIMETHYLBENZENE	7.468	105	11598	0.3358736	ppb	93
87) TERT-BUTYLBENZENE	7.669	119	7581	0.2718535	ppb	89
88) 1,2,4-TRIMETHYLBENZENE	7.705	105	17930	0.5157215	ppb	95
89) SEC-BUTYLBENZENE	7.766	105	13019	0.3012051	ppb	95
90) 1,3-DICHLOROBENZENE	7.869	146	5530	0.2991549	ppb #	80
91) P-ISOPROPYLTOLUENE	7.821	119	11727	0.3256200	ppb	95
92) DICYCLOPENTADIENE	7.827	66	11323	0.2897147	ppb #	91
93) 1,4-DICHLOROBENZENE	7.906	146	6345	0.3408798	ppb #	1
94) 1,2,3-TRIMETHYLBENZENE	7.900	105	13404	0.4010226	ppb	100
95) 1,2-DICHLOROBENZENE	8.046	146	5816	0.3514894	ppb	90
96) N-BUTYLBENZENE	7.979	91	10918	0.3551695	ppb	93
97) 1,2-DIBROMO-3-CHLOROPR...	8.295	157	1104	0.3737820	ppb #	30
98) 1,2,4-TRICHLOROBENZENE	8.508	180	4186	0.3562349	ppb	93
99) HEXACHLORO-1,3-BUTADIENE	8.490	225	2312	0.3500246	ppb	94

Data Path : C:\msdchem\1\data\092217\
Data File : 0922_04.D
Acq On : 22 Sep 2017 6:55 am
Operator : 605
Sample : STD VMS 0.25 ppb 17I22108
Misc : water IS/SURR 17H10686
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS13

Quant Time: Sep 22 10:40:21 2017
Quant Method : C:\msdchem\1\methods\V813I22Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
QLast Update : Fri Sep 22 10:36:45 2017
Response via : Initial Calibration

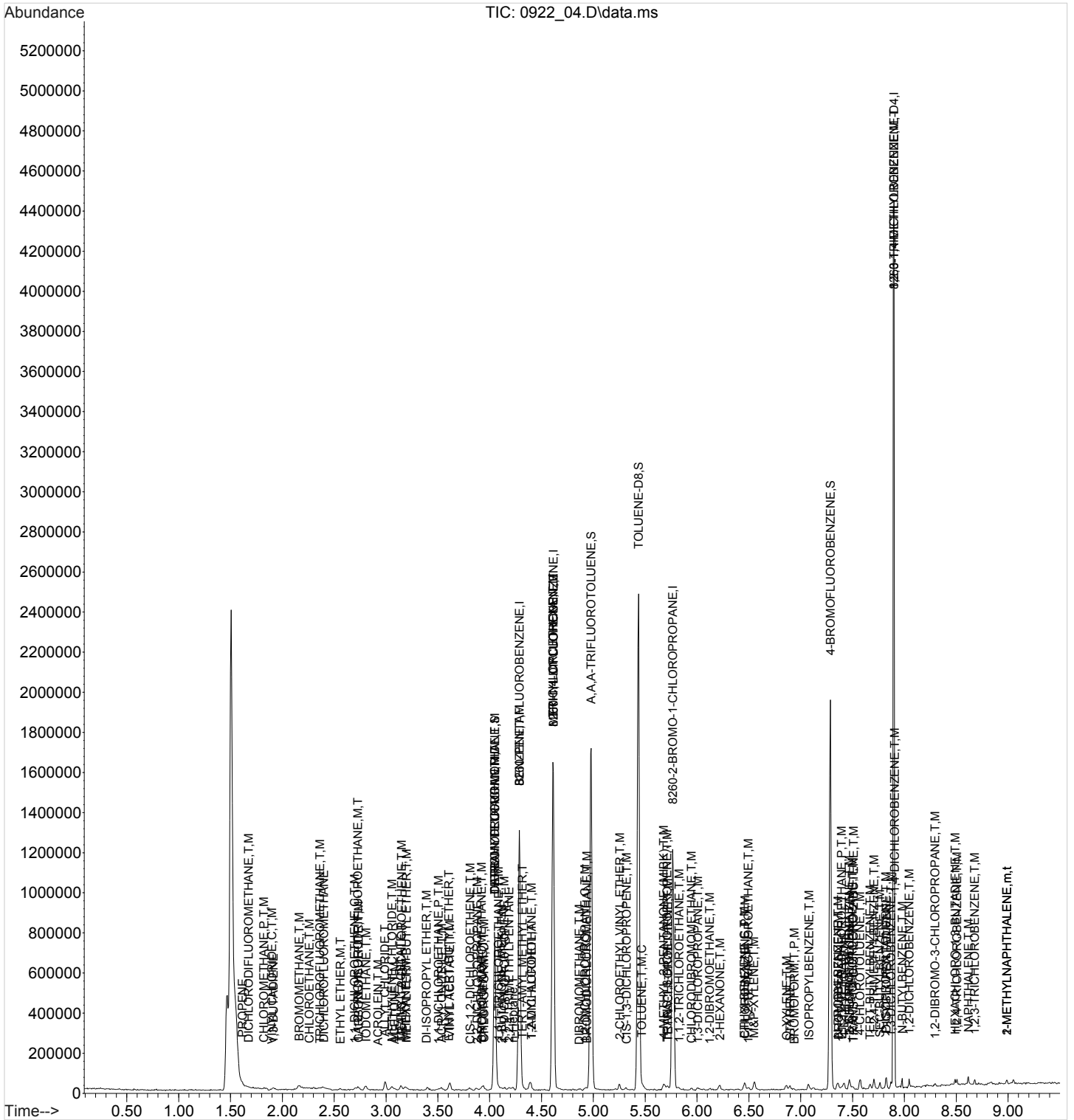
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
100) NAPHTHALENE	8.618	128	12791	0.4106835	ppb		98
101) 1,2,3-TRICHLOROBENZENE	8.679	180	3695	0.3461418	ppb		99
102) 1-METHYLNAPHTHALENE	8.989	142	5401	0.3336286	ppb		93
103) 2-METHYLNAPHTHALENE	8.989	142	5401	0.4067673	ppb		93

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

(QT Reviewed)

Data Path : C:\msdchem\1\data\092217\
Data File : 0922_04.D
Acq On : 22 Sep 2017 6:55 am
Operator : 605
Sample : STD VMS 0.25 ppb 17I22108
Misc : water IS/SURR 17H10686
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS13

Quant Time: Sep 22 10:40:21 2017
Quant Method : C:\msdchem\1\methods\V813I22Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
QLast Update : Fri Sep 22 10:36:45 2017
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\092217\
 Data File : 0922_05.D
 Acq On : 22 Sep 2017 7:14 am
 Operator : 605
 Sample : STD VMS 0.5 ppb 17I22108
 Misc : water IS/SURR 17H10686
 ALS Vial : 5 Sample Multiplier: 1
 InstName : VOCMS13

Quant Time: Sep 22 12:28:29 2017

Quant Method : C:\msdchem\1\methods\V813I22Q.M

Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13

QLast Update : Fri Sep 22 10:36:45 2017

Response via : Initial Calibration

Compound			R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards								
1)	8260-PENTAFLUOROBENZENE		4.292	168	649587	40.00000000	ppb	0.00
48)	8260-1,4-DIFLUOROBENZENE		4.615	114	1022011	40.00000000	ppb	0.00
55)	8260-2-BROMO-1-CHLOROP...		5.771	79	181671	40.00000000	ppb	0.00
73)	8260-1,4-DICHLOROBENZE...		7.900	152	561844	40.00000000	ppb	0.00
104)	AP9-PENTAFLUOROBENZENE		0.000	168	0m	40.00000000	ppb	-4.29
116)	AP9-1,4-DIFLUOROBENZENE		0.000	114	0m	40.00000000	ppb	-4.61
121)	AP9-2-BROMO-1-CHLOROPR...		0.000	79	0m	40.00000000	ppb	-5.77
125)	AP9-1,4-DICHLOROBENZEN...		0.000	152	0m	40.00000000	ppb	-7.90
System Monitoring Compounds								
38)	DIBROMOFLUOROMETHANE		4.055	111	319373	43.3369151	ppb	0.00
	Spiked Amount	40.000	Range	79 - 121	Recovery	=	108.34%	
54)	A,A,A-TRIFLUOROTOLUENE		4.980	146	545776	41.1784248	ppb	0.00
	Spiked Amount	40.000	Range	90 - 116	Recovery	=	102.95%	
59)	TOLUENE-D8		5.436	98	1221237	41.0184340	ppb	0.00
	Spiked Amount	40.000	Range	90 - 115	Recovery	=	102.55%	
77)	4-BROMOFLUOROBENZENE		7.285	95	457582	38.9128741	ppb	0.00
	Spiked Amount	40.000	Range	80 - 120	Recovery	=	97.28%	
Target Compounds							Qvalue	
4)	PROPENE		1.615	41	4513	0.6742332	ppb	94
5)	DICHLORODIFLUOROMETHANE		1.676	85	3881	0.5731789	ppb	# 84
6)	CHLOROMETHANE		1.828	50	5762	0.6639724	ppb	96
7)	VINYL CHLORIDE		1.901	62	4288	0.5076609	ppb	# 83
8)	1,3-BUTADIENE		1.920	39	4795	0.6891821	ppb	93
9)	BROMOMETHANE		2.175	94	3221	0.6783012	ppb	# 81
10)	CHLOROETHANE		2.273	64	3802	0.7789648	ppb	95
11)	TRICHLOROFLUOROMETHANE		2.358	101	5275	0.5752197	ppb	94
12)	DICHLOROFLUOROMETHANE		2.400	67	7193	0.6329398	ug/l	# 83
13)	ETHYL ETHER		2.558	59	4071	0.7314685	ppb	84
14)	ACROLEIN		2.905	56	844	11.5246852	ppb	98
15)	1,1-DICHLOROETHENE		2.698	96	2894	0.5642696	ppb	# 89
16)	1,1,2-TRICHLOROTRIFLUO...		2.729	101	2367	0.4129197	ppb	# 83
17)	ACETONE		3.082	43	8328	3.3646078	ppb	# 82
18)	IODOMETHANE		2.808	142	26943	2.6357852	ppb	94
19)	CARBON DISULFIDE		2.735	76	10956	0.5680515	ppb	96
20)	ALLYL CHLORIDE		2.996	76	11422	2.8313718	ppb	89
21)	METHYLENE CHLORIDE		3.057	84	6381	0.9046913	ppb	95
22)	METHYL ACETATE		3.142	43	22886	2.9887203	ppb	# 96
23)	ACRYLONITRILE		3.538	53	11166	3.0755728	ppb	91
24)	n-HEXANE		3.197	56	4031	0.7152413	ppb	# 73
25)	TRANS-1,2-DICHLOROETHENE		3.149	96	3647	0.5784563	ppb	# 92
26)	METHYL TERT-BUTYL ETHER		3.203	73	13885	0.5988654	ppb	99
27)	1,1-DICHLOROETHANE		3.507	63	7483	0.6007624	ppb	99
28)	VINYL ACETATE		3.623	43	53898	2.8411446	ppb	100
29)	DI-ISOPROPYL ETHER		3.398	45	13447	0.5604361	ppb	95
30)	ETHYL TERT-BUTYL ETHER		3.605	59	12739	0.5685879	ppb	94
31)	2,2-DICHLOROPROPANE		3.879	77	5886	0.5988436	ppb	# 90
32)	CIS-1,2-DICHLOROETHENE		3.812	96	4867	0.6865816	ppb	84
33)	2-BUTANONE (MEK)		4.116	43	14620	3.3124421	ppb	97
34)	BROMOCHLOROMETHANE		3.927	130	2860	0.6190824	ppb	91
35)	TETRAHYDROFURAN		4.055	42	2341	0.6620877	ppb	# 62
36)	CHLOROFORM		3.946	83	6458	0.5212379	ppb	# 90
37)	CYCLOHEXANE		3.939	84	5504	0.5068350	ppb	89

Data Path : C:\msdchem\1\data\092217\
 Data File : 0922_05.D
 Acq On : 22 Sep 2017 7:14 am
 Operator : 605
 Sample : STD VMS 0.5 ppb 17I22108
 Misc : water IS/SURR 17H10686
 ALS Vial : 5 Sample Multiplier: 1
 InstName : VOCMS13

Quant Time: Sep 22 12:28:29 2017

Quant Method : C:\msdchem\1\methods\V813I22Q.M

Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13

QLast Update : Fri Sep 22 10:36:45 2017

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
39) 1,1,1-TRICHLOROETHANE	4.085	97	5835	0.5587571	ppb		93
40) CARBON TETRACHLORIDE	4.049	117	5536	0.5807211	ppb	#	79
41) 1,1-DICHLOROPROPENE	4.152	75	4673	0.5192095	ppb	#	89
42) 2,2,4-TRIMETHYLPENTANE	4.189	57	13281	0.5416215	ppb		97
43) n-Heptane	4.231	71	3935	0.6381879	ppb	#	78
44) BENZENE	4.292	78	16618	0.5969136	ppb	#	25
45) TERT-AMYL METHYL ETHER	4.323	73	13527	0.5636309	ppb	#	65
46) 1,2-DICHLOROETHANE	4.402	62	6269	0.6356099	ppb	#	93
47) T-AMYL ALCOHOL	4.396	59	4257	2.9010444	ppb		87
49) TRICHLOROETHENE	4.615	130	3829	0.5233585	ppb	#	93
50) METHYL CYCLOHEXANE	4.615	83	19883m	1.5275685	ppb		
51) 1,2-DICHLOROPROPANE	4.931	62	3293	0.6164391	ppb		91
52) DIBROMOMETHANE	4.870	93	2934	0.6026462	ppb		85
53) BROMODICHLOROMETHANE	4.937	83	6691	0.6693645	ppb	#	79
56) 2-CHLOROETHYL VINYL ETHER	5.253	63	15325	2.5943802	ppb		93
57) CIS-1,3-DICHLOROPROPENE	5.314	75	7119	0.5435956	ppb	#	90
58) 4-METHYL-2-PENTANONE (...)	5.685	43	28827	2.5010458	ppb		97
60) TOLUENE	5.466	91	16280	0.5139864	ppb		97
61) TRANS-1,3-DICHLOROPROPENE	5.716	75	6431	0.5071925	ppb	#	89
62) 1,1,2-TRICHLOROETHANE	5.825	97	4087	0.5750977	ppb		96
63) TETRACHLOROETHENE	5.722	164	3363	0.5200441	ppb		93
64) 1,3-DICHLOROPROPANE	6.014	76	6779	0.5292384	ppb		98
65) 2-HEXANONE	6.221	58	11798	2.7187537	ppb		100
66) CHLORODIBROMOMETHANE	5.947	129	3890	0.4675096	ppb	#	85
67) 1,2-DIBROMOETHANE	6.130	107	4131	0.5254020	ppb		97
68) CHLOROBENZENE	6.464	112	10790	0.4907930	ppb	#	85
69) 1,1,1,2-TETRACHLOROETHANE	6.495	133	4059	0.5115308	ppb	#	99
70) ETHYLBENZENE	6.458	106	5085	0.4207989	ppb		72
71) M&P-XYLENE	6.555	106	13727	0.9089572	ppb		91
72) O-XYLENE	6.866	106	6708	0.4494707	ppb		91
74) STYRENE	6.896	104	10975	0.4384541	ppb	#	78
75) BROMOFORM	6.939	173	3166	0.4464090	ppb		96
76) ISOPROPYLBENZENE	7.079	105	19437	0.4959859	ppb		93
78) BROMOBENZENE	7.364	77	9379	0.5800250	ppb	#	85
79) 1,1,2,2-TETRACHLOROETHANE	7.395	83	6104	0.5165687	ppb		87
80) 1,2,3-TRICHLOROPROPANE	7.498	110	2039	0.5283957	ppb	#	91
81) TRANS-1,4-DICHLORO-2-B...	7.510	53	1487	0.4099835	ppb	#	64
82) N-PROPYLBENZENE	7.352	91	20896	0.4760131	ppb	#	96
83) 4-ETHYLTOLUENE	7.425	105	18004	0.4738864	ppb		100
84) 2-CHLOROTOLUENE	7.474	91	14787	0.5136367	ppb		97
85) 4-CHLOROTOLUENE	7.571	91	14321	0.5330169	ppb	#	88
86) 1,3,5-TRIMETHYLBENZENE	7.474	105	15749	0.4686544	ppb		91
87) TERT-BUTYLBENZENE	7.675	119	12938	0.4767410	ppb		97
88) 1,2,4-TRIMETHYLBENZENE	7.705	105	17948	0.5304664	ppb		95
89) SEC-BUTYLBENZENE	7.766	105	19222	0.4569726	ppb		97
90) 1,3-DICHLOROBENZENE	7.869	146	9544	0.5305279	ppb		97
91) P-ISOPROPYLTOLUENE	7.821	119	16203	0.4623027	ppb		95
92) DICYCLOPENTADIENE	7.827	66	18452	0.4851313	ppb	#	91
93) 1,4-DICHLOROBENZENE	7.906	146	8734	0.4821584	ppb	#	1
94) 1,2,3-TRIMETHYLBENZENE	7.900	105	16837	0.5176139	ppb		95
95) 1,2-DICHLOROBENZENE	8.046	146	7968	0.4948164	ppb		94
96) N-BUTYLBENZENE	7.979	91	13508	0.4515341	ppb		96
97) 1,2-DIBROMO-3-CHLOROPR...	8.301	157	1701	0.5917803	ppb	#	83
98) 1,2,4-TRICHLOROBENZENE	8.508	180	6307	0.5515273	ppb		93
99) HEXACHLORO-1,3-BUTADIENE	8.490	225	3443	0.5356173	ppb		92

Data Path : C:\msdchem\1\data\092217\
Data File : 0922_05.D
Acq On : 22 Sep 2017 7:14 am
Operator : 605
Sample : STD VMS 0.5 ppb 17I22108
Misc : water IS/SURR 17H10686
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS13

Quant Time: Sep 22 12:28:29 2017
Quant Method : C:\msdchem\1\methods\V813I22Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
QLast Update : Fri Sep 22 10:36:45 2017
Response via : Initial Calibration

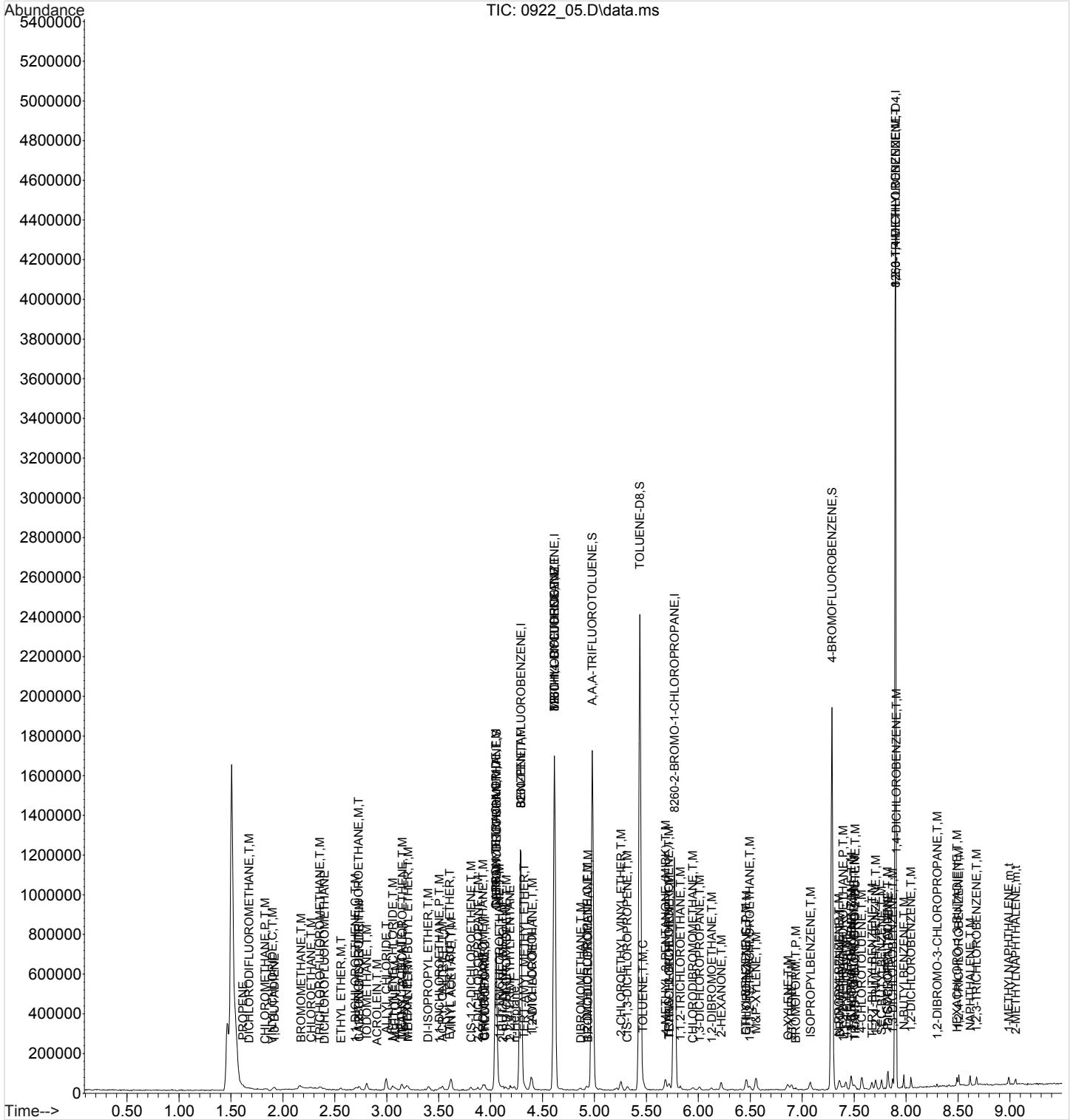
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
100) NAPHTHALENE	8.618	128	14730	0.4859733	ppb	#	92
101) 1,2,3-TRICHLOROBENZENE	8.679	180	5994	0.5769832	ppb		97
102) 1-METHYLNAPHTHALENE	8.989	142	7746	0.4916697	ppb	#	89
103) 2-METHYLNAPHTHALENE	9.056	142	6625m	0.5127015	ppb		

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

(QT Reviewed)

Data Path : C:\msdchem\1\data\092217\
Data File : 0922_05.D
Acq On : 22 Sep 2017 7:14 am
Operator : 605
Sample : STD VMS 0.5 ppb 17I22108
Misc : water IS/SURR 17H10686
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS13

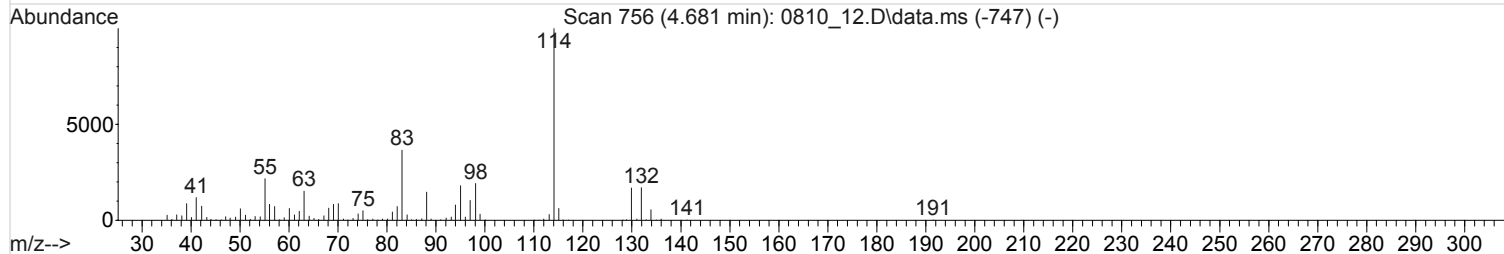
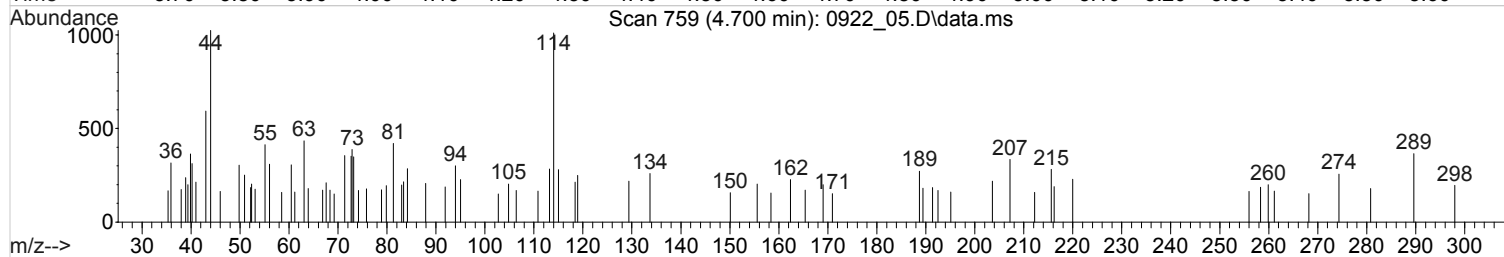
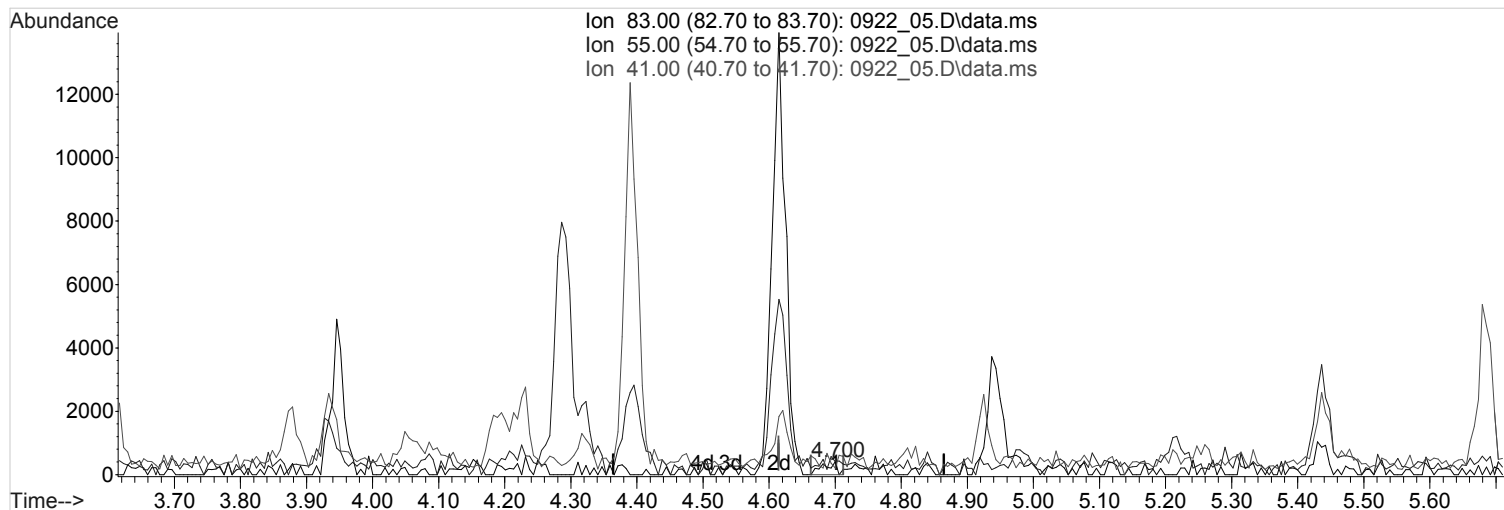
Quant Time: Sep 22 12:28:29 2017
Quant Method : C:\msdchem\1\methods\V813I22Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
QLast Update : Fri Sep 22 10:36:45 2017
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092217\
 Data File : 0922_05.D
 Acq On : 22 Sep 2017 7:14 am
 Operator : 605
 Sample : STD VMS 0.5 ppb 17I22108
 Misc : water IS/SURR 17H10686
 ALS Vial : 5 Sample Multiplier: 1
 InstName : VOCMS13

Quant Time: Sep 22 10:40:47 2017
 Quant Method : C:\msdchem\1\methods\V813I22Q.M
 Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
 QLast Update : Fri Sep 22 10:36:45 2017
 Response via : Initial Calibration



TIC: 0922_05.D\data.ms

(50) METHYL CYCLOHEXANE (T)

4.700min (+0.085) 0.0486320 ppb

Qvalue = 96

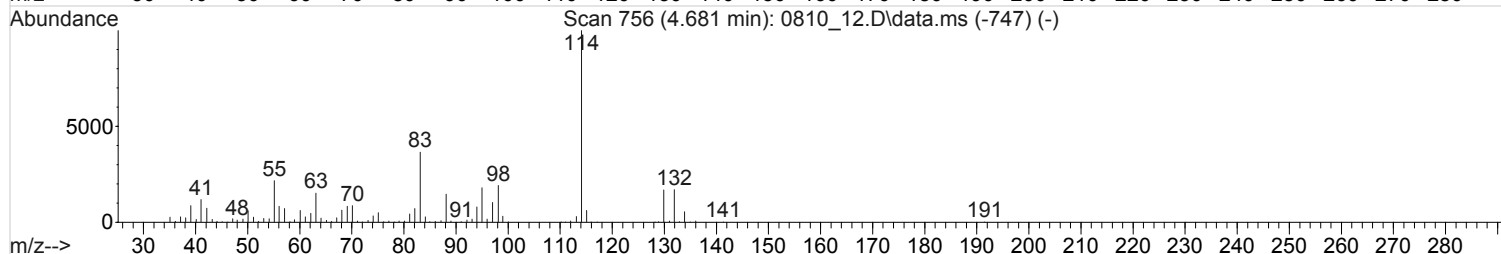
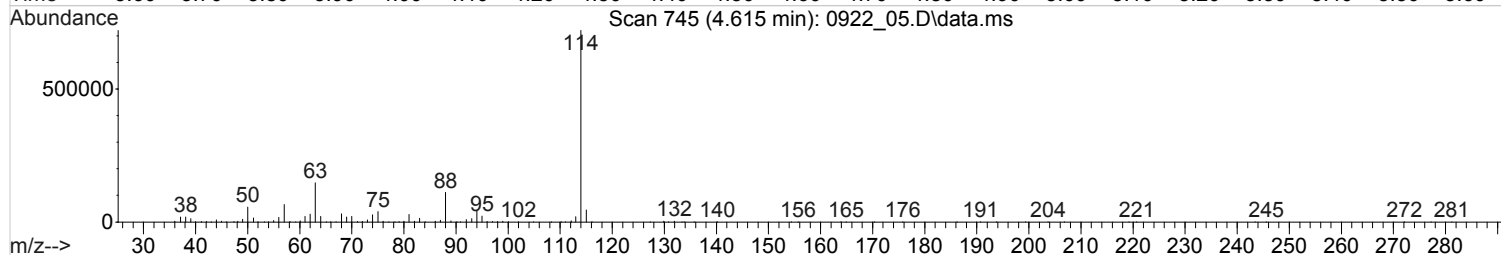
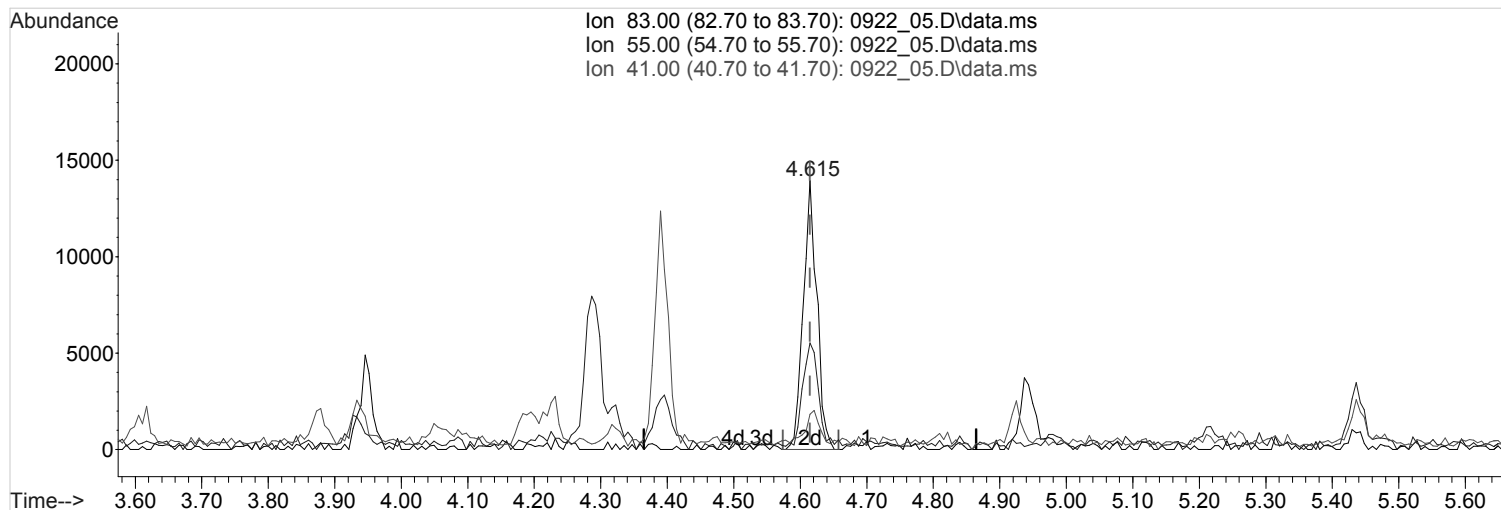
response 633

Ion	Exp%	Act%
83.00	100	100
55.00	74.40	69.83
41.00	43.90	45.66
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092217\
 Data File : 0922_05.D
 Acq On : 22 Sep 2017 7:14 am
 Operator : 605
 Sample : STD VMS 0.5 ppb 17I22108
 Misc : water IS/SURR 17H10686
 ALS Vial : 5 Sample Multiplier: 1
 InstName : VOCMS13

Quant Time: Sep 22 10:40:47 2017
 Quant Method : C:\msdchem\1\methods\V813I22Q.M
 Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
 QLast Update : Fri Sep 22 10:36:45 2017
 Response via : Initial Calibration



TIC: 0922_05.D\data.ms

(50) METHYL CYCLOHEXANE (T)

4.615min (+0.000) 1.5275685 ppb m

response 19883

Ion	Exp%	Act%

83.00	100	100

55.00	74.40	2.22#

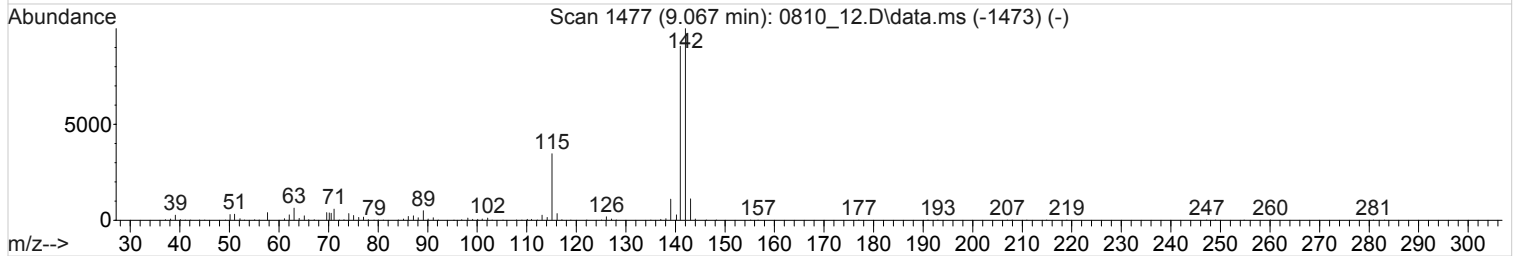
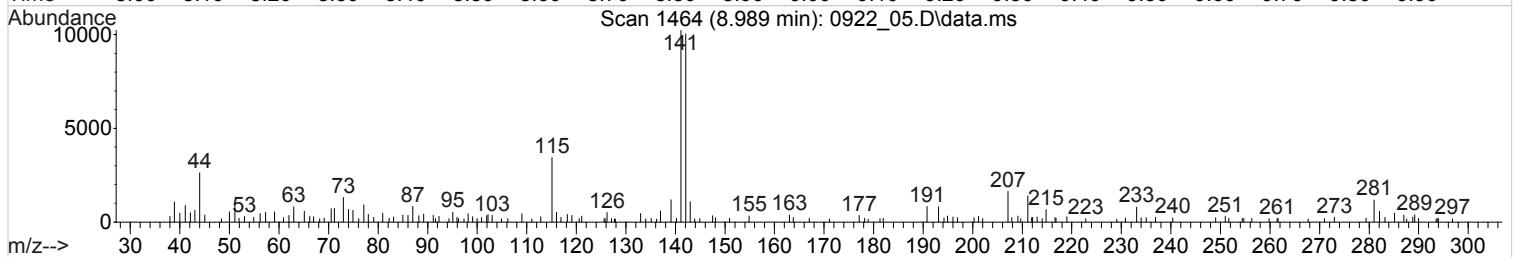
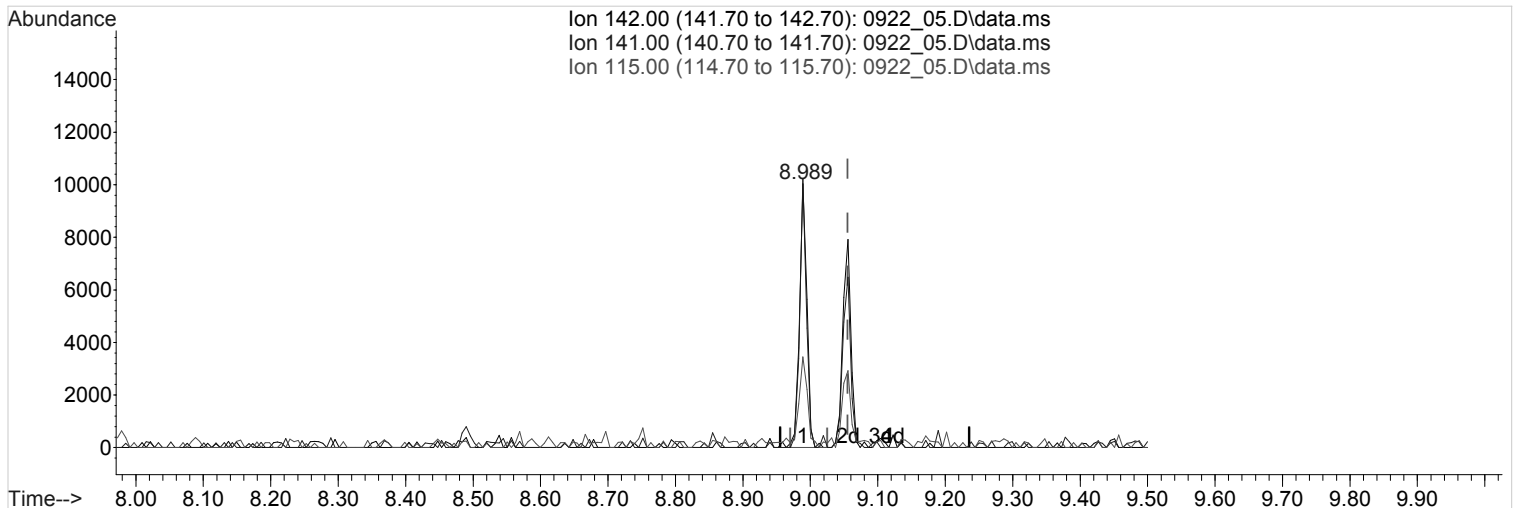
41.00	43.90	1.45#

0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092217\
 Data File : 0922_05.D
 Acq On : 22 Sep 2017 7:14 am
 Operator : 605
 Sample : STD VMS 0.5 ppb 17I22108
 Misc : water IS/SURR 17H10686
 ALS Vial : 5 Sample Multiplier: 1
 InstName : VOCMS13

Quant Time: Sep 22 10:53:20 2017
 Quant Method : C:\msdchem\1\methods\V813I22Q.M
 Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
 QLast Update : Fri Sep 22 10:36:45 2017
 Response via : Initial Calibration



TIC: 0922_05.D\data.ms

(103) 2-METHYLNAPHTHALENE (m,t)

8.989min (-0.067) 0.5888522 ppb

Qvalue = 93

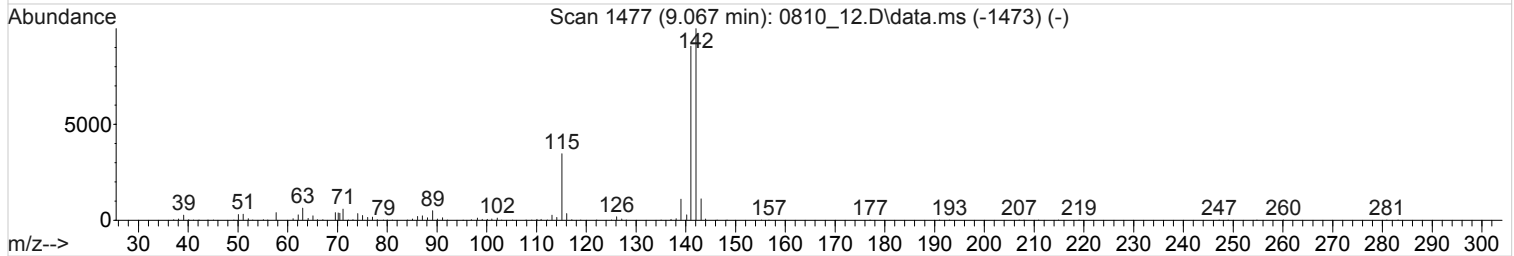
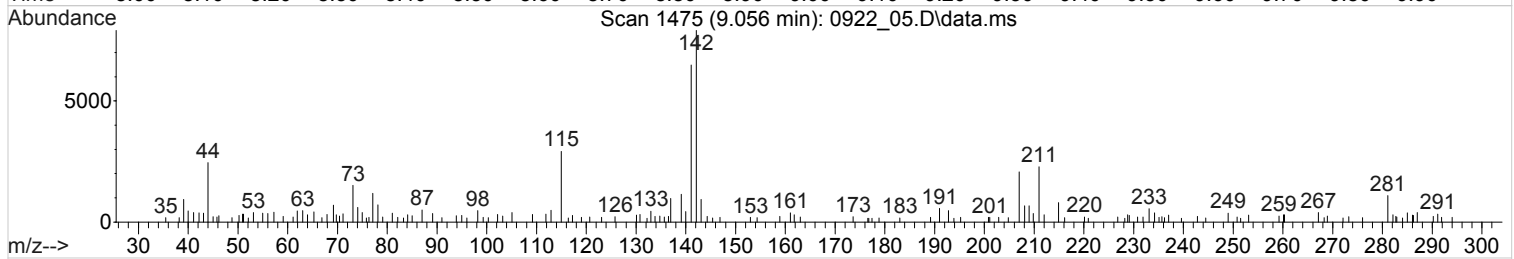
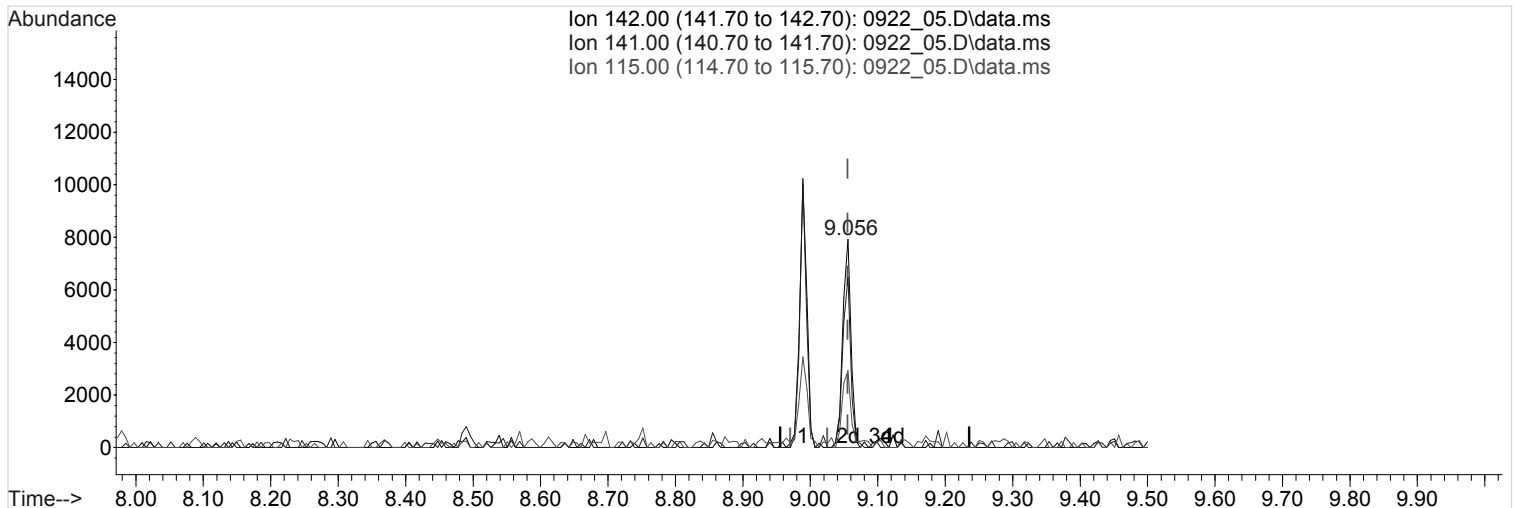
response 7609

Ion	Exp%	Act%
142.00	100	100
141.00	84.70	92.54
115.00	36.70	39.35
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\092217\
 Data File : 0922_05.D
 Acq On : 22 Sep 2017 7:14 am
 Operator : 605
 Sample : STD VMS 0.5 ppb 17I22108
 Misc : water IS/SURR 17H10686
 ALS Vial : 5 Sample Multiplier: 1
 InstName : VOCMS13

Quant Time: Sep 22 10:53:20 2017
 Quant Method : C:\msdchem\1\methods\V813I22Q.M
 Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
 QLast Update : Fri Sep 22 10:36:45 2017
 Response via : Initial Calibration



TIC: 0922_05.D\data.ms

(103) 2-METHYLNAPHTHALENE (m,t)

9.056min (+0.000) 0.5127015 ppb m

response 6625

Ion	Exp%	Act%
142.00	100	100
141.00	84.70	106.28#
115.00	36.70	45.19#
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\092217\
 Data File : 0922_06.D
 Acq On : 22 Sep 2017 7:33 am
 Operator : 605
 Sample : STD VMS 1 ppb 17I22108
 Misc : water IS/SURR 17H10686
 ALS Vial : 6 Sample Multiplier: 1
 InstName : VOCMS13

Quant Time: Sep 22 10:41:18 2017

Quant Method : C:\msdchem\1\methods\V813I22Q.M

Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13

QLast Update : Fri Sep 22 10:36:45 2017

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.292	168	636530	40.00000000	ppb	0.00
48) 8260-1,4-DIFLUOROBENZENE	4.615	114	994593	40.00000000	ppb	0.00
55) 8260-2-BROMO-1-CHLOROP...	5.770	79	180207	40.00000000	ppb	0.00
73) 8260-1,4-DICHLOROBENZE...	7.900	152	563536	40.00000000	ppb	0.00
104) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.00000000	ppb	-4.29
116) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.00000000	ppb	-4.61
121) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.00000000	ppb	-5.77
125) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.00000000	ppb	-7.90
System Monitoring Compounds						
38) DIBROMOFLUOROMETHANE	4.055	111	322356	44.6389531	ppb	0.00
Spiked Amount	40.000	Range 79 - 121	Recovery	= 111.60%		
54) A,A,A-TRIFLUOROTOLUENE	4.980	146	546747	42.3888736	ppb	0.00
Spiked Amount	40.000	Range 90 - 116	Recovery	= 105.97%		
59) TOLUENE-D8	5.436	98	1228368	41.5931265	ppb	0.00
Spiked Amount	40.000	Range 90 - 115	Recovery	= 103.98%		
77) 4-BROMOFLUOROBENZENE	7.285	95	464735	39.4025056	ppb	0.00
Spiked Amount	40.000	Range 80 - 120	Recovery	= 98.51%		
Target Compounds						
4) PROPENE	1.615	41	6653	1.0143336	ppb #	77
5) DICHLORODIFLUOROMETHANE	1.676	85	8227	1.2399566	ppb	93
6) CHLOROMETHANE	1.828	50	11075	1.3023837	ppb	91
7) VINYL CHLORIDE	1.901	62	9584	1.1579350	ppb	95
8) 1,3-BUTADIENE	1.920	39	8030	1.1778212	ppb	98
9) BROMOMETHANE	2.169	94	5967	1.2823492	ppb	84
10) CHLOROETHANE	2.272	64	6248	1.3063669	ppb #	82
11) TRICHLOROFLUOROMETHANE	2.364	101	9753	1.0853454	ppb #	97
12) DICHLOROFLUOROMETHANE	2.394	67	12944	1.1623564	ug/l #	76
13) ETHYL ETHER	2.558	59	6869	1.2595242	ppb	96
14) ACRYLEIN	2.911	56	732	10.2003754	ppb #	16
15) 1,1-DICHLOROETHENE	2.704	96	5489	1.0921940	ppb #	93
16) 1,1,2-TRICHLOROTRIFLUO...	2.735	101	7182	1.2785897	ppb #	86
17) ACETONE	3.082	43	16424	6.7715972	ppb	100
18) IODOMETHANE	2.808	142	55710	5.5618039	ppb	99
19) CARBON DISULFIDE	2.741	76	21577	1.1416822	ppb #	72
20) ALLYL CHLORIDE	2.996	76	22149	5.6030864	ppb	99
21) METHYLENE CHLORIDE	3.063	84	10197	1.4753755	ppb	97
22) METHYL ACETATE	3.142	43	41552	5.5376532	ppb #	98
23) ACRYLONITRILE	3.538	53	20647	5.8036844	ppb	98
24) n-HEXANE	3.185	56	7261	1.3147848	ppb #	76
25) TRANS-1,2-DICHLOROETHENE	3.155	96	8013	1.2970251	ppb	87
26) METHYL TERT-BUTYL ETHER	3.203	73	25096	1.1046031	ppb	98
27) 1,1-DICHLOROETHANE	3.513	63	14662	1.2012646	ppb	98
28) VINYL ACETATE	3.617	43	100232	5.3919460	ppb	99
29) DI-ISOPROPYL ETHER	3.398	45	26630	1.1326359	ppb	98
30) ETHYL TERT-BUTYL ETHER	3.611	59	24818	1.1304400	ppb	96
31) 2,2-DICHLOROPROPANE	3.872	77	12451	1.2927538	ppb	94
32) CIS-1,2-DICHLOROETHENE	3.812	96	8625	1.2416763	ppb	90
33) 2-BUTANONE (MEK)	4.116	43	28098	6.4967294	ppb	98
34) BROMOCHLOROMETHANE	3.927	130	4872	1.0762375	ppb	94
35) TETRAHYDROFURAN	4.055	42	4604	1.3288252	ppb	96
36) CHLOROFORM	3.951	83	13897	1.1446626	ppb #	97
37) CYCLOHEXANE	3.939	84	10790	1.0139770	ppb	95

Data Path : C:\msdchem\1\data\092217\
 Data File : 0922_06.D
 Acq On : 22 Sep 2017 7:33 am
 Operator : 605
 Sample : STD VMS 1 ppb 17I22108
 Misc : water IS/SURR 17H10686
 ALS Vial : 6 Sample Multiplier: 1
 InstName : VOCMS13

Quant Time: Sep 22 10:41:18 2017

Quant Method : C:\msdchem\1\methods\V813I22Q.M

Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13

QLast Update : Fri Sep 22 10:36:45 2017

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 1,1,1-TRICHLOROETHANE	4.085	97	11355	1.1096545	ppb	92
40) CARBON TETRACHLORIDE	4.043	117	10578	1.1323834	ppb	98
41) 1,1-DICHLOROPROPENE	4.146	75	9014	1.0220753	ppb #	85
42) 2,2,4-TRIMETHYLPENTANE	4.195	57	24508	1.0199796	ppb	91
43) n-Heptane	4.225	71	7426	1.2290716	ppb #	92
44) BENZENE	4.292	78	29148	1.0684640	ppb #	63
45) TERT-AMYL METHYL ETHER	4.323	73	26374	1.1214702	ppb #	90
46) 1,2-DICHLOROETHANE	4.402	62	10713	1.1084649	ppb #	84
47) T-AMYL ALCOHOL	4.396	59	8811	6.1276559	ppb #	83
49) TRICHLOROETHENE	4.615	130	7452	1.0466390	ppb #	100
50) METHYL CYCLOHEXANE	4.615	83	25185	1.9882496	ppb #	76
51) 1,2-DICHLOROPROPANE	4.925	62	5625	1.0820097	ppb	97
52) DIBROMOMETHANE	4.864	93	5387	1.1369974	ppb	90
53) BROMODICHLOROMETHANE	4.943	83	11375	1.1693197	ppb	98
56) 2-CHLOROETHYL VINYL ETHER	5.253	63	28945	4.9399283	ppb	99
57) CIS-1,3-DICHLOROPROPENE	5.314	75	13194	1.0156577	ppb #	96
58) 4-METHYL-2-PENTANONE (...)	5.685	43	55334	4.8398089	ppb	98
60) TOLUENE	5.472	91	31277	0.9954886	ppb	97
61) TRANS-1,3-DICHLOROPROPENE	5.716	75	12548	0.9976606	ppb #	95
62) 1,1,2-TRICHLOROETHANE	5.825	97	8370	1.1873436	ppb	98
63) TETRACHLOROETHENE	5.722	164	5991	0.9339564	ppb	91
64) 1,3-DICHLOROPROPANE	6.014	76	12254	0.9644451	ppb	92
65) 2-HEXANONE	6.221	58	21947	5.0985958	ppb	93
66) CHLORODIBROMOMETHANE	5.953	129	7954	0.9636970	ppb #	89
67) 1,2-DIBROMOETHANE	6.129	107	7810	1.0013860	ppb	99
68) CHLOROBENZENE	6.464	112	20850	0.9560859	ppb	93
69) 1,1,1,2-TETRACHLOROETHANE	6.501	133	7633	0.9697549	ppb #	97
70) ETHYLBENZENE	6.458	106	12342	1.0296345	ppb	89
71) M&P-XYLENE	6.555	106	28312	1.8899587	ppb	97
72) O-XYLENE	6.866	106	14002	0.9458283	ppb	92
74) STYRENE	6.896	104	23285	0.9274487	ppb	98
75) BROMOFORM	6.932	173	6312	0.8873257	ppb	94
76) ISOPROPYLBENZENE	7.078	105	35835	0.9116783	ppb #	95
78) BROMOBENZENE	7.364	77	15258	0.9407666	ppb	95
79) 1,1,2,2-TETRACHLOROETHANE	7.395	83	11213	0.9460835	ppb	93
80) 1,2,3-TRICHLOROPROPANE	7.498	110	4064	1.0500013	ppb	98
81) TRANS-1,4-DICHLORO-2-B...	7.510	53	3510	0.9648429	ppb #	87
82) N-PROPYLBENZENE	7.358	91	42670	0.9691086	ppb #	95
83) 4-ETHYLTOLUENE	7.419	105	36851	0.9670493	ppb	100
84) 2-CHLOROTOLUENE	7.468	91	25534	0.8842782	ppb #	90
85) 4-CHLOROTOLUENE	7.577	91	24559	0.9113231	ppb	98
86) 1,3,5-TRIMETHYLBENZENE	7.474	105	28460	0.8443620	ppb	90
87) TERT-BUTYLBENZENE	7.675	119	23893	0.8777687	ppb	95
88) 1,2,4-TRIMETHYLBENZENE	7.705	105	33822	0.9966329	ppb	97
89) SEC-BUTYLBENZENE	7.766	105	40291	0.9549787	ppb	100
90) 1,3-DICHLOROBENZENE	7.875	146	17995	0.9972952	ppb	98
91) P-ISOPROPYLTOLUENE	7.821	119	31746	0.9030549	ppb	96
92) DICYCLOPENTADIENE	7.827	66	36257	0.9503900	ppb	99
93) 1,4-DICHLOROBENZENE	7.906	146	17616	0.9695673	ppb #	1
94) 1,2,3-TRIMETHYLBENZENE	7.906	105	33649	1.0313534	ppb	97
95) 1,2-DICHLOROBENZENE	8.046	146	17009	1.0530952	ppb	97
96) N-BUTYLBENZENE	7.979	91	29927	0.9973710	ppb	99
97) 1,2-DIBROMO-3-CHLOROPR...	8.301	157	2859	0.9916638	ppb	95
98) 1,2,4-TRICHLOROBENZENE	8.508	180	11285	0.9838747	ppb	97
99) HEXACHLORO-1,3-BUTADIENE	8.490	225	6961	1.0796508	ppb	98

Data Path : C:\msdchem\1\data\092217\
Data File : 0922_06.D
Acq On : 22 Sep 2017 7:33 am
Operator : 605
Sample : STD VMS 1 ppb 17I22108
Misc : water IS/SURR 17H10686
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS13

Quant Time: Sep 22 10:41:18 2017
Quant Method : C:\msdchem\1\methods\V813I22Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
QLast Update : Fri Sep 22 10:36:45 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) NAPHTHALENE	8.618	128	30416	1.0004740	ppb	100
101) 1,2,3-TRICHLOROBENZENE	8.678	180	10781	1.0346646	ppb	99
102) 1-METHYLNAPHTHALENE	8.989	142	15154	0.9589972	ppb	97
103) 2-METHYLNAPHTHALENE	9.056	142	12442	0.9599818	ppb	95

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

Data Path : C:\msdchem\1\data\092217\
 Data File : 0922_07.D
 Acq On : 22 Sep 2017 7:53 am
 Operator : 605
 Sample : STD VMS 2 ppb 17I22108
 Misc : water IS/SURR 17H10686
 ALS Vial : 7 Sample Multiplier: 1
 InstName : VOCMS13

Quant Time: Sep 22 10:41:41 2017

Quant Method : C:\msdchem\1\methods\V813I22Q.M

Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13

QLast Update : Fri Sep 22 10:36:45 2017

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.286	168	640238	40.00000000	ppb	0.00
48) 8260-1,4-DIFLUOROBENZENE	4.615	114	1021080	40.00000000	ppb	0.00
55) 8260-2-BROMO-1-CHLOROP...	5.770	79	180839	40.00000000	ppb	0.00
73) 8260-1,4-DICHLOROBENZE...	7.900	152	570471	40.00000000	ppb	0.00
104) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.00000000	ppb	-4.29
116) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.00000000	ppb	-4.61
121) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.00000000	ppb	-5.77
125) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.00000000	ppb	-7.90

System Monitoring Compounds

38) DIBROMOFLUOROMETHANE	4.049	111	341099	46.9608684	ppb	0.00
Spiked Amount	40.000	Range	79 - 121	Recovery	= 117.40%	
54) A,A,A-TRIFLUOROTOLUENE	4.980	146	561728	42.4206353	ppb	0.00
Spiked Amount	40.000	Range	90 - 116	Recovery	= 106.05%	
59) TOLUENE-D8	5.436	98	1282605	43.2778384	ppb	0.00
Spiked Amount	40.000	Range	90 - 115	Recovery	= 108.19%	
77) 4-BROMOFLUOROBENZENE	7.285	95	481423	40.3211942	ppb	0.00
Spiked Amount	40.000	Range	80 - 120	Recovery	= 100.80%	

Target Compounds

					Qvalue	
4) PROPENE	1.609	41	16333	2.4757493	ppb	94
5) DICHLORODIFLUOROMETHANE	1.676	85	15459	2.3164547	ppb	89
6) CHLOROMETHANE	1.822	50	20977	2.4525395	ppb	98
7) VINYL CHLORIDE	1.901	62	19747	2.3720069	ppb	93
8) 1,3-BUTADIENE	1.914	39	17479	2.5489296	ppb	93
9) BROMOMETHANE	2.163	94	11843	2.5304015	ppb	# 88
10) CHLOROETHANE	2.260	64	12762	2.6528966	ppb	96
11) TRICHLOROFLUOROMETHANE	2.358	101	23389	2.5877291	ppb	# 96
12) DICHLOROFLUOROMETHANE	2.394	67	28212	2.5187329	ug/l	100
13) ETHYL ETHER	2.552	59	13849	2.5246945	ppb	96
14) ACRYLEIN	2.905	56	1815	25.1454338	ppb	# 77
15) 1,1-DICHLOROETHENE	2.704	96	12744	2.5210980	ppb	90
16) 1,1,2-TRICHLOROTRIFLUO...	2.723	101	13495	2.3885598	ppb	93
17) ACETONE	3.075	43	31602	12.9540084	ppb	100
18) IODOMETHANE	2.802	142	112163	11.1329322	ppb	99
19) CARBON DISULFIDE	2.735	76	44920	2.3630414	ppb	# 97
20) ALLYL CHLORIDE	2.996	76	44897	11.2919240	ppb	97
21) METHYLENE CHLORIDE	3.057	84	19130	2.7518360	ppb	96
22) METHYL ACETATE	3.142	43	81878	10.8487195	ppb	# 97
23) ACRYLONITRILE	3.538	53	39850	11.1365991	ppb	98
24) n-HEXANE	3.185	56	13527	2.4352141	ppb	97
25) TRANS-1,2-DICHLOROETHENE	3.155	96	14324	2.3051276	ppb	98
26) METHYL TERT-BUTYL ETHER	3.197	73	52410	2.2934715	ppb	98
27) 1,1-DICHLOROETHANE	3.507	63	28148	2.2928224	ppb	98
28) VINYL ACETATE	3.617	43	203148	10.8649848	ppb	100
29) DI-ISOPROPYL ETHER	3.404	45	53141	2.2471202	ppb	99
30) ETHYL TERT-BUTYL ETHER	3.605	59	48419	2.1926736	ppb	96
31) 2,2-DICHLOROPROPANE	3.878	77	22976	2.3717202	ppb	98
32) CIS-1,2-DICHLOROETHENE	3.805	96	17096	2.4469282	ppb	94
33) 2-BUTANONE (MEK)	4.116	43	58049	13.3441694	ppb	93
34) BROMOCHLOROMETHANE	3.921	130	10242	2.2493811	ppb	91
35) TETRAHYDROFURAN	4.055	42	8074	2.3168542	ppb	# 87
36) CHLOROFORM	3.945	83	27588	2.2591969	ppb	# 98
37) CYCLOHEXANE	3.933	84	24085	2.2502498	ppb	95

Data Path : C:\msdchem\1\data\092217\
 Data File : 0922_07.D
 Acq On : 22 Sep 2017 7:53 am
 Operator : 605
 Sample : STD VMS 2 ppb 17I22108
 Misc : water IS/SURR 17H10686
 ALS Vial : 7 Sample Multiplier: 1
 InstName : VOCMS13

Quant Time: Sep 22 10:41:41 2017

Quant Method : C:\msdchem\1\methods\V813I22Q.M

Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13

QLast Update : Fri Sep 22 10:36:45 2017

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 1,1,1-TRICHLOROETHANE	4.085	97	23780	2.3104147	ppb	95
40) CARBON TETRACHLORIDE	4.049	117	20063	2.1353214	ppb	95
41) 1,1-DICHLOROPROPENE	4.146	75	21426	2.4153711	ppb	99
42) 2,2,4-TRIMETHYLPENTANE	4.189	57	51583	2.1343598	ppb	95
43) n-Heptane	4.225	71	14324	2.3570239	ppb #	91
44) BENZENE	4.292	78	62130	2.2642789	ppb #	87
45) TERT-AMYL METHYL ETHER	4.323	73	50811	2.1480624	ppb	95
46) 1,2-DICHLOROETHANE	4.402	62	21970	2.2600515	ppb	97
47) T-AMYL ALCOHOL	4.396	59	17525	12.1172656	ppb	91
49) TRICHLOROETHENE	4.609	130	15072	2.0619617	ppb #	100
50) METHYL CYCLOHEXANE	4.615	83	40432	3.1091367	ppb #	85
51) 1,2-DICHLOROPROPANE	4.925	62	11879	2.2257385	ppb	98
52) DIBROMOMETHANE	4.870	93	10374	2.1327717	ppb	94
53) BROMODICHLOROMETHANE	4.937	83	21820	2.1848530	ppb	89
56) 2-CHLOROETHYL VINYL ETHER	5.253	63	57517	9.7818924	ppb	96
57) CIS-1,3-DICHLOROPROPENE	5.314	75	24603	1.8872894	ppb #	92
58) 4-METHYL-2-PENTANONE (...)	5.685	43	110687	9.6474454	ppb	99
60) TOLUENE	5.472	91	65452	2.0759347	ppb	97
61) TRANS-1,3-DICHLOROPROPENE	5.716	75	25105	1.9890609	ppb	98
62) 1,1,2-TRICHLOROETHANE	5.825	97	14179	2.0043617	ppb	96
63) TETRACHLOROETHENE	5.722	164	11917	1.8512871	ppb	90
64) 1,3-DICHLOROPROPANE	6.008	76	25326	1.9863044	ppb	94
65) 2-HEXANONE	6.221	58	43175	9.9951042	ppb	99
66) CHLORODIBROMOMETHANE	5.947	129	15354	1.8537707	ppb	98
67) 1,2-DIBROMOETHANE	6.129	107	16061	2.0521195	ppb	96
68) CHLOROBENZENE	6.464	112	40934	1.8704865	ppb	93
69) 1,1,1,2-TETRACHLOROETHANE	6.494	133	15805	2.0009710	ppb #	94
70) ETHYLBENZENE	6.458	106	24108	2.0041872	ppb	97
71) M&P-XYLENE	6.555	106	59362	3.9488428	ppb	96
72) O-XYLENE	6.859	106	29470	1.9837272	ppb	94
74) STYRENE	6.896	104	44826	1.7637285	ppb	96
75) BROMOFORM	6.932	173	12251	1.7012797	ppb	99
76) ISOPROPYLBENZENE	7.072	105	71844	1.8055636	ppb	97
78) BROMOBENZENE	7.364	77	33372	2.0326126	ppb	94
79) 1,1,2,2-TETRACHLOROETHANE	7.395	83	23603	1.9672654	ppb	99
80) 1,2,3-TRICHLOROPROPANE	7.498	110	7585	1.9358862	ppb	95
81) TRANS-1,4-DICHLORO-2-B...	7.510	53	7864	2.1354091	ppb	86
82) N-PROPYLBENZENE	7.358	91	83817	1.8804857	ppb	99
83) 4-ETHYLTOLUENE	7.419	105	72435	1.8777419	ppb	98
84) 2-CHLOROTOLUENE	7.474	91	56048	1.9174245	ppb	98
85) 4-CHLOROTOLUENE	7.571	91	50597	1.8547039	ppb	97
86) 1,3,5-TRIMETHYLBENZENE	7.474	105	61306	1.7967384	ppb	98
87) TERT-BUTYLBENZENE	7.669	119	51843	1.8814282	ppb	98
88) 1,2,4-TRIMETHYLBENZENE	7.705	105	63452	1.8470104	ppb	96
89) SEC-BUTYLBENZENE	7.766	105	80223	1.8783332	ppb	100
90) 1,3-DICHLOROBENZENE	7.875	146	36289	1.9867123	ppb	100
91) P-ISOPROPYLTOLUENE	7.821	119	66129	1.8582544	ppb	97
92) DICYCLOPENTADIENE	7.827	66	76637	1.9844336	ppb	98
93) 1,4-DICHLOROBENZENE	7.906	146	36094	1.9624281	ppb #	1
94) 1,2,3-TRIMETHYLBENZENE	7.906	105	65225	1.9748655	ppb	98
95) 1,2-DICHLOROBENZENE	8.046	146	31258	1.9117809	ppb	94
96) N-BUTYLBENZENE	7.979	91	61026	2.0090769	ppb	96
97) 1,2-DIBROMO-3-CHLOROPR...	8.301	157	5577	1.9109047	ppb #	81
98) 1,2,4-TRICHLOROBENZENE	8.508	180	23246	2.0020484	ppb	97
99) HEXACHLORO-1,3-BUTADIENE	8.490	225	13377	2.0495499	ppb	97

Data Path : C:\msdchem\1\data\092217\
Data File : 0922_07.D
Acq On : 22 Sep 2017 7:53 am
Operator : 605
Sample : STD VMS 2 ppb 17I22108
Misc : water IS/SURR 17H10686
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS13

Quant Time: Sep 22 10:41:41 2017
Quant Method : C:\msdchem\1\methods\V813I22Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
QLast Update : Fri Sep 22 10:36:45 2017
Response via : Initial Calibration

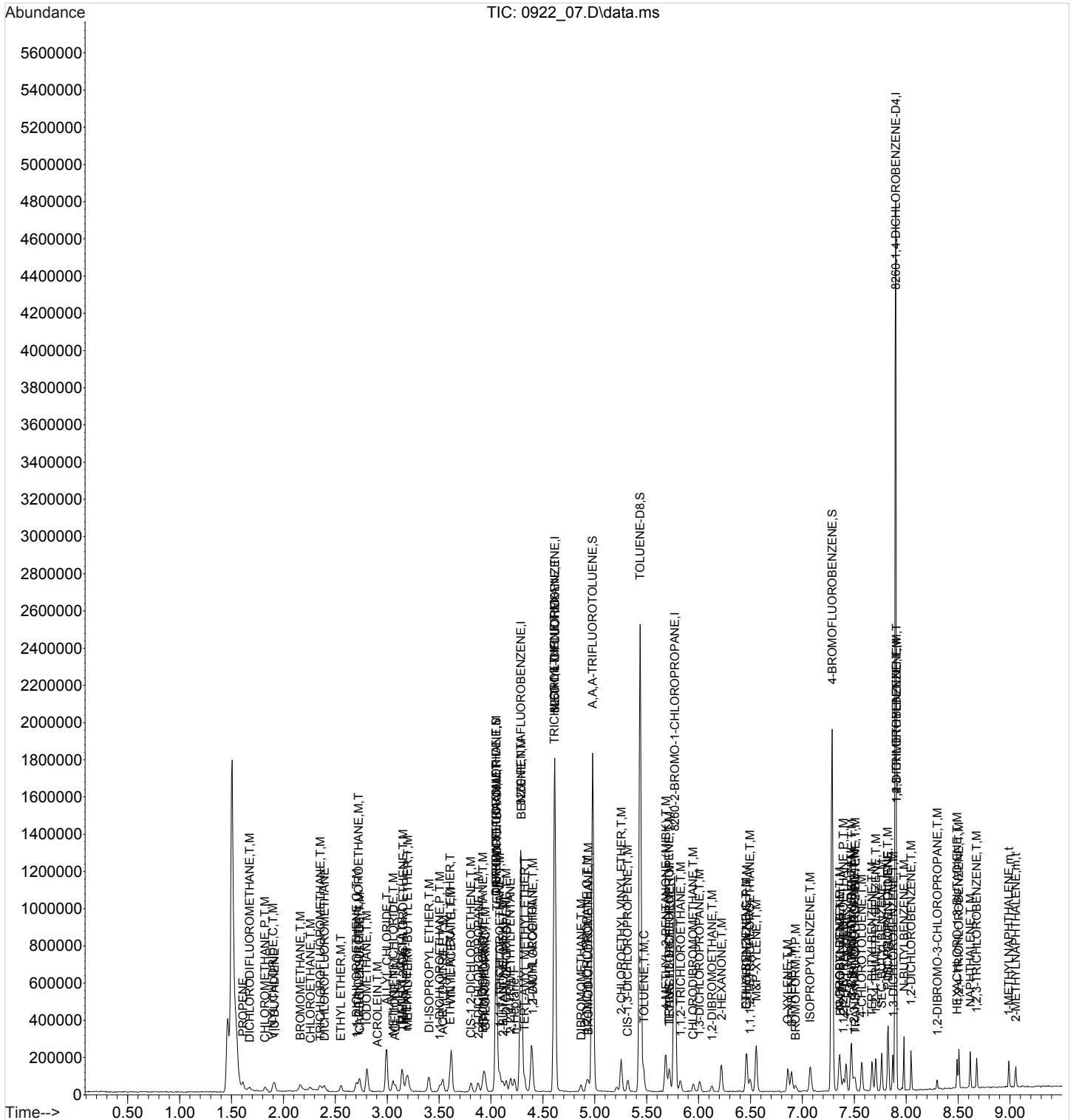
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
100) NAPHTHALENE	8.618	128	60446	1.9640809	ppb		99
101) 1,2,3-TRICHLOROBENZENE	8.678	180	21799	2.0666418	ppb		99
102) 1-METHYLNAPHTHALENE	8.989	142	30653	1.9162454	ppb		96
103) 2-METHYLNAPHTHALENE	9.056	142	25154	1.9172024	ppb		98

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

(QT Reviewed)

Data Path : C:\msdchem\1\data\092217\
Data File : 0922_07.D
Acq On : 22 Sep 2017 7:53 am
Operator : 605
Sample : STD VMS 2 ppb 17I22108
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Quant Method : C:\msdchem\1\methods\V813I22Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
QLast Update : Fri Sep 22 10:36:45 2017
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\092217\
 Data File : 0922_08.D
 Acq On : 22 Sep 2017 8:13 am
 Operator : 605
 Sample : STD VMS 5.0 ppb 17I22108
 Misc : water IS/SURR 17H10686
 ALS Vial : 8 Sample Multiplier: 1
 InstName : VOCMS13

Quant Time: Sep 22 10:42:04 2017

Quant Method : C:\msdchem\1\methods\V813I22Q.M

Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13

QLast Update : Fri Sep 22 10:36:45 2017

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.286	168	638320	40.00000000	ppb	0.00
48) 8260-1,4-DIFLUOROBENZENE	4.615	114	993394	40.00000000	ppb	0.00
55) 8260-2-BROMO-1-CHLOROP...	5.771	79	178428	40.00000000	ppb	0.00
73) 8260-1,4-DICHLOROBENZE...	7.900	152	534430	40.00000000	ppb	0.00
104) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.00000000	ppb	-4.29
116) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.00000000	ppb	-4.61
121) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.00000000	ppb	-5.77
125) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.00000000	ppb	-7.90

System Monitoring Compounds

38) DIBROMOFLUOROMETHANE	4.049	111	324130	44.7587446	ppb	0.00
Spiked Amount	40.000	Range	79 - 121	Recovery	= 111.90%	
54) A,A,A-TRIFLUOROTOLUENE	4.980	146	557266	43.2565501	ppb	0.00
Spiked Amount	40.000	Range	90 - 116	Recovery	= 108.14%	
59) TOLUENE-D8	5.436	98	1247580	42.6648404	ppb	0.00
Spiked Amount	40.000	Range	90 - 115	Recovery	= 106.66%	
77) 4-BROMOFLUOROBENZENE	7.285	95	455148	40.6913345	ppb	0.00
Spiked Amount	40.000	Range	80 - 120	Recovery	= 101.73%	

Target Compounds

					Qvalue	
4) PROPENE	1.616	41	33655	5.1167394	ppb	100
5) DICHLORODIFLUOROMETHANE	1.676	85	34893	5.2442540	ppb	97
6) CHLOROMETHANE	1.828	50	48655	5.7056235	ppb	96
7) VINYL CHLORIDE	1.901	62	46083	5.5521164	ppb	100
8) 1,3-BUTADIENE	1.920	39	36083	5.2777266	ppb	99
9) BROMOMETHANE	2.169	94	25487	5.4619714	ppb	95
10) CHLOROETHANE	2.266	64	27189	5.6688872	ppb	96
11) TRICHLOROFLUOROMETHANE	2.358	101	46629	5.1744745	ppb	# 99
12) DICHLOROFLUOROMETHANE	2.394	67	60456	5.4136559	ug/l	92
13) ETHYL ETHER	2.552	59	30886	5.6474849	ppb	97
14) ACRYLEIN	2.911	56	3036	42.1878376	ppb	# 63
15) 1,1-DICHLOROETHENE	2.704	96	26291	5.2166785	ppb	98
16) 1,1,2-TRICHLOROTRIFLUO...	2.729	101	28838	5.1195450	ppb	99
17) ACETONE	3.082	43	66662	27.4075959	ppb	99
18) IODOMETHANE	2.808	142	255832	25.4693468	ppb	99
19) CARBON DISULFIDE	2.735	76	96595	5.0967018	ppb	97
20) ALLYL CHLORIDE	2.997	76	101118	25.5083338	ppb	100
21) METHYLENE CHLORIDE	3.057	84	37410	5.3975699	ppb	99
22) METHYL ACETATE	3.143	43	197451	26.2405895	ppb	# 98
23) ACRYLONITRILE	3.538	53	95686	26.8210426	ppb	97
24) n-HEXANE	3.185	56	29613	5.3471338	ppb	99
25) TRANS-1,2-DICHLOROETHENE	3.155	96	33301	5.3751541	ppb	98
26) METHYL TERT-BUTYL ETHER	3.203	73	119006	5.2233730	ppb	100
27) 1,1-DICHLOROETHANE	3.508	63	64241	5.2485358	ppb	100
28) VINYL ACETATE	3.617	43	486846	26.1162714	ppb	99
29) DI-ISOPROPYL ETHER	3.404	45	124078	5.2625273	ppb	99
30) ETHYL TERT-BUTYL ETHER	3.605	59	118535	5.3840338	ppb	98
31) 2,2-DICHLOROPROPANE	3.873	77	50360	5.2140806	ppb	95
32) CIS-1,2-DICHLOROETHENE	3.806	96	37239	5.3459848	ppb	95
33) 2-BUTANONE (MEK)	4.110	43	150035	34.5933309	ppb	90
34) BROMOCHLOROMETHANE	3.921	130	23259	5.1235657	ppb	96
35) TETRAHYDROFURAN	4.055	42	17383	5.0030828	ppb	96
36) CHLOROFORM	3.946	83	63455	5.2119795	ppb	99
37) CYCLOHEXANE	3.933	84	52106	4.8828660	ppb	95

Data Path : C:\msdchem\1\data\092217\
 Data File : 0922_08.D
 Acq On : 22 Sep 2017 8:13 am
 Operator : 605
 Sample : STD VMS 5.0 ppb 17I22108
 Misc : water IS/SURR 17H10686
 ALS Vial : 8 Sample Multiplier: 1
 InstName : VOCMS13

Quant Time: Sep 22 10:42:04 2017

Quant Method : C:\msdchem\1\methods\V813I22Q.M

Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13

QLast Update : Fri Sep 22 10:36:45 2017

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
39) 1,1,1-TRICHLOROETHANE	4.085	97	49258	4.8001836	ppb		98
40) CARBON TETRACHLORIDE	4.049	117	47067	5.0244310	ppb		96
41) 1,1-DICHLOROPROPENE	4.146	75	44650	5.0485565	ppb		96
42) 2,2,4-TRIMETHYLPENTANE	4.189	57	115135	4.7782778	ppb		96
43) n-Heptane	4.225	71	31668	5.2266487	ppb	#	96
44) BENZENE	4.292	78	142624	5.2134375	ppb		94
45) TERT-AMYL METHYL ETHER	4.317	73	119364	5.0613400	ppb	#	94
46) 1,2-DICHLOROETHANE	4.402	62	50942	5.2561440	ppb		98
47) T-AMYL ALCOHOL	4.402	59	41596	28.8470340	ppb		97
49) TRICHLOROETHENE	4.609	130	33875	4.7635118	ppb	#	99
50) METHYL CYCLOHEXANE	4.615	83	72094	5.6983871	ppb		91
51) 1,2-DICHLOROPROPANE	4.925	62	27328	5.2630846	ppb		100
52) DIBROMOMETHANE	4.864	93	25140	5.3125330	ppb		95
53) BROMODICHLOROMETHANE	4.937	83	51009	5.2499181	ppb		98
56) 2-CHLOROETHYL VINYL ETHER	5.253	63	149343	25.7419009	ppb		99
57) CIS-1,3-DICHLOROPROPENE	5.320	75	61751	4.8009096	ppb		95
58) 4-METHYL-2-PENTANONE (...)	5.679	43	281403	24.8584202	ppb		99
60) TOLUENE	5.466	91	153754	4.9424955	ppb		99
61) TRANS-1,3-DICHLOROPROPENE	5.716	75	59539	4.7809972	ppb		95
62) 1,1,2-TRICHLOROETHANE	5.825	97	35034	5.0193712	ppb		100
63) TETRACHLOROETHENE	5.716	164	29558	4.6538349	ppb		98
64) 1,3-DICHLOROPROPANE	6.008	76	62439	4.9632281	ppb		95
65) 2-HEXANONE	6.221	58	104681	24.5613330	ppb		98
66) CHLORODIBROMOMETHANE	5.947	129	37318	4.5664838	ppb		96
67) 1,2-DIBROMOETHANE	6.130	107	39146	5.0692831	ppb		98
68) CHLOROBENZENE	6.464	112	104598	4.8442090	ppb		98
69) 1,1,1,2-TETRACHLOROETHANE	6.495	133	37104	4.7609772	ppb	#	98
70) ETHYLBENZENE	6.458	106	57121	4.8128464	ppb		99
71) M&P-XYLENE	6.555	106	136602	9.2097421	ppb		98
72) O-XYLENE	6.860	106	67063	4.5752399	ppb		94
74) STYRENE	6.896	104	110445	4.6386386	ppb		98
75) BROMOFORM	6.933	173	31055	4.6033973	ppb		94
76) ISOPROPYLBENZENE	7.072	105	149991	4.0237430	ppb		97
78) BROMOBENZENE	7.364	77	73740	4.7942233	ppb		94
79) 1,1,2,2-TETRACHLOROETHANE	7.395	83	53772	4.7840388	ppb		97
80) 1,2,3-TRICHLOROPROPANE	7.498	110	17373	4.7330578	ppb		91
81) TRANS-1,4-DICHLORO-2-B...	7.511	53	18562	5.3802827	ppb	#	88
82) N-PROPYLBENZENE	7.352	91	194426	4.6562362	ppb		99
83) 4-ETHYLTOLUENE	7.419	105	164574	4.5539830	ppb		99
84) 2-CHLOROTOLUENE	7.468	91	128810	4.7038176	ppb		97
85) 4-CHLOROTOLUENE	7.571	91	121585	4.7574316	ppb		96
86) 1,3,5-TRIMETHYLBENZENE	7.468	105	144140	4.5093001	ppb		98
87) TERT-BUTYLBENZENE	7.669	119	116420	4.5099098	ppb		96
88) 1,2,4-TRIMETHYLBENZENE	7.705	105	155208	4.8225959	ppb		98
89) SEC-BUTYLBENZENE	7.766	105	188939	4.7221316	ppb		98
90) 1,3-DICHLOROBENZENE	7.869	146	83793	4.8967785	ppb		100
91) P-ISOPROPYLTOLUENE	7.821	119	162115	4.8627188	ppb		97
92) DICYCLOPENTADIENE	7.827	66	176298	4.8729078	ppb		100
93) 1,4-DICHLOROBENZENE	7.906	146	85501	4.9621819	ppb	#	1
94) 1,2,3-TRIMETHYLBENZENE	7.906	105	156801	5.0677478	ppb		99
95) 1,2-DICHLOROBENZENE	8.046	146	79231	5.1726705	ppb		97
96) N-BUTYLBENZENE	7.979	91	143129	5.0298153	ppb		98
97) 1,2-DIBROMO-3-CHLOROPR...	8.301	157	13851	5.0659659	ppb		99
98) 1,2,4-TRICHLOROBENZENE	8.508	180	57275	5.2654341	ppb		99
99) HEXACHLORO-1,3-BUTADIENE	8.490	225	30584	5.0019207	ppb		94

Data Path : C:\msdchem\1\data\092217\
Data File : 0922_08.D
Acq On : 22 Sep 2017 8:13 am
Operator : 605
Sample : STD VMS 5.0 ppb 17I22108
Misc : water IS/SURR 17H10686
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS13

Quant Time: Sep 22 10:42:04 2017
Quant Method : C:\msdchem\1\methods\V813I22Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
QLast Update : Fri Sep 22 10:36:45 2017
Response via : Initial Calibration

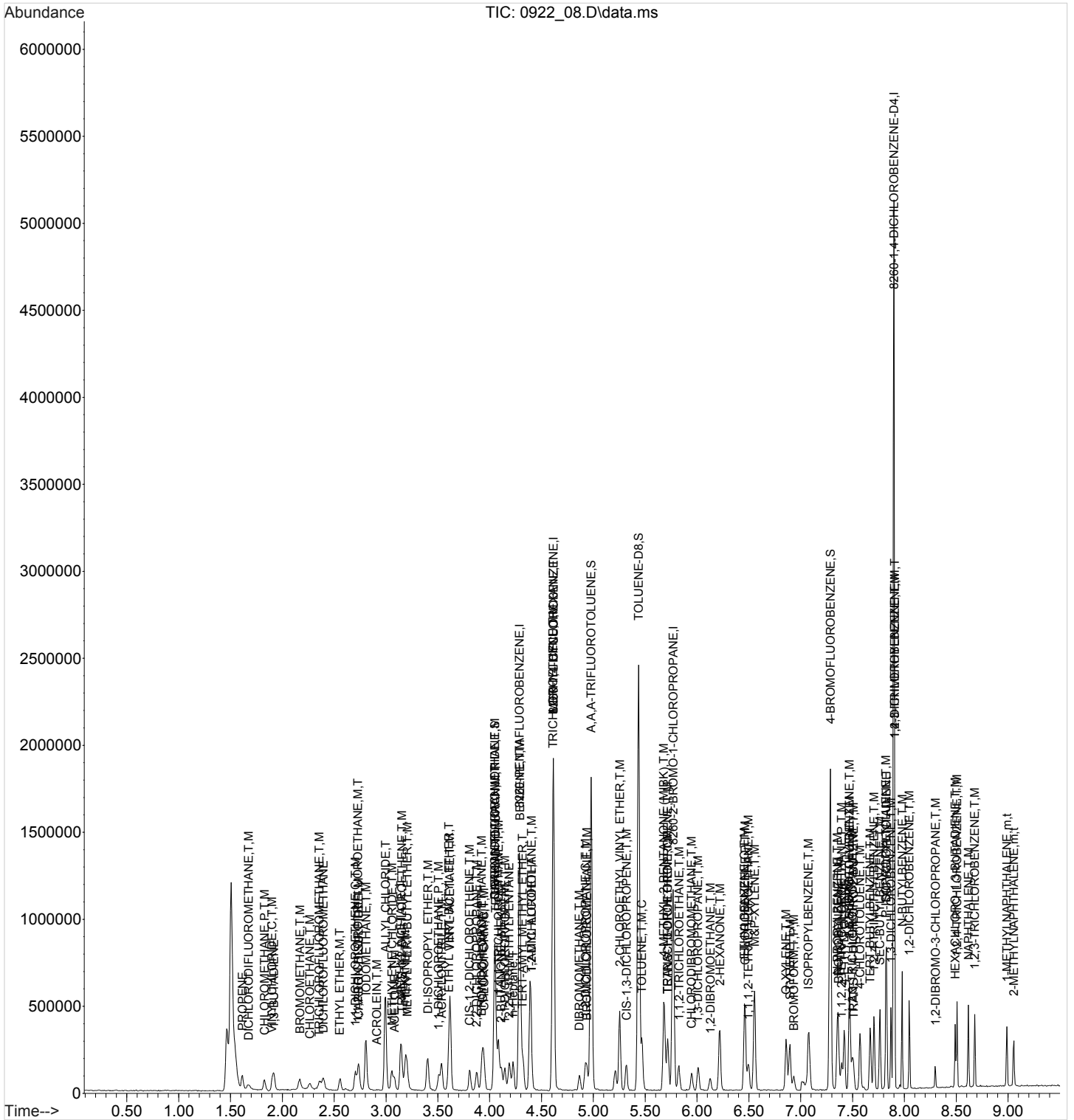
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) NAPHTHALENE	8.618	128	148689	5.1571930	ppb	100
101) 1,2,3-TRICHLOROBENZENE	8.679	180	51572	5.2189765	ppb	99
102) 1-METHYLNAPHTHALENE	8.989	142	76903	5.1317344	ppb	99
103) 2-METHYLNAPHTHALENE	9.056	142	63088	5.1327535	ppb	98

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

(QT Reviewed)

Data Path : C:\msdchem\1\data\092217\
Data File : 0922_08.D
Acq On : 22 Sep 2017 8:13 am
Operator : 605
Sample : STD VMS 5.0 ppb 17I22108
Misc : water IS/SURR 17H10686
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS13

Quant Time: Sep 22 10:42:04 2017
Quant Method : C:\msdchem\1\methods\V813I22Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
QLast Update : Fri Sep 22 10:36:45 2017
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\092217\
 Data File : 0922_09.D
 Acq On : 22 Sep 2017 8:32 am
 Operator : 605
 Sample : STD VMS 10 ppb 17I22108
 Misc : water IS/SURR 17H10686
 ALS Vial : 9 Sample Multiplier: 1
 InstName : VOCMS13

Quant Time: Sep 22 10:42:28 2017

Quant Method : C:\msdchem\1\methods\V813I22Q.M

Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13

QLast Update : Fri Sep 22 10:36:45 2017

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.286	168	679293	40.00000000	ppb	0.00
48) 8260-1,4-DIFLUOROBENZENE	4.615	114	1054793	40.00000000	ppb	0.00
55) 8260-2-BROMO-1-CHLOROP...	5.771	79	187325	40.00000000	ppb	0.00
73) 8260-1,4-DICHLOROBENZE...	7.900	152	564858	40.00000000	ppb	0.00
104) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.00000000	ppb	-4.29
116) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.00000000	ppb	-4.61
121) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.00000000	ppb	-5.77
125) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.00000000	ppb	-7.90

System Monitoring Compounds

38) DIBROMOFLUOROMETHANE	4.049	111	354305	45.9745262	ppb	0.00
Spiked Amount	40.000	Range	79 - 121	Recovery	= 114.94%	
54) A,A,A-TRIFLUOROTOLUENE	4.980	146	610575	44.6357303	ppb	0.00
Spiked Amount	40.000	Range	90 - 116	Recovery	= 111.59%	
59) TOLUENE-D8	5.436	98	1343953	43.7777129	ppb	0.00
Spiked Amount	40.000	Range	90 - 115	Recovery	= 109.44%	
77) 4-BROMOFLUOROBENZENE	7.285	95	520836	44.0556724	ppb	0.00
Spiked Amount	40.000	Range	80 - 120	Recovery	= 110.14%	

Target Compounds

					Qvalue	
4) PROPENE	1.609	41	79596	11.3714608	ppb	98
5) DICHLORODIFLUOROMETHANE	1.670	85	86662	12.2392675	ppb	92
6) CHLOROMETHANE	1.822	50	101962	11.2355748	ppb	99
7) VINYL CHLORIDE	1.901	62	99358	11.2486906	ppb	96
8) 1,3-BUTADIENE	1.914	39	79164	10.8806112	ppb	95
9) BROMOMETHANE	2.163	94	53448	10.7632512	ppb	95
10) CHLOROETHANE	2.260	64	57319	11.2301227	ppb	98
11) TRICHLOROFLUOROMETHANE	2.358	101	108591	11.3236203	ppb	99
12) DICHLOROFLUOROMETHANE	2.394	67	128975	10.8527073	ug/l	98
13) ETHYL ETHER	2.552	59	62490	10.7370567	ppb	98
14) ACRYLEIN	2.911	56	6476	84.5616895	ppb	# 78
15) 1,1-DICHLOROETHENE	2.704	96	62338	11.6230777	ppb	95
16) 1,1,2-TRICHLOROTRIFLUO...	2.729	101	71912	11.9963438	ppb	97
17) ACETONE	3.082	43	133315	51.5054199	ppb	95
18) IODOMETHANE	2.808	142	560326	52.4185530	ppb	100
19) CARBON DISULFIDE	2.735	76	224537	11.1327846	ppb	99
20) ALLYL CHLORIDE	2.996	76	222783	52.8100989	ppb	99
21) METHYLENE CHLORIDE	3.057	84	76543	10.3776103	ppb	96
22) METHYL ACETATE	3.142	43	421695	52.6615956	ppb	# 99
23) ACRYLONITRILE	3.532	53	200064	52.6959837	ppb	100
24) n-HEXANE	3.185	56	67636	11.4761939	ppb	97
25) TRANS-1,2-DICHLOROETHENE	3.155	96	71262	10.8086877	ppb	99
26) METHYL TERT-BUTYL ETHER	3.203	73	253387	10.4507589	ppb	96
27) 1,1-DICHLOROETHANE	3.507	63	138513	10.6340261	ppb	99
28) VINYL ACETATE	3.617	43	1042412	52.5460750	ppb	100
29) DI-ISOPROPYL ETHER	3.398	45	264774	10.5525210	ppb	98
30) ETHYL TERT-BUTYL ETHER	3.605	59	246866	10.5366794	ppb	99
31) 2,2-DICHLOROPROPANE	3.873	77	114919	11.1806015	ppb	99
32) CIS-1,2-DICHLOROETHENE	3.806	96	78895	10.6429127	ppb	99
33) 2-BUTANONE (MEK)	4.110	43	310644	67.3044966	ppb	90
34) BROMOCHLOROMETHANE	3.921	130	49326	10.2102995	ppb	96
35) TETRAHYDROFURAN	4.049	42	35855	9.6971475	ppb	93
36) CHLOROFORM	3.946	83	134201	10.3579526	ppb	98
37) CYCLOHEXANE	3.933	84	124124	10.9301003	ppb	96

Data Path : C:\msdchem\1\data\092217\
 Data File : 0922_09.D
 Acq On : 22 Sep 2017 8:32 am
 Operator : 605
 Sample : STD VMS 10 ppb 17I22108
 Misc : water IS/SURR 17H10686
 ALS Vial : 9 Sample Multiplier: 1
 InstName : VOCMS13

Quant Time: Sep 22 10:42:28 2017

Quant Method : C:\msdchem\1\methods\V813I22Q.M

Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13

QLast Update : Fri Sep 22 10:36:45 2017

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
39) 1,1,1-TRICHLOROETHANE	4.085	97	116828	10.6981660	ppb		98
40) CARBON TETRACHLORIDE	4.049	117	107793	10.8129014	ppb		97
41) 1,1-DICHLOROPROPENE	4.146	75	101413	10.7750848	ppb		99
42) 2,2,4-TRIMETHYLPENTANE	4.189	57	268815	10.4833200	ppb		96
43) n-Heptane	4.225	71	73614	11.4168002	ppb	#	98
44) BENZENE	4.292	78	308055	10.5813514	ppb		99
45) TERT-AMYL METHYL ETHER	4.317	73	258665	10.3064982	ppb		96
46) 1,2-DICHLOROETHANE	4.402	62	109054	10.5733882	ppb		99
47) T-AMYL ALCOHOL	4.396	59	82785	53.9488961	ppb		98
49) TRICHLOROETHENE	4.609	130	75683	10.0230657	ppb	#	49
50) METHYL CYCLOHEXANE	4.615	83	156011	11.6134790	ppb		98
51) 1,2-DICHLOROPROPANE	4.925	62	59755	10.8382969	ppb		96
52) DIBROMOMETHANE	4.864	93	51815	10.3120774	ppb		97
53) BROMODICHLOROMETHANE	4.943	83	107187	10.3896789	ppb		99
56) 2-CHLOROETHYL VINYL ETHER	5.253	63	305067	50.0862182	ppb		99
57) CIS-1,3-DICHLOROPROPENE	5.320	75	134702	9.9751823	ppb		99
58) 4-METHYL-2-PENTANONE (...)	5.679	43	573003	48.2135337	ppb		98
60) TOLUENE	5.466	91	321597	9.8468906	ppb		99
61) TRANS-1,3-DICHLOROPROPENE	5.716	75	126193	9.6520482	ppb		99
62) 1,1,2-TRICHLOROETHANE	5.825	97	71131	9.7070166	ppb		95
63) TETRACHLOROETHENE	5.716	164	65226	9.7819163	ppb		98
64) 1,3-DICHLOROPROPANE	6.008	76	133469	10.1054572	ppb		98
65) 2-HEXANONE	6.221	58	223825	50.0218708	ppb		100
66) CHLORODIBROMOMETHANE	5.947	129	81242	9.4691596	ppb		97
67) 1,2-DIBROMOETHANE	6.130	107	82327	10.1547376	ppb		95
68) CHLOROBENZENE	6.464	112	217054	9.5749068	ppb		97
69) 1,1,1,2-TETRACHLOROETHANE	6.495	133	78618	9.6086999	ppb		98
70) ETHYLBENZENE	6.458	106	123918	9.9450703	ppb		98
71) M&P-XYLENE	6.555	106	303697	19.5028545	ppb		99
72) O-XYLENE	6.860	106	146270	9.5050285	ppb		94
74) STYRENE	6.896	104	246768	9.8058414	ppb		100
75) BROMOFORM	6.933	173	67402	9.4530347	ppb		99
76) ISOPROPYLBENZENE	7.072	105	382170	9.7000321	ppb		98
78) BROMOBENZENE	7.364	77	162727	10.0098204	ppb		97
79) 1,1,2,2-TETRACHLOROETHANE	7.395	83	117263	9.8707703	ppb		98
80) 1,2,3-TRICHLOROPROPANE	7.498	110	37393	9.6384864	ppb		92
81) TRANS-1,4-DICHLORO-2-B...	7.510	53	35512	9.7388349	ppb		98
82) N-PROPYLBENZENE	7.352	91	442660	10.0300358	ppb		100
83) 4-ETHYLTOLUENE	7.419	105	380975	9.9742031	ppb		99
84) 2-CHLOROTOLUENE	7.468	91	281351	9.7207751	ppb		99
85) 4-CHLOROTOLUENE	7.571	91	265114	9.8146940	ppb		97
86) 1,3,5-TRIMETHYLBENZENE	7.468	105	319902	9.4687602	ppb		98
87) TERT-BUTYLBENZENE	7.669	119	271186	9.9393749	ppb		98
88) 1,2,4-TRIMETHYLBENZENE	7.705	105	342041	10.0553335	ppb		100
89) SEC-BUTYLBENZENE	7.766	105	436252	10.3158603	ppb		98
90) 1,3-DICHLOROBENZENE	7.869	146	177636	9.8216680	ppb		97
91) P-ISOPROPYLTOLUENE	7.821	119	360565	10.2327195	ppb		99
92) DICYCLOPENTADIENE	7.827	66	384536	10.0560948	ppb		99
93) 1,4-DICHLOROBENZENE	7.906	146	181928	9.9897030	ppb	#	1
94) 1,2,3-TRIMETHYLBENZENE	7.900	105	328847	10.0556836	ppb		99
95) 1,2-DICHLOROBENZENE	8.046	146	161765	9.9920773	ppb		97
96) N-BUTYLBENZENE	7.979	91	306339	10.1854034	ppb		99
97) 1,2-DIBROMO-3-CHLOROPR...	8.301	157	29390	10.1702648	ppb		99
98) 1,2,4-TRICHLOROBENZENE	8.508	180	115212	10.0211680	ppb		99
99) HEXACHLORO-1,3-BUTADIENE	8.490	225	69326	10.7272946	ppb		97

Data Path : C:\msdchem\1\data\092217\
Data File : 0922_09.D
Acq On : 22 Sep 2017 8:32 am
Operator : 605
Sample : STD VMS 10 ppb 17I22108
Misc : water IS/SURR 17H10686
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS13

Quant Time: Sep 22 10:42:28 2017
Quant Method : C:\msdchem\1\methods\V813I22Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
QLast Update : Fri Sep 22 10:36:45 2017
Response via : Initial Calibration

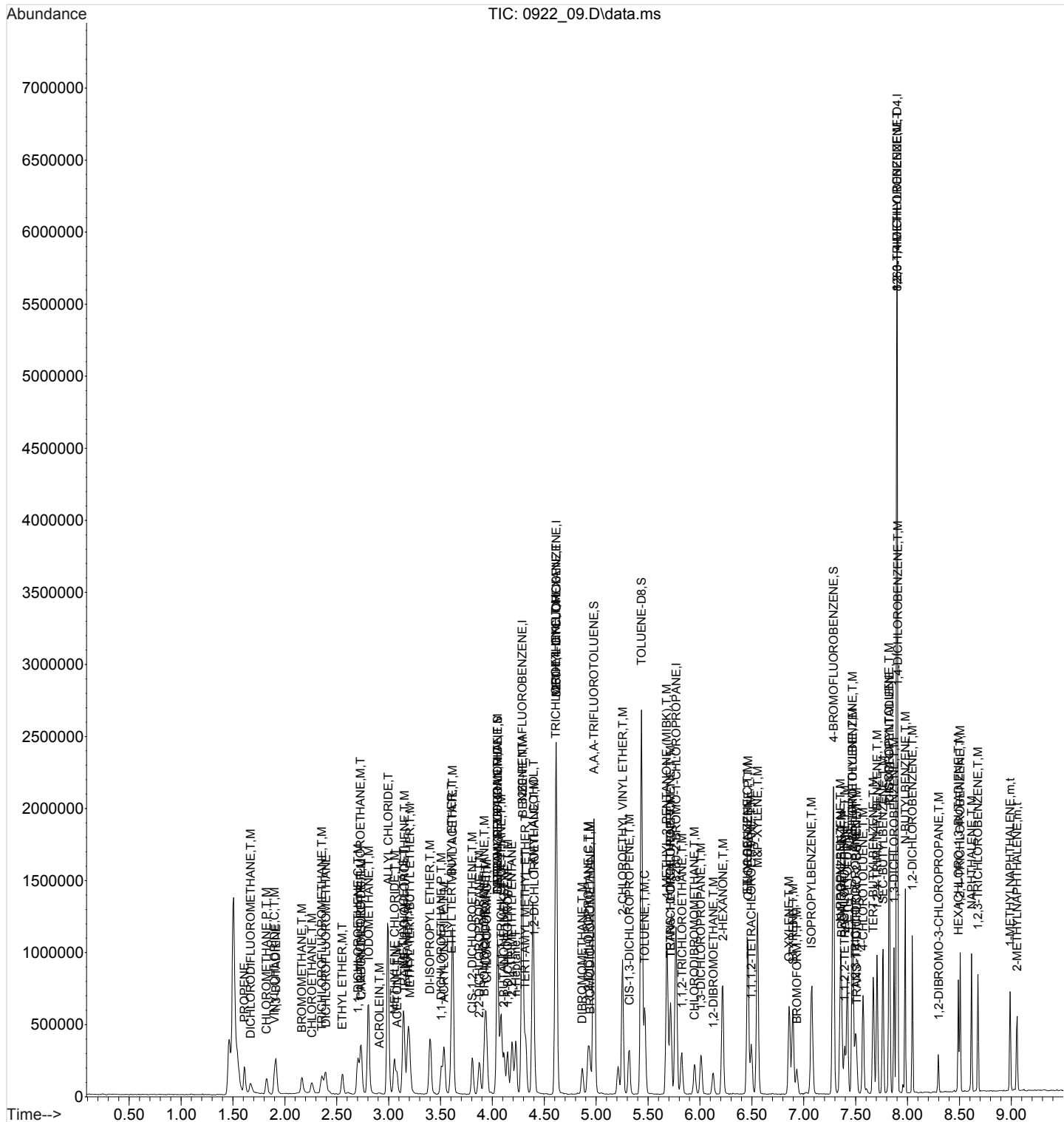
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) NAPHTHALENE	8.618	128	304393	9.9889709	ppb	100
101) 1,2,3-TRICHLOROBENZENE	8.679	180	105054	10.0585530	ppb	98
102) 1-METHYLNAPHTHALENE	8.989	142	153128	9.6677863	ppb	98
103) 2-METHYLNAPHTHALENE	9.056	142	128062	9.8576971	ppb	99

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

(QT Reviewed)

Data Path : C:\msdchem\1\data\092217\
Data File : 0922_09.D
Acq On : 22 Sep 2017 8:32 am
Operator : 605
Sample : STD VMS 10 ppb 17I22108
Misc : water IS/SURR 17H10686
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS13

Quant Time: Sep 22 10:42:28 2017
Quant Method : C:\msdchem\1\methods\V813I22Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
QLast Update : Fri Sep 22 10:36:45 2017
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\092217\
 Data File : 0922_10.D
 Acq On : 22 Sep 2017 8:51 am
 Operator : 605
 Sample : MSTD VMS 25 ppb 17I22108
 Misc : water IS/SURR 17H10686
 ALS Vial : 10 Sample Multiplier: 1
 InstName : VOCMS13

Quant Time: Sep 22 10:42:52 2017

Quant Method : C:\msdchem\1\methods\V813I22Q.M

Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13

QLast Update : Fri Sep 22 10:36:45 2017

Response via : Initial Calibration

Compound			R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards								
1)	8260-PENTAFLUOROBENZENE		4.292	168	735430	40.0000000	ppb	0.00
48)	8260-1,4-DIFLUOROBENZENE		4.615	114	1119749	40.0000000	ppb	0.00
55)	8260-2-BROMO-1-CHLOROP...		5.770	79	191262	40.0000000	ppb	0.00
73)	8260-1,4-DICHLOROBENZE...		7.900	152	586571	40.0000000	ppb	0.00
104)	AP9-PENTAFLUOROBENZENE		0.000	168	0m	40.0000000	ppb	-4.29
116)	AP9-1,4-DIFLUOROBENZENE		0.000	114	0m	40.0000000	ppb	-4.61
121)	AP9-2-BROMO-1-CHLOROPR...		0.000	79	0m	40.0000000	ppb	-5.77
125)	AP9-1,4-DICHLOROBENZEN...		0.000	152	0m	40.0000000	ppb	-7.90
System Monitoring Compounds								
38)	DIBROMOFLUOROMETHANE		4.049	111	375454	45.0000000	ppb	0.00
	Spiked Amount	40.000	Range	79 - 121	Recovery	=	112.50%	
54)	A,A,A-TRIFLUOROTOLUENE		4.980	146	653465	45.0000000	ppb	0.00
	Spiked Amount	40.000	Range	90 - 116	Recovery	=	112.50%	
59)	TOLUENE-D8		5.436	98	1410511	45.0000000	ppb	0.00
	Spiked Amount	40.000	Range	90 - 115	Recovery	=	112.50%	
77)	4-BROMOFLUOROBENZENE		7.285	95	552450	45.0000000	ppb	0.00
	Spiked Amount	40.000	Range	80 - 120	Recovery	=	112.50%	
Target Compounds							Qvalue	
4)	PROPENE		1.615	41	189452	25.0000000	ppb	100
5)	DICHLORODIFLUOROMETHANE		1.676	85	191645	25.0000000	ppb	100
6)	CHLOROMETHANE		1.828	50	245622	25.0000000	ppb	100
7)	VINYL CHLORIDE		1.901	62	239070	25.0000000	ppb	100
8)	1,3-BUTADIENE		1.920	39	196924	25.0000000	ppb	100
9)	BROMOMETHANE		2.163	94	134404	25.0000000	ppb	100
10)	CHLOROETHANE		2.266	64	138146	25.0000000	ppb	100
11)	TRICHLOROFLUOROMETHANE		2.358	101	259557	25.0000000	ppb	100
12)	DICHLOROFLUOROMETHANE		2.394	67	321656	25.0000000	ug/l	100
13)	ETHYL ETHER		2.558	59	157525	25.0000000	ppb	100
14)	ACROLEIN		2.911	56	10364	125.0000000	ppb	100
15)	1,1-DICHLOROETHENE		2.704	96	145163	25.0000000	ppb	100
16)	1,1,2-TRICHLOROTRIFLUO...		2.729	101	162247	25.0000000	ppb	100
17)	ACETONE		3.082	43	350284	125.0000000	ppb	100
18)	IODOMETHANE		2.808	142	1446605	125.0000000	ppb	100
19)	CARBON DISULFIDE		2.735	76	545894	25.0000000	ppb	100
20)	ALLYL CHLORIDE		2.996	76	570899	125.0000000	ppb	100
21)	METHYLENE CHLORIDE		3.057	84	199633	25.0000000	ppb	100
22)	METHYL ACETATE		3.142	43	1083674	125.0000000	ppb	# 100
23)	ACRYLONITRILE		3.538	53	513790	125.0000000	ppb	100
24)	n-HEXANE		3.185	56	159516	25.0000000	ppb	100
25)	TRANS-1,2-DICHLOROETHENE		3.155	96	178447	25.0000000	ppb	100
26)	METHYL TERT-BUTYL ETHER		3.203	73	656237	25.0000000	ppb	100
27)	1,1-DICHLOROETHANE		3.507	63	352547	25.0000000	ppb	100
28)	VINYL ACETATE		3.617	43	2684685	125.0000000	ppb	100
29)	DI-ISOPROPYL ETHER		3.398	45	679115	25.0000000	ppb	100
30)	ETHYL TERT-BUTYL ETHER		3.605	59	634135	25.0000000	ppb	100
31)	2,2-DICHLOROPROPANE		3.872	77	278196	25.0000000	ppb	100
32)	CIS-1,2-DICHLOROETHENE		3.805	96	200638	25.0000000	ppb	100
33)	2-BUTANONE (MEK)		4.110	43	624616	125.0000000	ppb	100
34)	BROMOCHLOROMETHANE		3.921	130	130756	25.0000000	ppb	100
35)	TETRAHYDROFURAN		4.049	42	100076	25.0000000	ppb	100
36)	CHLOROFORM		3.945	83	350676	25.0000000	ppb	100
37)	CYCLOHEXANE		3.933	84	307366	25.0000000	ppb	100

Data Path : C:\msdchem\1\data\092217\
 Data File : 0922_10.D
 Acq On : 22 Sep 2017 8:51 am
 Operator : 605
 Sample : MSTD VMS 25 ppb 17I22108
 Misc : water IS/SURR 17H10686
 ALS Vial : 10 Sample Multiplier: 1
 InstName : VOCMS13

Quant Time: Sep 22 10:42:52 2017

Quant Method : C:\msdchem\1\methods\V813I22Q.M

Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13

QLast Update : Fri Sep 22 10:36:45 2017

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 1,1,1-TRICHLOROETHANE	4.085	97	295571	25.0000000	ppb	100
40) CARBON TETRACHLORIDE	4.049	117	269819	25.0000000	ppb	100
41) 1,1-DICHLOROPROPENE	4.146	75	254740	25.0000000	ppb	100
42) 2,2,4-TRIMETHYLPENTANE	4.189	57	694031	25.0000000	ppb	100
43) n-Heptane	4.225	71	174518	25.0000000	ppb	# 100
44) BENZENE	4.292	78	787973	25.0000000	ppb	100
45) TERT-AMYL METHYL ETHER	4.316	73	679283	25.0000000	ppb	100
46) 1,2-DICHLOROETHANE	4.402	62	279159	25.0000000	ppb	100
47) T-AMYL ALCOHOL	4.396	59	207665	125.0000000	ppb	100
49) TRICHLOROETHENE	4.608	130	200397	25.0000000	ppb	# 100
50) METHYL CYCLOHEXANE	4.615	83	356522	25.0000000	ppb	100
51) 1,2-DICHLOROPROPANE	4.925	62	146321	25.0000000	ppb	100
52) DIBROMOMETHANE	4.864	93	133353	25.0000000	ppb	100
53) BROMODICHLOROMETHANE	4.943	83	273800	25.0000000	ppb	100
56) 2-CHLOROETHYL VINYL ETHER	5.253	63	777356	125.0000000	ppb	100
57) CIS-1,3-DICHLOROPROPENE	5.314	75	344688	25.0000000	ppb	100
58) 4-METHYL-2-PENTANONE (...)	5.679	43	1516809	125.0000000	ppb	100
60) TOLUENE	5.466	91	833654	25.0000000	ppb	100
61) TRANS-1,3-DICHLOROPROPENE	5.716	75	333725	25.0000000	ppb	100
62) 1,1,2-TRICHLOROETHANE	5.825	97	187045	25.0000000	ppb	100
63) TETRACHLOROETHENE	5.722	164	170204	25.0000000	ppb	100
64) 1,3-DICHLOROPROPANE	6.014	76	337130	25.0000000	ppb	100
65) 2-HEXANONE	6.215	58	571073	125.0000000	ppb	100
66) CHLORODIBROMOMETHANE	5.947	129	218999	25.0000000	ppb	100
67) 1,2-DIBROMOETHANE	6.123	107	206941	25.0000000	ppb	100
68) CHLOROBENZENE	6.464	112	578637	25.0000000	ppb	100
69) 1,1,1,2-TETRACHLOROETHANE	6.494	133	208848	25.0000000	ppb	100
70) ETHYLBENZENE	6.458	106	318053	25.0000000	ppb	100
71) M&P-XYLENE	6.555	106	794960	50.0000000	ppb	100
72) O-XYLENE	6.859	106	392803	25.0000000	ppb	100
74) STYRENE	6.896	104	653319	25.0000000	ppb	100
75) BROMOFORM	6.932	173	185107	25.0000000	ppb	100
76) ISOPROPYLBENZENE	7.072	105	1022833	25.0000000	ppb	100
78) BROMOBENZENE	7.364	77	422041	25.0000000	ppb	100
79) 1,1,2,2-TETRACHLOROETHANE	7.395	83	308412	25.0000000	ppb	100
80) 1,2,3-TRICHLOROPROPANE	7.492	110	100717	25.0000000	ppb	100
81) TRANS-1,4-DICHLORO-2-B...	7.504	53	94665	25.0000000	ppb	100
82) N-PROPYLBENZENE	7.352	91	1145748	25.0000000	ppb	100
83) 4-ETHYLTOLUENE	7.419	105	991607	25.0000000	ppb	100
84) 2-CHLOROTOLUENE	7.468	91	751396	25.0000000	ppb	100
85) 4-CHLOROTOLUENE	7.571	91	701257	25.0000000	ppb	100
86) 1,3,5-TRIMETHYLBENZENE	7.468	105	877092	25.0000000	ppb	100
87) TERT-BUTYLBENZENE	7.669	119	708320	25.0000000	ppb	100
88) 1,2,4-TRIMETHYLBENZENE	7.705	105	883086	25.0000000	ppb	100
89) SEC-BUTYLBENZENE	7.766	105	1097876	25.0000000	ppb	100
90) 1,3-DICHLOROBENZENE	7.869	146	469534	25.0000000	ppb	100
91) P-ISOPROPYLTOLUENE	7.821	119	914774	25.0000000	ppb	100
92) DICYCLOPENTADIENE	7.827	66	992725	25.0000000	ppb	100
93) 1,4-DICHLOROBENZENE	7.906	146	472790	25.0000000	ppb	100
94) 1,2,3-TRIMETHYLBENZENE	7.900	105	848992	25.0000000	ppb	100
95) 1,2-DICHLOROBENZENE	8.046	146	420291	25.0000000	ppb	100
96) N-BUTYLBENZENE	7.979	91	780810	25.0000000	ppb	100
97) 1,2-DIBROMO-3-CHLOROPR...	8.295	157	75022	25.0000000	ppb	100
98) 1,2,4-TRICHLOROBENZENE	8.508	180	298470	25.0000000	ppb	100
99) HEXACHLORO-1,3-BUTADIENE	8.490	225	167775	25.0000000	ppb	100

Data Path : C:\msdchem\1\data\092217\
Data File : 0922_10.D
Acq On : 22 Sep 2017 8:51 am
Operator : 605
Sample : MSTD VMS 25 ppb 17I22108
Misc : water IS/SURR 17H10686
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS13

Quant Time: Sep 22 10:42:52 2017
Quant Method : C:\msdchem\1\methods\V813I22Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
QLast Update : Fri Sep 22 10:36:45 2017
Response via : Initial Calibration

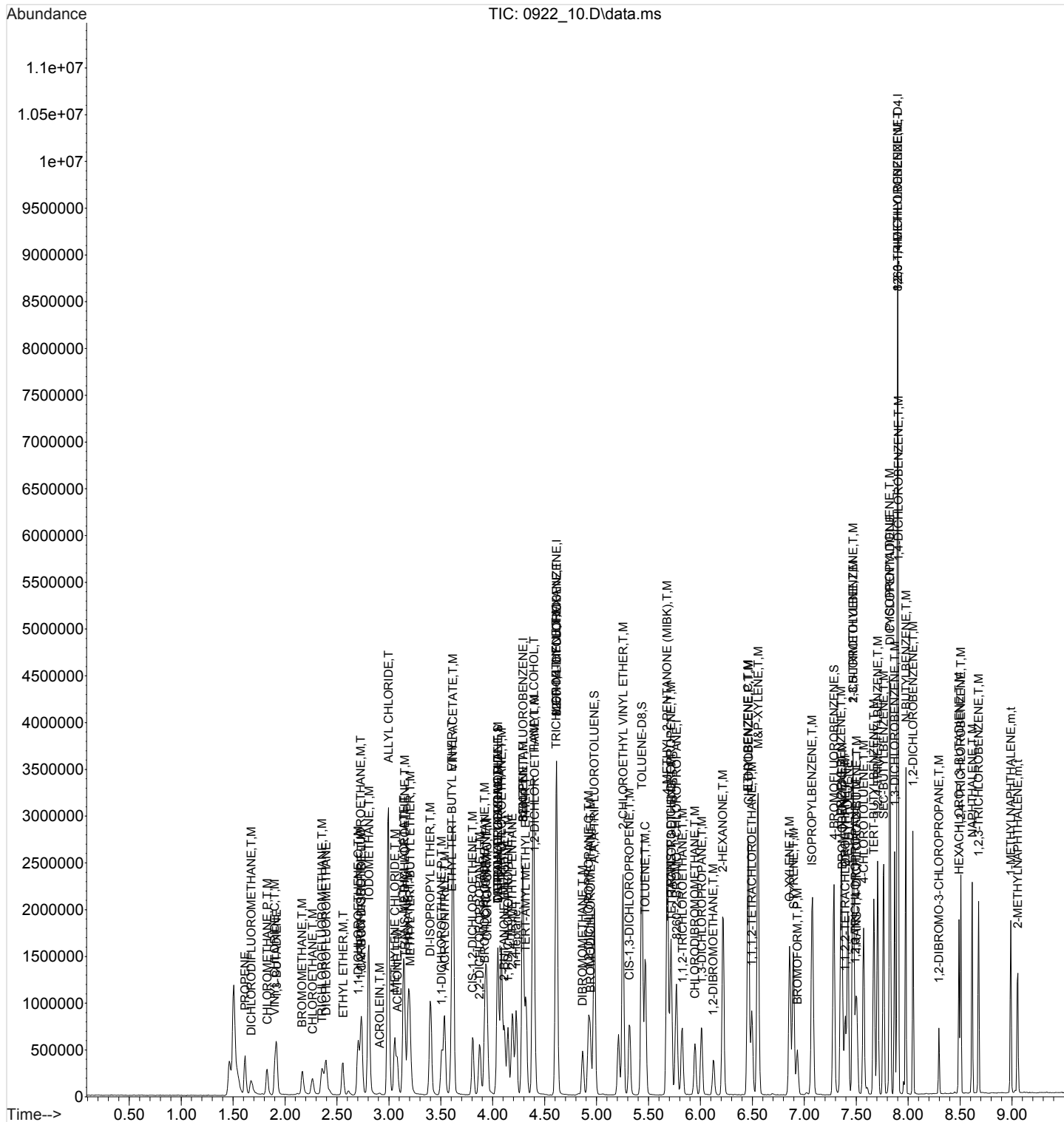
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) NAPHTHALENE	8.618	128	791107	25.0000000	ppb	100
101) 1,2,3-TRICHLOROBENZENE	8.678	180	271143	25.0000000	ppb	100
102) 1-METHYLNAPHTHALENE	8.989	142	411196	25.0000000	ppb	100
103) 2-METHYLNAPHTHALENE	9.056	142	337261	25.0000000	ppb	100

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

(QT Reviewed)

Data Path : C:\msdchem\1\data\092217\
Data File : 0922_10.D
Acq On : 22 Sep 2017 8:51 am
Operator : 605
Sample : MSTD VMS 25 ppb 17I22108
Misc : water IS/SURR 17H10686
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS13

Quant Time: Sep 22 10:42:52 2017
Quant Method : C:\msdchem\1\methods\V813I22Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
QLast Update : Fri Sep 22 10:36:45 2017
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\092217\
 Data File : 0922_11.D
 Acq On : 22 Sep 2017 9:11 am
 Operator : 605
 Sample : STD VMS 40 ppb 17I22108
 Misc : water IS/SURR 17H10686
 ALS Vial : 11 Sample Multiplier: 1
 InstName : VOCMS13

Quant Time: Sep 22 10:43:14 2017

Quant Method : C:\msdchem\1\methods\V813I22Q.M

Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13

QLast Update : Fri Sep 22 10:36:45 2017

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.292	168	771492	40.0000000	ppb	0.00
48) 8260-1,4-DIFLUOROBENZENE	4.615	114	1146710	40.0000000	ppb	0.00
55) 8260-2-BROMO-1-CHLOROP...	5.771	79	196582	40.0000000	ppb	0.00
73) 8260-1,4-DICHLOROBENZE...	7.900	152	606820	40.0000000	ppb	0.00
104) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.29
116) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.61
121) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.77
125) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-7.90

System Monitoring Compounds

38) DIBROMOFLUOROMETHANE	4.049	111	404856	46.2558081	ppb	0.00
Spiked Amount	40.000	Range	79 - 121	Recovery	= 115.64%	
54) A,A,A-TRIFLUOROTOLUENE	4.980	146	700211	47.0853925	ppb	0.00
Spiked Amount	40.000	Range	90 - 116	Recovery	= 117.71%#	
59) TOLUENE-D8	5.436	98	1504200	46.6902892	ppb	0.00
Spiked Amount	40.000	Range	90 - 115	Recovery	= 116.73%#	
77) 4-BROMOFLUOROBENZENE	7.285	95	580552	45.7110674	ppb	0.00
Spiked Amount	40.000	Range	80 - 120	Recovery	= 114.28%	

Target Compounds

					Qvalue	
4) PROPENE	1.615	41	327622	41.2120090	ppb	98
5) DICHLORODIFLUOROMETHANE	1.670	85	358310	44.5565298	ppb	95
6) CHLOROMETHANE	1.822	50	403512	39.1506624	ppb	99
7) VINYL CHLORIDE	1.901	62	399989	39.8724471	ppb	99
8) 1,3-BUTADIENE	1.914	39	333102	40.3114588	ppb	98
9) BROMOMETHANE	2.163	94	209772	37.1950587	ppb	99
10) CHLOROETHANE	2.260	64	225256	38.8586740	ppb	99
11) TRICHLOROFLUOROMETHANE	2.358	101	454970	41.7734110	ppb	100
12) DICHLOROFLUOROMETHANE	2.394	67	515461	38.1903887	ug/l	99
13) ETHYL ETHER	2.552	59	259144	39.2050122	ppb	100
14) ACRYLEIN	2.911	56	18163	208.8238539	ppb	87
15) 1,1-DICHLOROETHENE	2.704	96	251135	41.2288510	ppb	98
16) 1,1,2-TRICHLOROTRIFLUO...	2.729	101	290008	42.5974132	ppb	98
17) ACETONE	3.082	43	564663	192.0830126	ppb	99
18) IODOMETHANE	2.808	142	2442967	201.2276088	ppb	99
19) CARBON DISULFIDE	2.735	76	910099	39.7310680	ppb	99
20) ALLYL CHLORIDE	2.996	76	934242	194.9934545	ppb	97
21) METHYLENE CHLORIDE	3.057	84	312767	37.3369222	ppb	99
22) METHYL ACETATE	3.142	43	1726924	189.8866791	ppb	# 99
23) ACRYLONITRILE	3.538	53	817722	189.6443737	ppb	99
24) n-HEXANE	3.185	56	275594	41.1732767	ppb	97
25) TRANS-1,2-DICHLOROETHENE	3.155	96	298448	39.8574349	ppb	98
26) METHYL TERT-BUTYL ETHER	3.197	73	1077307	39.1226885	ppb	98
27) 1,1-DICHLOROETHANE	3.507	63	583173	39.4212425	ppb	97
28) VINYL ACETATE	3.617	43	4496506	199.5729922	ppb	98
29) DI-ISOPROPYL ETHER	3.398	45	1112931	39.0548379	ppb	98
30) ETHYL TERT-BUTYL ETHER	3.605	59	1051966	39.5339222	ppb	97
31) 2,2-DICHLOROPROPANE	3.872	77	457447	39.1868023	ppb	99
32) CIS-1,2-DICHLOROETHENE	3.806	96	323673	38.4452958	ppb	99
33) 2-BUTANONE (MEK)	4.110	43	1006466	192.0020790	ppb	98
34) BROMOCHLOROMETHANE	3.921	130	215826	39.3361688	ppb	98
35) TETRAHYDROFURAN	4.049	42	160220	38.1537046	ppb	91
36) CHLOROFORM	3.945	83	565749	38.4474618	ppb	99
37) CYCLOHEXANE	3.933	84	534574	41.4478426	ppb	99

Data Path : C:\msdchem\1\data\092217\
 Data File : 0922_11.D
 Acq On : 22 Sep 2017 9:11 am
 Operator : 605
 Sample : STD VMS 40 ppb 17I22108
 Misc : water IS/SURR 17H10686
 ALS Vial : 11 Sample Multiplier: 1
 InstName : VOCMS13

Quant Time: Sep 22 10:43:14 2017

Quant Method : C:\msdchem\1\methods\V813I22Q.M

Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13

QLast Update : Fri Sep 22 10:36:45 2017

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 1,1,1-TRICHLOROETHANE	4.085	97	489324	39.4534167	ppb	99
40) CARBON TETRACHLORIDE	4.049	117	465365	41.1027720	ppb	96
41) 1,1-DICHLOROPROPENE	4.146	75	423701	39.6380488	ppb	99
42) 2,2,4-TRIMETHYLPENTANE	4.189	57	1184583	40.6758418	ppb	100
43) n-Heptane	4.225	71	299312	40.8727468	ppb	# 99
44) BENZENE	4.292	78	1297978	39.2559886	ppb	99
45) TERT-AMYL METHYL ETHER	4.317	73	1100787	38.6191286	ppb	99
46) 1,2-DICHLOROETHANE	4.402	62	449905	38.4077715	ppb	99
47) T-AMYL ALCOHOL	4.396	59	348493	199.9634774	ppb	95
49) TRICHLOROETHENE	4.609	130	327147	39.8527981	ppb	# 99
50) METHYL CYCLOHEXANE	4.615	83	618905	42.3784189	ppb	98
51) 1,2-DICHLOROPROPANE	4.925	62	234257	39.0834604	ppb	98
52) DIBROMOMETHANE	4.864	93	211558	38.7287745	ppb	96
53) BROMODICHLOROMETHANE	4.937	83	445875	39.7545435	ppb	99
56) 2-CHLOROETHYL VINYL ETHER	5.253	63	1283350	200.7798459	ppb	99
57) CIS-1,3-DICHLOROPROPENE	5.320	75	559288	39.4670158	ppb	100
58) 4-METHYL-2-PENTANONE (...)	5.679	43	2478410	198.7180022	ppb	100
60) TOLUENE	5.466	91	1373128	40.0636153	ppb	98
61) TRANS-1,3-DICHLOROPROPENE	5.716	75	538004	39.2122457	ppb	99
62) 1,1,2-TRICHLOROETHANE	5.825	97	299479	38.9444185	ppb	99
63) TETRACHLOROETHENE	5.722	164	290210	41.4732016	ppb	99
64) 1,3-DICHLOROPROPANE	6.008	76	539055	38.8920316	ppb	99
65) 2-HEXANONE	6.215	58	934749	199.0665723	ppb	100
66) CHLORODIBROMOMETHANE	5.947	129	355253	39.4566832	ppb	99
67) 1,2-DIBROMOETHANE	6.129	107	334247	39.2867340	ppb	100
68) CHLOROBENZENE	6.464	112	941175	39.5629926	ppb	99
69) 1,1,1,2-TETRACHLOROETHANE	6.494	133	339381	39.5259354	ppb	# 99
70) ETHYLBENZENE	6.458	106	523473	40.0331480	ppb	99
71) M&P-XYLENE	6.555	106	1309944	80.1608661	ppb	98
72) O-XYLENE	6.859	106	643965	39.8760765	ppb	98
74) STYRENE	6.896	104	1059761	39.1997552	ppb	99
75) BROMOFORM	6.932	173	315558	41.1961910	ppb	99
76) ISOPROPYLBENZENE	7.072	105	1688843	39.9011357	ppb	99
78) BROMOBENZENE	7.364	77	690688	39.5483144	ppb	100
79) 1,1,2,2-TETRACHLOROETHANE	7.395	83	499149	39.1110655	ppb	99
80) 1,2,3-TRICHLOROPROPANE	7.492	110	163435	39.2141672	ppb	98
81) TRANS-1,4-DICHLORO-2-B...	7.510	53	153996	39.3115992	ppb	98
82) N-PROPYLBENZENE	7.352	91	1921002	40.5171995	ppb	100
83) 4-ETHYLTOLUENE	7.419	105	1676496	40.8567341	ppb	99
84) 2-CHLOROTOLUENE	7.468	91	1242078	39.9466810	ppb	99
85) 4-CHLOROTOLUENE	7.571	91	1141001	39.3196394	ppb	99
86) 1,3,5-TRIMETHYLBENZENE	7.468	105	1445792	39.8346841	ppb	99
87) TERT-BUTYLBENZENE	7.669	119	1184045	40.3960977	ppb	99
88) 1,2,4-TRIMETHYLBENZENE	7.705	105	1476413	40.4022518	ppb	98
89) SEC-BUTYLBENZENE	7.760	105	1847041	40.6559351	ppb	98
90) 1,3-DICHLOROBENZENE	7.869	146	751591	38.6825624	ppb	99
91) P-ISOPROPYLTOLUENE	7.821	119	1531419	40.4558126	ppb	100
92) DICYCLOPENTADIENE	7.827	66	1628181	39.6345958	ppb	100
93) 1,4-DICHLOROBENZENE	7.906	146	756899	38.6874727	ppb	# 60
94) 1,2,3-TRIMETHYLBENZENE	7.900	105	1408017	40.0779049	ppb	100
95) 1,2-DICHLOROBENZENE	8.046	146	684250	39.3428146	ppb	99
96) N-BUTYLBENZENE	7.979	91	1298629	40.1920761	ppb	98
97) 1,2-DIBROMO-3-CHLOROPR...	8.295	157	120023	38.6613086	ppb	95
98) 1,2,4-TRICHLOROBENZENE	8.508	180	453204	36.6938904	ppb	99
99) HEXACHLORO-1,3-BUTADIENE	8.490	225	266581	38.3974740	ppb	100

Data Path : C:\msdchem\1\data\092217\
Data File : 0922_11.D
Acq On : 22 Sep 2017 9:11 am
Operator : 605
Sample : STD VMS 40 ppb 17I22108
Misc : water IS/SURR 17H10686
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS13

Quant Time: Sep 22 10:43:14 2017
Quant Method : C:\msdchem\1\methods\V813I22Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
QLast Update : Fri Sep 22 10:36:45 2017
Response via : Initial Calibration

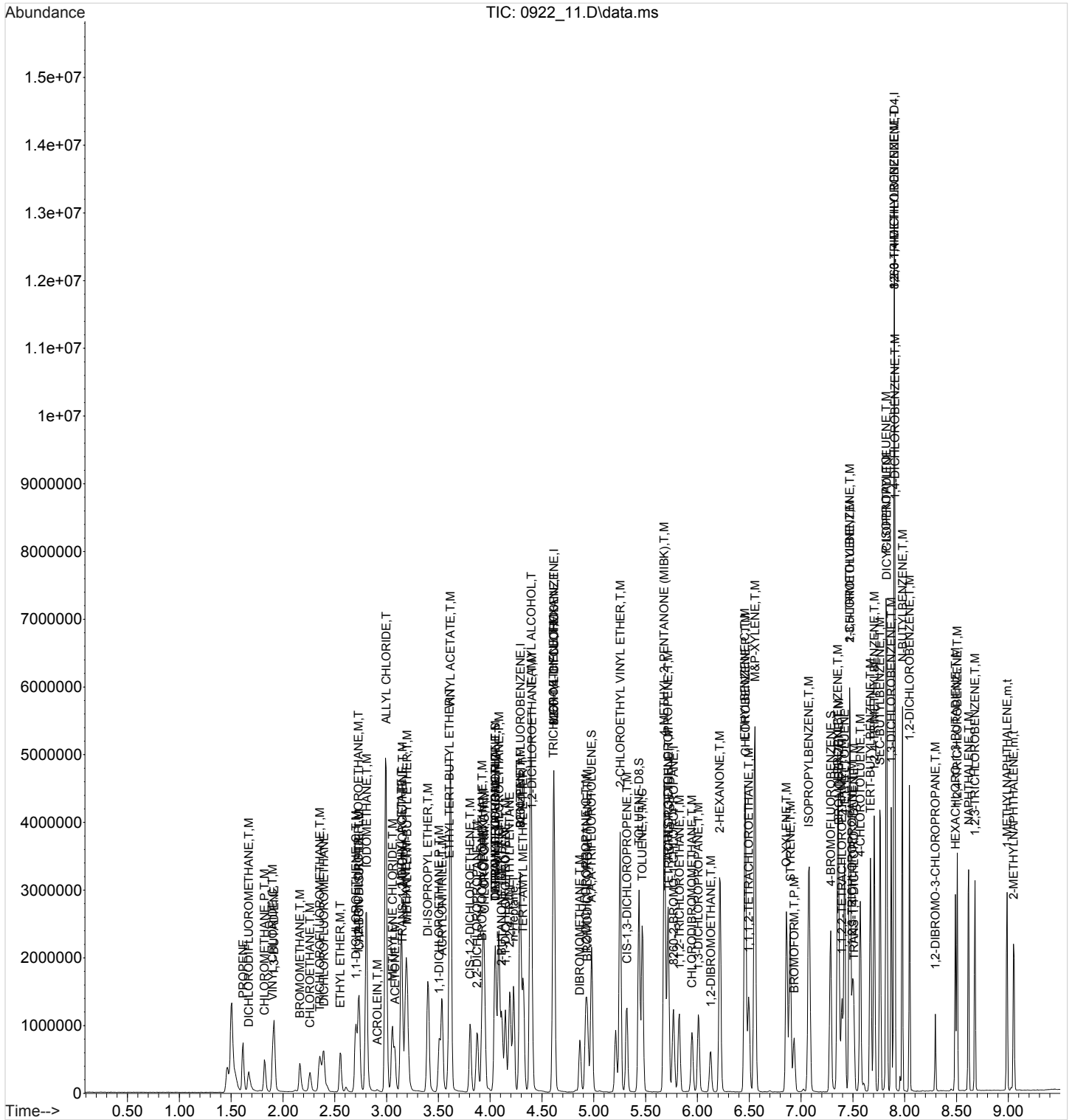
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
100)	NAPHTHALENE	8.618	128	1221087	37.3002799	ppb		100
101)	1,2,3-TRICHLOROBENZENE	8.678	180	419983	37.4312237	ppb		98
102)	1-METHYLNAPHTHALENE	8.989	142	682447	40.1070536	ppb		99
103)	2-METHYLNAPHTHALENE	9.050	142	569043	40.7736577	ppb		100

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

(QT Reviewed)

Data Path : C:\msdchem\1\data\092217\
Data File : 0922_11.D
Acq On : 22 Sep 2017 9:11 am
Operator : 605
Sample : STD VMS 40 ppb 17I22108
Misc : water IS/SURR 17H10686
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS13

Quant Time: Sep 22 10:43:14 2017
Quant Method : C:\msdchem\1\methods\V813I22Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
QLast Update : Fri Sep 22 10:36:45 2017
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\092217\
 Data File : 0922_12.D
 Acq On : 22 Sep 2017 9:30 am
 Operator : 605
 Sample : STD VMS 75 ppb 17I22108
 Misc : water IS/SURR 17H10686
 ALS Vial : 12 Sample Multiplier: 1
 InstName : VOCMS13

Quant Time: Sep 22 10:43:36 2017

Quant Method : C:\msdchem\1\methods\V813I22Q.M

Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13

QLast Update : Fri Sep 22 10:36:45 2017

Response via : Initial Calibration

Compound			R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards								
1)	8260-PENTAFLUOROBENZENE		4.292	168	808706	40.0000000	ppb	0.00
48)	8260-1,4-DIFLUOROBENZENE		4.615	114	1185306	40.0000000	ppb	0.00
55)	8260-2-BROMO-1-CHLOROP...		5.770	79	200092	40.0000000	ppb	0.00
73)	8260-1,4-DICHLOROBENZE...		7.900	152	587899	40.0000000	ppb	0.00
104)	AP9-PENTAFLUOROBENZENE		0.000	168	0m	40.0000000	ppb	-4.29
116)	AP9-1,4-DIFLUOROBENZENE		0.000	114	0m	40.0000000	ppb	-4.61
121)	AP9-2-BROMO-1-CHLOROPR...		0.000	79	0m	40.0000000	ppb	-5.77
125)	AP9-1,4-DICHLOROBENZEN...		0.000	152	0m	40.0000000	ppb	-7.90
System Monitoring Compounds								
38)	DIBROMOFLUOROMETHANE		4.049	111	420008	45.7787592	ppb	0.00
	Spiked Amount	40.000	Range	79 - 121	Recovery	=	114.45%	
54)	A,A,A-TRIFLUOROTOLUENE		4.980	146	731625	47.5958317	ppb	0.00
	Spiked Amount	40.000	Range	90 - 116	Recovery	=	118.99%#	
59)	TOLUENE-D8		5.436	98	1561340	47.6137613	ppb	0.00
	Spiked Amount	40.000	Range	90 - 115	Recovery	=	119.03%#	
77)	4-BROMOFLUOROBENZENE		7.285	95	596797	48.5024898	ppb	0.00
	Spiked Amount	40.000	Range	80 - 120	Recovery	=	121.26%#	
Target Compounds							Qvalue	
4)	PROPENE		1.615	41	638945	76.6752087	ppb	99
5)	DICHLORODIFLUOROMETHANE		1.670	85	669371	79.4072371	ppb	96
6)	CHLOROMETHANE		1.828	50	775969	71.8237032	ppb	100
7)	VINYL CHLORIDE		1.901	62	777340	73.9224955	ppb	100
8)	1,3-BUTADIENE		1.914	39	641274	74.0347593	ppb	97
9)	BROMOMETHANE		2.163	94	402508	68.0852455	ppb	100
10)	CHLOROETHANE		2.260	64	435395	71.6532359	ppb	97
11)	TRICHLOROFLUOROMETHANE		2.358	101	872522	76.4248026	ppb	99
12)	DICHLOROFLUOROMETHANE		2.394	67	997442	70.4996044	ug/l	100
13)	ETHYL ETHER		2.552	59	493949	71.2891288	ppb	99
14)	ACROLEIN		2.911	56	32199	353.1633838	ppb	98
15)	1,1-DICHLOROETHENE		2.704	96	500961	78.4582591	ppb	98
16)	1,1,2-TRICHLOROTRIFLUO...		2.729	101	563399	78.9459912	ppb	97
17)	ACETONE		3.082	43	1108373	359.6883130	ppb	99
18)	IODOMETHANE		2.808	142	5070676	398.4525304	ppb	98
19)	CARBON DISULFIDE		2.735	76	1817662	75.6999325	ppb	99
20)	ALLYL CHLORIDE		2.996	76	1853297	369.0170477	ppb	92
21)	METHYLENE CHLORIDE		3.057	84	608536	69.3018180	ppb	98
22)	METHYL ACETATE		3.142	43	3506923	367.8648279	ppb	# 99
23)	ACRYLONITRILE		3.538	53	1612815	356.8285509	ppb	100
24)	n-HEXANE		3.185	56	551657	78.6240784	ppb	97
25)	TRANS-1,2-DICHLOROETHENE		3.155	96	578631	73.7196274	ppb	99
26)	METHYL TERT-BUTYL ETHER		3.203	73	2106635	72.9825893	ppb	98
27)	1,1-DICHLOROETHANE		3.507	63	1129041	72.8087165	ppb	98
28)	VINYL ACETATE		3.617	43	8819854	373.4468060	ppb	99
29)	DI-ISOPROPYL ETHER		3.398	45	2204625	73.8043722	ppb	98
30)	ETHYL TERT-BUTYL ETHER		3.605	59	2102988	75.3955573	ppb	97
31)	2,2-DICHLOROPROPANE		3.872	77	861325	70.3893341	ppb	100
32)	CIS-1,2-DICHLOROETHENE		3.805	96	648517	73.4850274	ppb	99
33)	2-BUTANONE (MEK)		4.110	43	2018788	367.3992787	ppb	98
34)	BROMOCHLOROMETHANE		3.921	130	427622	74.3513912	ppb	97
35)	TETRAHYDROFURAN		4.049	42	304600	69.1975385	ppb	92
36)	CHLOROFORM		3.945	83	1123630	72.8463787	ppb	99
37)	CYCLOHEXANE		3.933	84	1037702	76.7551480	ppb	97

Data Path : C:\msdchem\1\data\092217\
 Data File : 0922_12.D
 Acq On : 22 Sep 2017 9:30 am
 Operator : 605
 Sample : STD VMS 75 ppb 17I22108
 Misc : water IS/SURR 17H10686
 ALS Vial : 12 Sample Multiplier: 1
 InstName : VOCMS13

Quant Time: Sep 22 10:43:36 2017

Quant Method : C:\msdchem\1\methods\V813I22Q.M

Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13

QLast Update : Fri Sep 22 10:36:45 2017

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 1,1,1-TRICHLOROETHANE	4.085	97	974059	74.9228221	ppb	99
40) CARBON TETRACHLORIDE	4.049	117	914583	77.0621784	ppb	97
41) 1,1-DICHLOROPROPENE	4.146	75	838776	74.8582269	ppb	100
42) 2,2,4-TRIMETHYLPENTANE	4.189	57	2382701	78.0515196	ppb	98
43) n-Heptane	4.225	71	589958	76.8548984	ppb	# 97
44) BENZENE	4.292	78	2602381	75.0844888	ppb	98
45) TERT-AMYL METHYL ETHER	4.316	73	2180943	72.9935111	ppb	98
46) 1,2-DICHLOROETHANE	4.402	62	930362	75.7689057	ppb	98
47) T-AMYL ALCOHOL	4.396	59	668953	366.1786244	ppb	95
49) TRICHLOROETHENE	4.609	130	651649	76.7984980	ppb	# 100
50) METHYL CYCLOHEXANE	4.615	83	1212219	80.3017411	ppb	98
51) 1,2-DICHLOROPROPANE	4.925	62	473942	76.4977648	ppb	98
52) DIBROMOMETHANE	4.864	93	416572	73.7764059	ppb	96
53) BROMODICHLOROMETHANE	4.943	83	881025	75.9949962	ppb	98
56) 2-CHLOROETHYL VINYL ETHER	5.253	63	2573858	395.6157825	ppb	99
57) CIS-1,3-DICHLOROPROPENE	5.320	75	1112270	77.1121897	ppb	99
58) 4-METHYL-2-PENTANONE (...)	5.679	43	5114018	402.8471876	ppb	99
60) TOLUENE	5.472	91	2729088	78.2295222	ppb	98
61) TRANS-1,3-DICHLOROPROPENE	5.716	75	1086771	77.8194712	ppb	99
62) 1,1,2-TRICHLOROETHANE	5.825	97	581607	74.3057630	ppb	99
63) TETRACHLOROETHENE	5.722	164	569945	80.0206661	ppb	98
64) 1,3-DICHLOROPROPANE	6.014	76	1081364	76.6502336	ppb	98
65) 2-HEXANONE	6.221	58	1868975	391.0396949	ppb	97
66) CHLORODIBROMOMETHANE	5.947	129	702618	76.6683499	ppb	99
67) 1,2-DIBROMOETHANE	6.123	107	660129	76.2291795	ppb	100
68) CHLOROBENZENE	6.464	112	1873549	77.3744958	ppb	99
69) 1,1,1,2-TETRACHLOROETHANE	6.494	133	679073	77.7007335	ppb	# 98
70) ETHYLBENZENE	6.458	106	1036380	77.8679073	ppb	95
71) M&P-XYLENE	6.555	106	2598119	156.2006131	ppb	96
72) O-XYLENE	6.859	106	1266254	77.0344543	ppb	97
74) STYRENE	6.896	104	2148720	82.0374991	ppb	99
75) BROMOFORM	6.932	173	633193	85.3239864	ppb	98
76) ISOPROPYLBENZENE	7.072	105	3429739	83.6400368	ppb	99
78) BROMOBENZENE	7.364	77	1398746	82.6688867	ppb	99
79) 1,1,2,2-TETRACHLOROETHANE	7.395	83	947821	76.6571968	ppb	99
80) 1,2,3-TRICHLOROPROPANE	7.498	110	315872	78.2287199	ppb	94
81) TRANS-1,4-DICHLORO-2-B...	7.510	53	301170	79.3560687	ppb	99
82) N-PROPYLBENZENE	7.352	91	3883771	84.5517073	ppb	99
83) 4-ETHYLTOLUENE	7.419	105	3329357	83.7488124	ppb	98
84) 2-CHLOROTOLUENE	7.468	91	2521160	83.6930518	ppb	98
85) 4-CHLOROTOLUENE	7.571	91	2253847	80.1687471	ppb	98
86) 1,3,5-TRIMETHYLBENZENE	7.468	105	2869510	81.6056950	ppb	98
87) TERT-BUTYLBENZENE	7.669	119	2279781	80.2826132	ppb	99
88) 1,2,4-TRIMETHYLBENZENE	7.705	105	2869524	81.0521868	ppb	98
89) SEC-BUTYLBENZENE	7.766	105	3589508	81.5529188	ppb	98
90) 1,3-DICHLOROBENZENE	7.869	146	1485213	78.9004665	ppb	100
91) P-ISOPROPYLTOLUENE	7.821	119	2930361	79.9033869	ppb	98
92) DICYCLOPENTADIENE	7.827	66	3146390	79.0572074	ppb	100
93) 1,4-DICHLOROBENZENE	7.906	146	1460852	77.0718551	ppb	# 29
94) 1,2,3-TRIMETHYLBENZENE	7.900	105	2680295	78.7475178	ppb	98
95) 1,2-DICHLOROBENZENE	8.046	146	1301846	77.2622582	ppb	99
96) N-BUTYLBENZENE	7.979	91	2443299	78.0529147	ppb	97
97) 1,2-DIBROMO-3-CHLOROPR...	8.295	157	218948	72.7964531	ppb	97
98) 1,2,4-TRICHLOROBENZENE	8.508	180	980924	81.9770998	ppb	100
99) HEXACHLORO-1,3-BUTADIENE	8.490	225	524014	77.9064684	ppb	100

Data Path : C:\msdchem\1\data\092217\
Data File : 0922_12.D
Acq On : 22 Sep 2017 9:30 am
Operator : 605
Sample : STD VMS 75 ppb 17I22108
Misc : water IS/SURR 17H10686
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS13

Quant Time: Sep 22 10:43:36 2017
Quant Method : C:\msdchem\1\methods\V813I22Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
QLast Update : Fri Sep 22 10:36:45 2017
Response via : Initial Calibration

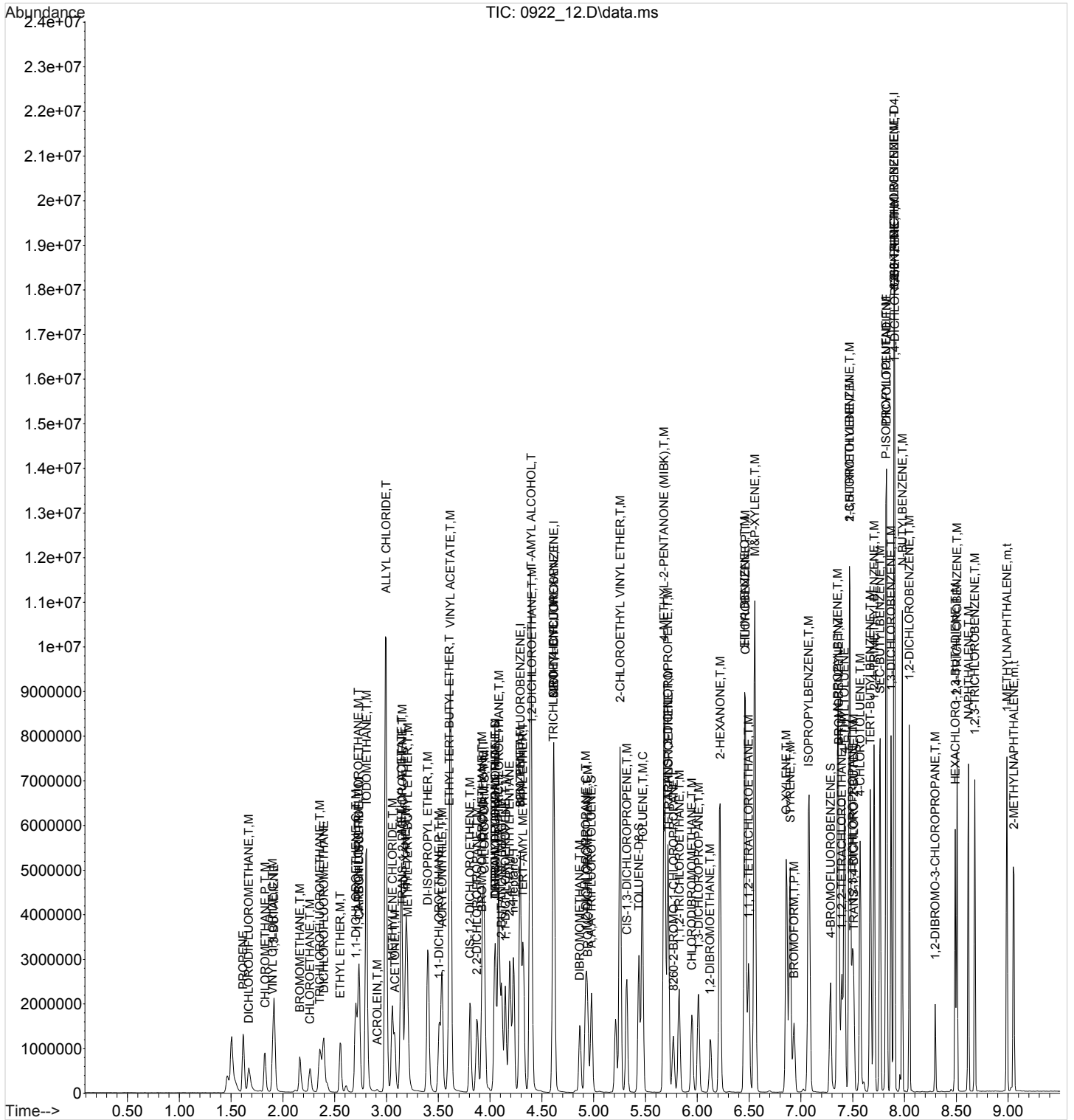
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
100) NAPHTHALENE	8.618	128	2656034	83.7444969	ppb		99
101) 1,2,3-TRICHLOROBENZENE	8.678	180	936955	86.1942333	ppb		99
102) 1-METHYLNAPHTHALENE	8.989	142	1687950	102.3926001	ppb		99
103) 2-METHYLNAPHTHALENE	9.056	142	1336361	98.8360873	ppb		99

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

(QT Reviewed)

Data Path : C:\msdchem\1\data\092217\
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Quant Time: Sep 22 10:43:36 2017
Quant Method : C:\msdchem\1\methods\V813I22Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
QLast Update : Fri Sep 22 10:36:45 2017
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\092217\
 Data File : 0922_13.D
 Acq On : 22 Sep 2017 9:50 am
 Operator : 605
 Sample : STD VMS 100 ppb 17I22108
 Misc : water IS/SURR 17H10686
 ALS Vial : 13 Sample Multiplier: 1
 InstName : VOCMS13

Quant Time: Sep 22 10:44:00 2017

Quant Method : C:\msdchem\1\methods\V813I22Q.M

Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13

QLast Update : Fri Sep 22 10:36:45 2017

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.286	168	834132	40.00000000	ppb	0.00
48) 8260-1,4-DIFLUOROBENZENE	4.615	114	1229838	40.00000000	ppb	0.00
55) 8260-2-BROMO-1-CHLOROP...	5.771	79	215206	40.00000000	ppb	0.00
73) 8260-1,4-DICHLOROBENZE...	7.900	152	602911	40.00000000	ppb	# 0.00
104) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.00000000	ppb	-4.29
116) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.00000000	ppb	-4.61
121) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.00000000	ppb	-5.77
125) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.00000000	ppb	-7.90

System Monitoring Compounds

38) DIBROMOFLUOROMETHANE	4.049	111	446392	47.1713972	ppb	0.00
Spiked Amount	40.000	Range	79 - 121	Recovery	= 117.93%	
54) A,A,A-TRIFLUOROTOLUENE	4.980	146	792992	49.7200737	ppb	0.00
Spiked Amount	40.000	Range	90 - 116	Recovery	= 124.30%#	
59) TOLUENE-D8	5.436	98	1642769	46.5786452	ppb	0.00
Spiked Amount	40.000	Range	90 - 115	Recovery	= 116.45%#	
77) 4-BROMOFLUOROBENZENE	7.285	95	635023	50.3241411	ppb	0.00
Spiked Amount	40.000	Range	80 - 120	Recovery	= 125.81%#	

Target Compounds

					Qvalue	
4) PROPENE	1.615	41	863996	100.5215335	ppb	100
5) DICHLORODIFLUOROMETHANE	1.670	85	925530	106.4485072	ppb	96
6) CHLOROMETHANE	1.822	50	1071228	96.1305043	ppb	100
7) VINYL CHLORIDE	1.901	62	1057627	97.5110911	ppb	99
8) 1,3-BUTADIENE	1.914	39	876759	98.1359547	ppb	98
9) BROMOMETHANE	2.163	94	539293	88.4421227	ppb	99
10) CHLOROETHANE	2.260	64	582166	92.8870331	ppb	99
11) TRICHLOROFLUOROMETHANE	2.358	101	1225702	104.0875334	ppb	99
12) DICHLOROFLUOROMETHANE	2.394	67	1368066	93.7479891	ug/l	99
13) ETHYL ETHER	2.552	59	695218	97.2787738	ppb	99
14) ACRYLEIN	2.911	56	45905	488.1453536	ppb	96
15) 1,1-DICHLOROETHENE	2.698	96	693519	105.3050011	ppb	96
16) 1,1,2-TRICHLOROTRIFLUO...	2.723	101	768391	104.3883810	ppb	97
17) ACETONE	3.082	43	1515267	476.7442208	ppb	99
18) IODOMETHANE	2.802	142	7210203	549.3056965	ppb	98
19) CARBON DISULFIDE	2.735	76	2571175	103.8173368	ppb	99
20) ALLYL CHLORIDE	2.990	76	2581215	498.2891954	ppb	92
21) METHYLENE CHLORIDE	3.057	84	848423	93.6756398	ppb	98
22) METHYL ACETATE	3.136	43	4968053	505.2474601	ppb	# 98
23) ACRYLONITRILE	3.532	53	2273435	487.6558819	ppb	99
24) n-HEXANE	3.185	56	764445	105.6303118	ppb	95
25) TRANS-1,2-DICHLOROETHENE	3.149	96	812112	100.3120821	ppb	99
26) METHYL TERT-BUTYL ETHER	3.197	73	2957109	99.3237683	ppb	99
27) 1,1-DICHLOROETHANE	3.507	63	1574582	98.4452638	ppb	98
28) VINYL ACETATE	3.617	43	11144097	457.4757941	ppb	99
29) DI-ISOPROPYL ETHER	3.398	45	3127974	101.5234528	ppb	98
30) ETHYL TERT-BUTYL ETHER	3.605	59	2936915	102.0836574	ppb	97
31) 2,2-DICHLOROPROPANE	3.873	77	1195121	94.6907518	ppb	100
32) CIS-1,2-DICHLOROETHENE	3.806	96	902670	99.1659067	ppb	98
33) 2-BUTANONE (MEK)	4.110	43	3507478	618.8685646	ppb	90
34) BROMOCHLOROMETHANE	3.921	130	584047	98.4538580	ppb	100
35) TETRAHYDROFURAN	4.049	42	389033	85.6846588	ppb	93
36) CHLOROFORM	3.946	83	1563841	98.2953830	ppb	99
37) CYCLOHEXANE	3.933	84	1430908	102.6130165	ppb	97

Data Path : C:\msdchem\1\data\092217\
 Data File : 0922_13.D
 Acq On : 22 Sep 2017 9:50 am
 Operator : 605
 Sample : STD VMS 100 ppb 17I22108
 Misc : water IS/SURR 17H10686
 ALS Vial : 13 Sample Multiplier: 1
 InstName : VOCMS13

Quant Time: Sep 22 10:44:00 2017

Quant Method : C:\msdchem\1\methods\V813I22Q.M

Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13

QLast Update : Fri Sep 22 10:36:45 2017

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 1,1,1-TRICHLOROETHANE	4.085	97	1350275	100.6947839	ppb	98
40) CARBON TETRACHLORIDE	4.043	117	1259445	102.8852806	ppb	98
41) 1,1-DICHLOROPROPENE	4.146	75	1162770	100.6104848	ppb	99
42) 2,2,4-TRIMETHYLPENTANE	4.189	57	3085774	98.0012949	ppb	98
43) n-Heptane	4.225	71	813308	102.7215077	ppb	# 98
44) BENZENE	4.292	78	3614764	101.1149054	ppb	98
45) TERT-AMYL METHYL ETHER	4.317	73	3060481	99.3082914	ppb	98
46) 1,2-DICHLOROETHANE	4.402	62	1310910	103.5065446	ppb	97
47) T-AMYL ALCOHOL	4.396	59	916876	486.5907747	ppb	100
49) TRICHLOROETHENE	4.609	130	891512	101.2625271	ppb	# 99
50) METHYL CYCLOHEXANE	4.615	83	1675448	106.9688688	ppb	98
51) 1,2-DICHLOROPROPANE	4.925	62	655021	101.8969881	ppb	98
52) DIBROMOMETHANE	4.864	93	583865	99.6603564	ppb	97
53) BROMODICHLOROMETHANE	4.937	83	1226584	101.9709900	ppb	99
56) 2-CHLOROETHYL VINYL ETHER	5.253	63	3607522	515.5530538	ppb	98
57) CIS-1,3-DICHLOROPROPENE	5.320	75	1550419	99.9395165	ppb	99
58) 4-METHYL-2-PENTANONE (...)	5.679	43	7142684	523.1363169	ppb	98
60) TOLUENE	5.466	91	3861973	102.9289923	ppb	98
61) TRANS-1,3-DICHLOROPROPENE	5.716	75	1522569	101.3683944	ppb	99
62) 1,1,2-TRICHLOROETHANE	5.825	97	800378	95.0743501	ppb	99
63) TETRACHLOROETHENE	5.722	164	796944	104.0332986	ppb	98
64) 1,3-DICHLOROPROPANE	6.008	76	1495308	98.5479472	ppb	98
65) 2-HEXANONE	6.221	58	2605365	506.8287911	ppb	96
66) CHLORODIBROMOMETHANE	5.947	129	977463	99.1682208	ppb	99
67) 1,2-DIBROMOETHANE	6.130	107	910536	97.7608354	ppb	99
68) CHLOROBENZENE	6.464	112	2628724	100.9376329	ppb	99
69) 1,1,1,2-TETRACHLOROETHANE	6.495	133	939618	99.9620913	ppb	# 98
70) ETHYLBENZENE	6.458	106	1439373	100.5514139	ppb	93
71) M&P-XYLENE	6.555	106	3655302	204.3253770	ppb	96
72) O-XYLENE	6.860	106	1762435	99.6902394	ppb	95
74) STYRENE	6.896	104	2995306	111.5124343	ppb	99
75) BROMOFORM	6.933	173	898271	118.0298691	ppb	98
76) ISOPROPYLBENZENE	7.079	105	4758003	113.1429164	ppb	99
78) BROMOBENZENE	7.364	77	1940295	111.8202631	ppb	99
79) 1,1,2,2-TETRACHLOROETHANE	7.395	83	1330547	104.9316112	ppb	99
80) 1,2,3-TRICHLOROPROPANE	7.498	110	428169	103.3998308	ppb	92
81) TRANS-1,4-DICHLORO-2-B...	7.510	53	414704	106.5506673	ppb	99
82) N-PROPYLBENZENE	7.352	91	5411226	114.8719395	ppb	99
83) 4-ETHYLTOLUENE	7.419	105	4639803	113.8065731	ppb	98
84) 2-CHLOROTOLUENE	7.468	91	3485101	112.8116311	ppb	98
85) 4-CHLOROTOLUENE	7.571	91	3158683	109.5560139	ppb	97
86) 1,3,5-TRIMETHYLBENZENE	7.468	105	3949909	109.5340962	ppb	98
87) TERT-BUTYLBENZENE	7.669	119	3152178	108.2402079	ppb	99
88) 1,2,4-TRIMETHYLBENZENE	7.705	105	3995224	110.0387182	ppb	96
89) SEC-BUTYLBENZENE	7.766	105	4927856	109.1722110	ppb	97
90) 1,3-DICHLOROBENZENE	7.869	146	2058623	106.6392700	ppb	99
91) P-ISOPROPYLTOLUENE	7.821	119	4041551	107.4587142	ppb	98
92) DICYCLOPENTADIENE	7.827	66	4338019	106.2844868	ppb	100
93) 1,4-DICHLOROBENZENE	7.906	146	2065896	106.2790250	ppb	# 20
94) 1,2,3-TRIMETHYLBENZENE	7.906	105	3671473	105.1826552	ppb	98
95) 1,2-DICHLOROBENZENE	8.046	146	1787122	103.4216589	ppb	99
96) N-BUTYLBENZENE	7.979	91	3320944	103.4483515	ppb	99
97) 1,2-DIBROMO-3-CHLOROPR...	8.295	157	304065	98.5791760	ppb	94
98) 1,2,4-TRICHLOROBENZENE	8.508	180	1402688	114.3056730	ppb	99
99) HEXACHLORO-1,3-BUTADIENE	8.490	225	754756	109.4174818	ppb	100

Data Path : C:\msdchem\1\data\092217\
Data File : 0922_13.D
Acq On : 22 Sep 2017 9:50 am
Operator : 605
Sample : STD VMS 100 ppb 17I22108
Misc : water IS/SURR 17H10686
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS13

Quant Time: Sep 22 10:44:00 2017
Quant Method : C:\msdchem\1\methods\V813I22Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
QLast Update : Fri Sep 22 10:36:45 2017
Response via : Initial Calibration

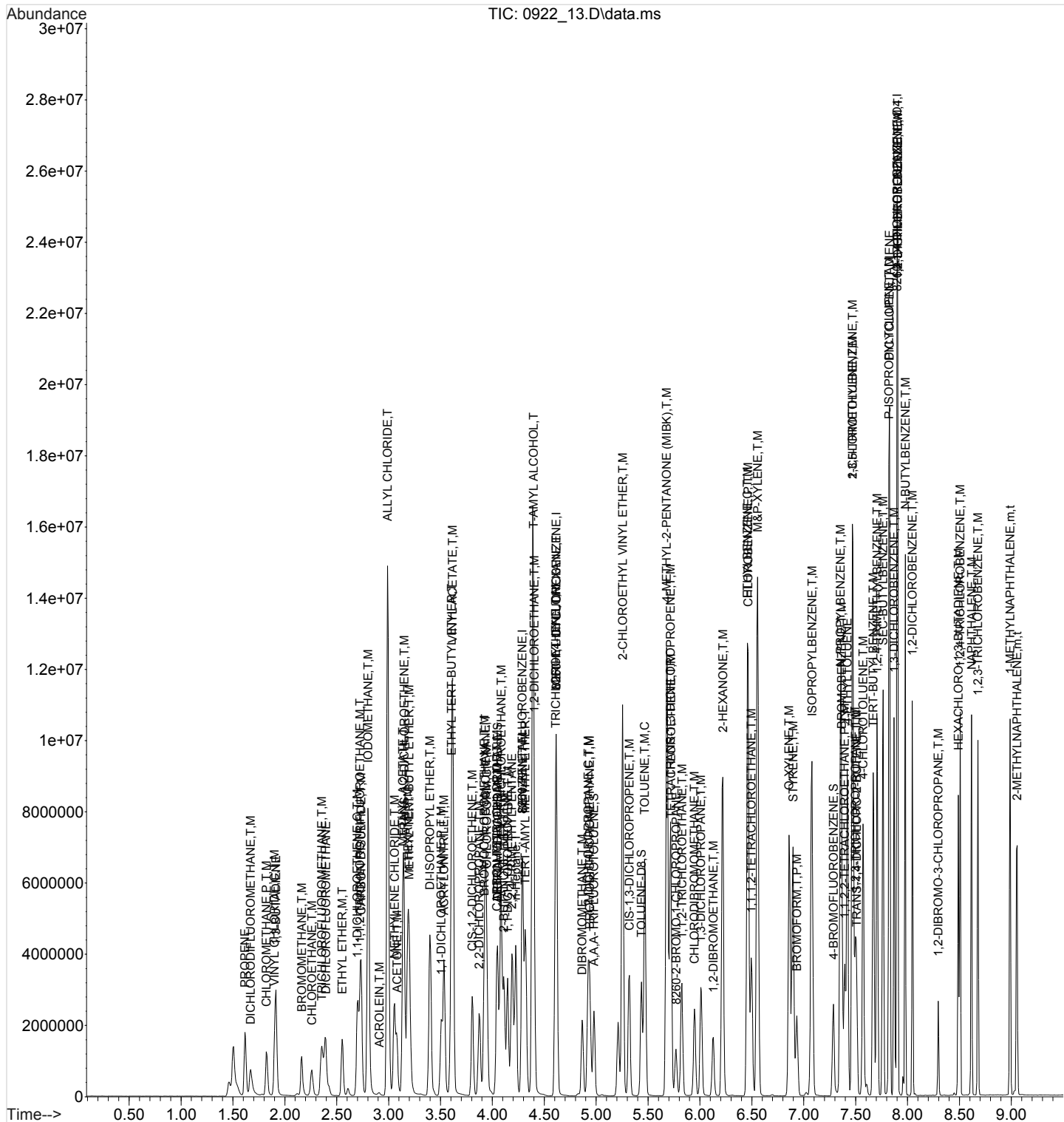
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) NAPHTHALENE	8.618	128	3727170	114.5912253	ppb	99
101) 1,2,3-TRICHLOROBENZENE	8.679	180	1335320	119.7827683	ppb	100
102) 1-METHYLNAPHTHALENE	8.989	142	2398238	141.8570054	ppb	99
103) 2-METHYLNAPHTHALENE	9.056	142	1916016	138.1784755	ppb	99

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

(QT Reviewed)

Data Path : C:\msdchem\1\data\092217\
Data File : 0922_13.D
Acq On : 22 Sep 2017 9:50 am
Operator : 605
Sample : STD VMS 100 ppb 17I22108
Misc : water IS/SURR 17H10686
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS13

Quant Time: Sep 22 10:44:00 2017
Quant Method : C:\msdchem\1\methods\V813I22Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
QLast Update : Fri Sep 22 10:36:45 2017
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\092217\
 Data File : 0922_14.D
 Acq On : 22 Sep 2017 10:09 am
 Operator : 605
 Sample : STD VMS 200 ppb 17I22108
 Misc : water IS/SURR 17H10686
 ALS Vial : 14 Sample Multiplier: 1
 InstName : VOCMS13

Quant Time: Sep 22 10:47:37 2017

Quant Method : C:\msdchem\1\methods\V813I22Q.M

Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13

QLast Update : Fri Sep 22 10:36:45 2017

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.292	168	848507	40.00000000	ppb	0.00	
48) 8260-1,4-DIFLUOROBENZENE	4.615	114	1250152	40.00000000	ppb	0.00	
55) 8260-2-BROMO-1-CHLOROP...	5.771	79	215469	40.00000000	ppb	0.00	
73) 8260-1,4-DICHLOROBENZE...	7.900	152	606744	40.00000000	ppb	# 0.00	
104) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.00000000	ppb	-4.29	
116) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.00000000	ppb	-4.61	
121) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.00000000	ppb	-5.77	
125) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.00000000	ppb	-7.90	
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.049	111	455880	47.3578775	ppb	0.00	
Spiked Amount	40.000	Range 79 - 121	Recovery	= 118.39%			
54) A,A,A-TRIFLUOROTOLUENE	4.980	146	796941	49.1557375	ppb	0.00	
Spiked Amount	40.000	Range 90 - 116	Recovery	= 122.89%#			
59) TOLUENE-D8	5.436	98	1701501	48.1850309	ppb	0.00	
Spiked Amount	40.000	Range 90 - 115	Recovery	= 120.46%#			
77) 4-BROMOFLUOROBENZENE	7.285	95	642517	50.5963579	ppb	0.00	
Spiked Amount	40.000	Range 80 - 120	Recovery	= 126.49%#			
						Qvalue	
4) PROPENE	1.622	41	1817657	207.8924225	ppb	99	
5) DICHLORODIFLUOROMETHANE	1.670	85	1944627	219.8693737	ppb	96	
6) CHLOROMETHANE	1.829	50	2243430	197.9115685	ppb	99	
7) VINYL CHLORIDE	1.908	62	2234526	202.5285492	ppb	99	
8) 1,3-BUTADIENE	1.920	39	1861232	204.7989770	ppb	97	
9) BROMOMETHANE	2.163	94	1100787	177.4667594	ppb	98	
10) CHLOROETHANE	2.260	64	1171427	183.7396295	ppb	96	
11) TRICHLOROFLUOROMETHANE	2.358	101	2548751	212.7749927	ppb	98	
12) DICHLOROFLUOROMETHANE	2.394	67	2920303	196.7261889	ug/l	99	
13) ETHYL ETHER	2.552	59	1402784	192.9599760	ppb	99	
14) ACROLEIN	2.911	56	97391	1018.0927533	ppb	100	
15) 1,1-DICHLOROETHENE	2.705	96	1417349	211.5664446	ppb	99	
16) 1,1,2-TRICHLOROTRIFLUO...	2.729	101	1599975	213.6792952	ppb	97	
17) ACETONE	3.082	43	3181008	983.8760441	ppb	98	
18) IODOMETHANE	2.802	142	12690059	950.4069528	ppb	89	
19) CARBON DISULFIDE	2.735	76	5412835	214.8534782	ppb	98	
20) ALLYL CHLORIDE	2.990	76	5399174	1024.6226849	ppb	79	
21) METHYLENE CHLORIDE	3.057	84	1744549	189.3549924	ppb	97	
22) METHYL ACETATE	3.143	43	9808377	980.6057193	ppb	# 100	
23) ACRYLONITRILE	3.538	53	4737818	999.0532839	ppb	100	
24) n-HEXANE	3.185	56	1570269	213.3023927	ppb	98	
25) TRANS-1,2-DICHLOROETHENE	3.155	96	1646860	199.9739159	ppb	96	
26) METHYL TERT-BUTYL ETHER	3.197	73	6172611	203.8140487	ppb	99	
27) 1,1-DICHLOROETHANE	3.508	63	3326327	204.4437501	ppb	97	
29) DI-ISOPROPYL ETHER	3.398	45	6681099	213.1721695	ppb	97	
30) ETHYL TERT-BUTYL ETHER	3.605	59	6478949	221.3852888	ppb	95	
31) 2,2-DICHLOROPROPANE	3.873	77	2367247	184.3820395	ppb	100	
32) CIS-1,2-DICHLOROETHENE	3.806	96	1877357	202.7494092	ppb	99	
33) 2-BUTANONE (MEK)	4.110	43	6857900	1189.5260809	ppb	92	
34) BROMOCHLOROMETHANE	3.921	130	1202134	199.2127704	ppb	97	
35) TETRAHYDROFURAN	4.049	42	847909	183.5883961	ppb	93	
36) CHLOROFORM	3.946	83	3334301	206.0272566	ppb	99	
37) CYCLOHEXANE	3.933	84	3032981	213.8157955	ppb	96	
39) 1,1,1-TRICHLOROETHANE	4.086	97	2849833	208.9216808	ppb	99	

Data Path : C:\msdchem\1\data\092217\
 Data File : 0922_14.D
 Acq On : 22 Sep 2017 10:09 am
 Operator : 605
 Sample : STD VMS 200 ppb 17I22108
 Misc : water IS/SURR 17H10686
 ALS Vial : 14 Sample Multiplier: 1
 InstName : VOCMS13

Quant Time: Sep 22 10:47:37 2017

Quant Method : C:\msdchem\1\methods\V813I22Q.M

Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13

QLast Update : Fri Sep 22 10:36:45 2017

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) CARBON TETRACHLORIDE	4.049	117	2676828	214.9680213	ppb	96
41) 1,1-DICHLOROPROPENE	4.146	75	2466889	209.8352202	ppb	98
42) 2,2,4-TRIMETHYLPENTANE	4.189	57	6973117	217.7078074	ppb	97
43) n-Heptane	4.225	71	1691552	210.0250258	ppb #	93
44) BENZENE	4.292	78	7774590	213.7923100	ppb	97
45) TERT-AMYL METHYL ETHER	4.317	73	6545642	208.7985238	ppb	97
46) 1,2-DICHLOROETHANE	4.402	62	2859390	221.9461833	ppb	96
47) T-AMYL ALCOHOL	4.396	59	1770038	923.4538771	ppb	99
49) TRICHLOROETHENE	4.609	130	1872477	209.2296112	ppb #	99
50) METHYL CYCLOHEXANE	4.615	83	3533652	221.9398637	ppb	97
51) 1,2-DICHLOROPROPANE	4.925	62	1367898	209.3364842	ppb	99
52) DIBROMOMETHANE	4.864	93	1226630	205.9722266	ppb	96
53) BROMODICHLOROMETHANE	4.943	83	2652077	216.8955078	ppb	97
56) 2-CHLOROETHYL VINYL ETHER	5.254	63	7663115	1093.8034725	ppb	97
57) CIS-1,3-DICHLOROPROPENE	5.320	75	3320032	213.7469916	ppb	99
58) 4-METHYL-2-PENTANONE (...)	5.686	43	12376445	905.3550514	ppb	88
60) TOLUENE	5.473	91	8238971	219.3163661	ppb	99
61) TRANS-1,3-DICHLOROPROPENE	5.716	75	3300277	219.4550386	ppb	97
62) 1,1,2-TRICHLOROETHANE	5.825	97	1673893	198.5937128	ppb	99
63) TETRACHLOROETHENE	5.722	164	1702560	221.9813912	ppb	97
64) 1,3-DICHLOROPROPANE	6.014	76	3153488	207.5762623	ppb	96
65) 2-HEXANONE	6.221	58	5414103	1051.9347354	ppb	94
66) CHLORODIBROMOMETHANE	5.947	129	2066302	209.3801804	ppb	99
67) 1,2-DIBROMOETHANE	6.130	107	1896351	203.3555768	ppb	100
68) CHLOROBENZENE	6.464	112	5603408	214.8968011	ppb	98
69) 1,1,1,2-TETRACHLOROETHANE	6.495	133	1893064	201.1494648	ppb #	99
70) ETHYLBENZENE	6.458	106	3039748	212.0908782	ppb	100
71) M&P-XYLENE	6.555	106	7621870	425.5299784	ppb	77
72) O-XYLENE	6.860	106	3621615	204.6027137	ppb	95
74) STYRENE	6.896	104	6314534	233.5990775	ppb	100
75) BROMOFORM	6.933	173	1845846	241.0059299	ppb	98
76) ISOPROPYLBENZENE	7.079	105	9431208	222.8525961	ppb	100
78) BROMOBENZENE	7.365	77	4140119	237.0900274	ppb	98
79) 1,1,2,2-TETRACHLOROETHANE	7.395	83	2699514	211.5482429	ppb	99
80) 1,2,3-TRICHLOROPROPANE	7.498	110	836258	200.6746944	ppb	87
81) TRANS-1,4-DICHLORO-2-B...	7.511	53	860519	219.6980138	ppb	98
82) N-PROPYLBENZENE	7.358	91	9834296	207.4480105	ppb	95
83) 4-ETHYLTOLUENE	7.425	105	8968810	218.6000948	ppb	98
84) 2-CHLOROTOLUENE	7.474	91	7248491	233.1491472	ppb	97
85) 4-CHLOROTOLUENE	7.571	91	6514046	224.5063957	ppb	97
86) 1,3,5-TRIMETHYLBENZENE	7.474	105	8104381	223.3211245	ppb	97
87) TERT-BUTYLBENZENE	7.675	119	6783064	231.4469788	ppb	97
88) 1,2,4-TRIMETHYLBENZENE	7.705	105	7651744	209.4172913	ppb	94
89) SEC-BUTYLBENZENE	7.766	105	8402384	184.9712963	ppb #	90
90) 1,3-DICHLOROBENZENE	7.870	146	4375405	225.2196705	ppb	100
91) P-ISOPROPYLTOLUENE	7.821	119	7015558	185.3546617	ppb #	86
92) DICYCLOPENTADIENE	7.827	66	7502310	182.6506208	ppb #	93
93) 1,4-DICHLOROBENZENE	7.906	146	4265350	218.0426730	ppb #	9
94) 1,2,3-TRIMETHYLBENZENE	7.906	105	6160367	175.3711274	ppb #	80
95) 1,2-DICHLOROBENZENE	8.046	146	3897354	224.1170363	ppb	99
96) N-BUTYLBENZENE	7.979	91	5684336	175.9500847	ppb #	83
97) 1,2-DIBROMO-3-CHLOROPR...	8.301	157	684938	220.6570103	ppb	96
98) 1,2,4-TRICHLOROBENZENE	8.508	180	3213373	260.2049540	ppb	99
99) HEXACHLORO-1,3-BUTADIENE	8.490	225	1762843	253.9460687	ppb	98
100) NAPHTHALENE	8.618	128	6275897	191.7324784	ppb #	91

Data Path : C:\msdchem\1\data\092217\
Data File : 0922_14.D
Acq On : 22 Sep 2017 10:09 am
Operator : 605
Sample : STD VMS 200 ppb 17I22108
Misc : water IS/SURR 17H10686
ALS Vial : 14 Sample Multiplier: 1
InstName : VOCMS13

Quant Time: Sep 22 10:47:37 2017

Quant Method : C:\msdchem\1\methods\V813I22Q.M

Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13

QLast Update : Fri Sep 22 10:36:45 2017

Response via : Initial Calibration

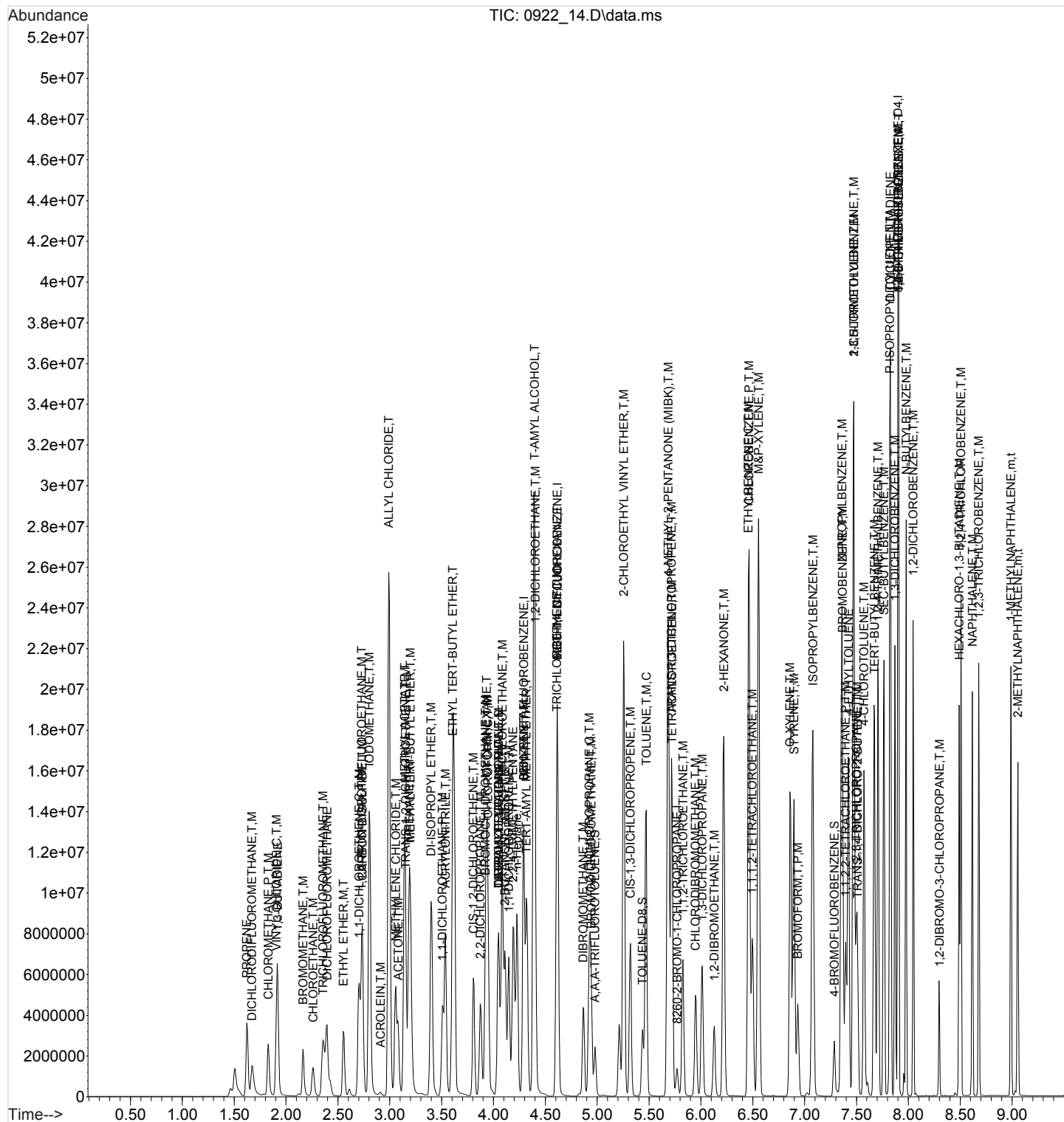
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
101) 1,2,3-TRICHLOROBENZENE	8.679	180	3027875	269.8948834	ppb		99
102) 1-METHYLNAPHTHALENE	8.989	142	4855818	285.4096319	ppb		96
103) 2-METHYLNAPHTHALENE	9.056	142	3958195	283.6522080	ppb		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\092217\
Data File : 0922_14.D
Acq On : 22 Sep 2017 10:09 am
Operator : 605
Sample : STD VMS 200 ppb 17I22108
Misc : water IS/SURR 17H10686
ALS Vial : 14 Sample Multiplier: 1
InstName : VOCMS13

Quant Time: Sep 22 10:47:37 2017
Quant Method : C:\msdchem\1\methods\V813I22Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
QLast Update : Fri Sep 22 10:36:45 2017
Response via : Initial Calibration





7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L937868	Calibration (begin) date/time:	07/21/17 20:27
Instrument ID:	VOCMS13	Calibration (end) date/time:	09/22/17 10:09
Lab File ID:	0922_17-1	Analysis date/time:	09/22/17 11:07
Analytical Method:	8260C	Sample ID:	SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff. %	Max Diff. %	True Value mg/l	Result mg/l	Result % Rec.	Limits %
1,1,1-TRICHLOROETHANE	0.671922	0.61617550		8.30	40	0.0250	0.02292585	91.70	70 - 130
1,1,2,2-TETRACHLOROETHANE	0.842411	0.78870780		6.37	40	0.0250	0.02340627	93.60	70 - 130
1,1,2-TRICHLOROETHANE	1.599516	1.528319		4.45	40	0.0250	0.02388721	95.50	70 - 130
1,1,2-TRICHLOROTRIFLUOROETHANE	0.379532	0.39252880		3.42	40	0.0250	0.02585614	103	70 - 130
1,1-DICHLOROETHANE	0.814961	0.73906080		9.31	40	0.0250	0.02267167	90.70	70 - 130
1,1-DICHLOROETHENE	0.343439	0.32735990		4.68	20.49	0.0250	0.02382957	95.30	70 - 130
1,2,3-TRICHLOROBENZENE	0.806457	0.72957080		9.53	40	0.0250	0.02261654	90.50	70 - 130
1,2,4-TRICHLOROBENZENE	0.862796	0.80152570		7.10	40	0.0250	0.02322466	92.90	70 - 130
1,2,4-TRIMETHYLBENZENE	2.454420	2.442154		0.50	40	0.0250	0.02487507	99.50	70 - 130
1,2-DIBROMO-3-CHLOROPROPANE	0.208468	0.20672340		0.8370	40	0.0250	0.02479077	99.20	64 - 127
1,2-DIBROMOETHANE	1.748565	1.742321		0.3570	40	0.0250	0.02491073	99.60	70 - 130
1,2-DICHLOROBENZENE	1.169467	1.131578		3.24	40	0.0250	0.02419005	96.80	70 - 130
1,2-DICHLOROETHANE	0.651887	0.56739840		13	40	0.0250	0.02175984	87	70 - 130
1,2-DICHLOROPROPANE	0.222184	0.20378570		8.28	20.49	0.0250	0.02292982	91.70	70 - 130
1,3,5-TRIMETHYLBENZENE	2.350511	2.401579		2.17	40	0.0250	0.02554316	102	70 - 130
1,3-DICHLOROBENZENE	1.329822	1.248503		6.12	40	0.0250	0.02347125	93.90	70 - 130
1,4-DICHLOROBENZENE	1.296643	1.265260		2.42	40	0.0250	0.02439493	97.60	70 - 130
2-BUTANONE (MEK)	0.327649	0.29672010		9.44	40	0.1250	0.1132003	90.60	37 - 158
2-HEXANONE	1.001836	0.98307680		1.87	40	0.1250	0.1226594	98.10	58 - 147
4-METHYL-2-PENTANONE (MIBK)	2.566453	2.663361		3.78	40	0.1250	0.1297199	104	59 - 143
ACETONE	0.167336	0.15316850		8.47	40	0.1250	0.1144171	91.50	10 - 160
BENZENE	1.809952	1.616010		10.70	40	0.0250	0.02232117	89.30	70 - 130
BROMOCHLOROMETHANE	0.296995	0.28521810		3.97	40	0.0250	0.02400868	96	70 - 130
BROMODICHLOROMETHANE	0.422558	0.38537520		8.80	40	0.0250	0.02280013	91.20	70 - 130
BROMOFORM	0.507427	0.51594230		1.68	40	0.0250	0.02541955	102	70 - 130
BROMOMETHANE	0.302991	0.29302580		3.29	40	0.0250	0.02417776	96.70	18 - 160
CARBON DISULFIDE	1.271609	1.102604		13.30	40	0.0250	0.02167733	86.70	55 - 127
CARBON TETRACHLORIDE	0.622616	0.59535070		4.38	40	0.0250	0.02390523	95.60	70 - 130
CHLOROBENZENE	4.881147	4.797328		1.72	40	0.0250	0.0245707	98.30	70 - 130
CHLORODIBROMOMETHANE	1.783129	1.800759		0.9890	40	0.0250	0.02524718	101	70 - 130
CHLOROETHANE	0.322725	0.29693170		7.99	40	0.0250	0.02300194	92	47 - 152
CHLOROFORM	0.788907	0.74677260		5.34	20.49	0.0250	0.02366479	94.70	70 - 130
CHLOROMETHANE	0.588270	0.49871390		15.20	40	0.0250	0.02119411	84.80	70 - 130
CIS-1,2-DICHLOROETHENE	0.476585	0.43879110		7.93	40	0.0250	0.02301748	92.10	70 - 130
CIS-1,3-DICHLOROPROPENE	2.958413	2.862836		3.23	40	0.0250	0.02419233	96.80	70 - 130
CYCLOHEXANE	0.693926	0.67106470		3.29	40	0.0250	0.02417638	96.70	70 - 130
DICHLORODIFLUOROMETHANE	0.465050	0.43084640		7.35	40	0.0250	0.02316128	92.60	49 - 155
ETHYLBENZENE	2.643491	2.634075		0.3560	20.49	0.0250	0.02491096	99.60	70 - 130
ISOPROPYLBENZENE	2.812292	2.838399		0.9280	40	0.0250	0.02523207	101	70 - 130
M&P-XYLENE	3.337895	3.298335		1.19	40	0.05	0.04940741	98.80	70 - 130
METHYL ACETATE	0.501495	0.45288510		9.69	40	0.1250	0.1128836	90.30	70 - 130
METHYL CYCLOHEXANE	0.723826	0.54168840		25.20	40	0.0250	0.02395927	95.80	50 - 150
METHYL TERT-BUTYL ETHER	1.499421	1.402610		6.46	40	0.0250	0.02338586	93.50	70 - 130
METHYLENE CHLORIDE	0.447034	0.40966210		8.36	40	0.0250	0.02290999	91.60	70 - 130
N-BUTYLBENZENE	2.106235	2.103336		0.1380	40	0.0250	0.02496559	99.90	70 - 130
N-PROPYLBENZENE	3.163366	3.129008		1.09	40	0.0250	0.02472847	98.90	70 - 130
NAPHTHALENE	2.187797	2.039555		6.78	40	0.0250	0.02330603	93.20	62 - 128
O-XYLENE	3.202567	3.296462		2.93	40	0.0250	0.02573297	103	70 - 130



GC/MS CONTINUING CALIBRATION VERIFICATION

SDG: L937868
Instrument ID: VOCMS13
Lab File ID: 0922_17-1
Analytical Method: 8260C

Calibration (begin) date/time: 07/21/17 20:27
Calibration (end) date/time: 09/22/17 10:09
Analysis date/time: 09/22/17 11:07
Sample ID: SSCV

Analyte	Avg. RRF	RRF	Min. RRF	Diff. %	Max Diff. %	True Value mg/l	Result mg/l	Result % Rec.	Limits %
P-ISOPROPYLTOLUENE	2.453010	2.521441		2.79	40	0.0250	0.02569742	103	70 - 130
SEC-BUTYLBENZENE	3.024444	3.028239		0.1250	40	0.0250	0.02503137	100	70 - 130
STYRENE	1.789370	1.812870		1.31	40	0.0250	0.02532832	101	70 - 130
TERT-BUTYLBENZENE	1.945318	1.977178		1.64	40	0.0250	0.02540945	102	70 - 130
TETRACHLOROETHENE	1.432761	1.435143		0.1660	40	0.0250	0.02504156	100	70 - 130
TOLUENE	7.116985	6.941552		2.46	20.49	0.0250	0.02438376	97.50	70 - 130
TRANS-1,2-DICHLOROETHENE	0.417142	0.38816730		6.95	40	0.0250	0.02326347	93.10	70 - 130
TRANS-1,3-DICHLOROPROPENE	2.807641	2.715107		3.30	40	0.0250	0.02417605	96.70	70 - 130
TRICHLOROETHENE	0.290882	0.29024360		0.2190	40	0.0250	0.02494514	99.80	70 - 130
TRICHLOROFLUOROMETHANE	0.613537	0.65270160		6.38	40	0.0250	0.02659586	106	70 - 130
VINYL CHLORIDE	0.549494	0.48399930		11.90	20.49	0.0250	0.02202023	88.10	70 - 130
4-BROMOFLUOROBENZENE	0.830785	0.87497280		5.32	40	0.04	0.04212751	105	70 - 130
A,A,A-TRIFLUOROTOLUENE	0.529120	0.55923890		5.69	40	0.04	0.04227689	106	70 - 130
DIBROMOFLUOROMETHANE	0.470311	0.45840060		2.53	40	0.04	0.03898703	97.50	70 - 130
TOLUENE-D8	6.597955	6.881082		4.29	40	0.04	0.04171645	104	70 - 130

Data Path : C:\msdchem\1\data\092217\
 Data File : 0922_17.D
 Acq On : 22 Sep 2017 11:07 am
 Operator : 605
 Sample : SSCV VMS 25 ppb 17I21027
 Misc : water IS/SURR 17H10686
 ALS Vial : 17 Sample Multiplier: 1
 InstName : VOCMS13

Quant Time: Sep 22 12:30:36 2017

Quant Method : C:\msdchem\1\methods\V813I22Q.M

Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13

QLast Update : Fri Sep 22 10:59:34 2017

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.286	168	783221	40.0000000	ppb	0.00
48) 8260-1,4-DIFLUOROBENZENE	4.615	114	1147009	40.0000000	ppb	0.00
55) 8260-2-BROMO-1-CHLOROP...	5.771	79	195243	40.0000000	ppb	0.00
73) 8260-1,4-DICHLOROBENZE...	7.900	152	596662	40.0000000	ppb	0.00
104) AP9-PENTAFLUOROBENZENE	4.286	168	783770	40.0000000	ppb	0.00
116) AP9-1,4-DIFLUOROBENZENE	4.615	114	1147009	40.0000000	ppb	0.00
121) AP9-2-BROMO-1-CHLOROPR...	5.771	79	195243	40.0000000	ppb	0.00
125) AP9-1,4-DICHLOROBENZEN...	7.900	152	596662	40.0000000	ppb	0.00
System Monitoring Compounds						
38) DIBROMOFLUOROMETHANE	4.049	111	359029	38.9870320	ppb	0.00
Spiked Amount	40.000	Range 79 - 121	Recovery	=	97.47%	
54) A,A,A-TRIFLUOROTOLUENE	4.980	146	641452	42.2768870	ppb	0.00
Spiked Amount	40.000	Range 90 - 116	Recovery	=	105.69%	
59) TOLUENE-D8	5.436	98	1343483	41.7164491	ppb	0.00
Spiked Amount	40.000	Range 90 - 115	Recovery	=	104.29%	
77) 4-BROMOFLUOROBENZENE	7.285	95	522063	42.1275087	ppb	0.00
Spiked Amount	40.000	Range 80 - 120	Recovery	=	105.32%	
Target Compounds						
4) PROPENE	1.616	41	219053	24.9964251	ppb	98
5) DICHLORODIFLUOROMETHANE	1.670	85	210905	23.1612761	ppb	96
6) CHLOROMETHANE	1.829	50	244127	21.1941057	ppb	99
7) VINYL CHLORIDE	1.902	62	236924	22.0202247	ppb	99
8) 1,3-BUTADIENE	1.914	39	208310	22.6267751	ppb	95
9) BROMOMETHANE	2.163	94	143440	24.1777557	ppb	99
10) CHLOROETHANE	2.267	64	145352	23.0019449	ppb	99
11) TRICHLOROFLUOROMETHANE	2.358	101	319506	26.5958578	ppb	98
12) DICHLOROFLUOROMETHANE	2.394	67	350818	23.9918093	ug/l	99
13) ETHYL ETHER	2.552	59	160881	22.4919125	ppb	97
14) ACRYLEIN	2.911	56	231044	2631.9841164	ppb	98
15) 1,1-DICHLOROETHENE	2.705	96	160247	23.8295666	ppb	96
16) 1,1,2-TRICHLOROTRIFLUO...	2.723	101	192148	25.8561397	ppb	98
17) ACETONE	3.082	43	374890	114.4170663	ppb	99
18) IODOMETHANE	2.808	142	1570306	118.9870110	ppb	98
19) CARBON DISULFIDE	2.735	76	539739	21.6773272	ppb	99
20) ALLYL CHLORIDE	2.997	76	601711	118.5038141	ppb	98
21) METHYLENE CHLORIDE	3.057	84	200535	22.9099925	ppb	99
22) METHYL ACETATE	3.143	43	1108466	112.8836462	ppb	# 99
23) ACRYLONITRILE	3.532	53	536484	116.6596660	ppb	99
24) n-HEXANE	3.185	56	163454	21.1364107	ppb	97
25) TRANS-1,2-DICHLOROETHENE	3.155	96	190013	23.2634729	ppb	99
26) METHYL TERT-BUTYL ETHER	3.197	73	686596	23.3858581	ppb	96
27) 1,1-DICHLOROETHANE	3.508	63	361780	22.6716711	ppb	99
28) VINYL ACETATE	3.617	43	2618291	107.8933510	ppb	99
29) DI-ISOPROPYL ETHER	3.398	45	680456	21.7704627	ppb	100
30) ETHYL TERT-BUTYL ETHER	3.605	59	682200	23.7888679	ppb	99
31) 2,2-DICHLOROPROPANE	3.873	77	280212	22.2554851	ppb	99
32) CIS-1,2-DICHLOROETHENE	3.806	96	214794	23.0174756	ppb	98
33) 2-BUTANONE (MEK)	4.110	43	726242	113.2003100	ppb	98
34) BROMOCHLOROMETHANE	3.921	130	139618	24.0086768	ppb	95
35) TETRAHYDROFURAN	4.049	42	79113	19.0820058	ppb	96
36) CHLOROFORM	3.946	83	365555	23.6647871	ppb	99
37) CYCLOHEXANE	3.933	84	328495	24.1763845	ppb	97

Data Path : C:\msdchem\1\data\092217\
 Data File : 0922_17.D
 Acq On : 22 Sep 2017 11:07 am
 Operator : 605
 Sample : SSCV VMS 25 ppb 17I21027
 Misc : water IS/SURR 17H10686
 ALS Vial : 17 Sample Multiplier: 1
 InstName : VOCMS13

Quant Time: Sep 22 12:30:36 2017

Quant Method : C:\msdchem\1\methods\V813I22Q.M

Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13

QLast Update : Fri Sep 22 10:59:34 2017

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 1,1,1-TRICHLOROETHANE	4.086	97	301626	22.9258489	ppb	98
40) CARBON TETRACHLORIDE	4.043	117	291432	23.9052282	ppb	95
41) 1,1-DICHLOROPROPENE	4.146	75	276689	24.5171075	ppb	99
42) 2,2,4-TRIMETHYLPENTANE	4.189	57	696386	22.8669807	ppb	98
43) n-Heptane	4.225	71	182188	22.2888093	ppb	# 96
44) BENZENE	4.292	78	791058	22.3211663	ppb	99
45) TERT-AMYL METHYL ETHER	4.317	73	690030	23.0585234	ppb	100
46) 1,2-DICHLOROETHANE	4.402	62	277749	21.7598399	ppb	100
47) T-AMYL ALCOHOL	4.402	59	143377	75.7109794	ppb	# 84
49) TRICHLOROETHENE	4.609	130	208070	24.9451428	ppb	# 100
50) METHYL CYCLOHEXANE	4.615	83	388326	23.9592668	ppb	99
51) 1,2-DICHLOROPROPANE	4.925	62	146090	22.9298164	ppb	98
52) DIBROMOMETHANE	4.864	93	138028	24.1026899	ppb	98
53) BROMODICHLOROMETHANE	4.943	83	276268	22.8001297	ppb	99
56) 2-CHLOROETHYL VINYL ETHER	5.254	63	834921	126.5555284	ppb	98
57) CIS-1,3-DICHLOROPROPENE	5.321	75	349343	24.1923304	ppb	100
58) 4-METHYL-2-PENTANONE (...)	5.679	43	1625008	129.7199460	ppb	100
60) TOLUENE	5.467	91	847056	24.3837542	ppb	99
61) TRANS-1,3-DICHLOROPROPENE	5.716	75	331316	24.1760539	ppb	99
62) 1,1,2-TRICHLOROETHANE	5.825	97	186496	23.8872086	ppb	99
63) TETRACHLOROETHENE	5.722	164	175126	25.0415575	ppb	100
64) 1,3-DICHLOROPROPANE	6.008	76	342240	24.0700496	ppb	100
65) 2-HEXANONE	6.215	58	599809	122.6593857	ppb	98
66) CHLORODIBROMOMETHANE	5.947	129	219741	25.2471774	ppb	99
67) 1,2-DIBROMOETHANE	6.124	107	212610	24.9107311	ppb	99
68) CHLOROBENZENE	6.464	112	585403	24.5707010	ppb	100
69) 1,1,1,2-TETRACHLOROETHANE	6.495	133	216521	25.5538292	ppb	99
70) ETHYLBENZENE	6.458	106	321428	24.9109572	ppb	94
71) M&P-XYLENE	6.555	106	804971	49.4074052	ppb	99
72) O-XYLENE	6.860	106	402257	25.7329710	ppb	99
74) STYRENE	6.896	104	676044	25.3283213	ppb	100
75) BROMOFORM	6.933	173	192402	25.4195525	ppb	97
76) ISOPROPYLBENZENE	7.073	105	1058478	25.2320748	ppb	100
78) BROMOBENZENE	7.365	77	427142	23.7540888	ppb	99
79) 1,1,2,2-TETRACHLOROETHANE	7.395	83	294120	23.4062748	ppb	99
80) 1,2,3-TRICHLOROPROPANE	7.498	110	103275	25.0860736	ppb	92
81) TRANS-1,4-DICHLORO-2-B...	7.511	53	107415	27.5912644	ppb	99
82) N-PROPYLBENZENE	7.352	91	1166850	24.7284680	ppb	99
83) 4-ETHYLTOLUENE	7.419	105	1031248	25.2290843	ppb	100
84) 2-CHLOROTOLUENE	7.468	91	770235	24.7199006	ppb	99
85) 4-CHLOROTOLUENE	7.571	91	719205	24.4970065	ppb	99
86) 1,3,5-TRIMETHYLBENZENE	7.468	105	895582	25.5431612	ppb	99
87) TERT-BUTYLBENZENE	7.669	119	737317	25.4094474	ppb	100
88) 1,2,4-TRIMETHYLBENZENE	7.705	105	910713	24.8750696	ppb	99
89) SEC-BUTYLBENZENE	7.766	105	1129272	25.0313663	ppb	99
90) 1,3-DICHLOROBENZENE	7.870	146	465584	23.4712470	ppb	100
91) P-ISOPROPYLTOLUENE	7.821	119	940280	25.6974189	ppb	99
92) DICYCLOPENTADIENE	7.827	66	978591	24.0675961	ppb	99
93) 1,4-DICHLOROBENZENE	7.906	146	471833	24.3949281	ppb	98
94) 1,2,3-TRIMETHYLBENZENE	7.900	105	923816	26.6003248	ppb	99
95) 1,2-DICHLOROBENZENE	8.046	146	421981	24.1900469	ppb	99
96) N-BUTYLBENZENE	7.979	91	784363	24.9655883	ppb	99
97) 1,2-DIBROMO-3-CHLOROPR...	8.295	157	77090	24.7907676	ppb	97
98) 1,2,4-TRICHLOROBENZENE	8.508	180	298900	23.2246595	ppb	99
99) HEXACHLORO-1,3-BUTADIENE	8.490	225	167720	23.1535936	ppb	98

Data Path : C:\msdchem\1\data\092217\
Data File : 0922_17.D
Acq On : 22 Sep 2017 11:07 am
Operator : 605
Sample : SSCV VMS 25 ppb 17I21027
Misc : water IS/SURR 17H10686
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS13

Quant Time: Sep 22 12:30:36 2017
Quant Method : C:\msdchem\1\methods\V813I22Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
QLast Update : Fri Sep 22 10:59:34 2017
Response via : Initial Calibration

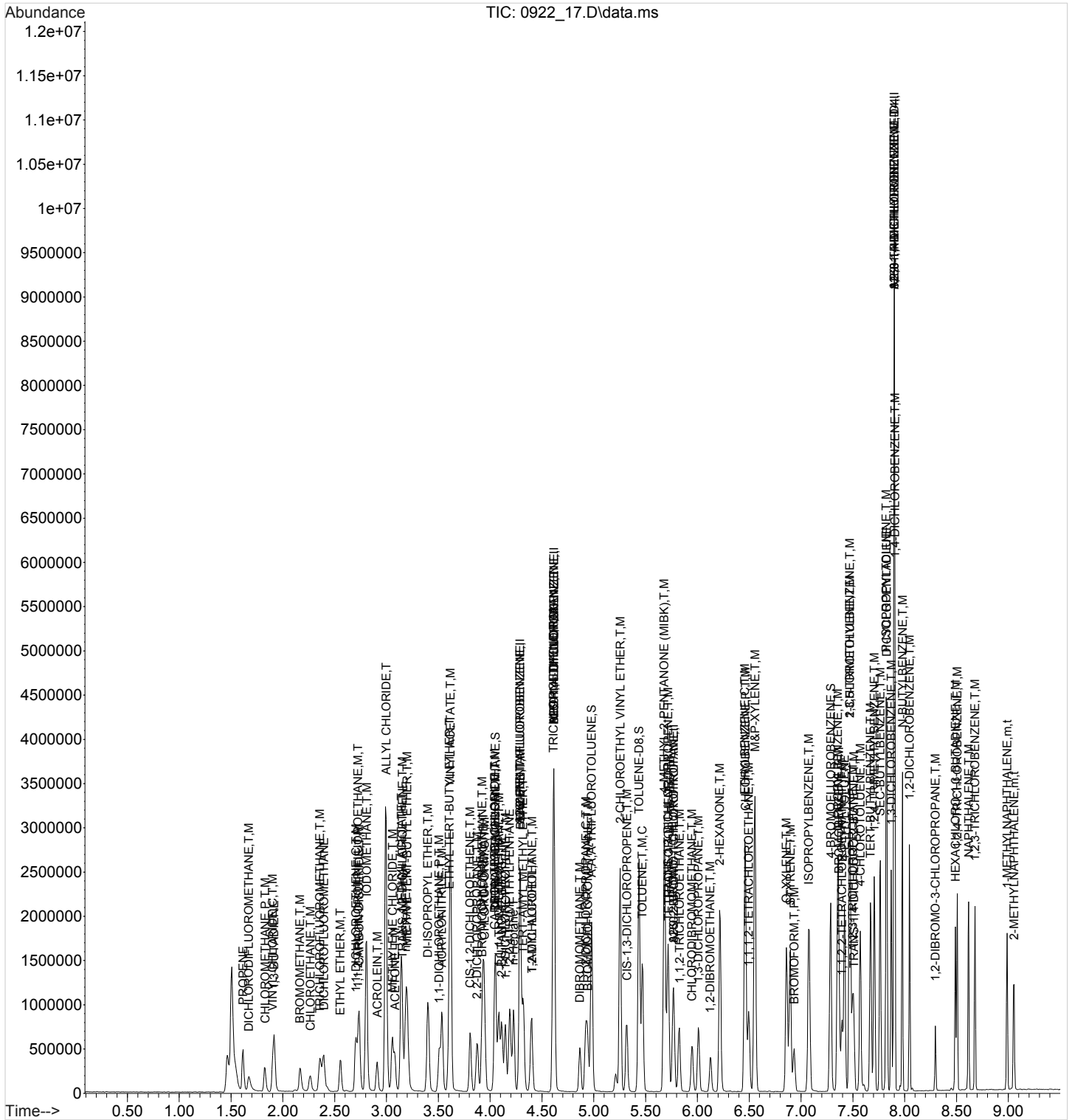
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
100) NAPHTHALENE	8.618	128	760578	23.3060279	ppb		100
101) 1,2,3-TRICHLOROBENZENE	8.679	180	272067	22.6165402	ppb		99
102) 1-METHYLNAPHTHALENE	8.989	142	396888	22.2486217	ppb		99
103) 2-METHYLNAPHTHALENE	9.056	142	319607	21.6652058	ppb		99

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

(QT Reviewed)

Data Path : C:\msdchem\1\data\092217\
Data File : 0922_17.D
Acq On : 22 Sep 2017 11:07 am
Operator : 605
Sample : SSCV VMS 25 ppb 17I21027
Misc : water IS/SURR 17H10686
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS13

Quant Time: Sep 22 12:30:36 2017
Quant Method : C:\msdchem\1\methods\V813I22Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
QLast Update : Fri Sep 22 10:59:34 2017
Response via : Initial Calibration





7A-OR

GC/MS CONTINUING CALIBRATION VERIFICATION

SDG:	L937868	Calibration (begin) date/time:	07/21/17 20:27
Instrument ID:	VOCMS13	Calibration (end) date/time:	09/22/17 10:09
Lab File ID:	0922_18-1	Analysis date/time:	09/22/17 13:13
Analytical Method:	8260C	Sample ID:	ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff. %	Max Diff. %	True Value mg/l	Result mg/l	Result % Rec.	Limits %
1,1,1-TRICHLOROETHANE	0.671922	0.65243330	0.10	2.90	20	0.0250	0.02427488	97.10	
1,1,2,2-TETRACHLOROETHANE	0.842411	0.85929020	0.30	2	20	0.0250	0.02550093	102	
1,1,2-TRICHLOROETHANE	1.599516	1.551828	0.10	2.98	20	0.0250	0.02425464	97	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.379532	0.37688360	0.10	0.6980	20	0.0250	0.02482558	99.30	
1,1-DICHLOROETHANE	0.814961	0.752391	0.20	7.68	20	0.0250	0.02308059	92.30	
1,1-DICHLOROETHENE	0.343439	0.33469960	0.10	2.54	20	0.0250	0.02436384	97.50	
1,2,3-TRICHLOROBENZENE	0.806457	0.76531060		5.10	20	0.0250	0.02372447	94.90	
1,2,4-TRICHLOROBENZENE	0.862796	0.83681530	0.20	3.01	20	0.0250	0.02424719	97	
1,2,4-TRIMETHYLBENZENE	2.454420	2.544016		3.65	20	0.0250	0.0259126	104	
1,2-DIBROMO-3-CHLOROPROPANE	0.208468	0.21266770	0.05	2.01	20	0.0250	0.02550362	102	
1,2-DIBROMOETHANE	1.748565	1.750023	0.10	0.0834	20	0.0250	0.02502085	100	
1,2-DICHLOROBENZENE	1.169467	1.149268	0.40	1.73	20	0.0250	0.02456822	98.30	
1,2-DICHLOROETHANE	0.651887	0.57829950	0.10	11.30	20	0.0250	0.02217789	88.70	
1,2-DICHLOROPROPANE	0.222184	0.208640	0.10	6.10	20	0.0250	0.02347602	93.90	
1,3,5-TRIMETHYLBENZENE	2.350511	2.502576		6.47	20	0.0250	0.02661736	106	
1,3-DICHLOROBENZENE	1.329822	1.296105	0.60	2.54	20	0.0250	0.02436614	97.50	
1,4-DICHLOROBENZENE	1.296643	1.315932	0.50	1.49	20	0.0250	0.02537191	101	
2-BUTANONE (MEK)	0.327649	0.32467090	0.10	0.9090	20	0.1250	0.1238637	99.10	
2-HEXANONE	1.001836	0.98632210	0.10	1.55	20	0.1250	0.1230643	98.50	
4-METHYL-2-PENTANONE (MIBK)	2.566453	2.557709	0.10	0.3410	20	0.1250	0.1245741	99.70	
ACETONE	0.167336	0.16093090	0.10	3.83	20	0.1250	0.1202156	96.20	
BENZENE	1.809952	1.680186	0.50	7.17	20	0.0250	0.0232076	92.80	
BROMOCHLOROMETHANE	0.296995	0.283802		4.44	20	0.0250	0.02388948	95.60	
BROMODICHLOROMETHANE	0.422558	0.39464380	0.20	6.61	20	0.0250	0.0233485	93.40	
BROMOFORM	0.507427	0.53948370	0.10	6.32	20	0.0250	0.0265794	106	
BROMOMETHANE	0.302991	0.28030170	0.10	7.49	20	0.0250	0.02312788	92.50	
CARBON DISULFIDE	1.271609	1.200163	0.10	5.62	20	0.0250	0.02359535	94.40	
CARBON TETRACHLORIDE	0.622616	0.61440960	0.10	1.32	20	0.0250	0.0246705	98.70	
CHLOROBENZENE	4.881147	4.939850	0.50	1.20	20	0.0250	0.02530066	101	
CHLORODIBROMOMETHANE	1.783129	1.8282	0.10	2.53	20	0.0250	0.0256319	103	
CHLOROETHANE	0.322725	0.29433090	0.10	8.80	20	0.0250	0.02280047	91.20	
CHLOROFORM	0.788907	0.73864260	0.20	6.37	20	0.0250	0.02340715	93.60	
CHLOROMETHANE	0.588270	0.54081120	0.10	8.07	20	0.0250	0.02298314	91.90	
CIS-1,2-DICHLOROETHENE	0.476585	0.436254	0.10	8.46	20	0.0250	0.02288439	91.50	
CIS-1,3-DICHLOROPROPENE	2.958413	2.894839	0.20	2.15	20	0.0250	0.02446277	97.90	
CYCLOHEXANE	0.693926	0.70004920	0.10	0.8820	20	0.0250	0.02522061	101	
DICHLORODIFLUOROMETHANE	0.465050	0.43309870	0.10	6.87	20	0.0250	0.02328235	93.10	
ETHYLBENZENE	2.643491	2.744482	0.10	3.82	20	0.0250	0.02595509	104	
ISOPROPYLBENZENE	2.812292	2.967462	0.10	5.52	20	0.0250	0.02637938	106	
M&P-XYLENE	3.337895	3.426943	0.10	2.67	20	0.05	0.0513339	103	
METHYL ACETATE	0.501495	0.450826	0.10	10.10	20	0.1250	0.1123704	89.90	
METHYL CYCLOHEXANE	0.723826	0.56401930	0.10	22.10	20	0.0250	0.02498141	99.90	80 - 120
METHYL TERT-BUTYL ETHER	1.499421	1.393425	0.10	7.07	20	0.0250	0.02323271	92.90	
METHYLENE CHLORIDE	0.447034	0.42325780	0.10	5.32	20	0.0250	0.02367032	94.70	
N-BUTYLBENZENE	2.106235	2.213485		5.09	20	0.0250	0.02627301	105	
N-PROPYLBENZENE	3.163366	3.335053		5.43	20	0.0250	0.02635684	105	
NAPHTHALENE	2.187797	2.1997		0.5440	20	0.0250	0.02513601	101	
O-XYLENE	3.202567	3.382377	0.30	5.61	20	0.0250	0.02640364	106	



GC/MS CONTINUING CALIBRATION VERIFICATION

SDG: L937868
Instrument ID: VOCMS13
Lab File ID: 0922_18-1
Analytical Method: 8260C

Calibration (begin) date/time: 07/21/17 20:27
Calibration (end) date/time: 09/22/17 10:09
Analysis date/time: 09/22/17 13:13
Sample ID: ICV

Analyte	Avg. RRF	RRF	Min. RRF	Diff. %	Max Diff. %	True Value mg/l	Result mg/l	Result % Rec.	Limits %
P-ISOPROPYLTOLUENE	2.453010	2.636625		7.49	20	0.0250	0.02687132	107	
SEC-BUTYLBENZENE	3.024444	3.166726		4.70	20	0.0250	0.02617609	105	
STYRENE	1.789370	1.831707	0.30	2.37	20	0.0250	0.02559152	102	
TERT-BUTYLBENZENE	1.945318	2.045477		5.15	20	0.0250	0.02628718	105	
TETRACHLOROETHENE	1.432761	1.502432	0.20	4.86	20	0.0250	0.02621568	105	
TOLUENE	7.116985	7.199926	0.40	1.17	20	0.0250	0.02529135	101	
TRANS-1,2-DICHLOROETHENE	0.417142	0.39583720	0.10	5.11	20	0.0250	0.02372314	94.90	
TRANS-1,3-DICHLOROPROPENE	2.807641	2.783354	0.10	0.8650	20	0.0250	0.02478375	99.10	
TRICHLOROETHENE	0.290882	0.29592770	0.20	1.73	20	0.0250	0.02543367	102	
TRICHLOROFLUOROMETHANE	0.613537	0.61744250	0.10	0.6370	20	0.0250	0.02515914	101	
VINYL CHLORIDE	0.549494	0.519272	0.10	5.50	20	0.0250	0.02362501	94.50	
4-BROMOFLUOROBENZENE	0.830785	0.76133160		8.36	20	0.04	0.041238	103	80 - 120
A,A,A-TRIFLUOROTOLUENE	0.529120	0.49816070		5.85	20	0.04	0.042367	106	90 - 116
DIBROMOFLUOROMETHANE	0.470311	0.39926330		15.10	20	0.04	0.03820207	95.50	79 - 121
TOLUENE-D8	6.597955	6.136111		7	20	0.04	0.04185009	105	90 - 115

Data Path : \\VOCCOMPY\msdchem\1\data\092217\
 Data File : 0922_18.D
 Acq On : 22 Sep 2017 1:13 pm
 Operator : 605
 Sample : ICV VMS 25 ppb
 Misc : water
 ALS Vial : 18 Sample Multiplier: 1
 InstName : VOCMS13

Quant Time: Sep 24 10:58:39 2017

Quant Method : C:\msdchem\1\methods\V813I22Q.M

Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13

QLast Update : Fri Sep 22 10:59:34 2017

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.286	168	797649	40.00000000	ppb	0.00	
48) 8260-1,4-DIFLUOROBENZENE	4.615	114	1160905	40.00000000	ppb	0.00	
55) 8260-2-BROMO-1-CHLOROP...	5.765	79	196130	40.00000000	ppb	0.00	
73) 8260-1,4-DICHLOROBENZE...	7.900	152	595295	40.00000000	ppb	0.00	
104) AP9-PENTAFLUOROBENZENE	4.286	168	798534	40.00000000	ppb	0.00	
116) AP9-1,4-DIFLUOROBENZENE	4.615	114	1160905	40.00000000	ppb	0.00	
121) AP9-2-BROMO-1-CHLOROPR...	5.765	79	196130	40.00000000	ppb	0.00	
125) AP9-1,4-DICHLOROBENZEN...	7.900	152	595295	40.00000000	ppb	0.00	
System Monitoring Compounds							
38) DIBROMOFLUOROMETHANE	4.049	111	358281	38.2020722	ppb	0.00	
Spiked Amount	40.000	Range 79 - 121	Recovery	=	95.51%		
54) A,A,A-TRIFLUOROTOLUENE	4.980	146	650607	42.36700000	ppb	0.00	
Spiked Amount	40.000	Range 90 - 116	Recovery	=	105.92%		
59) TOLUENE-D8	5.436	98	1353910	41.8500903	ppb	0.00	
Spiked Amount	40.000	Range 90 - 115	Recovery	=	104.63%		
77) 4-BROMOFLUOROBENZENE	7.285	95	509869	41.2380019	ppb	0.00	
Spiked Amount	40.000	Range 80 - 120	Recovery	=	103.10%		
Target Compounds						Qvalue	
4) PROPENE	1.616	41	196637	22.0326348	ppb	100	
5) DICHLORODIFLUOROMETHANE	1.676	85	215913	23.2823545	ppb	95	
6) CHLOROMETHANE	1.828	50	269611	22.9831413	ppb	99	
7) VINYL CHLORIDE	1.908	62	258873	23.6250070	ppb	99	
8) 1,3-BUTADIENE	1.920	39	212252	22.6379361	ppb	97	
9) BROMOMETHANE	2.169	94	139739	23.1278807	ppb	97	
10) CHLOROETHANE	2.267	64	146733	22.8004722	ppb	100	
11) TRICHLOROFLUOROMETHANE	2.364	101	307814	25.1591434	ppb	99	
12) DICHLOROFLUOROMETHANE	2.394	67	367609	24.6853771	ug/l	99	
13) ETHYL ETHER	2.559	59	164092	22.5258681	ppb	99	
14) ACROLEIN	2.911	56	14010	147.6912646	ppb	95	
15) 1,1-DICHLOROETHENE	2.705	96	166858	24.3638417	ppb	96	
16) 1,1,2-TRICHLOROTRIFLUO...	2.729	101	187888	24.8255774	ppb	98	
17) ACETONE	3.082	43	401145	120.2156015	ppb	100	
18) IODOMETHANE	2.808	142	1616661	120.2836851	ppb	98	
19) CARBON DISULFIDE	2.741	76	598318	23.5953541	ppb	99	
20) ALLYL CHLORIDE	2.997	76	615723	119.0699723	ppb	100	
21) METHYLENE CHLORIDE	3.057	84	211007	23.6703199	ppb	99	
22) METHYL ACETATE	3.143	43	1123753	112.3704228	ppb	# 99	
23) ACRYLONITRILE	3.532	53	539900	115.2788885	ppb	99	
24) n-HEXANE	3.185	56	179496	22.7909779	ppb	96	
25) TRANS-1,2-DICHLOROETHENE	3.155	96	197337	23.7231445	ppb	98	
26) METHYL TERT-BUTYL ETHER	3.203	73	694665	23.2327146	ppb	99	
27) 1,1-DICHLOROETHANE	3.508	63	375090	23.0805930	ppb	98	
28) VINYL ACETATE	3.617	43	2762050	111.7585616	ppb	100	
29) DI-ISOPROPYL ETHER	3.398	45	724984	22.7755321	ppb	98	
30) ETHYL TERT-BUTYL ETHER	3.605	59	657433	22.5105475	ppb	99	
31) 2,2-DICHLOROPROPANE	3.873	77	296728	23.1409595	ppb	99	
32) CIS-1,2-DICHLOROETHENE	3.806	96	217486	22.8843905	ppb	97	
33) 2-BUTANONE (MEK)	4.110	43	809292	123.8636862	ppb	93	
34) BROMOCHLOROMETHANE	3.921	130	141484	23.8894770	ppb	97	
35) TETRAHYDROFURAN	4.049	42	82080	19.4395414	ppb	93	
36) CHLOROFORM	3.946	83	368236	23.4071542	ppb	100	
37) CYCLOHEXANE	3.933	84	348996	25.2206072	ppb	98	

Data Path : \\VOCCOMPY\msdchem\1\data\092217\
 Data File : 0922_18.D
 Acq On : 22 Sep 2017 1:13 pm
 Operator : 605
 Sample : ICV VMS 25 ppb
 Misc : water
 ALS Vial : 18 Sample Multiplier: 1
 InstName : VOCMS13

Quant Time: Sep 24 10:58:39 2017

Quant Method : C:\msdchem\1\methods\V813I22Q.M

Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13

QLast Update : Fri Sep 22 10:59:34 2017

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 1,1,1-TRICHLOROETHANE	4.085	97	325258	24.2748825	ppb	99
40) CARBON TETRACHLORIDE	4.043	117	306302	24.6705021	ppb	97
41) 1,1-DICHLOROPROPENE	4.146	75	277309	24.1275820	ppb	99
42) 2,2,4-TRIMETHYLPENTANE	4.189	57	751958	24.2451501	ppb	99
43) n-Heptane	4.225	71	194392	23.3516723	ppb	# 96
44) BENZENE	4.286	78	837624	23.2075966	ppb	99
45) TERT-AMYL METHYL ETHER	4.317	73	707797	23.2244125	ppb	100
46) 1,2-DICHLOROETHANE	4.402	62	288300	22.1778955	ppb	99
47) T-AMYL ALCOHOL	4.396	59	232074	120.3312315	ppb	95
49) TRICHLOROETHENE	4.609	130	214715	25.4336714	ppb	# 99
50) METHYL CYCLOHEXANE	4.615	83	409233	24.9814133	ppb	100
51) 1,2-DICHLOROPROPANE	4.925	62	151382	23.4760200	ppb	98
52) DIBROMOMETHANE	4.864	93	138088	23.8245333	ppb	96
53) BROMODICHLOROMETHANE	4.937	83	286340	23.3484953	ppb	98
56) 2-CHLOROETHYL VINYL ETHER	5.254	63	795907	120.0962661	ppb	99
57) CIS-1,3-DICHLOROPROPENE	5.314	75	354853	24.4627674	ppb	99
58) 4-METHYL-2-PENTANONE (...)	5.679	43	1567636	124.5741486	ppb	99
60) TOLUENE	5.466	91	882576	25.2913497	ppb	99
61) TRANS-1,3-DICHLOROPROPENE	5.716	75	341187	24.7837446	ppb	99
62) 1,1,2-TRICHLOROETHANE	5.819	97	190225	24.2546447	ppb	98
63) TETRACHLOROETHENE	5.722	164	184170	26.2156748	ppb	98
64) 1,3-DICHLOROPROPANE	6.008	76	349693	24.4829982	ppb	99
65) 2-HEXANONE	6.215	58	604523	123.0642984	ppb	99
66) CHLORODIBROMOMETHANE	5.947	129	224103	25.6319029	ppb	98
67) 1,2-DIBROMOETHANE	6.123	107	214520	25.0208477	ppb	98
68) CHLOROBENZENE	6.464	112	605533	25.3006608	ppb	99
69) 1,1,1,2-TETRACHLOROETHANE	6.495	133	223316	26.2365814	ppb	# 99
70) ETHYLBENZENE	6.458	106	336422	25.9550901	ppb	99
71) M&P-XYLENE	6.555	106	840158	51.3338955	ppb	100
72) O-XYLENE	6.860	106	414616	26.4036412	ppb	100
74) STYRENE	6.896	104	681504	25.5915151	ppb	98
75) BROMOFORM	6.933	173	200720	26.5793963	ppb	98
76) ISOPROPYLBENZENE	7.073	105	1104072	26.3793851	ppb	99
78) BROMOBENZENE	7.365	77	441814	24.6264447	ppb	98
79) 1,1,2,2-TETRACHLOROETHANE	7.395	83	319707	25.5009308	ppb	99
80) 1,2,3-TRICHLOROPROPANE	7.498	110	106461	25.9193540	ppb	99
81) TRANS-1,4-DICHLORO-2-B...	7.511	53	97532	25.1101869	ppb	99
82) N-PROPYLBENZENE	7.352	91	1240838	26.3568443	ppb	100
83) 4-ETHYLTOLUENE	7.419	105	1086549	26.6430433	ppb	99
84) 2-CHLOROTOLUENE	7.468	91	802493	25.8143307	ppb	100
85) 4-CHLOROTOLUENE	7.571	91	732166	24.9957413	ppb	99
86) 1,3,5-TRIMETHYLBENZENE	7.468	105	931107	26.6173629	ppb	100
87) TERT-BUTYLBENZENE	7.669	119	761039	26.2871819	ppb	99
88) 1,2,4-TRIMETHYLBENZENE	7.705	105	946525	25.9126007	ppb	98
89) SEC-BUTYLBENZENE	7.766	105	1178210	26.1760942	ppb	100
90) 1,3-DICHLOROBENZENE	7.869	146	482228	24.3661372	ppb	98
91) P-ISOPROPYLTOLUENE	7.821	119	980981	26.8713228	ppb	99
92) DICYCLOPENTADIENE	7.827	66	1042609	25.7009462	ppb	99
93) 1,4-DICHLOROBENZENE	7.906	146	489605	25.3719134	ppb	98
94) 1,2,3-TRIMETHYLBENZENE	7.900	105	893411	25.7839174	ppb	99
95) 1,2-DICHLOROBENZENE	8.046	146	427596	24.5682143	ppb	98
96) N-BUTYLBENZENE	7.979	91	823548	26.2730061	ppb	98
97) 1,2-DIBROMO-3-CHLOROPR...	8.301	157	79125	25.5036181	ppb	98
98) 1,2,4-TRICHLOROBENZENE	8.508	180	311345	24.2471936	ppb	100
99) HEXACHLORO-1,3-BUTADIENE	8.490	225	179432	24.8273059	ppb	99

Data Path : \\VOCCOMPY\msdchem\1\data\092217\
Data File : 0922_18.D
Acq On : 22 Sep 2017 1:13 pm
Operator : 605
Sample : ICV VMS 25 ppb
Misc : water
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS13

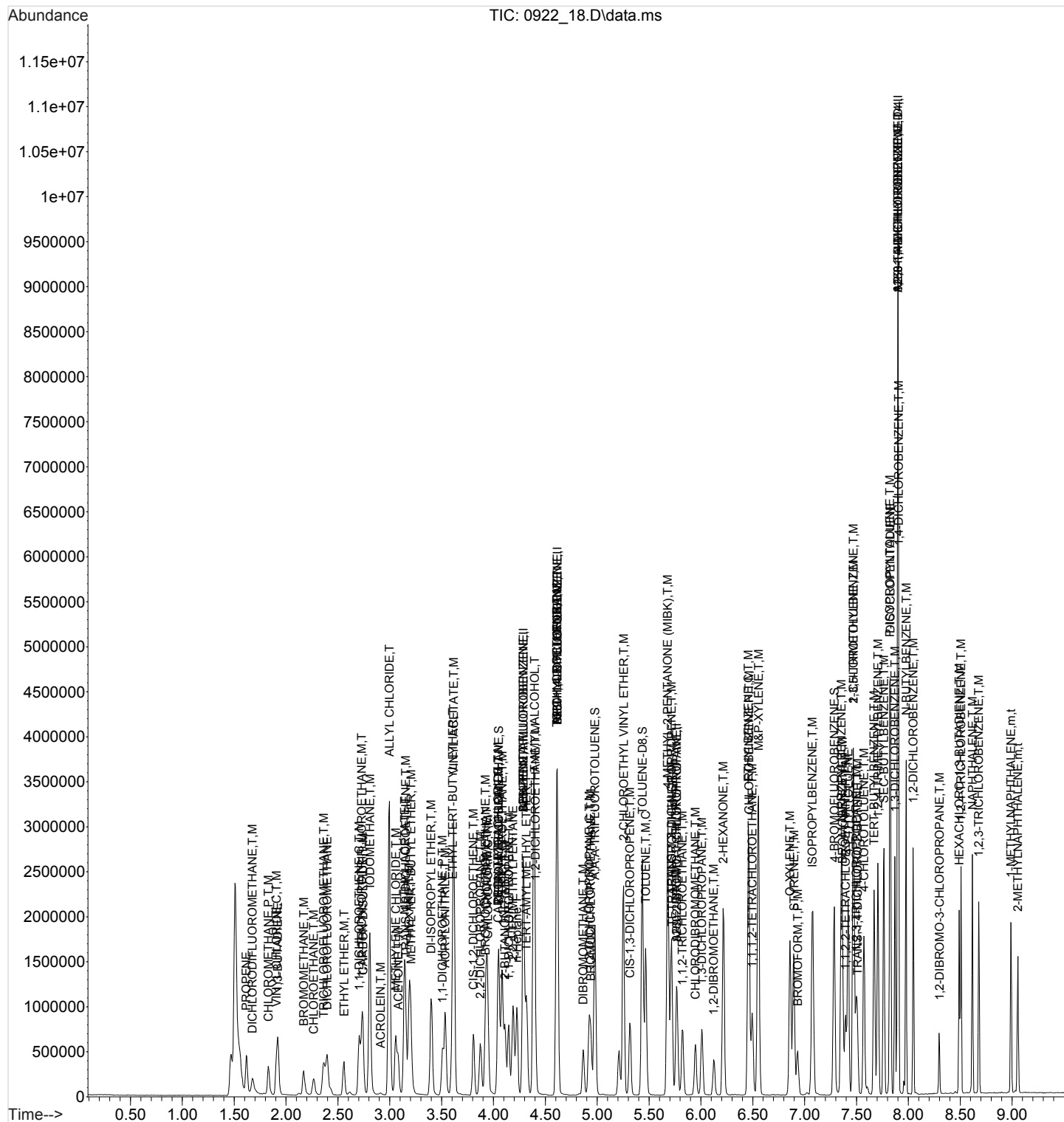
Quant Time: Sep 24 10:58:39 2017
Quant Method : C:\msdchem\1\methods\V813I22Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
QLast Update : Fri Sep 22 10:59:34 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) NAPHTHALENE	8.618	128	818419	25.1360106	ppb	100
101) 1,2,3-TRICHLOROBENZENE	8.679	180	284741	23.7244663	ppb	99
102) 1-METHYLNAPHTHALENE	8.989	142	428551	24.0787424	ppb	98
103) 2-METHYLNAPHTHALENE	9.056	142	352890	23.9762927	ppb	99

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

Data Path : \\VOCCOMPY\msdchem\1\data\092217\
Data File : 0922_18.D
Acq On : 22 Sep 2017 1:13 pm
Operator : 605
Sample : ICV VMS 25 ppb
Misc : water
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS13

Quant Time: Sep 24 10:58:39 2017
Quant Method : C:\msdchem\1\methods\V813I22Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
QLast Update : Fri Sep 22 10:59:34 2017
Response via : Initial Calibration



SAMPLE RESULT SUMMARY

ORGANIC ANALYSIS DATA SHEET



ESC Sample ID: R3251791-2
Client Sample ID: BLANK
Lab File ID: 0922_21
Instrument ID: VOCMS13
Analytical Batch: WG1023529
Dilution Factor: 1
Analytical Method: 8260C
Matrix: GW
Total Solids (%): _____

SDG: L937868
Collected Date/Time: _____
Received Date/Time: _____
Preparation Date/Time: 09/22/17 14:11
Analysis Date/Time: 09/22/17 14:11
Prep Method: 8260B/8260C
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>ug/l</i>	Qualifier	MDL <i>ug/l</i>	RDL <i>ug/l</i>
Acetone	67-64-1	3.08	U		10.0	50.0
Benzene	71-43-2	0	U		0.331	1.00
Bromodichloromethane	75-27-4	0	U		0.380	1.00
Bromochloromethane	74-97-5	0	U		0.520	1.00
Bromoform	75-25-2	0	U		0.469	1.00
Bromomethane	74-83-9	0	U		0.866	5.00
n-Butylbenzene	104-51-8	0	U		0.361	1.00
sec-Butylbenzene	135-98-8	0	U		0.365	1.00
tert-Butylbenzene	98-06-6	0	U		0.399	1.00
Carbon disulfide	75-15-0	0	U		0.275	1.00
Carbon tetrachloride	56-23-5	0	U		0.379	1.00
Chlorobenzene	108-90-7	0	U		0.348	1.00
Chlorodibromomethane	124-48-1	0	U		0.327	1.00
Chloroethane	75-00-3	0	U		0.453	5.00
Chloroform	67-66-3	0	U		0.324	5.00
Chloromethane	74-87-3	0	U		0.276	2.50
1,2-Dibromo-3-Chloropropane	96-12-8	0	U		1.33	5.00
Cyclohexane	110-82-7	0	U		0.390	1.00
1,2-Dibromoethane	106-93-4	0	U		0.381	1.00
1,2-Dichlorobenzene	95-50-1	0	U		0.349	1.00
1,3-Dichlorobenzene	541-73-1	0	U		0.220	1.00
1,4-Dichlorobenzene	106-46-7	0	U		0.274	1.00
Dichlorodifluoromethane	75-71-8	0	U		0.551	5.00
1,1-Dichloroethane	75-34-3	0	U		0.259	1.00
1,2-Dichloroethane	107-06-2	0	U		0.361	1.00
1,1-Dichloroethene	75-35-4	0	U		0.398	1.00
cis-1,2-Dichloroethene	156-59-2	0	U		0.260	1.00
trans-1,2-Dichloroethene	156-60-5	0	U		0.396	1.00
1,2-Dichloropropane	78-87-5	0	U		0.306	1.00
cis-1,3-Dichloropropene	10061-01-5	0	U		0.418	1.00
trans-1,3-Dichloropropene	10061-02-6	0	U		0.419	1.00
Ethylbenzene	100-41-4	0	U		0.384	1.00
2-Hexanone	591-78-6	0	U		3.82	10.0
Isopropylbenzene	98-82-8	0	U		0.326	1.00
p-Isopropyltoluene	99-87-6	0	U		0.350	1.00
2-Butanone (MEK)	78-93-3	0	U		3.93	10.0
Methylene Chloride	75-09-2	0	U		1.00	5.00
4-Methyl-2-pentanone (MIBK)	108-10-1	0	U		2.14	10.0
Methyl tert-butyl ether	1634-04-4	0	U		0.367	1.00
Naphthalene	91-20-3	8.62	U		1.00	5.00
n-Propylbenzene	103-65-1	0	U		0.349	1.00
Styrene	100-42-5	0	U		0.307	1.00
1,1,2,2-Tetrachloroethane	79-34-5	0	U		0.130	1.00

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

ESC Sample ID:	R3251791-2	SDG:	L937868
Client Sample ID:	BLANK	Collected Date/Time:	
Lab File ID:	0922_21	Received Date/Time:	
Instrument ID:	VOCMS13	Preparation Date/Time:	09/22/17 14:11
Analytical Batch:	WG1023529	Analysis Date/Time:	09/22/17 14:11
Dilution Factor:	1	Prep Method:	8260B/8260C
Analytical Method:	8260C	Sample Vol Used:	5 mL
Matrix:	GW	Initial Wt/Vol:	
Total Solids (%):		Final Wt/Vol:	5 mL

Analyte	CAS	RT	Result <i>ug/l</i>	Qualifier	MDL <i>ug/l</i>	RDL <i>ug/l</i>
1,1,2-Trichlorotrifluoroethane	76-13-1	0	U		0.303	1.00
Methyl Acetate	79-20-9	0	U		4.30	20.0
Methyl Cyclohexane	108-87-2	0	U		0.380	1.00
Tetrachloroethene	127-18-4	0	U		0.372	1.00
Toluene	108-88-3	0	U		0.412	1.00
1,2,3-Trichlorobenzene	87-61-6	8.51	U		0.230	1.00
1,2,4-Trichlorobenzene	120-82-1	8.51	U		0.355	1.00
1,1,1-Trichloroethane	71-55-6	0	U		0.319	1.00
1,1,2-Trichloroethane	79-00-5	0	U		0.383	1.00
Trichloroethene	79-01-6	0	U		0.398	1.00
Trichlorofluoromethane	75-69-4	0	U		1.20	5.00
1,2,4-Trimethylbenzene	95-63-6	0	U		0.373	1.00
1,3,5-Trimethylbenzene	108-67-8	0	U		0.387	1.00
Vinyl chloride	75-01-4	0	U		0.259	1.00
o-Xylene	95-47-6	0	U		0.341	1.00
m&p-Xylenes	1330-20-7	0	U		0.719	2.00

Data Path : \\VOCCOMPY\msdchem\1\data\092217\
 Data File : 0922_21.D
 Acq On : 22 Sep 2017 2:11 pm
 Operator : 605
 Sample : BLANK 1x WG1023529
 Misc : water
 ALS Vial : 21 Sample Multiplier: 1
 InstName : VOCMS13

Quant Time: Sep 24 11:03:30 2017

Quant Method : C:\msdchem\1\methods\V813I22Q.M

Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13

QLast Update : Fri Sep 22 10:59:34 2017

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

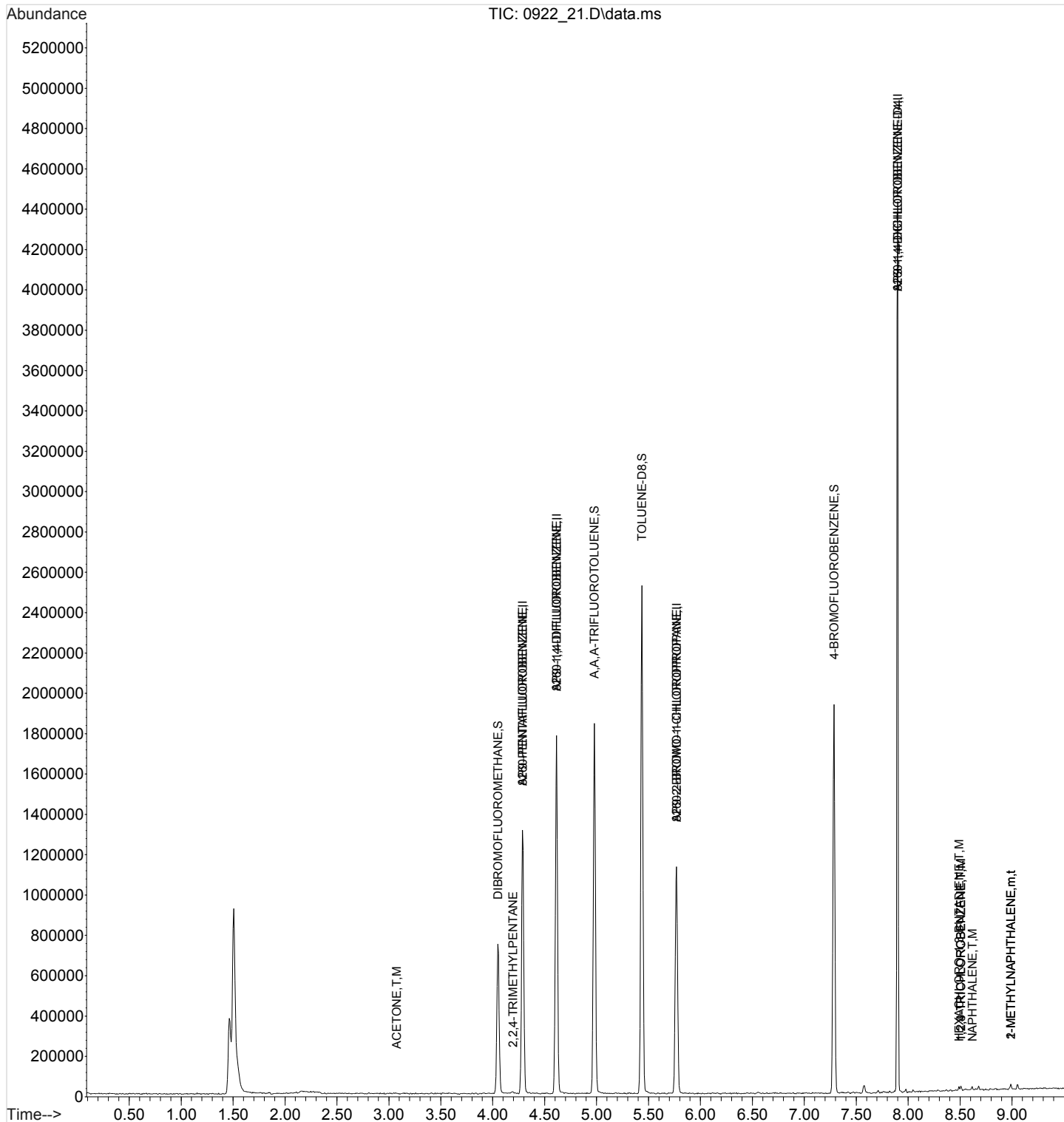
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.286	168	708100	40.00000000	ppb	0.00
48) 8260-1,4-DIFLUOROBENZENE	4.615	114	1078098	40.00000000	ppb	0.00
55) 8260-2-BROMO-1-CHLOROP...	5.770	79	185192	40.00000000	ppb	0.00
73) 8260-1,4-DICHLOROBENZE...	7.900	152	569695	40.00000000	ppb	0.00
104) AP9-PENTAFLUOROBENZENE	4.286	168	709859	40.00000000	ppb	0.00
116) AP9-1,4-DIFLUOROBENZENE	4.615	114	1078098	40.00000000	ppb	0.00
121) AP9-2-BROMO-1-CHLOROPR...	5.770	79	185192	40.00000000	ppb	0.00
125) AP9-1,4-DICHLOROBENZEN...	7.900	152	569695	40.00000000	ppb	0.00
System Monitoring Compounds						
38) DIBROMOFLUOROMETHANE	4.049	111	330005	39.6370108	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 99.09%			
54) A,A,A-TRIFLUOROTOLUENE	4.980	146	585438	41.0514339	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 102.63%			
59) TOLUENE-D8	5.436	98	1267477	41.4923943	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 103.73%			
77) 4-BROMOFLUOROBENZENE	7.285	95	477490	40.3546063	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 100.89%			
Target Compounds						
14) ACROLEIN	2.948	56	289	Below Cal	# 79	
17) ACETONE	3.075	43	1371	0.4628222	ppb #	78
42) 2,2,4-TRIMETHYLPENTANE	4.195	57	6736	0.2446530	ppb	94
98) 1,2,4-TRICHLOROBENZENE	8.508	180	2556	0.2080033	ppb	88
99) HEXACHLORO-1,3-BUTADIENE	8.490	225	1373	0.1985135	ppb #	64
100) NAPHTHALENE	8.618	128	5424	0.1740725	ppb #	89
101) 1,2,3-TRICHLOROBENZENE	8.508	180	2556	0.2225344	ppb	88
102) 1-METHYLNAPHTHALENE	8.989	142	5559	0.3263757	ppb	92
103) 2-METHYLNAPHTHALENE	8.989	142	5496	0.3901928	ppb	95

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

(QT Reviewed)

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Data Path : \\VOCCOMPY\msdchem\1\data\092217\  
Data File : 0922_21.D  
Acq On    : 22 Sep 2017    2:11 pm  
Operator  : 605  
Sample    : BLANK 1x WG1023529  
Misc      : water  
ALS Vial  : 21      Sample Multiplier: 1  
InstName  : VOCMS13
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Quant Time: Sep 24 11:03:30 2017
Quant Method : C:\msdchem\1\methods\V813I22Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
QLast Update : Fri Sep 22 10:59:34 2017
Response via : Initial Calibration



SAMPLE RESULT SUMMARY

ORGANIC ANALYSIS DATA SHEET



ESC Sample ID: R3251791-1
Client Sample ID: LCS
Lab File ID: 0922_19
Instrument ID: VOCMS13
Analytical Batch: WG1023529
Dilution Factor: 1
Analytical Method: 8260C
Matrix: GW
Total Solids (%): _____

SDG: L937868
Collected Date/Time: _____
Received Date/Time: _____
Preparation Date/Time: 09/22/17 13:32
Analysis Date/Time: 09/22/17 13:32
Prep Method: 8260B/8260C
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>ug/l</i>	Qualifier	MDL <i>ug/l</i>	RDL <i>ug/l</i>
Acetone	67-64-1	3.08	111		10.0	50.0
Benzene	71-43-2	4.29	23.8		0.331	1.00
Bromodichloromethane	75-27-4	4.94	23.2		0.380	1.00
Bromochloromethane	74-97-5	3.92	23.4		0.520	1.00
Bromoform	75-25-2	6.93	25.8		0.469	1.00
Bromomethane	74-83-9	2.17	23.0		0.866	5.00
n-Butylbenzene	104-51-8	7.98	26.0		0.361	1.00
sec-Butylbenzene	135-98-8	7.77	25.6		0.365	1.00
tert-Butylbenzene	98-06-6	7.67	25.7		0.399	1.00
Carbon disulfide	75-15-0	2.74	24.4		0.275	1.00
Carbon tetrachloride	56-23-5	4.05	25.0		0.379	1.00
Chlorobenzene	108-90-7	6.46	24.7		0.348	1.00
Chlorodibromomethane	124-48-1	5.95	25.4		0.327	1.00
Chloroethane	75-00-3	2.27	22.8		0.453	5.00
Chloroform	67-66-3	3.95	23.7		0.324	5.00
Chloromethane	74-87-3	1.83	22.6		0.276	2.50
1,2-Dibromo-3-Chloropropane	96-12-8	8.30	25.3		1.33	5.00
1,2-Dibromoethane	106-93-4	6.13	24.4		0.381	1.00
1,2-Dichlorobenzene	95-50-1	8.05	24.3		0.349	1.00
1,3-Dichlorobenzene	541-73-1	7.87	23.9		0.220	1.00
1,4-Dichlorobenzene	106-46-7	7.91	24.6		0.274	1.00
Dichlorodifluoromethane	75-71-8	1.68	22.5		0.551	5.00
1,1-Dichloroethane	75-34-3	3.51	23.4		0.259	1.00
1,2-Dichloroethane	107-06-2	4.40	22.1		0.361	1.00
1,1-Dichloroethene	75-35-4	2.70	24.8		0.398	1.00
cis-1,2-Dichloroethene	156-59-2	3.81	23.2		0.260	1.00
trans-1,2-Dichloroethene	156-60-5	3.15	24.3		0.396	1.00
1,2-Dichloropropane	78-87-5	4.92	24.1		0.306	1.00
cis-1,3-Dichloropropene	10061-01-5	5.32	24.3		0.418	1.00
trans-1,3-Dichloropropene	10061-02-6	5.72	24.5		0.419	1.00
Ethylbenzene	100-41-4	6.46	25.4		0.384	1.00
2-Hexanone	591-78-6	6.22	118		3.82	10.0
Isopropylbenzene	98-82-8	7.08	25.9		0.326	1.00
p-Isopropyltoluene	99-87-6	7.82	26.7		0.350	1.00
2-Butanone (MEK)	78-93-3	4.11	99.3		3.93	10.0
Methylene Chloride	75-09-2	3.06	23.8		1.00	5.00
4-Methyl-2-pentanone (MIBK)	108-10-1	5.68	120		2.14	10.0
Methyl tert-butyl ether	1634-04-4	3.20	23.3		0.367	1.00
Naphthalene	91-20-3	8.62	24.6		1.00	5.00
n-Propylbenzene	103-65-1	7.35	25.6		0.349	1.00
Styrene	100-42-5	6.90	25.3		0.307	1.00
Cyclohexane	110-82-7	3.93	25.3		0.390	1.00
1,1,2,2-Tetrachloroethane	79-34-5	7.39	25.0		0.130	1.00

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

ESC Sample ID: R3251791-1
Client Sample ID: LCS
Lab File ID: 0922_19
Instrument ID: VOCMS13
Analytical Batch: WG1023529
Dilution Factor: 1
Analytical Method: 8260C
Matrix: GW
Total Solids (%): _____

SDG: L937868
Collected Date/Time: _____
Received Date/Time: _____
Preparation Date/Time: 09/22/17 13:32
Analysis Date/Time: 09/22/17 13:32
Prep Method: 8260B/8260C
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>ug/l</i>	Qualifier	MDL <i>ug/l</i>	RDL <i>ug/l</i>
1,1,2-Trichlorotrifluoroethane	76-13-1	2.73	24.9		0.303	1.00
Tetrachloroethene	127-18-4	5.72	26.0		0.372	1.00
Toluene	108-88-3	5.47	24.8		0.412	1.00
1,2,3-Trichlorobenzene	87-61-6	8.68	23.4		0.230	1.00
1,2,4-Trichlorobenzene	120-82-1	8.51	24.1		0.355	1.00
1,1,1-Trichloroethane	71-55-6	4.09	24.6		0.319	1.00
1,1,2-Trichloroethane	79-00-5	5.83	23.5		0.383	1.00
Trichloroethene	79-01-6	4.61	26.1		0.398	1.00
Trichlorofluoromethane	75-69-4	2.36	25.3		1.20	5.00
1,2,4-Trimethylbenzene	95-63-6	7.71	25.3		0.373	1.00
1,3,5-Trimethylbenzene	108-67-8	7.47	26.5		0.387	1.00
Vinyl chloride	75-01-4	1.90	23.5		0.259	1.00
Methyl Acetate	79-20-9	3.14	111		4.30	20.0
Methyl Cyclohexane	108-87-2	4.61	24.5		0.380	1.00
o-Xylene	95-47-6	6.86	26.1		0.341	1.00
m&p-Xylenes	1330-20-7	6.56	50.3		0.719	2.00

Data Path : \\VOCCOMPY\msdchem\1\data\092217\
 Data File : 0922_19.D
 Acq On : 22 Sep 2017 1:32 pm
 Operator : 605
 Sample : LCS 1x WG1023529
 Misc : water
 ALS Vial : 19 Sample Multiplier: 1
 InstName : VOCMS13

Quant Time: Sep 24 10:58:44 2017

Quant Method : C:\msdchem\1\methods\V813I22Q.M

Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13

QLast Update : Fri Sep 22 10:59:34 2017

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.292	168	802009	40.00000000	ppb	0.00
48) 8260-1,4-DIFLUOROBENZENE	4.615	114	1170468	40.00000000	ppb	0.00
55) 8260-2-BROMO-1-CHLOROP...	5.771	79	204145	40.00000000	ppb	0.00
73) 8260-1,4-DICHLOROBENZE...	7.900	152	614909	40.00000000	ppb	0.00
104) AP9-PENTAFLUOROBENZENE	4.292	168	802009	40.00000000	ppb	0.00
116) AP9-1,4-DIFLUOROBENZENE	4.615	114	1170468	40.00000000	ppb	0.00
121) AP9-2-BROMO-1-CHLOROPR...	5.771	79	204145	40.00000000	ppb	0.00
125) AP9-1,4-DICHLOROBENZEN...	7.900	152	614909	40.00000000	ppb	0.00
System Monitoring Compounds						
38) DIBROMOFLUOROMETHANE	4.049	111	365390	38.7482760	ppb	0.00
Spiked Amount	40.000	Range 79 - 121	Recovery	=	96.87%	
54) A,A,A-TRIFLUOROTOLUENE	4.980	146	666122	43.0229212	ppb	0.00
Spiked Amount	40.000	Range 90 - 116	Recovery	=	107.56%	
59) TOLUENE-D8	5.436	98	1344304	39.9217320	ppb	0.00
Spiked Amount	40.000	Range 90 - 115	Recovery	=	99.80%	
77) 4-BROMOFLUOROBENZENE	7.285	95	528786	41.4038132	ppb	0.00
Spiked Amount	40.000	Range 80 - 120	Recovery	=	103.51%	
Target Compounds						
4) PROPENE	1.615	41	197575	22.0173867	ppb	99
5) DICHLORODIFLUOROMETHANE	1.676	85	209928	22.5139169	ppb	99
6) CHLOROMETHANE	1.828	50	266978	22.6349655	ppb	99
7) VINYL CHLORIDE	1.901	62	258506	23.4632625	ppb	98
8) 1,3-BUTADIENE	1.920	39	207591	22.0204476	ppb	96
9) BROMOMETHANE	2.169	94	139442	22.9532609	ppb	99
10) CHLOROETHANE	2.266	64	147767	22.8363181	ppb	99
11) TRICHLOROFLUOROMETHANE	2.358	101	311515	25.3232259	ppb	100
12) DICHLOROFLUOROMETHANE	2.394	67	365538	24.4128647	ug/l	100
13) ETHYL ETHER	2.558	59	168520	23.0079625	ppb	99
14) ACRYLEIN	2.911	56	13707	143.4531168	ppb	87
15) 1,1-DICHLOROETHENE	2.704	96	170618	24.7774247	ppb	94
16) 1,1,2-TRICHLOROTRIFLUO...	2.729	101	189447	24.8954872	ppb	98
17) ACETONE	3.082	43	371554	110.7424111	ppb	100
18) IODOMETHANE	2.808	142	1669413	123.5333269	ppb	99
19) CARBON DISULFIDE	2.741	76	621052	24.3587489	ppb	99
20) ALLYL CHLORIDE	2.996	76	629079	120.9914403	ppb	99
21) METHYLENE CHLORIDE	3.057	84	213074	23.7722509	ppb	99
22) METHYL ACETATE	3.142	43	1114029	110.7924663	ppb	# 99
23) ACRYLONITRILE	3.538	53	537452	114.1323395	ppb	99
24) n-HEXANE	3.185	56	179984	22.7287037	ppb	99
25) TRANS-1,2-DICHLOROETHENE	3.155	96	203234	24.2992394	ppb	97
26) METHYL TERT-BUTYL ETHER	3.203	73	701016	23.3176647	ppb	99
27) 1,1-DICHLOROETHANE	3.507	63	383123	23.4467301	ppb	100
28) VINYL ACETATE	3.617	43	2765087	111.2732188	ppb	99
29) DI-ISOPROPYL ETHER	3.398	45	728690	22.7675082	ppb	99
30) ETHYL TERT-BUTYL ETHER	3.605	59	664905	22.6426232	ppb	99
31) 2,2-DICHLOROPROPANE	3.879	77	309151	23.9787242	ppb	99
32) CIS-1,2-DICHLOROETHENE	3.812	96	221533	23.1835029	ppb	99
33) 2-BUTANONE (MEK)	4.110	43	652328	99.2972810	ppb	98
34) BROMOCHLOROMETHANE	3.921	130	139455	23.4188727	ppb	99
35) TETRAHYDROFURAN	4.049	42	93027	21.9124161	ppb	94
36) CHLOROFORM	3.946	83	374656	23.6857776	ppb	98
37) CYCLOHEXANE	3.933	84	351949	25.2957411	ppb	99

Data Path : \\VOCCOMPY\msdchem\1\data\092217\
 Data File : 0922_19.D
 Acq On : 22 Sep 2017 1:32 pm
 Operator : 605
 Sample : LCS 1x WG1023529
 Misc : water
 ALS Vial : 19 Sample Multiplier: 1
 InstName : VOCMS13

Quant Time: Sep 24 10:58:44 2017

Quant Method : C:\msdchem\1\methods\V813I22Q.M

Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13

QLast Update : Fri Sep 22 10:59:34 2017

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 1,1,1-TRICHLOROETHANE	4.085	97	331705	24.6214571	ppb	99
40) CARBON TETRACHLORIDE	4.049	117	312301	25.0169358	ppb	95
41) 1,1-DICHLOROPROPENE	4.146	75	282366	24.4340141	ppb	100
42) 2,2,4-TRIMETHYLPENTANE	4.189	57	780408	25.0256628	ppb	100
43) n-Heptane	4.225	71	192386	22.9850603	ppb	# 100
44) BENZENE	4.292	78	863267	23.7880464	ppb	99
45) TERT-AMYL METHYL ETHER	4.317	73	710790	23.1958297	ppb	99
46) 1,2-DICHLOROETHANE	4.402	62	289370	22.1391925	ppb	100
47) T-AMYL ALCOHOL	4.396	59	215959	111.3668061	ppb	99
49) TRICHLOROETHENE	4.609	130	222172	26.1019608	ppb	# 49
50) METHYL CYCLOHEXANE	4.615	83	404140	24.4518116	ppb	98
51) 1,2-DICHLOROPROPANE	4.925	62	156698	24.1018746	ppb	98
52) DIBROMOMETHANE	4.864	93	139469	23.8662006	ppb	97
53) BROMODICHLOROMETHANE	4.943	83	287377	23.2415999	ppb	100
56) 2-CHLOROETHYL VINYL ETHER	5.253	63	812031	117.7185952	ppb	99
57) CIS-1,3-DICHLOROPROPENE	5.320	75	366684	24.2859080	ppb	99
58) 4-METHYL-2-PENTANONE (...)	5.679	43	1566927	119.6290749	ppb	99
60) TOLUENE	5.472	91	901201	24.8111468	ppb	100
61) TRANS-1,3-DICHLOROPROPENE	5.716	75	350545	24.4637769	ppb	99
62) 1,1,2-TRICHLOROETHANE	5.825	97	191555	23.4652993	ppb	98
63) TETRACHLOROETHENE	5.722	164	190388	26.0367639	ppb	99
64) 1,3-DICHLOROPROPANE	6.014	76	353217	23.7588021	ppb	99
65) 2-HEXANONE	6.221	58	603696	118.0708883	ppb	99
66) CHLORODIBROMOMETHANE	5.947	129	231470	25.4350837	ppb	99
67) 1,2-DIBROMOETHANE	6.130	107	217603	24.3839686	ppb	100
68) CHLOROBENZENE	6.464	112	614306	24.6594897	ppb	99
69) 1,1,1,2-TETRACHLOROETHANE	6.495	133	222553	25.1203763	ppb	99
70) ETHYLBENZENE	6.458	106	342284	25.3705587	ppb	99
71) M&P-XYLENE	6.555	106	857026	50.3086349	ppb	99
72) O-XYLENE	6.860	106	426048	26.0664313	ppb	100
74) STYRENE	6.896	104	695438	25.2817651	ppb	99
75) BROMOFORM	6.933	173	201620	25.8469593	ppb	98
76) ISOPROPYLBENZENE	7.079	105	1120388	25.9153516	ppb	99
78) BROMOBENZENE	7.364	77	444714	23.9974132	ppb	98
79) 1,1,2,2-TETRACHLOROETHANE	7.395	83	324089	25.0258919	ppb	100
80) 1,2,3-TRICHLOROPROPANE	7.498	110	107398	25.3134425	ppb	99
81) TRANS-1,4-DICHLORO-2-B...	7.510	53	96015	23.9311344	ppb	97
82) N-PROPYLBENZENE	7.352	91	1244322	25.5877731	ppb	99
83) 4-ETHYLTOLUENE	7.419	105	1107504	26.2906427	ppb	99
84) 2-CHLOROTOLUENE	7.474	91	816398	25.4239446	ppb	99
85) 4-CHLOROTOLUENE	7.571	91	755183	24.9591651	ppb	99
86) 1,3,5-TRIMETHYLBENZENE	7.468	105	957750	26.5056818	ppb	100
87) TERT-BUTYLBENZENE	7.669	119	768251	25.6898540	ppb	100
88) 1,2,4-TRIMETHYLBENZENE	7.705	105	955820	25.3324044	ppb	100
89) SEC-BUTYLBENZENE	7.766	105	1188055	25.5528927	ppb	100
90) 1,3-DICHLOROBENZENE	7.869	146	488698	23.9054107	ppb	98
91) P-ISOPROPYLTOLUENE	7.821	119	1006937	26.7025129	ppb	99
92) DICYCLOPENTADIENE	7.827	66	1051912	25.1031625	ppb	100
93) 1,4-DICHLOROBENZENE	7.906	146	490196	24.5922646	ppb	99
94) 1,2,3-TRIMETHYLBENZENE	7.906	105	912331	25.4900931	ppb	100
95) 1,2-DICHLOROBENZENE	8.046	146	437286	24.3235476	ppb	98
96) N-BUTYLBENZENE	7.979	91	841639	25.9936991	ppb	98
97) 1,2-DIBROMO-3-CHLOROPR...	8.301	157	81129	25.3154459	ppb	96
98) 1,2,4-TRICHLOROBENZENE	8.508	180	319269	24.0711989	ppb	98
99) HEXACHLORO-1,3-BUTADIENE	8.490	225	181304	24.2861386	ppb	99

Data Path : \\VOCCOMPY\msdchem\1\data\092217\
Data File : 0922_19.D
Acq On : 22 Sep 2017 1:32 pm
Operator : 605
Sample : LCS 1x WG1023529
Misc : water
ALS Vial : 19 Sample Multiplier: 1
InstName : VOCMS13

Quant Time: Sep 24 10:58:44 2017
Quant Method : C:\msdchem\1\methods\V813I22Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
QLast Update : Fri Sep 22 10:59:34 2017
Response via : Initial Calibration

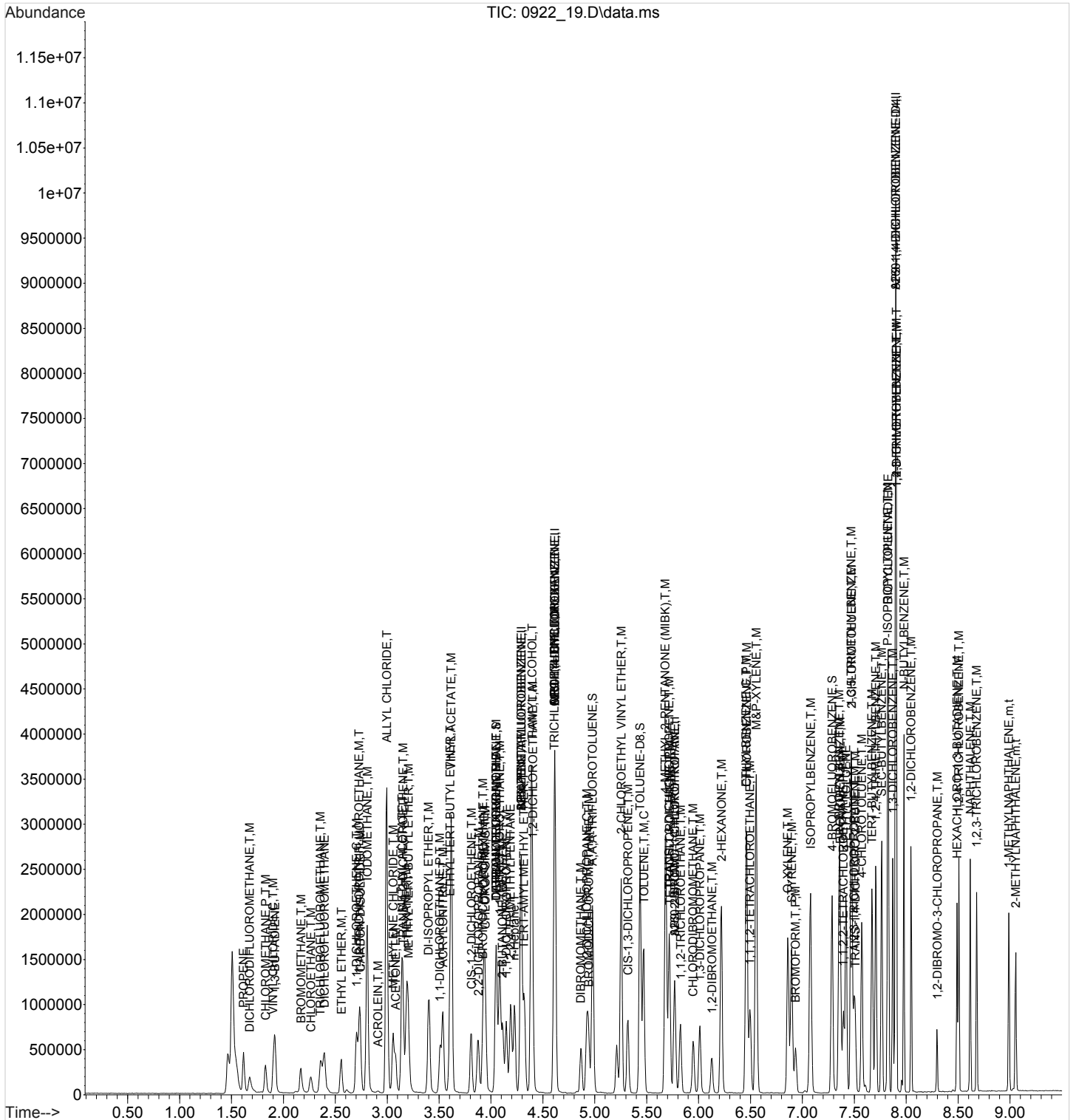
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
100) NAPHTHALENE	8.618	128	828806	24.6430762	ppb	100
101) 1,2,3-TRICHLOROBENZENE	8.679	180	289485	23.3503770	ppb	99
102) 1-METHYLNAPHTHALENE	8.989	142	442774	24.0843419	ppb	99
103) 2-METHYLNAPHTHALENE	9.056	142	367790	24.1915660	ppb	98

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

(QT Reviewed)

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Data Path : \\VOCCOMPY\msdchem\1\data\092217\  
Data File : 0922_19.D  
Acq On    : 22 Sep 2017    1:32 pm  
Operator  : 605  
Sample    : LCS 1x WG1023529  
Misc      : water  
ALS Vial  : 19    Sample Multiplier: 1  
InstName  : VOCMS13
```

Quant Time: Sep 24 10:58:44 2017
Quant Method : C:\msdchem\1\methods\V813I22Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
QLast Update : Fri Sep 22 10:59:34 2017
Response via : Initial Calibration



1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:

R3251791-3

ESC Sample ID: R3251791-3
Client Sample ID: MS
Lab File ID: 0922_45
Instrument ID: VOCMS13
Analytical Batch: WG1023529
Dilution Factor: 1
Analytical Method: 8260C
Matrix: GW
Total Solids (%): _____

SDG: L937868
Collected Date/Time: 09/18/17 12:15
Received Date/Time: 09/20/17 08:45
Preparation Date/Time: 09/22/17 21:57
Analysis Date/Time: 09/22/17 21:57
Prep Method: 8260B/8260C
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>ug/l</i>	Qualifier	MDL <i>ug/l</i>	RDL <i>ug/l</i>
Acetone	67-64-1	3.08	106		10.0	50.0
Benzene	71-43-2	4.29	17.7		0.331	1.00
Bromodichloromethane	75-27-4	4.94	17.7		0.380	1.00
Bromochloromethane	74-97-5	3.92	17.5		0.520	1.00
Bromoform	75-25-2	6.93	17.7		0.469	1.00
Bromomethane	74-83-9	2.16	19.3		0.866	5.00
n-Butylbenzene	104-51-8	7.98	20.1		0.361	1.00
sec-Butylbenzene	135-98-8	7.77	19.2		0.365	1.00
tert-Butylbenzene	98-06-6	7.67	19.2		0.399	1.00
Carbon disulfide	75-15-0	2.73	17.5		0.275	1.00
Carbon tetrachloride	56-23-5	4.05	19.8		0.379	1.00
Chlorobenzene	108-90-7	6.46	18.8		0.348	1.00
Chlorodibromomethane	124-48-1	5.95	18.7		0.327	1.00
Chloroethane	75-00-3	2.27	20.2		0.453	5.00
Chloroform	67-66-3	3.95	18.6		0.324	5.00
Chloromethane	74-87-3	1.83	16.5		0.276	2.50
1,2-Dibromo-3-Chloropropane	96-12-8	8.30	18.8		1.33	5.00
1,2-Dibromoethane	106-93-4	6.13	18.6		0.381	1.00
1,2-Dichlorobenzene	95-50-1	8.05	19.0		0.349	1.00
1,3-Dichlorobenzene	541-73-1	7.87	17.9		0.220	1.00
1,4-Dichlorobenzene	106-46-7	7.91	19.1		0.274	1.00
Dichlorodifluoromethane	75-71-8	1.67	19.7		0.551	5.00
1,1-Dichloroethane	75-34-3	3.51	18.0		0.259	1.00
1,2-Dichloroethane	107-06-2	4.40	17.2		0.361	1.00
1,1-Dichloroethene	75-35-4	2.70	19.0		0.398	1.00
cis-1,2-Dichloroethene	156-59-2	3.81	18.2		0.260	1.00
trans-1,2-Dichloroethene	156-60-5	3.15	18.1		0.396	1.00
1,2-Dichloropropane	78-87-5	4.92	18.0		0.306	1.00
cis-1,3-Dichloropropene	10061-01-5	5.32	18.3		0.418	1.00
trans-1,3-Dichloropropene	10061-02-6	5.72	18.2		0.419	1.00
Ethylbenzene	100-41-4	6.46	20.4		0.384	1.00
2-Hexanone	591-78-6	6.21	94.3		3.82	10.0
Isopropylbenzene	98-82-8	7.08	19.3		0.326	1.00
p-Isopropyltoluene	99-87-6	7.82	19.6		0.350	1.00
2-Butanone (MEK)	78-93-3	4.11	83.9		3.93	10.0
Methylene Chloride	75-09-2	3.06	17.9		1.00	5.00
4-Methyl-2-pentanone (MIBK)	108-10-1	5.68	96.2		2.14	10.0
Methyl tert-butyl ether	1634-04-4	3.20	17.0		0.367	1.00
Naphthalene	91-20-3	8.62	35.3		1.00	5.00
n-Propylbenzene	103-65-1	7.35	18.7		0.349	1.00
Styrene	100-42-5	6.90	18.5		0.307	1.00
1,1,2,2-Tetrachloroethane	79-34-5	7.39	17.0		0.130	1.00
1,1,2-Trichlorotrifluoroethane	76-13-1	2.73	21.3		0.303	1.00

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

ESC Sample ID:	R3251791-3	SDG:	L937868
Client Sample ID:	MS	Collected Date/Time:	09/18/17 12:15
Lab File ID:	0922_45	Received Date/Time:	09/20/17 08:45
Instrument ID:	VOCMS13	Preparation Date/Time:	09/22/17 21:57
Analytical Batch:	WG1023529	Analysis Date/Time:	09/22/17 21:57
Dilution Factor:	1	Prep Method:	8260B/8260C
Analytical Method:	8260C	Sample Vol Used:	5 mL
Matrix:	GW	Initial Wt/Vol:	
Total Solids (%):		Final Wt/Vol:	5 mL

Analyte	CAS	RT	Result <i>ug/l</i>	Qualifier	MDL <i>ug/l</i>	RDL <i>ug/l</i>
Tetrachloroethene	127-18-4	5.72	19.8		0.372	1.00
Toluene	108-88-3	5.47	19.8		0.412	1.00
1,2,3-Trichlorobenzene	87-61-6	8.68	17.7		0.230	1.00
1,2,4-Trichlorobenzene	120-82-1	8.51	18.4		0.355	1.00
1,1,1-Trichloroethane	71-55-6	4.09	19.0		0.319	1.00
1,1,2-Trichloroethane	79-00-5	5.83	18.1		0.383	1.00
Trichloroethene	79-01-6	4.61	19.9		0.398	1.00
Trichlorofluoromethane	75-69-4	2.36	23.2		1.20	5.00
Cyclohexane	110-82-7	3.93	20.3		0.390	1.00
1,2,4-Trimethylbenzene	95-63-6	7.71	19.1		0.373	1.00
1,3,5-Trimethylbenzene	108-67-8	7.47	19.0		0.387	1.00
Vinyl chloride	75-01-4	1.90	19.2		0.259	1.00
Methyl Acetate	79-20-9	3.14	77.8	J6	4.30	20.0
Methyl Cyclohexane	108-87-2	4.61	19.9		0.380	1.00
o-Xylene	95-47-6	6.86	20.0		0.341	1.00
m&p-Xylenes	1330-20-7	6.56	40.8		0.719	2.00

Data Path : \\VOCCOMPY\msdchem\1\data\092217\
 Data File : 0922_45.D
 Acq On : 22 Sep 2017 9:57 pm
 Operator : 605
 Sample : MS 1x WG1023529 L937868-02
 Misc : water
 ALS Vial : 45 Sample Multiplier: 1
 InstName : VOCMS13

Quant Time: Sep 24 11:00:54 2017

Quant Method : C:\msdchem\1\methods\V813I22Q.M

Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13

QLast Update : Fri Sep 22 10:59:34 2017

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.292	168	666634	40.00000000	ppb	0.00
48) 8260-1,4-DIFLUOROBENZENE	4.615	114	967307	40.00000000	ppb	0.00
55) 8260-2-BROMO-1-CHLOROP...	5.771	79	166411	40.00000000	ppb	0.00
73) 8260-1,4-DICHLOROBENZE...	7.900	152	531679	40.00000000	ppb	0.00
104) AP9-PENTAFLUOROBENZENE	4.292	168	668388	40.00000000	ppb	0.00
116) AP9-1,4-DIFLUOROBENZENE	4.615	114	967307	40.00000000	ppb	0.00
121) AP9-2-BROMO-1-CHLOROPR...	5.771	79	166411	40.00000000	ppb	0.00
125) AP9-1,4-DICHLOROBENZEN...	7.900	152	531679	40.00000000	ppb	0.00
System Monitoring Compounds						
38) DIBROMOFLUOROMETHANE	4.049	111	305173	38.9344116	ppb	0.00
Spiked Amount	40.000	Range 79 - 121	Recovery	=	97.34%	
54) A,A,A-TRIFLUOROTOLUENE	4.980	146	522055	40.7997584	ppb	0.00
Spiked Amount	40.000	Range 90 - 116	Recovery	=	102.00%	
59) TOLUENE-D8	5.436	98	1129190	41.1372849	ppb	0.00
Spiked Amount	40.000	Range 90 - 115	Recovery	=	102.84%	
77) 4-BROMOFLUOROBENZENE	7.285	95	434133	39.3137556	ppb	0.00
Spiked Amount	40.000	Range 80 - 120	Recovery	=	98.28%	
Target Compounds						
4) PROPENE	1.628	41	159754	21.4179205	ppb	94
5) DICHLORODIFLUOROMETHANE	1.670	85	152970	19.7368908	ppb	95
6) CHLOROMETHANE	1.828	50	161992	16.5230308	ppb	99
7) VINYL CHLORIDE	1.901	62	175563	19.1709020	ppb	97
8) 1,3-BUTADIENE	1.920	39	169152	21.5867142	ppb	97
9) BROMOMETHANE	2.163	94	97459	19.3003206	ppb	99
10) CHLOROETHANE	2.266	64	108421	20.1582960	ppb	98
11) TRICHLOROFLUOROMETHANE	2.364	101	236986	23.1768568	ppb	99
12) DICHLOROFLUOROMETHANE	2.394	67	273797	21.9991895	ug/l	99
13) ETHYL ETHER	2.559	59	104823	17.2176977	ppb	98
14) ACRYLEIN	2.911	56	47702	631.1785856	ppb	98
15) 1,1-DICHLOROETHENE	2.704	96	108805	19.0095551	ppb	99
16) 1,1,2-TRICHLOROTRIFLUO...	2.729	101	134693	21.2946107	ppb	97
17) ACETONE	3.082	43	295994	106.1369793	ppb	98
18) IODOMETHANE	2.808	142	1028290	91.5435480	ppb	100
19) CARBON DISULFIDE	2.735	76	371831	17.5454451	ppb	98
20) ALLYL CHLORIDE	2.997	76	399153	92.3593012	ppb	99
21) METHYLENE CHLORIDE	3.057	84	133522	17.9219168	ppb	99
22) METHYL ACETATE	3.143	43	650380	77.8166792	ppb	# 97
23) ACRYLONITRILE	3.538	53	339806	86.8144186	ppb	99
24) n-HEXANE	3.185	56	114574	17.4067874	ppb	97
25) TRANS-1,2-DICHLOROETHENE	3.155	96	125518	18.0548593	ppb	97
26) METHYL TERT-BUTYL ETHER	3.203	73	424044	16.9691398	ppb	96
27) 1,1-DICHLOROETHANE	3.508	63	243929	17.9597082	ppb	100
28) VINYL ACETATE	3.617	43	1684449	81.5514146	ppb	100
29) DI-ISOPROPYL ETHER	3.398	45	432446	16.2553513	ppb	100
30) ETHYL TERT-BUTYL ETHER	3.605	59	431052	17.6599141	ppb	99
31) 2,2-DICHLOROPROPANE	3.873	77	195166	18.2117366	ppb	99
32) CIS-1,2-DICHLOROETHENE	3.806	96	144547	18.1987472	ppb	97
33) 2-BUTANONE (MEK)	4.110	43	457884	83.8529964	ppb	100
34) BROMOCHLOROMETHANE	3.921	130	86656	17.5074266	ppb	97
35) TETRAHYDROFURAN	4.049	42	59867	16.9652604	ppb	94
36) CHLOROFORM	3.946	83	244658	18.6082768	ppb	100
37) CYCLOHEXANE	3.933	84	234244	20.2547986	ppb	98

Data Path : \\VOCCOMPY\msdchem\1\data\092217\
 Data File : 0922_45.D
 Acq On : 22 Sep 2017 9:57 pm
 Operator : 605
 Sample : MS 1x WG1023529 L937868-02
 Misc : water
 ALS Vial : 45 Sample Multiplier: 1
 InstName : VOCMS13

Quant Time: Sep 24 11:00:54 2017

Quant Method : C:\msdchem\1\methods\V813I22Q.M

Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13

QLast Update : Fri Sep 22 10:59:34 2017

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 1,1,1-TRICHLOROETHANE	4.085	97	212937	19.0153641	ppb	99
40) CARBON TETRACHLORIDE	4.049	117	205776	19.8311199	ppb	93
41) 1,1-DICHLOROPROPENE	4.146	75	192141	20.0029591	ppb	99
42) 2,2,4-TRIMETHYLPENTANE	4.189	57	500091	19.2932191	ppb	99
43) n-Heptane	4.225	71	124775	17.9345937	ppb	# 95
44) BENZENE	4.292	78	532792	17.6629449	ppb	97
45) TERT-AMYL METHYL ETHER	4.317	73	430353	16.8960513	ppb	99
46) 1,2-DICHLOROETHANE	4.402	62	187022	17.2144341	ppb	98
47) T-AMYL ALCOHOL	4.402	59	99569	61.7732405	ppb	# 79
49) TRICHLOROETHENE	4.609	130	139777	19.8707719	ppb	# 99
50) METHYL CYCLOHEXANE	4.615	83	274500	19.9475159	ppb	99
51) 1,2-DICHLOROPROPANE	4.925	62	96606	17.9798756	ppb	99
52) DIBROMOMETHANE	4.864	93	86945	18.0030225	ppb	98
53) BROMODICHLOROMETHANE	4.937	83	180881	17.7011784	ppb	99
57) CIS-1,3-DICHLOROPROPENE	5.320	75	225442	18.3169825	ppb	100
58) 4-METHYL-2-PENTANONE (...)	5.679	43	1027284	96.2133245	ppb	100
60) TOLUENE	5.466	91	586290	19.8013307	ppb	100
61) TRANS-1,3-DICHLOROPROPENE	5.716	75	212779	18.2165115	ppb	99
62) 1,1,2-TRICHLOROETHANE	5.825	97	120400	18.0932177	ppb	99
63) TETRACHLOROETHENE	5.722	164	118211	19.8317958	ppb	98
64) 1,3-DICHLOROPROPANE	6.008	76	222483	18.3584703	ppb	100
65) 2-HEXANONE	6.215	58	392877	94.2622613	ppb	99
66) CHLORODIBROMOMETHANE	5.947	129	138675	18.6936174	ppb	98
67) 1,2-DIBROMOETHANE	6.130	107	135234	18.5901170	ppb	100
68) CHLOROBENZENE	6.464	112	381330	18.7783323	ppb	97
69) 1,1,1,2-TETRACHLOROETHANE	6.495	133	143118	19.8172625	ppb	97
70) ETHYLBENZENE	6.458	106	224290	20.3943591	ppb	98
71) M&P-XYLENE	6.555	106	566779	40.8149251	ppb	99
72) O-XYLENE	6.860	106	266737	20.0199517	ppb	97
74) STYRENE	6.896	104	441063	18.5443213	ppb	99
75) BROMOFORM	6.933	173	119555	17.7257629	ppb	97
76) ISOPROPYLBENZENE	7.079	105	722304	19.3227983	ppb	100
78) BROMOBENZENE	7.365	77	287249	17.9268299	ppb	99
79) 1,1,2,2-TETRACHLOROETHANE	7.395	83	190622	17.0239227	ppb	98
80) 1,2,3-TRICHLOROPROPANE	7.498	110	66558	18.1433143	ppb	89
81) TRANS-1,4-DICHLORO-2-B...	7.511	53	48397	13.9509565	ppb	96
82) N-PROPYLBENZENE	7.352	91	786802	18.7122715	ppb	99
83) 4-ETHYLTOLUENE	7.419	105	695854	19.1044865	ppb	99
84) 2-CHLOROTOLUENE	7.468	91	510504	18.3866027	ppb	100
85) 4-CHLOROTOLUENE	7.571	91	479368	18.3234915	ppb	98
86) 1,3,5-TRIMETHYLBENZENE	7.468	105	594953	19.0428006	ppb	99
87) TERT-BUTYLBENZENE	7.669	119	496775	19.2123096	ppb	100
88) 1,2,4-TRIMETHYLBENZENE	7.705	105	622922	19.0939293	ppb	98
89) SEC-BUTYLBENZENE	7.766	105	771833	19.1994245	ppb	100
90) 1,3-DICHLOROBENZENE	7.869	146	315579	17.8535706	ppb	99
91) P-ISOPROPYLTOLUENE	7.821	119	637896	19.5641533	ppb	99
92) DICYCLOPENTADIENE	7.827	66	670448	18.5044197	ppb	100
93) 1,4-DICHLOROBENZENE	7.906	146	328475	19.0586627	ppb	# 72
94) 1,2,3-TRIMETHYLBENZENE	7.900	105	623814	20.1574434	ppb	100
95) 1,2-DICHLOROBENZENE	8.046	146	294606	18.9524026	ppb	100
96) N-BUTYLBENZENE	7.979	91	563479	20.1271050	ppb	98
97) 1,2-DIBROMO-3-CHLOROPR...	8.301	157	52002	18.7668269	ppb	97
98) 1,2,4-TRICHLOROBENZENE	8.508	180	211356	18.4296418	ppb	100
99) HEXACHLORO-1,3-BUTADIENE	8.490	225	119251	18.4745749	ppb	98
100) NAPHTHALENE	8.618	128	1025685	35.2709681	ppb	100

Data Path : \\VOCCOMPY\msdchem\1\data\092217\
Data File : 0922_45.D
Acq On : 22 Sep 2017 9:57 pm
Operator : 605
Sample : MS 1x WG1023529 L937868-02
Misc : water
ALS Vial : 45 Sample Multiplier: 1
InstName : VOCMS13

Quant Time: Sep 24 11:00:54 2017
Quant Method : C:\msdchem\1\methods\V813I22Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
QLast Update : Fri Sep 22 10:59:34 2017
Response via : Initial Calibration

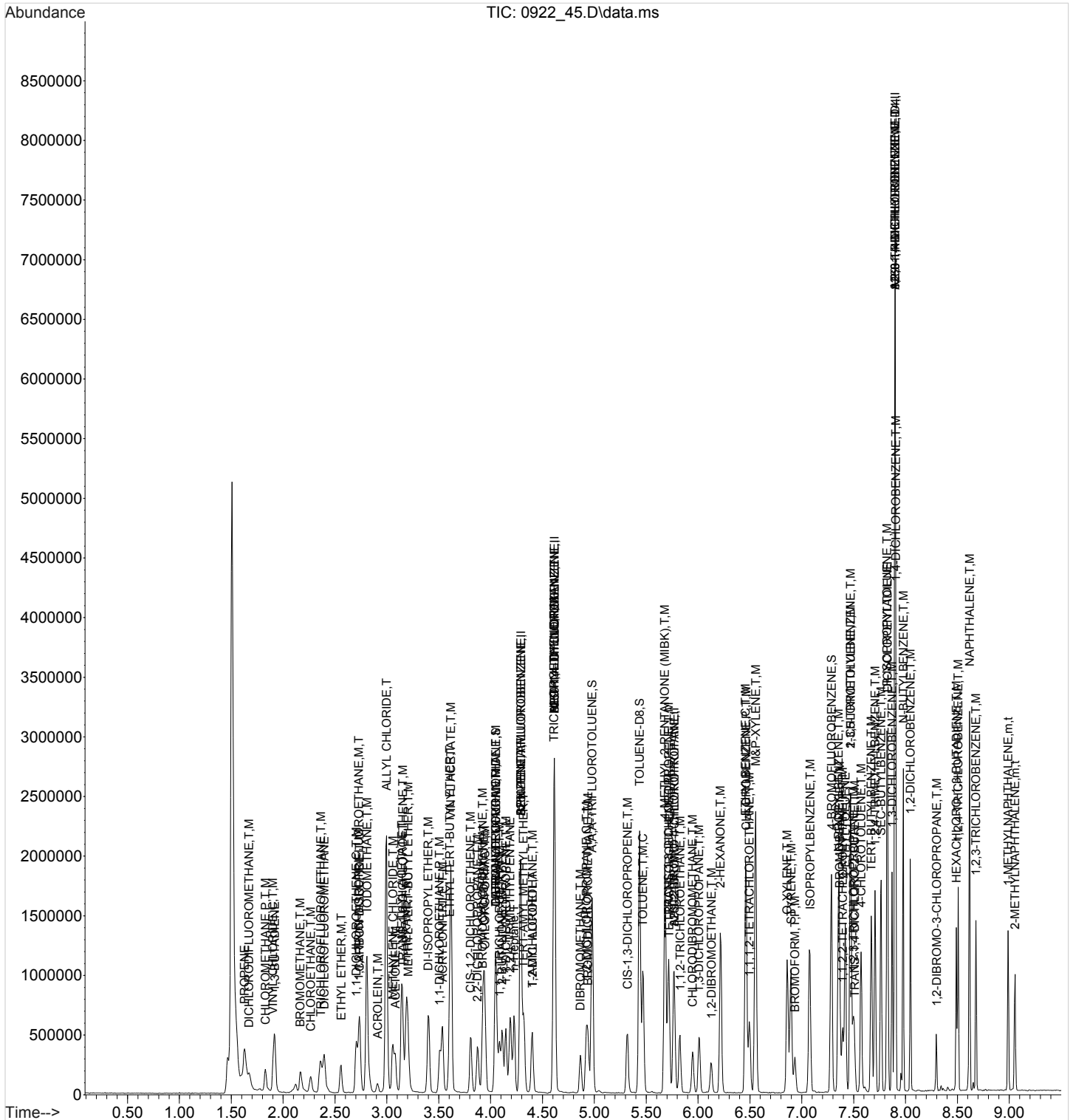
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
101) 1,2,3-TRICHLOROBENZENE	8.679	180	189237	17.6536791	ppb	100
102) 1-METHYLNAPHTHALENE	8.989	142	295393	18.5829310	ppb	99
103) 2-METHYLNAPHTHALENE	9.056	142	236874	18.0195027	ppb	99

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

(QT Reviewed)

```
Data Path : \\VOCCOMPY\msdchem\1\data\092217\  
Data File : 0922_45.D  
Acq On    : 22 Sep 2017    9:57 pm  
Operator  : 605  
Sample    : MS 1x WG1023529 L937868-02  
Misc      : water  
ALS Vial  : 45    Sample Multiplier: 1  
InstName  : VOCMS13
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Quant Time: Sep 24 11:00:54 2017
Quant Method : C:\msdchem\1\methods\V813I22Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
QLast Update : Fri Sep 22 10:59:34 2017
Response via : Initial Calibration



1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:

R3251791-4

ESC Sample ID: R3251791-4
Client Sample ID: MSD
Lab File ID: 0922_46
Instrument ID: VOCMS13
Analytical Batch: WG1023529
Dilution Factor: 1
Analytical Method: 8260C
Matrix: GW
Total Solids (%): _____

SDG: L937868
Collected Date/Time: 09/18/17 12:15
Received Date/Time: 09/20/17 08:45
Preparation Date/Time: 09/22/17 22:16
Analysis Date/Time: 09/22/17 22:16
Prep Method: 8260B/8260C
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result <i>ug/l</i>	Qualifier	MDL <i>ug/l</i>	RDL <i>ug/l</i>
Acetone	67-64-1	3.08	131		10.0	50.0
Benzene	71-43-2	4.29	23.3	J3	0.331	1.00
Bromodichloromethane	75-27-4	4.94	24.7	J3	0.380	1.00
Bromochloromethane	74-97-5	3.92	24.5	J3	0.520	1.00
Bromoform	75-25-2	6.93	23.8	J3	0.469	1.00
Bromomethane	74-83-9	2.16	25.0	J3	0.866	5.00
n-Butylbenzene	104-51-8	7.98	25.6	J3	0.361	1.00
sec-Butylbenzene	135-98-8	7.77	24.7	J3	0.365	1.00
tert-Butylbenzene	98-06-6	7.67	24.9	J3	0.399	1.00
Carbon disulfide	75-15-0	2.73	22.6	J3	0.275	1.00
Carbon tetrachloride	56-23-5	4.05	24.4	J3	0.379	1.00
Chlorobenzene	108-90-7	6.46	24.5	J3	0.348	1.00
Chlorodibromomethane	124-48-1	5.95	25.6	J3	0.327	1.00
Chloroethane	75-00-3	2.27	25.5	J3	0.453	5.00
Chloroform	67-66-3	3.95	24.8	J3	0.324	5.00
Chloromethane	74-87-3	1.83	21.6	J3	0.276	2.50
1,2-Dibromo-3-Chloropropane	96-12-8	8.30	25.2	J3	1.33	5.00
1,2-Dibromoethane	106-93-4	6.13	24.8	J3	0.381	1.00
1,2-Dichlorobenzene	95-50-1	8.05	25.3	J3	0.349	1.00
1,3-Dichlorobenzene	541-73-1	7.87	23.4	J3	0.220	1.00
1,4-Dichlorobenzene	106-46-7	7.91	24.9	J3	0.274	1.00
Dichlorodifluoromethane	75-71-8	1.68	24.1		0.551	5.00
1,1-Dichloroethane	75-34-3	3.51	24.2	J3	0.259	1.00
1,2-Dichloroethane	107-06-2	4.40	22.7	J3	0.361	1.00
1,1-Dichloroethene	75-35-4	2.70	25.0	J3	0.398	1.00
cis-1,2-Dichloroethene	156-59-2	3.81	24.2	J3	0.260	1.00
trans-1,2-Dichloroethene	156-60-5	3.15	24.0	J3	0.396	1.00
1,2-Dichloropropane	78-87-5	4.92	23.9	J3	0.306	1.00
cis-1,3-Dichloropropene	10061-01-5	5.32	24.0	J3	0.418	1.00
trans-1,3-Dichloropropene	10061-02-6	5.72	24.0	J3	0.419	1.00
Ethylbenzene	100-41-4	6.46	26.4	J3	0.384	1.00
2-Hexanone	591-78-6	6.22	125	J3	3.82	10.0
Isopropylbenzene	98-82-8	7.07	24.6	J3	0.326	1.00
p-Isopropyltoluene	99-87-6	7.82	25.6	J3	0.350	1.00
2-Butanone (MEK)	78-93-3	4.11	107		3.93	10.0
Methylene Chloride	75-09-2	3.06	23.8	J3	1.00	5.00
4-Methyl-2-pentanone (MIBK)	108-10-1	5.68	130	J3	2.14	10.0
Methyl tert-butyl ether	1634-04-4	3.20	23.6	J3	0.367	1.00
Naphthalene	91-20-3	8.62	44.5		1.00	5.00
n-Propylbenzene	103-65-1	7.35	24.1	J3	0.349	1.00
Styrene	100-42-5	6.90	24.4	J3	0.307	1.00
1,1,2,2-Tetrachloroethane	79-34-5	7.39	23.6	J3	0.130	1.00
1,1,2-Trichlorotrifluoroethane	76-13-1	2.72	25.3		0.303	1.00

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

ESC Sample ID:	R3251791-4	SDG:	L937868
Client Sample ID:	MSD	Collected Date/Time:	09/18/17 12:15
Lab File ID:	0922_46	Received Date/Time:	09/20/17 08:45
Instrument ID:	VOCMS13	Preparation Date/Time:	09/22/17 22:16
Analytical Batch:	WG1023529	Analysis Date/Time:	09/22/17 22:16
Dilution Factor:	1	Prep Method:	8260B/8260C
Analytical Method:	8260C	Sample Vol Used:	5 mL
Matrix:	GW	Initial Wt/Vol:	
Total Solids (%):		Final Wt/Vol:	5 mL

Analyte	CAS	RT	Result <i>ug/l</i>	Qualifier	MDL <i>ug/l</i>	RDL <i>ug/l</i>
Tetrachloroethene	127-18-4	5.72	24.7	J3	0.372	1.00
Toluene	108-88-3	5.47	25.2	J3	0.412	1.00
1,2,3-Trichlorobenzene	87-61-6	8.68	24.8	J3	0.230	1.00
1,2,4-Trichlorobenzene	120-82-1	8.51	25.8	J3	0.355	1.00
1,1,1-Trichloroethane	71-55-6	4.09	25.3	J3	0.319	1.00
1,1,2-Trichloroethane	79-00-5	5.83	23.8	J3	0.383	1.00
Trichloroethene	79-01-6	4.61	26.1	J3	0.398	1.00
Trichlorofluoromethane	75-69-4	2.36	31.3	J3	1.20	5.00
Cyclohexane	110-82-7	3.94	24.1		0.390	1.00
1,2,4-Trimethylbenzene	95-63-6	7.71	25.3	J3	0.373	1.00
1,3,5-Trimethylbenzene	108-67-8	7.47	25.6	J3	0.387	1.00
Vinyl chloride	75-01-4	1.90	23.4	J3	0.259	1.00
Methyl Acetate	79-20-9	3.14	104	J3	4.30	20.0
Methyl Cyclohexane	108-87-2	4.61	24.2		0.380	1.00
o-Xylene	95-47-6	6.86	26.2	J3	0.341	1.00
m&p-Xylenes	1330-20-7	6.56	51.9	J3	0.719	2.00

Data Path : \\VOCCOMPY\msdchem\1\data\092217\
 Data File : 0922_46.D
 Acq On : 22 Sep 2017 10:16 pm
 Operator : 605
 Sample : MSD 1x WG1023529 L937868-02
 Misc : water
 ALS Vial : 46 Sample Multiplier: 1
 InstName : VOCMS13

Quant Time: Sep 24 11:00:59 2017

Quant Method : C:\msdchem\1\methods\V813I22Q.M

Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13

QLast Update : Fri Sep 22 10:59:34 2017

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.286	168	715366	40.00000000	ppb	0.00
48) 8260-1,4-DIFLUOROBENZENE	4.615	114	1014851	40.00000000	ppb	0.00
55) 8260-2-BROMO-1-CHLOROP...	5.771	79	175334	40.00000000	ppb	0.00
73) 8260-1,4-DICHLOROBENZE...	7.900	152	553168	40.00000000	ppb	0.00
104) AP9-PENTAFLUOROBENZENE	4.286	168	717263	40.00000000	ppb	0.00
116) AP9-1,4-DIFLUOROBENZENE	4.615	114	1014851	40.00000000	ppb	0.00
121) AP9-2-BROMO-1-CHLOROPR...	5.771	79	175334	40.00000000	ppb	0.00
125) AP9-1,4-DICHLOROBENZEN...	7.900	152	553168	40.00000000	ppb	0.00
System Monitoring Compounds						
38) DIBROMOFLUOROMETHANE	4.049	111	328001	38.9961598	ppb	0.00
Spiked Amount	40.000	Range	79 - 121	Recovery	= 97.49%	
54) A,A,A-TRIFLUOROTOLUENE	4.980	146	565254	42.1062945	ppb	0.00
Spiked Amount	40.000	Range	90 - 116	Recovery	= 105.27%	
59) TOLUENE-D8	5.436	98	1180745	40.8263548	ppb	0.00
Spiked Amount	40.000	Range	90 - 115	Recovery	= 102.07%	
77) 4-BROMOFLUOROBENZENE	7.285	95	447655	38.9634704	ppb	0.00
Spiked Amount	40.000	Range	80 - 120	Recovery	= 97.41%	
Target Compounds						
4) PROPENE	1.622	41	204080	25.4967703	ppb	96
5) DICHLORODIFLUOROMETHANE	1.676	85	200761	24.1385393	ppb	95
6) CHLOROMETHANE	1.828	50	227730	21.6458954	ppb	97
7) VINYL CHLORIDE	1.901	62	230430	23.4481044	ppb	98
8) 1,3-BUTADIENE	1.914	39	221840	26.3820431	ppb	98
9) BROMOMETHANE	2.163	94	135377	24.9831170	ppb	99
10) CHLOROETHANE	2.266	64	147340	25.5282028	ppb	98
11) TRICHLOROFLUOROMETHANE	2.358	101	343741	31.3272554	ppb	99
12) DICHLOROFLUOROMETHANE	2.394	67	376520	28.1919561	ug/l	99
13) ETHYL ETHER	2.552	59	152212	23.2984243	ppb	98
14) ACRYLEIN	2.911	56	89330	1108.6147103	ppb	97
15) 1,1-DICHLOROETHENE	2.704	96	153822	25.0438284	ppb	96
16) 1,1,2-TRICHLOROTRIFLUO...	2.723	101	171424	25.2554708	ppb	97
17) ACETONE	3.082	43	392160	131.0407211	ppb	98
18) IODOMETHANE	2.808	142	1522220	126.2841127	ppb	100
19) CARBON DISULFIDE	2.735	76	514624	22.6291373	ppb	99
20) ALLYL CHLORIDE	2.996	76	572832	123.5172678	ppb	99
21) METHYLENE CHLORIDE	3.057	84	190594	23.8396579	ppb	99
22) METHYL ACETATE	3.143	43	931753	103.8880227	ppb	# 99
23) ACRYLONITRILE	3.538	53	468685	111.5837717	ppb	97
24) n-HEXANE	3.185	56	150572	21.3174834	ppb	99
25) TRANS-1,2-DICHLOROETHENE	3.155	96	178754	23.9608947	ppb	99
26) METHYL TERT-BUTYL ETHER	3.203	73	633173	23.6118740	ppb	95
27) 1,1-DICHLOROETHANE	3.508	63	352750	24.2026003	ppb	99
28) VINYL ACETATE	3.617	43	2408647	108.6690709	ppb	99
29) DI-ISOPROPYL ETHER	3.398	45	634854	22.2380908	ppb	99
30) ETHYL TERT-BUTYL ETHER	3.605	59	645321	24.6373439	ppb	99
31) 2,2-DICHLOROPROPANE	3.873	77	274772	23.8934487	ppb	100
32) CIS-1,2-DICHLOROETHENE	3.806	96	206017	24.1710008	ppb	98
33) 2-BUTANONE (MEK)	4.110	43	625454	106.7376551	ppb	100
34) BROMOCHLOROMETHANE	3.921	130	130045	24.4836691	ppb	97
35) TETRAHYDROFURAN	4.049	42	69602	18.3803559	ppb	94
36) CHLOROFORM	3.946	83	350511	24.8432010	ppb	99
37) CYCLOHEXANE	3.939	84	299267	24.1144549	ppb	98

Data Path : \\VOCCOMPY\msdchem\1\data\092217\
 Data File : 0922_46.D
 Acq On : 22 Sep 2017 10:16 pm
 Operator : 605
 Sample : MSD 1x WG1023529 L937868-02
 Misc : water
 ALS Vial : 46 Sample Multiplier: 1
 InstName : VOCMS13

Quant Time: Sep 24 11:00:59 2017

Quant Method : C:\msdchem\1\methods\V813I22Q.M

Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13

QLast Update : Fri Sep 22 10:59:34 2017

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) 1,1,1-TRICHLOROETHANE	4.085	97	304056	25.3026645	ppb	98
40) CARBON TETRACHLORIDE	4.049	117	271893	24.4179788	ppb	98
41) 1,1-DICHLOROPROPENE	4.146	75	260034	25.2268777	ppb	99
42) 2,2,4-TRIMETHYLPENTANE	4.189	57	596547	21.4466512	ppb	96
43) n-Heptane	4.225	71	151020	20.2282166	ppb	# 95
44) BENZENE	4.286	78	755534	23.3409537	ppb	99
45) TERT-AMYL METHYL ETHER	4.317	73	635571	23.2532479	ppb	99
46) 1,2-DICHLOROETHANE	4.402	62	265197	22.7471937	ppb	99
47) T-AMYL ALCOHOL	4.402	59	142851	82.5883308	ppb	87
49) TRICHLOROETHENE	4.609	130	192789	26.1230162	ppb	# 49
50) METHYL CYCLOHEXANE	4.615	83	346707	24.1846957	ppb	99
51) 1,2-DICHLOROPROPANE	4.925	62	134807	23.9142670	ppb	99
52) DIBROMOMETHANE	4.864	93	126613	24.9885559	ppb	98
53) BROMODICHLOROMETHANE	4.943	83	264385	24.6608525	ppb	99
57) CIS-1,3-DICHLOROPROPENE	5.320	75	311748	24.0402327	ppb	100
58) 4-METHYL-2-PENTANONE (...)	5.679	43	1463785	130.1181499	ppb	100
60) TOLUENE	5.466	91	785454	25.1778439	ppb	99
61) TRANS-1,3-DICHLOROPROPENE	5.716	75	295267	23.9920440	ppb	99
62) 1,1,2-TRICHLOROETHANE	5.825	97	166574	23.7581394	ppb	99
63) TETRACHLOROETHENE	5.716	164	155228	24.7166782	ppb	98
64) 1,3-DICHLOROPROPANE	6.014	76	311572	24.4013566	ppb	98
65) 2-HEXANONE	6.221	58	548581	124.9217043	ppb	100
66) CHLORODIBROMOMETHANE	5.947	129	200097	25.6006884	ppb	98
67) 1,2-DIBROMOETHANE	6.130	107	190229	24.8192608	ppb	100
68) CHLOROBENZENE	6.464	112	525078	24.5411979	ppb	99
69) 1,1,1,2-TETRACHLOROETHANE	6.495	133	196622	25.8402912	ppb	99
70) ETHYLBENZENE	6.458	106	305965	26.4050984	ppb	98
71) M&P-XYLENE	6.555	106	759862	51.9344897	ppb	100
72) O-XYLENE	6.860	106	367224	26.1593356	ppb	99
74) STYRENE	6.896	104	603041	24.3696682	ppb	99
75) BROMOFORM	6.933	173	166884	23.7817796	ppb	99
76) ISOPROPYLBENZENE	7.072	105	956313	24.5890935	ppb	99
78) BROMOBENZENE	7.364	77	389738	23.3781522	ppb	99
79) 1,1,2,2-TETRACHLOROETHANE	7.395	83	274392	23.5532325	ppb	98
80) 1,2,3-TRICHLOROPROPANE	7.498	110	93882	24.5975103	ppb	90
81) TRANS-1,4-DICHLORO-2-B...	7.511	53	69071	19.1369951	ppb	97
82) N-PROPYLBENZENE	7.352	91	1055488	24.1271938	ppb	99
83) 4-ETHYLTOLUENE	7.419	105	943758	24.9040710	ppb	100
84) 2-CHLOROTOLUENE	7.468	91	709305	24.5543150	ppb	99
85) 4-CHLOROTOLUENE	7.571	91	648984	23.8432603	ppb	100
86) 1,3,5-TRIMETHYLBENZENE	7.468	105	832997	25.6261909	ppb	100
87) TERT-BUTYLBENZENE	7.669	119	670131	24.9099016	ppb	99
88) 1,2,4-TRIMETHYLBENZENE	7.705	105	858090	25.2805746	ppb	97
89) SEC-BUTYLBENZENE	7.766	105	1035146	24.7490729	ppb	100
90) 1,3-DICHLOROBENZENE	7.869	146	431060	23.4394368	ppb	98
91) P-ISOPROPYLTOLUENE	7.821	119	868381	25.5984664	ppb	98
92) DICYCLOPENTADIENE	7.827	66	903035	23.9556198	ppb	99
93) 1,4-DICHLOROBENZENE	7.906	146	445778	24.8600039	ppb	99
94) 1,2,3-TRIMETHYLBENZENE	7.900	105	873435	27.1271009	ppb	99
95) 1,2-DICHLOROBENZENE	8.046	146	409285	25.3070179	ppb	99
96) N-BUTYLBENZENE	7.979	91	745246	25.5856049	ppb	98
97) 1,2-DIBROMO-3-CHLOROPR...	8.295	157	72585	25.1773572	ppb	99
98) 1,2,4-TRICHLOROBENZENE	8.508	180	307518	25.7730201	ppb	98
99) HEXACHLORO-1,3-BUTADIENE	8.490	225	163902	24.4055802	ppb	100
100) NAPHTHALENE	8.618	128	1344964	44.4535546	ppb	99

Data Path : \\VOCCOMPY\msdchem\1\data\092217\
Data File : 0922_46.D
Acq On : 22 Sep 2017 10:16 pm
Operator : 605
Sample : MSD 1x WG1023529 L937868-02
Misc : water
ALS Vial : 46 Sample Multiplier: 1
InstName : VOCMS13

Quant Time: Sep 24 11:00:59 2017
Quant Method : C:\msdchem\1\methods\V813I22Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
QLast Update : Fri Sep 22 10:59:34 2017
Response via : Initial Calibration

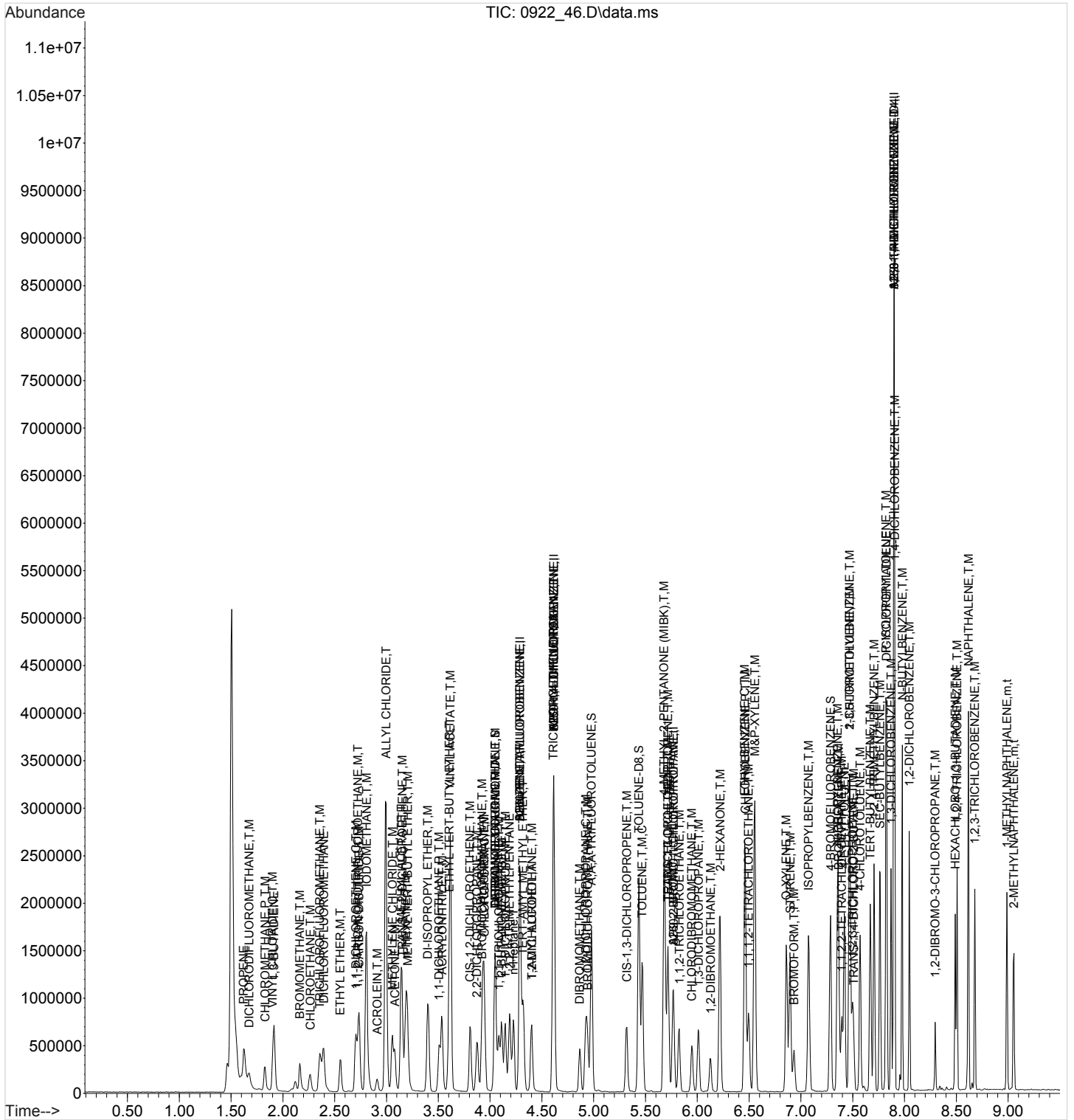
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
101) 1,2,3-TRICHLOROBENZENE	8.679	180	277056	24.8421507	ppb		99
102) 1-METHYLNAPHTHALENE	8.989	142	461573	27.9091667	ppb		98
103) 2-METHYLNAPHTHALENE	9.056	142	371502	27.1630806	ppb		99

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

(QT Reviewed)

```
Data Path : \\VOCCOMPY\msdchem\1\data\092217\  
Data File : 0922_46.D  
Acq On    : 22 Sep 2017  10:16 pm  
Operator  : 605  
Sample    : MSD 1x WG1023529 L937868-02  
Misc      : water  
ALS Vial  : 46      Sample Multiplier: 1  
InstName  : VOCMS13
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Quant Time: Sep 24 11:00:59 2017
Quant Method : C:\msdchem\1\methods\V813I22Q.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
QLast Update : Fri Sep 22 10:59:34 2017
Response via : Initial Calibration



8260 Water VOCs Benchsheet

Batch #: WG1023529

Analyst: AV808 Batch Date/Time: 09/22/17 14:00 Prep End Date/Time: 09/24/17 11:02 SOP: 330363 Method: 8260

ICV Standard: 17I22108 Amt. Used: 2.50 µL Exp. Date:09/29/17 LCS/D/MS/D Standard: 17I22108 Amt. Used: 2.50 µL Exp. Date:09/29/17
Internal Standard/Surrogate: 17H10686 Amt. Used: 1 µL Exp. Date:02/10/18

Sample Number	Prep Flags	Dilution Factor	Sample Vol Used (mL)	Final Volume (mL)	pH	Collection Date	Review Analyst	Review Date	Sample Comments
BLANK		1	5	5	7		JHH126	09/24/17 13:30:09	
LCS		1	5	5	7		JHH126	09/24/17 13:30:09	
LCSD		1	5	5	7		JHH126	09/24/17 13:30:09	
MS(L937868-02)		1	5	5	<2		JHH126	09/24/17 13:30:09	
MSD(L937868-02)		1	5	5	<2		JHH126	09/24/17 13:30:09	
1. L937802-10		1	5	5	<2	09/19/17 09:00	JHH126	09/24/17 13:30:09	
2. L937868-01		1	5	5	<2	09/18/17 00:00	JHH126	09/24/17 13:30:09	
3. L937868-02		1	5	5	<2	09/18/17 12:15	JHH126	09/24/17 13:30:09	MS/MSD
4. L937868-03		1	5	5	<2	09/18/17 15:55	JHH126	09/24/17 13:30:09	
5. L937868-04		1	5	5	<2	09/18/17 14:30	JHH126	09/24/17 13:30:09	
6. L937868-05		1	5	5	<2	09/18/17 11:20	JHH126	09/24/17 13:30:09	
7. L937878-11	G2	1	5	5	<2	09/15/17 14:00	JHH126	09/24/17 13:30:09	
8. L937878-12	G2	1	5	5	<2	09/15/17 13:25	JHH126	09/24/17 13:30:09	
9. L937878-13	G2	1	5	5	<2	09/15/17 13:10	JHH126	09/24/17 13:30:09	
10. L938300-01	G2	1	5	5	<2	09/20/17 17:04	JHH126	09/24/17 13:30:09	
11. L938300-02	G2	1	5	5	<2	09/20/17 15:46	JHH126	09/24/17 13:30:09	
12. L938300-03	G2	1	5	5	<2	09/20/17 19:15	JHH126	09/24/17 13:30:09	
13. L938300-04	G2	1	5	5	<2	09/20/17 18:15	JHH126	09/24/17 13:30:09	
14. L938300-05	G2	1	5	5	<2	09/20/17 13:27	JHH126	09/24/17 13:30:09	
15. L938300-06	G2	1	5	5	<2	09/20/17 14:20	JHH126	09/24/17 13:30:09	
16. L938300-07	G2	1	5	5	<2	09/20/17 12:35	JHH126	09/24/17 13:30:09	
17. L938300-08	G2	1	5	5	<2	09/20/17 11:15	JHH126	09/24/17 13:30:09	
18. L938300-09	G2	1	5	5	<2	09/20/17 12:35	JHH126	09/24/17 13:30:09	
19. L938300-10	G2	1	5	5	<2	09/20/17 20:00	JHH126	09/24/17 13:30:09	
20. L938300-11	G2	1	5	5	<2	09/20/17 00:00	JHH126	09/24/17 13:30:09	

Comments:

Reviewed By:JHH126 on 09/24/17 13:30:09



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

COD	Coefficient of Determination.
Corr.	Correlation Coefficient.
Incpt	Intercept.
Mass	Mass of parameter.
MDL	Method Detection Limit.
MQL	Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
RRF	Relative Response Factor.
RT	Retention Time.
SDG	Sample Delivery Group.
SDL	Sample Detection Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Slope	Slope of calibration curve.
Wavelength	Wavelength of parameter.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

1	Cp
2	Tc
3	Ss
4	Cn
5	Su
6	Gl
7	Al
8	Sc

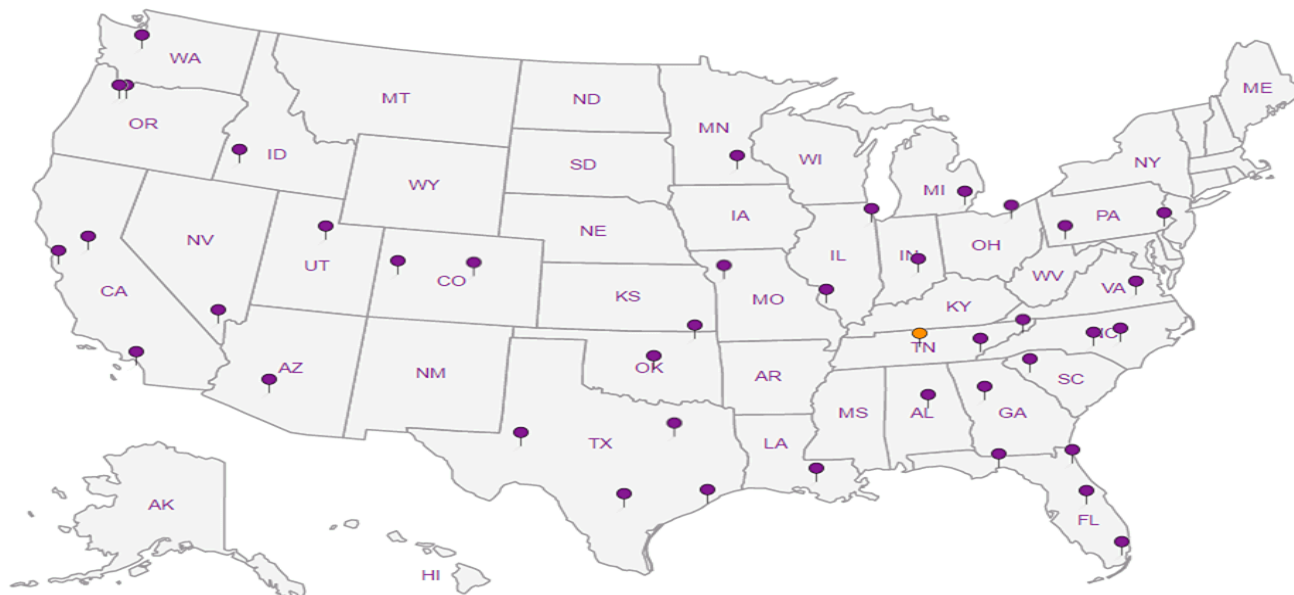
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Su
- 6 Gl
- 7 Al
- 8 Sc

Third Party & Federal Accreditations

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ^{n/a} Accreditation not applicable

ES&C Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ES&C Lab Sciences performs all testing at our central laboratory.**



Hold:	Condition NCF / 6

APPENDIX 3

DATA USABILITY SUMMARY REPORT

for

LABELLA ASSOCIATES, P.C.

300 State Street

Rochester, NY 14614

PHOTECH SITE

Aqueous Samples

SDG: L937868

Sampled September 2017

VOLATILE ORGANICS, METALS

FIELD DUPLICATE	(L937868-01)
RMW-4	(L937868-02)
WELL-09	(L937868-03)
RMW-3	(L937868-04)
RMW-9	(L937868-05)

DATA ASSESSMENT

An ASP Category B data package containing analytical results for five aqueous sample was received from Labella Associates, P.C. on 21Oct17. The deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the Photech Site, were identified by Chain of Custody documents and traceable through the work of ESC Lab Sciences, the laboratory contracted for analysis. Analyses, performed according to SW-846 methods, addressed determinations of volatile organics, arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol (ASP), September 1989, Rev. 07/2005. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP NO. HW-33, Rev. #3, March 2013, Low/Medium Volatile Data Validation and SOP HW-2a, Rev. 15, Dec. 2012, ICP-AES Data Validation) were used as a technical reference.

The trichloroethene results from this project have been qualified as estimations due to poor calibration performance.

With the exception of acetone, dichlorodifluoromethane, 2-butanone, 1,1,2-trichlorotrifluoroethane, naphthalene, cyclohexane and methylcyclohexane, the results reported from RMW-4 have been qualified as estimations due to poor measurement precision.

The presence of trichloroethene in the Field Duplicate; naphthalene in RMW-4; and 1,1-dichloroethane and 1,1-dichloroethene in Well-09 could not be confirmed because the laboratory did not provide the supporting mass spectra references. These results have been qualified as estimations.

CORRECTNESS AND USABILITY

Reported data should be considered technically defensible and completely usable in its present form. Results representing a usable estimation of the conditions at the time of sampling have been flagged "J" or "UJ". Estimated data should be used with caution. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed strict QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly, DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature:


James B. Baldwin
DATAVAL, Inc.

Date: 26Oct17

Sample History

Analyte concentrations can deteriorate with time due to chemical instability, bacterial degradation or volatility. Samples that are not properly preserved or are not analyzed within established holding times may no longer be considered representative. Holding times are calculated from the time of collection. Samples must remain chilled to $4 \pm 2^\circ\text{C}$ between the time of collection and the time of analysis. Acid preserved VOC samples must be analyzed within 14 days of collection, unpreserved VOC samples within 7 days. The holding time for VOC soils is 14 days. Aqueous semivolatile organics, pesticides and PCB samples must be extracted within seven days of collection. The samples must then be analyzed within forty days of extraction. The holding times for cyanide and mercury samples are 14 and 28 days, respectively. Metals samples must be analyzed within six months.

This sample delivery group contained five aqueous samples that were collected from the Photech site on 18Sep17. The samples were shipped to the laboratory, via FedEx, on 19Sep17 and were delivered the next morning. At the time of receipt, the cooler of samples was found to be intact and properly chilled, with a custody seal in place. A cooler temperature of 2.8°C was recorded at the time of receipt.

Proper sample preservation was documented in the field custody record and verified at the time of receipt. A $\text{pH} < 2$ was recorded for each VOC sample at the time of analysis.

VOLATILE ORGANICS

This group of samples was analyzed for volatile organics on 22Sep17. The ASP and SW-846 holding time limitations were satisfied.

Blanks

Blanks are analyzed to evaluate various sources of sample contamination. Field blanks monitor sampling activities. Method blanks are analyzed to verify instrument integrity. Samples are considered compromised by conditions causing contamination in any blank.

One method blank was analyzed with this group of samples. This blank demonstrated acceptable chromatography and was free of targeted analyte contamination.

MS Tuning

Mass spectrometer tuning and performance criteria are established to ensure sufficient mass resolution and sensitivity to accurately detect and identify targeted analytes. Verification is accomplished using a certified standard.

An Instrument Performance Check Standard of BFB was analyzed prior to each analytical sequence that included samples from this

program. An Instrument Performance Check Form is present for each BFB evaluation. The BFB tunes associated with this group of samples satisfied the program acceptance criteria.

Calibrations

Requirements for instrument calibration are established to ensure that laboratory equipment is capable of producing accurate, quantitative data. Initial calibrations demonstrate a range through which measurements may be made. Continuing calibration check standards verify instrument stability.

The initial instrument calibration was performed on 22Sep17. Standards of 0.25, 0.5, 1.0, 2.0, 5.0, 10, 25, 40, 75, 100 and 200 µg/l were included. With the exception of trichloroethene, the standards of each analyte targeted by this program produced the required levels of instrument response and demonstrated an acceptable degree of linearity during this calibration. Trichloroethene standards, however, failed to produce the required levels of instrument response. The trichloroethene results from this project have been qualified as estimations based on this performance.

A calibration check standard was analyzed on 22Sep17, prior to the 12-hour period of instrument operation that included samples from this program. During this check each targeted analyte demonstrated an acceptable level of instrument stability. It is noted that the response of trichloroethene remained low.

Surrogates

Each sample, blank and standard is spiked with surrogate compounds prior to analysis. The structures of surrogates are similar to analytes of interest, but they are not normally found in environmental samples. Surrogate recoveries are monitored to evaluate overall laboratory performance and the efficiency of laboratory technique.

Surrogate Summary Sheets were properly prepared using the laboratory's acceptance criteria. However, when compared to the ASP requirements, an acceptable recovery was reported for each surrogate addition to this group of samples.

Internal Standards

Internal standards are added to each sample, blank and standard just prior to injection. Analyte concentrations are calculated relative to the response of a specific internal standard. Internal standard performance criteria ensure that GC/MS sensitivity and response are stable during the analysis of each sample. The area of internal standard peaks may not vary by more than a factor of two. When compared to the preceding calibration check, retention times may not vary by more than 30 seconds.

The laboratory correctly calculated control limits for internal standard response and retention times. When compared to this

criteria, acceptable performance was reported for the internal standard additions to this group of samples.

Matrix Spikes

Matrix spiking refers to the addition of known analyte concentrations to a sample, prior to analysis. Analyte recoveries provide an indication of laboratory accuracy. The analysis of a duplicate spiked aliquot provides a measurement of precision.

RMW-4 was selected for matrix spiking (MS/MSD). The entire list of targeted analytes was added to two aliquots of this sample. With the exception of methyl acetate (62%) each analyte targeted by this program demonstrated an acceptable level of measurement accuracy. The methyl acetate result from RMW-4 has been qualified as an estimation based on this performance.

Although this MS/MSD pair demonstrated an acceptable level of accuracy, poor precision was observed in the measurements of every targeted analyte except acetone, dichlorodifluoromethane, 2-butanone, 1,1,2-trichlorotrifluoroethane, naphthalene, cyclohexane and methylcyclohexane. With the exception of these analytes, the results reported from RMW-4 have been qualified as estimations.

One spiked blank (LCS) was also analyzed with this group of samples. This LCS produced an acceptable recovery of each analyte targeted by this program.

Duplicates

Two aliquots of the same sample are processed separately through all aspects of sample preparation and analysis. The results produced by the analysis of this pair of samples are compared as a measurement of precision. Poor precision may be indicative of sample non-homogeneity, method defects, or poor laboratory technique.

A blind duplicate sample was included in this delivery group but was not identified.

Reported Analytes

Formal reports were provided for each sample. The data package also included total ion chromatograms and raw instrument printouts. Tentatively Identified Compounds (TIC) were not reported.

Trichloroethene (TCE) was detected in the Field Duplicate; naphthalene was found in RMW-4; and 1,1-dichloroethane (11DCA) and 1,1-dichloroethene (11DCE) were found in WELL-09. Mass spectra references, however, were not provided to confirm these identifications. These analytes have been qualified as estimations due to these omissions. These results have not been rejected because the retention times of the affected analytes matched the retention times produced by the preceding calibration check standard.

METALS

This group of samples was digested and analyzed for mercury on 26Sep17. Samples for ICP analysis were digested on 25Sep17 and analyzed on 26Sep17. The SW-846 holding time limitations were satisfied.

Calibrations

Calibration curves are constructed, using certified materials, to define the linear range of each analytical instrument. Beyond this range, measurements cannot be made with confidence. The calibration curve is immediately tested by analyzing an initial calibration verification standard (ICV). Continuing verifications (CCV) must bracket each group of up to ten samples. ICV and CCV recoveries must meet established criteria.

Each instrument calibration was immediately verified by the analysis of an ICV standard. Continuing calibration checks were made following each group of 10 samples. The calibration checks associated with this group of samples demonstrated acceptable levels of instrument performance and stability.

Low level calibration checks standards (CRI) also bracketed the analysis of program samples. Each of these checks produced acceptable recoveries.

Blanks

Blanks are analyzed to evaluate various sources of sample contamination. Field blanks monitor sampling activities. Preparation blanks are carried through the digestion process with each group of samples to evaluate general laboratory technique. Calibration blanks are run periodically to verify instrument integrity. Samples are considered compromised by conditions causing contamination in any blank.

An initial blank (ICB) was analyzed following the calibration in each analytical sequence. Additional blanks were analyzed after every ten samples (CCB) and at the end of each sequence. Preparation blanks were digested and analyzed with this group of samples. Each laboratory prepared blank was free of targeted analyte contamination exceeding the laboratory's reporting limit.

Interference Check Sample (ICS)

ICS standards are analyzed at the beginning and end of each ICP analysis sequence to verify background and interelement correction factors. The recoveries of specified analytes are measured in the presence of interfering concentrations of aluminum, calcium, magnesium and iron.

Interference check standards, ICSA and ICSAB, bracketed the analysis of program samples. The ICS performance associated with this group of samples satisfied the program acceptance criteria.

Predigestion Spikes

The recovery of spike concentrations added to samples prior to digestion and analysis demonstrates measurement bias caused by sample matrix effects. Predigestion spikes must be recovered within control limits of 75% - 125%.

RMW-4 was selected for matrix spiking. Each targeted metal was added to two aliquots of this sample. The recoveries reported for these additions demonstrated acceptable levels of measurement precision and accuracy.

Duplicates

Two aliquots of the same sample are processed separately through all aspects of sample preparation and analysis. The results produced by this pair of samples are compared as a measurement of precision. Poor precision may be indicative of sample non-homogeneity, method defects, or poor laboratory technique.

Although laboratory split duplicate samples were not prepared, the MS/MSD samples that have been previously addressed demonstrated an acceptable level of measurement precision.

Laboratory Control Standard

Laboratory control samples are prepared by adding analytes to clean sand or reagent water. Analyte concentrations are then determined without interferences caused by sample matrix effects.

A pairs of mercury spiked blanks (LCS/LCSD) and an LCS/LCSD pair containing each targeted ICP metal were digested and analyzed with this delivery group. The recoveries reported from each of these LCS satisfied the program acceptance criteria.

Serial Dilution Sample

Possible matrix effects are verified by the process of serial dilutions. Samples are diluted 1:5 to reduce matrix contributions that might bias measurements. The original sample result, and the corrected concentration of the diluted sample are compared. Sample data is qualified if the original concentrations are not recovered within 10%. Analytes with initial concentrations below 50 times the reporting limit are not considered.

RMW-4 was prepared as a serial dilution. Of the metals present in this sample, at a concentrations exceeding fifty times IDL, none differed from the diluted results by more than 10%. The ASP acceptance criteria was satisfied.

SUMMARY OF QUALIFIED DATA

PHOTECH SITE SAMPLED: September 2017

	CALIBRATE TCE	SPIKES MS/MSD*	MS ID TCE	MS ID NAPHTHALENE	MS/ID 11DCA	MS/ID 11DCE
FIELD DUPLICATE (L937868-01)	7.71J		7.71J			
RMW-4 (L937868-02)	1.0UJ	ALL UJ		15.4J	9.06J	3.00J
WELL-09 (L937868-03)	1.0UJ					
RMW-3 (L937868-04)	7.88J					
RMW-9 (L937868-05)	1.0UJ					

MS/MSD* = All analytes except acetone, dichlorodifluoromethane, 2-butanone, 1,1,2-trichlorotri-
fluoroethane, naphthalene, cyclohexane and methylcyclohexane

1A-OR

SAMPLE RESULT SUMMARY ORGANIC ANALYSIS DATA SHEET

ONE LAB. NATIONWIDE.

SAMPLE NO.:

FIELD DUPLICATE

ESC Sample ID: L937868-01
 Client Sample ID: FIELD DUPLICATE
 Lab File ID: 0922_25
 Instrument ID: VOCMS13
 Analytical Batch: WG1023529
 Dilution Factor: 1
 Analytical Method: 8260C
 Matrix: GW
 Total Solids (%):

SDG: L937868
 Collected Date/Time: 09/18/17 00:00
 Received Date/Time: 09/20/17 08:45
 Preparation Date/Time: 09/22/17 15:29
 Analysis Date/Time: 09/22/17 15:29
 Prep Method: 8260C
 Sample Vol Used: 5 mL
 Initial Wt/Vol: _____
 Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result	Qualifier	MDL	RDL
			ug/l		ug/l	ug/l
Acetone	67-64-1	3.08	ND		10.0	50.0
Benzene	71-43-2	0	ND		0.331	1.00
Bromochloromethane	74-97-5	0	ND		0.520	1.00
Bromodichloromethane	75-27-4	0	ND		0.380	1.00
Bromoform	75-25-2	0	ND		0.469	1.00
Bromomethane	74-83-9	0	ND		0.866	5.00
Carbon disulfide	75-15-0	0	ND		0.275	1.00
Carbon tetrachloride	56-23-5	0	ND		0.379	1.00
Chlorobenzene	108-90-7	0	ND		0.348	1.00
Chlorodibromomethane	124-48-1	0	ND		0.327	1.00
Chloroethane	75-00-3	0	ND		0.453	5.00
Chloroform	67-66-3	0	ND		0.324	5.00
Chloromethane	74-87-3	0	ND		0.276	2.50
Cyclohexane	110-82-7	0	ND		0.390	1.00
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND		1.33	5.00
1,2-Dibromoethane	106-93-4	0	ND		0.381	1.00
1,2-Dichlorobenzene	95-50-1	0	ND		0.349	1.00
1,3-Dichlorobenzene	541-73-1	0	ND		0.220	1.00
1,4-Dichlorobenzene	106-46-7	0	ND		0.274	1.00
Dichlorodifluoromethane	75-71-8	0	ND		0.551	5.00
1,1-Dichloroethane	75-34-3	3.51	ND		0.259	1.00
1,2-Dichloroethane	107-06-2	0	ND		0.361	1.00
1,1-Dichloroethene	75-35-4	2.70	ND		0.398	1.00
cis-1,2-Dichloroethene	156-59-2	3.80	ND		0.260	1.00
trans-1,2-Dichloroethene	156-60-5	0	ND		0.396	1.00
1,2-Dichloropropane	78-87-5	0	ND		0.306	1.00
cis-1,3-Dichloropropene	10061-01-5	0	ND		0.418	1.00
trans-1,3-Dichloropropene	10061-02-6	0	ND		0.419	1.00
Ethylbenzene	100-41-4	0	ND		0.384	1.00
2-Hexanone	591-78-6	0	ND		3.82	10.0
Isopropylbenzene	98-82-8	0	ND		0.326	1.00
2-Butanone (MEK)	78-93-3	4.11	ND		3.93	10.0
Methyl Acetate	79-20-9	0	ND		4.30	20.0
Methyl Cyclohexane	108-87-2	0	ND		0.380	1.00
Methylene Chloride	75-09-2	0	ND		1.00	5.00
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		2.14	10.0
Methyl tert-butyl ether	1634-04-4	0	ND		0.367	1.00
Naphthalene	91-20-3	0	ND		1.00	5.00
Styrene	100-42-5	0	ND		0.307	1.00
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		0.130	1.00
Tetrachloroethene	127-18-4	0	ND		0.372	1.00
Toluene	108-88-3	0	ND		0.412	1.00
1,2,3-Trichlorobenzene	87-61-6	0	ND		0.230	1.00

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

ONE LAB. NATIONWIDE.

SAMPLE NO.:
FIELD DUPLICATE

ESC Sample ID: L937868-01
Client Sample ID: FIELD DUPLICATE
Lab File ID: 0922_25
Instrument ID: VOCMS13
Analytical Batch: WG1023529
Dilution Factor: 1
Analytical Method: 8260C
Matrix: GW
Total Solids (%):

SDG: L937868
Collected Date/Time: 09/18/17 00:00
Received Date/Time: 09/20/17 08:45
Preparation Date/Time: 09/22/17 15:29
Analysis Date/Time: 09/22/17 15:29
Prep Method: 8260C
Sample Vol Used: 5 mL
Initial Wt/Vol:
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result ug/l	Qualifier	MDL ug/l	RDL ug/l
1,2,4-Trichlorobenzene	120-82-1	0	ND		0.355	1.00
1,1,1-Trichloroethane	71-55-6	4.09	ND		0.319	1.00
1,1,2-Trichloroethane	79-00-5	0	ND		0.383	1.00
Trichloroethene	79-01-6	4.61	7.71 J		0.398	1.00
Trichlorofluoromethane	75-69-4	0	ND		1.20	5.00
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		0.303	1.00
Vinyl chloride	75-01-4	0	ND		0.259	1.00
o-Xylene	95-47-6	0	ND		0.341	1.00
m&p-Xylenes	1330-20-7	0	ND		0.719	2.00
n-Butylbenzene	104-51-8	0	ND		0.361	1.00
sec-Butylbenzene	135-98-8	0	ND		0.365	1.00
tert-Butylbenzene	98-06-6	0	ND		0.399	1.00
1,2,4-Trimethylbenzene	95-63-6	0	ND		0.373	1.00
1,3,5-Trimethylbenzene	108-67-8	0	ND		0.387	1.00
n-Propylbenzene	103-65-1	0	ND		0.349	1.00
p-Isopropyltoluene	99-87-6	0	ND		0.350	1.00

1A-OR

SAMPLE RESULT SUMMARY ORGANIC ANALYSIS DATA SHEET

ONE LAB. NATIONWIDE.

SAMPLE NO.:

RMW-4

ESC Sample ID: L937868-02
 Client Sample ID: RMW-4
 Lab File ID: 0922_26
 Instrument ID: VOCMS13
 Analytical Batch: WG1023529
 Dilution Factor: 1
 Analytical Method: 8260C
 Matrix: GW
 Total Solids (%):

SDG: L937868
 Collected Date/Time: 09/18/17 12:15
 Received Date/Time: 09/20/17 08:45
 Preparation Date/Time: 09/22/17 15:48
 Analysis Date/Time: 09/22/17 15:48
 Prep Method: 8260C
 Sample Vol Used: 5 mL
 Initial Wt/Vol:
 Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result ug/l	Qualifier	MDL ug/l	RDL ug/l
Acetone	67-64-1	3.08	ND	✓	10.0	50.0
Benzene	71-43-2	4.29	ND	J3	0.331	1.00
Bromochloromethane	74-97-5	0	ND	J3	0.520	1.00
Bromodichloromethane	75-27-4	0	ND	J3	0.380	1.00
Bromoform	75-25-2	0	ND	J3	0.469	1.00
Bromomethane	74-83-9	0	ND	J3	0.866	5.00
Carbon disulfide	75-15-0	2.73	ND	J3	0.275	1.00
Carbon tetrachloride	56-23-5	0	ND	J3	0.379	1.00
Chlorobenzene	108-90-7	0	ND	J3	0.348	1.00
Chlorodibromomethane	124-48-1	0	ND	J3	0.327	1.00
Chloroethane	75-00-3	0	ND	J3	0.453	5.00
Chloroform	67-66-3	0	ND	J3	0.324	5.00
Chloromethane	74-87-3	0	ND	J3	0.276	2.50
Cyclohexane	110-82-7	3.93	ND	✓	0.390	1.00
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND	J3	1.33	5.00
1,2-Dibromoethane	106-93-4	0	ND	J3	0.381	1.00
1,2-Dichlorobenzene	95-50-1	0	ND	J3	0.349	1.00
1,3-Dichlorobenzene	541-73-1	0	ND	J3	0.220	1.00
1,4-Dichlorobenzene	106-46-7	0	ND	J3	0.274	1.00
Dichlorodifluoromethane	75-71-8	0	ND	✓	0.551	5.00
1,1-Dichloroethane	75-34-3	3.50	ND	J3	0.259	1.00
1,2-Dichloroethane	107-06-2	0	ND	J3	0.361	1.00
1,1-Dichloroethene	75-35-4	0	ND	J3	0.398	1.00
cis-1,2-Dichloroethene	156-59-2	3.81	ND	J3	0.260	1.00
trans-1,2-Dichloroethene	156-60-5	3.15	ND	J3	0.396	1.00
1,2-Dichloropropane	78-87-5	0	ND	J3	0.306	1.00
cis-1,3-Dichloropropene	10061-01-5	0	ND	J3	0.418	1.00
trans-1,3-Dichloropropene	10061-02-6	0	ND	J3	0.419	1.00
Ethylbenzene	100-41-4	6.46	ND	J3	0.384	1.00
2-Hexanone	591-78-6	0	ND	J3	3.82	10.0
Isopropylbenzene	98-82-8	7.07	ND	J3	0.326	1.00
2-Butanone (MEK)	78-93-3	4.12	ND	✓	3.93	10.0
Methyl Acetate	79-20-9	0	ND	J3 J6	4.30	20.0
Methyl Cyclohexane	108-87-2	0	ND	✓	0.380	1.00
Methylene Chloride	75-09-2	0	ND	J3	1.00	5.00
4-Methyl-2-pentanone (MIBK)	108-10-1	5.68	ND	J3	2.14	10.0
Methyl tert-butyl ether	1634-04-4	0	ND	J3	0.367	1.00
Naphthalene	91-20-3	8.62	15.4	✓	1.00	5.00
Styrene	100-42-5	0	ND	J3	0.307	1.00
1,1,2,2-Tetrachloroethane	79-34-5	0	ND	J3	0.130	1.00
Tetrachloroethene	127-18-4	0	ND	J3	0.372	1.00
Toluene	108-88-3	5.47	ND	J3	0.412	1.00
1,2,3-Trichlorobenzene	87-61-6	0	ND	J3	0.230	1.00

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

ONE LAB. NATIONWIDE.



SAMPLE NO.:

RMW-4

ESC Sample ID: L937868-02
Client Sample ID: RMW-4
Lab File ID: 0922_26
Instrument ID: VOCMS13
Analytical Batch: WG1023529
Dilution Factor: 1
Analytical Method: 8260C
Matrix: GW
Total Solids (%):

SDG: L937868
Collected Date/Time: 09/18/17 12:15
Received Date/Time: 09/20/17 08:45
Preparation Date/Time: 09/22/17 15:48
Analysis Date/Time: 09/22/17 15:48
Prep Method: 8260C
Sample Vol Used: 5 mL
Initial Wt/Vol:
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result ug/l	Qualifier	MDL ug/l	RDL ug/l
1,2,4-Trichlorobenzene	120-82-1	0	ND	J3	0.355	1.00
1,1,1-Trichloroethane	71-55-6	4.08	ND	J3	0.319	1.00
1,1,2-Trichloroethane	79-00-5	0	ND	J3	0.383	1.00
Trichloroethene	79-01-6	4.61	ND 1.0	J3	0.398	1.00
Trichlorofluoromethane	75-69-4	2.36	ND	J3	1.20	5.00
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND	J3	0.303	1.00
Vinyl chloride	75-01-4	0	ND	J3	0.259	1.00
o-Xylene	95-47-6	6.86	ND	J3	0.341	1.00
m&p-Xylenes	1330-20-7	6.56	ND	J3	0.719	2.00
n-Butylbenzene	104-51-8	0	ND	J3	0.361	1.00
sec-Butylbenzene	135-98-8	0	ND	J3	0.365	1.00
tert-Butylbenzene	98-06-6	0	ND	J3	0.399	1.00
1,2,4-Trimethylbenzene	95-63-6	7.70	ND	J3	0.373	1.00
1,3,5-Trimethylbenzene	108-67-8	7.47	ND	J3	0.387	1.00
n-Propylbenzene	103-65-1	0	ND	J3	0.349	1.00
p-Isopropyltoluene	99-87-6	0	ND	J3	0.350	1.00

1A-OR

SAMPLE RESULT SUMMARY ORGANIC ANALYSIS DATA SHEET

ONE LAB. NATIONWIDE.

SAMPLE NO.:

WELL-09

ESC Sample ID: L937868-03
 Client Sample ID: WELL-09
 Lab File ID: 0922_27
 Instrument ID: VOCMS13
 Analytical Batch: WG1023529
 Dilution Factor: 1
 Analytical Method: 8260C
 Matrix: GW
 Total Solids (%):

SDG: L937868
 Collected Date/Time: 09/18/17 15:55
 Received Date/Time: 09/20/17 08:45
 Preparation Date/Time: 09/22/17 16:08
 Analysis Date/Time: 09/22/17 16:08
 Prep Method: 8260C
 Sample Vol Used: 5 mL
 Initial Wt/Vol:
 Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result ug/l	Qualifier	MDL ug/l	RDL ug/l
Acetone	67-64-1	3.08	ND		10.0	50.0
Benzene	71-43-2	0	ND		0.331	1.00
Bromochloromethane	74-97-5	0	ND		0.520	1.00
Bromodichloromethane	75-27-4	0	ND		0.380	1.00
Bromoform	75-25-2	0	ND		0.469	1.00
Bromomethane	74-83-9	0	ND		0.866	5.00
Carbon disulfide	75-15-0	0	ND		0.275	1.00
Carbon tetrachloride	56-23-5	0	ND		0.379	1.00
Chlorobenzene	108-90-7	0	ND		0.348	1.00
Chlorodibromomethane	124-48-1	0	ND		0.327	1.00
Chloroethane	75-00-3	2.27	ND		0.453	5.00
Chloroform	67-66-3	0	ND		0.324	5.00
Chloromethane	74-87-3	0	ND		0.276	2.50
Cyclohexane	110-82-7	0	ND		0.390	1.00
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND		1.33	5.00
1,2-Dibromoethane	106-93-4	0	ND		0.381	1.00
1,2-Dichlorobenzene	95-50-1	0	ND		0.349	1.00
1,3-Dichlorobenzene	541-73-1	0	ND		0.220	1.00
1,4-Dichlorobenzene	106-46-7	0	ND		0.274	1.00
Dichlorodifluoromethane	75-71-8	0	ND		0.551	5.00
1,1-Dichloroethane	75-34-3	3.51	9.06 J		0.259	1.00
1,2-Dichloroethane	107-06-2	0	ND		0.361	1.00
1,1-Dichloroethene	75-35-4	2.70	3.00 J		0.398	1.00
cis-1,2-Dichloroethene	156-59-2	0	ND		0.260	1.00
trans-1,2-Dichloroethene	156-60-5	0	ND		0.396	1.00
1,2-Dichloropropane	78-87-5	0	ND		0.306	1.00
cis-1,3-Dichloropropene	10061-01-5	0	ND		0.418	1.00
trans-1,3-Dichloropropene	10061-02-6	0	ND		0.419	1.00
Ethylbenzene	100-41-4	0	ND		0.384	1.00
2-Hexanone	591-78-6	0	ND		3.82	10.0
Isopropylbenzene	98-82-8	0	ND		0.326	1.00
2-Butanone (MEK)	78-93-3	4.11	ND		3.93	10.0
Methyl Acetate	79-20-9	0	ND		4.30	20.0
Methyl Cyclohexane	108-87-2	0	ND		0.380	1.00
Methylene Chloride	75-09-2	0	ND		1.00	5.00
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		2.14	10.0
Methyl tert-butyl ether	1634-04-4	0	ND		0.367	1.00
Naphthalene	91-20-3	8.62	ND		1.00	5.00
Styrene	100-42-5	0	ND		0.307	1.00
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		0.130	1.00
Tetrachloroethene	127-18-4	5.72	ND		0.372	1.00
Toluene	108-88-3	0	ND		0.412	1.00
1,2,3-Trichlorobenzene	87-61-6	0	ND		0.230	1.00

ACCOUNT:
LaBella Associates, P.C.

PROJECT:
2151305

SDG:
L937868

DATE/TIME:
10/13/17 11:29

PAGE:
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1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

ONE LAB. NATIONWIDE.



SAMPLE NO.:

WELL-09

ESC Sample ID: L937868-03
Client Sample ID: WELL-09
Lab File ID: 0922_27
Instrument ID: VOCMS13
Analytical Batch: WG1023529
Dilution Factor: 1
Analytical Method: 8260C
Matrix: GW
Total Solids (%):

SDG: L937868
Collected Date/Time: 09/18/17 15:55
Received Date/Time: 09/20/17 08:45
Preparation Date/Time: 09/22/17 16:08
Analysis Date/Time: 09/22/17 16:08
Prep Method: 8260C
Sample Vol Used: 5 mL
Initial Wt/Vol:
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result ug/l	Qualifier	MDL ug/l	RDL ug/l
1,2,4-Trichlorobenzene	120-82-1	0	ND		0.355	1.00
1,1,1-Trichloroethane	71-55-6	4.09	ND		0.319	1.00
1,1,2-Trichloroethane	79-00-5	0	ND		0.383	1.00
Trichloroethene	79-01-6	4.61	ND 1.00 UJ		0.398	1.00
Trichlorofluoromethane	75-69-4	0	ND		1.20	5.00
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		0.303	1.00
Vinyl chloride	75-01-4	0	ND		0.259	1.00
o-Xylene	95-47-6	0	ND		0.341	1.00
m&p-Xylenes	1330-20-7	0	ND		0.719	2.00
n-Butylbenzene	104-51-8	0	ND		0.361	1.00
sec-Butylbenzene	135-98-8	0	ND		0.365	1.00
tert-Butylbenzene	98-06-6	0	ND		0.399	1.00
1,2,4-Trimethylbenzene	95-63-6	0	ND		0.373	1.00
1,3,5-Trimethylbenzene	108-67-8	0	ND		0.387	1.00
n-Propylbenzene	103-65-1	0	ND		0.349	1.00
p-Isopropyltoluene	99-87-6	0	ND		0.350	1.00

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1A-OR

SAMPLE RESULT SUMMARY ORGANIC ANALYSIS DATA SHEET

ONE LAB. NATIONWIDE.

SAMPLE NO.:

RMW-3

ESC Sample ID: L937868-04
 Client Sample ID: RMW-3
 Lab File ID: 0922_28
 Instrument ID: VOCMS13
 Analytical Batch: WG1023529
 Dilution Factor: 1
 Analytical Method: 8260C
 Matrix: GW
 Total Solids (%):

SDG: L937868
 Collected Date/Time: 09/18/17 14:30
 Received Date/Time: 09/20/17 08:45
 Preparation Date/Time: 09/22/17 16:27
 Analysis Date/Time: 09/22/17 16:27
 Prep Method: 8260C
 Sample Vol Used: 5 mL
 Initial Wt/Vol:
 Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result	Qualifier	MDL	RDL
			ug/l		ug/l	ug/l
Acetone	67-64-1	3.08	ND		10.0	50.0
Benzene	71-43-2	0	ND		0.331	1.00
Bromochloromethane	74-97-5	0	ND		0.520	1.00
Bromodichloromethane	75-27-4	0	ND		0.380	1.00
Bromoform	75-25-2	0	ND		0.469	1.00
Bromomethane	74-83-9	0	ND		0.866	5.00
Carbon disulfide	75-15-0	0	ND		0.275	1.00
Carbon tetrachloride	56-23-5	0	ND		0.379	1.00
Chlorobenzene	108-90-7	0	ND		0.348	1.00
Chlorodibromomethane	124-48-1	0	ND		0.327	1.00
Chloroethane	75-00-3	0	ND		0.453	5.00
Chloroform	67-66-3	0	ND		0.324	5.00
Chloromethane	74-87-3	0	ND		0.276	2.50
Cyclohexane	110-82-7	0	ND		0.390	1.00
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND		1.33	5.00
1,2-Dibromoethane	106-93-4	0	ND		0.381	1.00
1,2-Dichlorobenzene	95-50-1	0	ND		0.349	1.00
1,3-Dichlorobenzene	541-73-1	0	ND		0.220	1.00
1,4-Dichlorobenzene	106-46-7	0	ND		0.274	1.00
Dichlorodifluoromethane	75-71-8	0	ND		0.551	5.00
1,1-Dichloroethane	75-34-3	3.51	ND		0.259	1.00
1,2-Dichloroethane	107-06-2	0	ND		0.361	1.00
1,1-Dichloroethene	75-35-4	2.70	ND		0.398	1.00
cis-1,2-Dichloroethene	156-59-2	3.81	ND		0.260	1.00
trans-1,2-Dichloroethene	156-60-5	0	ND		0.396	1.00
1,2-Dichloropropane	78-87-5	0	ND		0.306	1.00
cis-1,3-Dichloropropene	10061-01-5	0	ND		0.418	1.00
trans-1,3-Dichloropropene	10061-02-6	0	ND		0.419	1.00
Ethylbenzene	100-41-4	0	ND		0.384	1.00
2-Hexanone	591-78-6	0	ND		3.82	10.0
Isopropylbenzene	98-82-8	0	ND		0.326	1.00
2-Butanone (MEK)	78-93-3	4.11	ND		3.93	10.0
Methyl Acetate	79-20-9	0	ND		4.30	20.0
Methyl Cyclohexane	108-87-2	0	ND		0.380	1.00
Methylene Chloride	75-09-2	0	ND		1.00	1.00
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		2.14	10.0
Methyl tert-butyl ether	1634-04-4	0	ND		0.367	1.00
Naphthalene	91-20-3	0	ND		1.00	5.00
Styrene	100-42-5	0	ND		0.307	1.00
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		0.130	1.00
Tetrachloroethene	127-18-4	0	ND		0.372	1.00
Toluene	108-88-3	0	ND		0.412	1.00
1,2,3-Trichlorobenzene	87-61-6	0	ND		0.230	1.00

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

ONE LAB. NATIONWIDE.

SAMPLE NO.:

RMW-3

ESC Sample ID: L937868-04
Client Sample ID: RMW-3
Lab File ID: 0922_28
Instrument ID: VOCMS13
Analytical Batch: WG1023529
Dilution Factor: 1
Analytical Method: 8260C
Matrix: GW
Total Solids (%):

SDG: L937868
Collected Date/Time: 09/18/17 14:30
Received Date/Time: 09/20/17 08:45
Preparation Date/Time: 09/22/17 16:27
Analysis Date/Time: 09/22/17 16:27
Prep Method: 8260C
Sample Vol Used: 5 mL
Initial Wt/Vol:
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result	Qualifier	MDL	RDL
			ug/l		ug/l	ug/l
1,2,4-Trichlorobenzene	120-82-1	0	ND		0.355	1.00
1,1,1-Trichloroethane	71-55-6	4.09	ND		0.319	1.00
1,1,2-Trichloroethane	79-00-5	0	ND		0.383	1.00
Trichloroethene	79-01-6	4.61	7.88 J		0.398	1.00
Trichlorofluoromethane	75-69-4	0	ND		1.20	5.00
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		0.303	1.00
Vinyl chloride	75-01-4	0	ND		0.259	1.00
o-Xylene	95-47-6	0	ND		0.341	1.00
m&p-Xylenes	1330-20-7	0	ND		0.719	2.00
n-Butylbenzene	104-51-8	0	ND		0.361	1.00
sec-Butylbenzene	135-98-8	0	ND		0.365	1.00
tert-Butylbenzene	98-06-6	0	ND		0.399	1.00
1,2,4-Trimethylbenzene	95-63-6	0	ND		0.373	1.00
1,3,5-Trimethylbenzene	108-67-8	0	ND		0.387	1.00
n-Propylbenzene	103-65-1	0	ND		0.349	1.00
p-Isopropyltoluene	99-87-6	0	ND		0.350	1.00

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SAMPLE RESULT SUMMARY ORGANIC ANALYSIS DATA SHEET



ESC Sample ID: L937868-05
Client Sample ID: RMW-9
Lab File ID: 0922_29
Instrument ID: VOCMS13
Analytical Batch: WG1023529
Dilution Factor: 1
Analytical Method: 8260C
Matrix: GW
Total Solids (%):

SDG: L937868
Collected Date/Time: 09/18/17 11:20
Received Date/Time: 09/20/17 08:45
Preparation Date/Time: 09/22/17 16:46
Analysis Date/Time: 09/22/17 16:46
Prep Method: 8260C
Sample Vol Used: 5 mL
Initial Wt/Vol: _____
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result ug/l	Qualifier	MDL ug/l	RDL ug/l
Acetone	67-64-1	3.08	ND		10.0	50.0
Benzene	71-43-2	0	ND		0.331	1.00
Bromochloromethane	74-97-5	0	ND		0.520	1.00
Bromodichloromethane	75-27-4	0	ND		0.380	1.00
Bromoform	75-25-2	0	ND		0.469	1.00
Bromomethane	74-83-9	0	ND		0.866	5.00
Carbon disulfide	75-15-0	0	ND		0.275	1.00
Carbon tetrachloride	56-23-5	0	ND		0.379	1.00
Chlorobenzene	108-90-7	0	ND		0.348	1.00
Chlorodibromomethane	124-48-1	0	ND		0.327	1.00
Chloroethane	75-00-3	0	ND		0.453	5.00
Chloroform	67-66-3	0	ND		0.324	5.00
Chloromethane	74-87-3	0	ND		0.276	2.50
Cyclohexane	110-82-7	0	ND		0.390	1.00
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND		1.33	5.00
1,2-Dibromoethane	106-93-4	0	ND		0.381	1.00
1,2-Dichlorobenzene	95-50-1	0	ND		0.349	1.00
1,3-Dichlorobenzene	541-73-1	0	ND		0.220	1.00
1,4-Dichlorobenzene	106-46-7	0	ND		0.274	1.00
Dichlorodifluoromethane	75-71-8	0	ND		0.551	5.00
1,1-Dichloroethane	75-34-3	3.51	12.9		0.259	1.00
1,2-Dichloroethane	107-06-2	4.40	ND		0.361	1.00
1,1-Dichloroethene	75-35-4	0	ND		0.398	1.00
cis-1,2-Dichloroethene	156-59-2	3.81	5.10		0.260	1.00
trans-1,2-Dichloroethene	156-60-5	3.15	ND		0.396	1.00
1,2-Dichloropropane	78-87-5	0	ND		0.306	1.00
cis-1,3-Dichloropropene	10061-01-5	0	ND		0.418	1.00
trans-1,3-Dichloropropene	10061-02-6	0	ND		0.419	1.00
Ethylbenzene	100-41-4	0	ND		0.384	1.00
2-Hexanone	591-78-6	0	ND		3.82	10.0
Isopropylbenzene	98-82-8	0	ND		0.326	1.00
2-Butanone (MEK)	78-93-3	4.11	ND		3.93	10.0
Methyl Acetate	79-20-9	0	ND		4.30	20.0
Methyl Cyclohexane	108-87-2	0	ND		0.380	1.00
Methylene Chloride	75-09-2	0	ND		1.00	5.00
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		2.14	10.0
Methyl tert-butyl ether	1634-04-4	0	ND		0.367	1.00
Naphthalene	91-20-3	0	ND		1.00	5.00
Styrene	100-42-5	0	ND		0.307	1.00
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		0.130	1.00
Tetrachloroethene	127-18-4	0	ND		0.372	1.00
Toluene	108-88-3	0	ND		0.412	1.00
1,2,3-Trichlorobenzene	87-61-6	0	ND		0.230	1.00

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

ONE LAB. NATIONWIDE.



SAMPLE NO.:

RMW-9

ESC Sample ID: L937868-05
Client Sample ID: RMW-9
Lab File ID: 0922_29
Instrument ID: VOCMS13
Analytical Batch: WG1023529
Dilution Factor: 1
Analytical Method: 8260C
Matrix: GW
Total Solids (%):

SDG: L937868
Collected Date/Time: 09/18/17 11:20
Received Date/Time: 09/20/17 08:45
Preparation Date/Time: 09/22/17 16:46
Analysis Date/Time: 09/22/17 16:46
Prep Method: 8260C
Sample Vol Used: 5 mL
Initial Wt/Vol:
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result	Qualifier	MDL	RDL
			ug/l		ug/l	ug/l
1,2,4-Trichlorobenzene	120-82-1	0	ND		0.355	1.00
1,1,1-Trichloroethane	71-55-6	0	ND		0.319	1.00
1,1,2-Trichloroethane	79-00-5	0	ND		0.383	1.00
Trichloroethene	79-01-6	0	ND 1.00 UJ		0.398	1.00
Trichlorofluoromethane	75-69-4	0	ND		1.20	5.00
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		0.303	1.00
Vinyl chloride	75-01-4	1.90	123		0.259	1.00
o-Xylene	95-47-6	0	ND		0.341	1.00
m&p-Xylenes	1330-20-7	0	ND		0.719	2.00
n-Butylbenzene	104-51-8	0	ND		0.361	1.00
sec-Butylbenzene	135-98-8	0	ND		0.365	1.00
tert-Butylbenzene	98-06-6	0	ND		0.399	1.00
1,2,4-Trimethylbenzene	95-63-6	0	ND		0.373	1.00
1,3,5-Trimethylbenzene	108-67-8	0	ND		0.387	1.00
n-Propylbenzene	103-65-1	0	ND		0.349	1.00
p-Isopropyltoluene	99-87-6	0	ND		0.350	1.00



Analytical Method: 8260C
Matrix: GW

SDG: L937868

Sample ID	ESC Sample ID	Instrument	File ID	DMC-1 % Rec.	DMC-2 % Rec.	DMC-3 % Rec.	DMC-4 % Rec.	TOT Out
FIELD DUPLICATE	L937868-01	VOCMS13	0922_25	103 ✓	102 ✓	104 ✓	98.5 ✓	0
RMW-4	L937868-02	VOCMS13	0922_26	101	100	102	99.3	0
WELL-09	L937868-03	VOCMS13	0922_27	104	101	103	98.7	0
RMW-3	L937868-04	VOCMS13	0922_28	100	104	100	96.6	0
RMW-9	L937868-05	VOCMS13	0922_29	104	102	104	98.6	0
MS	R3251791-3	VOCMS13	0922_45	103	97.3	102	98.3	0
MSD	R3251791-4	VOCMS13	0922_46	102	97.5	105	97.4	0
BLANK	R3251791-2	VOCMS13	0922_21	104	99.1	103	101	0
LCS	R3251791-1	VOCMS13	0922_19	99.8	96.9	108	104	0

Parm Abbreviation**Parameter****QC LIMITS**

DMC-1	Toluene-d8
DMC-2	Dibromofluoromethane
DMC-3	a,a,a-Trifluorotoluene
DMC-4	4-Bromofluorobenzene

80.0 - 120
76.0 - 123
80.0 - 120
80.0 - 120

†: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.



MATRIX SPIKE /
MATRIX SPIKE DUPLICATE RECOVERY
L937868-01,02,03,04,05

SAMPLE NO.:

R3251791-3

R3251791-4

MS Sample / File ID: R3251791-3 / 0922_45
MSD Sample / File ID: R3251791-4 / 0922_46
OS Sample / File ID: L937868-02 / 0922_26
Instrument ID: VOCMS13
Analytical Method: 8260C

SDG: L937868
Analytical Batch: WG1023529
Matrix: GW

Analyte	Spike Amount ug/l	OS Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	RPD %	RPD Limit %
Acetone	125	ND	106	131	70.4	90.4	1	10.0 - 139	21.0 ✓	25
Benzene	25.0	ND	17.7	23.3	70.7 ✓	93.4 ✓	1	34.0 - 147	27.7*	20
Bromodichloromethane	25.0	ND	17.7	24.7	70.8	98.6	1	52.0 - 135	32.9*	20
Bromochloromethane	25.0	ND	17.5	24.5	70.0	97.9	1	53.0 - 138	33.2*	20
Bromoform	25.0	ND	17.7	23.8	70.9	95.1	1	50.0 - 146	29.2*	20
Bromomethane	25.0	ND	19.3	25.0	77.2	99.9	1	10.0 - 160	25.7*	23
n-Butylbenzene	25.0	ND	20.1	25.6	80.5	102	1	50.0 - 144	23.9*	20
sec-Butylbenzene	25.0	ND	19.2	24.7	76.8	99.0	1	48.0 - 143	25.3*	20
tert-Butylbenzene	25.0	ND	19.2	24.9	76.8	99.6	1	50.0 - 142	25.8*	20
Carbon disulfide	25.0	ND	17.5	22.6	70.2	90.5	1	10.0 - 147	25.3*	20
Carbon tetrachloride	25.0	ND	19.8	24.4	79.3	97.7	1	41.0 - 138	20.7*	20
Chlorobenzene	25.0	ND	18.8	24.5	75.1 ✓	98.2 ✓	1	52.0 - 141	26.6*	20
Chlorodibromomethane	25.0	ND	18.7	25.6	74.8	102	1	54.0 - 142	31.2*	20
Chloroethane	25.0	ND	20.2	25.5	80.6	102	1	23.0 - 160	23.5*	20
Chloroform	25.0	ND	18.6	24.8	74.4	99.4	1	50.0 - 139	28.7*	20
Chloromethane	25.0	ND	16.5	21.6	66.1	86.6	1	14.0 - 151	26.8*	20
1,2-Dibromo-3-Chloropropane	25.0	ND	18.8	25.2	75.1	101	1	49.0 - 144	29.2*	24
1,2-Dibromoethane	25.0	ND	18.6	24.8	74.4	99.3	1	54.0 - 140	28.7*	20
1,2-Dichlorobenzene	25.0	ND	19.0	25.3	75.8	101	1	56.0 - 139	28.7*	20
1,3-Dichlorobenzene	25.0	ND	17.9	23.4	71.4	93.8	1	50.0 - 141	27.1*	20
1,4-Dichlorobenzene	25.0	ND	19.1	24.9	76.2	99.4	1	53.0 - 136	26.4*	20
Dichlorodifluoromethane	25.0	ND	19.7	24.1	78.9	96.6	1	20.0 - 160	20.1 ✓	21
1,1-Dichloroethane	25.0	ND	18.0	24.2	70.8	95.7	1	47.0 - 143	29.6*	20
1,2-Dichloroethane	25.0	ND	17.2	22.7	68.9	91.0	1	47.0 - 141	27.7*	20
1,1-Dichloroethene	25.0	ND	19.0	25.0	76.0 ✓	100 ✓	1	31.0 - 148	27.4*	20
cis-1,2-Dichloroethene	25.0	ND	18.2	24.2	72.8	96.7	1	43.0 - 142	28.2*	20
trans-1,2-Dichloroethene	25.0	ND	18.1	24.0	72.2	95.8	1	36.0 - 141	28.1*	20
1,2-Dichloropropane	25.0	ND	18.0	23.9	71.9	95.7	1	51.0 - 141	28.3*	20
cis-1,3-Dichloropropene	25.0	ND	18.3	24.0	73.3	96.2	1	53.0 - 139	27.0*	20
trans-1,3-Dichloropropene	25.0	ND	18.2	24.0	72.9	96.0	1	51.0 - 143	27.4*	20
Ethylbenzene	25.0	ND	20.4	26.4	78.9	103	1	42.0 - 147	25.7*	20
2-Hexanone	125	ND	94.3	125	75.4	99.9	1	36.0 - 145	28.0*	23
Isopropylbenzene	25.0	ND	19.3	24.6	77.3	98.4	1	48.0 - 141	24.0*	20
p-Isopropyltoluene	25.0	ND	19.6	25.6	78.3	102	1	49.0 - 146	26.7*	20
2-Butanone (MEK)	125	ND	83.9	107	67.1	85.4	1	12.0 - 149	24.0 ✓	24
Methylene Chloride	25.0	ND	17.9	23.8	71.7	95.4	1	42.0 - 135	28.3*	20
4-Methyl-2-pentanone (MIBK)	125	ND	96.2	130	77.0	104	1	44.0 - 160	30.0*	22
Methyl tert-butyl ether	25.0	ND	17.0	23.6	67.9	94.4	1	42.0 - 142	32.7*	20
Naphthalene	25.0	15.4	35.3	44.5	79.5	116	1	42.0 - 146	23.0 ✓	24
n-Propylbenzene	25.0	ND	18.7	24.1	74.8	96.5	1	47.0 - 144	25.3*	20
Styrene	25.0	ND	18.5	24.4	74.2	97.5	1	47.0 - 147	27.1*	20
1,1,2,2-Tetrachloroethane	25.0	ND	17.0	23.6	68.1	94.2	1	46.0 - 149	32.2*	20
1,1,2-Trichlorotrifluoroethane	25.0	ND	21.3	25.3	85.2	101	1	40.0 - 151	17.0 ✓	21

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3A-OR

ONE LAB. NATIONWIDE.



MATRIX SPIKE /
MATRIX SPIKE DUPLICATE RECOVERY
L937868-01,02,03,04,05

SAMPLE NO.:

R3251791-3

R3251791-4

MS Sample / File ID: R3251791-3 / 0922_45
MSD Sample / File ID: R3251791-4 / 0922_46
OS Sample / File ID: L937868-02 / 0922_26
Instrument ID: VOCMS13
Analytical Method: 8260C

SDG: L937868
Analytical Batch: WG1023529
Matrix: GW

Analyte	Spike Amount ug/l	OS Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	RPD %	RPD Limit %
Tetrachloroethene	25.0	ND	19.8	24.7	79.3	98.9	1	38.0 - 147	21.9*	20
Toluene	25.0	ND	19.8	25.2	76.3 ✓	97.8 ✓	1	42.0 - 141	23.9*	20
1,2,3-Trichlorobenzene	25.0	ND	17.7	24.8	70.6	99.4	1	45.0 - 145	33.8*	22
1,2,4-Trichlorobenzene	25.0	ND	18.4	25.8	73.7	103	1	49.0 - 147	33.2*	21
1,1,1-Trichloroethane	25.0	ND	19.0	25.3	76.1	101	1	46.0 - 140	28.4*	20
1,1,2-Trichloroethane	25.0	ND	18.1	23.8	72.4	95.0	1	54.0 - 139	27.1*	20
Trichloroethene	25.0	ND	19.9	26.1	79.5 ✓	104 ✓	1	32.0 - 156	27.2*	20
Trichlorofluoromethane	25.0	ND	23.2	31.3	82.8	115	1	32.0 - 152	29.9*	20
Cyclohexane	25.0	ND	20.3	24.1	81.0	96.5	1	70.0 - 130	17.4 ✓	20
1,2,4-Trimethylbenzene	25.0	ND	19.1	25.3	74.8	99.6	1	41.0 - 146	27.9*	20
1,3,5-Trimethylbenzene	25.0	ND	19.0	25.6	76.2	103	1	44.0 - 143	29.5*	20
Vinyl chloride	25.0	ND	19.2	23.4	76.7	93.8	1	24.0 - 153	20.1*	20
Methyl Acetate	125	ND	77.8	104	62.3*	83.1	1	70.0 - 130	28.7*	20.8
Methyl Cyclohexane	25.0	ND	19.9	24.2	79.8	96.7	1	70.0 - 130	19.2 ✓	20.8
o-Xylene	25.0	ND	20.0	26.2	78.3	103	1	44.0 - 146	26.6*	20
m&p-Xylenes	50.0	ND	40.8	51.9	78.6	101	1	41.0 - 147	24.0*	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L937868-01,02,03,04,05

LCS Sample / File ID: R3251791-1 / 0922_19

LCSD Sample / File ID: _____

Instrument ID: VOCMS13

Analytical Method: 8260C

SDG: L937868

Analytical Batch: WG1023529

Dilution Factor: 1

Matrix: GW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limit
	ug/l	ug/l		%	%	%	%	%
Acetone	125	111		88.6		10.0 - 160		
Benzene	25.0	23.8		95.2 ✓		69.0 - 123		
Bromodichloromethane	25.0	23.2		93.0		76.0 - 120		
Bromochloromethane	25.0	23.4		93.7		76.0 - 122		
Bromoform	25.0	25.8		103		67.0 - 132		
Bromomethane	25.0	23.0		91.8		18.0 - 160		
n-Butylbenzene	25.0	26.0		104		72.0 - 126		
sec-Butylbenzene	25.0	25.6		102		74.0 - 121		
tert-Butylbenzene	25.0	25.7		103		75.0 - 122		
Carbon disulfide	25.0	24.4		97.4		55.0 - 127		
Carbon tetrachloride	25.0	25.0		100		63.0 - 122		
Chlorobenzene	25.0	24.7		98.6 ✓		79.0 - 121		
Chlorodibromomethane	25.0	25.4		102		75.0 - 125		
Chloroethane	25.0	22.8		91.3		47.0 - 152		
Chloroform	25.0	23.7		94.7		72.0 - 121		
Chloromethane	25.0	22.6		90.5		48.0 - 139		
1,2-Dibromo-3-Chloropropane	25.0	25.3		101		64.0 - 127		
1,2-Dibromoethane	25.0	24.4		97.5		77.0 - 123		
1,2-Dichlorobenzene	25.0	24.3		97.3		80.0 - 120		
1,3-Dichlorobenzene	25.0	23.9		95.6		72.0 - 123		
1,4-Dichlorobenzene	25.0	24.6		98.4		77.0 - 120		
Dichlorodifluoromethane	25.0	22.5		90.1		49.0 - 155		
1,1-Dichloroethane	25.0	23.4		93.8		70.0 - 126		
1,2-Dichloroethane	25.0	22.1		88.6		67.0 - 126		
1,1-Dichloroethene	25.0	24.8		99.1 ✓		64.0 - 129		
cis-1,2-Dichloroethene	25.0	23.2		92.7		73.0 - 120		
trans-1,2-Dichloroethene	25.0	24.3		97.2		71.0 - 121		
1,2-Dichloropropane	25.0	24.1		96.4		75.0 - 125		
cis-1,3-Dichloropropene	25.0	24.3		97.1		79.0 - 123		
trans-1,3-Dichloropropene	25.0	24.5		97.9		74.0 - 127		
Ethylbenzene	25.0	25.4		101		77.0 - 120		
2-Hexanone	125	118		94.5		58.0 - 147		
Isopropylbenzene	25.0	25.9		104		75.0 - 120		
p-Isopropyltoluene	25.0	26.7		107		74.0 - 126		
2-Butanone (MEK)	125	99.3		79.4		37.0 - 158		
Methylene Chloride	25.0	23.8		95.1		66.0 - 121		
4-Methyl-2-pentanone (MIBK)	125	120		95.7		59.0 - 143		
Methyl tert-butyl ether	25.0	23.3		93.3		64.0 - 123		
Naphthalene	25.0	24.6		98.6		62.0 - 128		
n-Propylbenzene	25.0	25.6		102		79.0 - 120		
Styrene	25.0	25.3		101		78.0 - 124		
Cyclohexane	25.0	25.3		101		70.0 - 130		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY
L937868-01,02,03,04,05

LCS Sample / File ID: R3251791-1 / 0922_19
LCSD Sample / File ID: _____
Instrument ID: VOCMS13
Analytical Method: 8260C

SDG: L937868
Analytical Batch: WG1023529
Dilution Factor: 1
Matrix: GW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limit
	ug/l	ug/l		%	%	%	%	%
1,1,2,2-Tetrachloroethane	25.0	25.0		100		71.0 - 122		
1,1,2-Trichlorotrifluoroethane	25.0	24.9		99.6		61.0 - 136		
Tetrachloroethene	25.0	26.0		104		70.0 - 127		
Toluene	25.0	24.8		99.2	✓	77.0 - 120		
1,2,3-Trichlorobenzene	25.0	23.4		93.4		61.0 - 133		
1,2,4-Trichlorobenzene	25.0	24.1		96.3		69.0 - 129		
1,1,1-Trichloroethane	25.0	24.6		98.5		68.0 - 122		
1,1,2-Trichloroethane	25.0	23.5		93.9	✓	78.0 - 120		
Trichloroethene	25.0	26.1		104	✓	78.0 - 120		
Trichlorofluoromethane	25.0	25.3		101		56.0 - 137		
1,2,4-Trimethylbenzene	25.0	25.3		101		75.0 - 120		
1,3,5-Trimethylbenzene	25.0	26.5		106		75.0 - 120		
Vinyl chloride	25.0	23.5		93.9		64.0 - 133		
Methyl Acetate	125	111		88.6		70.0 - 130		
Methyl Cyclohexane	25.0	24.5		97.8		70.0 - 130		
o-Xylene	25.0	26.1		104		78.0 - 120		
m&p-Xylenes	50.0	50.3		101		77.0 - 120		

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

ESC Sample ID: R3251791-2
Lab File ID: 0922_21
Instrument ID: VOCMS13
Analytical Batch: WG1023529
Analytical Method: 8260C

SDG: L937868
Preparation Date/Time: 09/22/17 14:11
Analysis Date/Time: 09/22/17 14:11
Dilution Factor: 1
Matrix: GW

Sample ID	ESC Sample ID	Instrument	File ID	Analysis date/time
LCS	R3251791-1	VOCMS13	0922_19	09/22/17 13:32
FIELD DUPLICATE	L937868-01	VOCMS13	0922_25	09/22/17 15:29
RMW-4	L937868-02	VOCMS13	0922_26	09/22/17 15:48
WELL-09	L937868-03	VOCMS13	0922_27	09/22/17 16:08
RMW-3	L937868-04	VOCMS13	0922_28	09/22/17 16:27
RMW-9	L937868-05	VOCMS13	0922_29	09/22/17 16:46
MS	R3251791-3	VOCMS13	0922_45	09/22/17 21:57
MSD	R3251791-4	VOCMS13	0922_46	09/22/17 22:16

1A-OR

SAMPLE RESULT SUMMARY ORGANIC ANALYSIS DATA SHEET

ONE LAB. NATIONWIDE.

SAMPLE NO.:

R3251791-2

ESC Sample ID: R3251791-2
 Client Sample ID: BLANK
 Lab File ID: 0922_21
 Instrument ID: VOCMS13
 Analytical Batch: WG1023529
 Dilution Factor: 1
 Analytical Method: 8260C
 Matrix: GW
 Total Solids (%):

SDG: L937868
 Collected Date/Time:
 Received Date/Time:
 Preparation Date/Time: 09/22/17 14:11
 Analysis Date/Time: 09/22/17 14:11
 Prep Method: 8260B/8260C
 Sample Vol Used: 5 mL
 Initial Wt/Vol:
 Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result ug/l	Qualifier	MDL ug/l	RDL ug/l
Acetone	67-64-1	3.08	U ✓		10.0	50.0
Benzene	71-43-2	0	U		0.331	1.00
Bromodichloromethane	75-27-4	0	U		0.380	1.00
Bromochloromethane	74-97-5	0	U		0.520	1.00
Bromoform	75-25-2	0	U		0.469	1.00
Bromomethane	74-83-9	0	U		0.866	5.00
n-Butylbenzene	104-51-8	0	U		0.361	1.00
sec-Butylbenzene	135-98-8	0	U		0.365	1.00
tert-Butylbenzene	98-06-6	0	U		0.399	1.00
Carbon disulfide	75-15-0	0	U		0.275	1.00
Carbon tetrachloride	56-23-5	0	U		0.379	1.00
Chlorobenzene	108-90-7	0	U		0.348	1.00
Chlorodibromomethane	124-48-1	0	U		0.327	1.00
Chloroethane	75-00-3	0	U		0.453	5.00
Chloroform	67-66-3	0	U		0.324	5.00
Chloromethane	74-87-3	0	U		0.276	2.50
1,2-Dibromo-3-Chloropropane	96-12-8	0	U		1.33	5.00
Cyclohexane	110-82-7	0	U		0.390	1.00
1,2-Dibromoethane	106-93-4	0	U		0.381	1.00
1,2-Dichlorobenzene	95-50-1	0	U		0.349	1.00
1,3-Dichlorobenzene	541-73-1	0	U		0.220	1.00
1,4-Dichlorobenzene	106-46-7	0	U		0.274	1.00
Dichlorodifluoromethane	75-71-8	0	U		0.551	5.00
1,1-Dichloroethane	75-34-3	0	U		0.259	1.00
1,2-Dichloroethane	107-06-2	0	U		0.361	1.00
1,1-Dichloroethene	75-35-4	0	U		0.398	1.00
cis-1,2-Dichloroethene	156-59-2	0	U		0.260	1.00
trans-1,2-Dichloroethene	156-60-5	0	U		0.396	1.00
1,2-Dichloropropane	78-87-5	0	U		0.306	1.00
cis-1,3-Dichloropropene	10061-01-5	0	U		0.418	1.00
trans-1,3-Dichloropropene	10061-02-6	0	U		0.419	1.00
Ethylbenzene	100-41-4	0	U		0.384	1.00
2-Hexanone	591-78-6	0	U		3.82	10.0
Isopropylbenzene	98-82-8	0	U		0.326	1.00
p-Isopropyltoluene	99-87-6	0	U		0.350	1.00
2-Butanone (MEK)	78-93-3	0	U		3.93	10.0
Methylene Chloride	75-09-2	0	U		1.00	5.00
4-Methyl-2-pentanone (MIBK)	108-10-1	0	U		2.14	10.0
Methyl tert-butyl ether	1634-04-4	0	U		0.367	1.00
Naphthalene	91-20-3	8.62	U		1.00	5.00
n-Propylbenzene	103-65-1	0	U		0.349	1.00
Styrene	100-42-5	0	U		0.307	1.00
1,1,2,2-Tetrachloroethane	79-34-5	0	U		0.130	1.00

1A-OR

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEETONE LAB. NATIONWIDE. 

SAMPLE NO.:

R3251791-2

ESC Sample ID: R3251791-2
Client Sample ID: BLANK
Lab File ID: 0922_21
Instrument ID: VOCMS13
Analytical Batch: WG1023529
Dilution Factor: 1
Analytical Method: 8260C
Matrix: GW
Total Solids (%):

SDG: L937868
Collected Date/Time:
Received Date/Time:
Preparation Date/Time: 09/22/17 14:11
Analysis Date/Time: 09/22/17 14:11
Prep Method: 8260B/8260C
Sample Vol Used: 5 mL
Initial Wt/Vol:
Final Wt/Vol: 5 mL

Analyte	CAS	RT	Result ug/l	Qualifier	MDL ug/l	RDL ug/l
1,1,2-Trichlorotrifluoroethane	76-13-1	0	U ✓		0.303	1.00
Methyl Acetate	79-20-9	0	U		4.30	20.0
Methyl Cyclohexane	108-87-2	0	U		0.380	1.00
Tetrachloroethene	127-18-4	0	U		0.372	1.00
Toluene	108-88-3	0	U		0.412	1.00
1,2,3-Trichlorobenzene	87-61-6	8.51	U		0.230	1.00
1,2,4-Trichlorobenzene	120-82-1	8.51	U		0.355	1.00
1,1,1-Trichloroethane	71-55-6	0	U		0.319	1.00
1,1,2-Trichloroethane	79-00-5	0	U		0.383	1.00
Trichloroethene	79-01-6	0	U		0.398	1.00
Trichlorofluoromethane	75-69-4	0	U		1.20	5.00
1,2,4-Trimethylbenzene	95-63-6	0	U		0.373	1.00
1,3,5-Trimethylbenzene	108-67-8	0	U		0.387	1.00
Vinyl chloride	75-01-4	0	U		0.259	1.00
o-Xylene	95-47-6	0	U		0.341	1.00
m&p-Xylenes	1330-20-7	0	U		0.719	2.00

GC/MS INSTRUMENT
PERFORMANCE CHECK

Lab File ID: 0922_03-1
Instrument ID: VOCMS13
Analysis Date/Time: 09/22/17 04:58

SDG: L937868
Analytical Method: 8260C

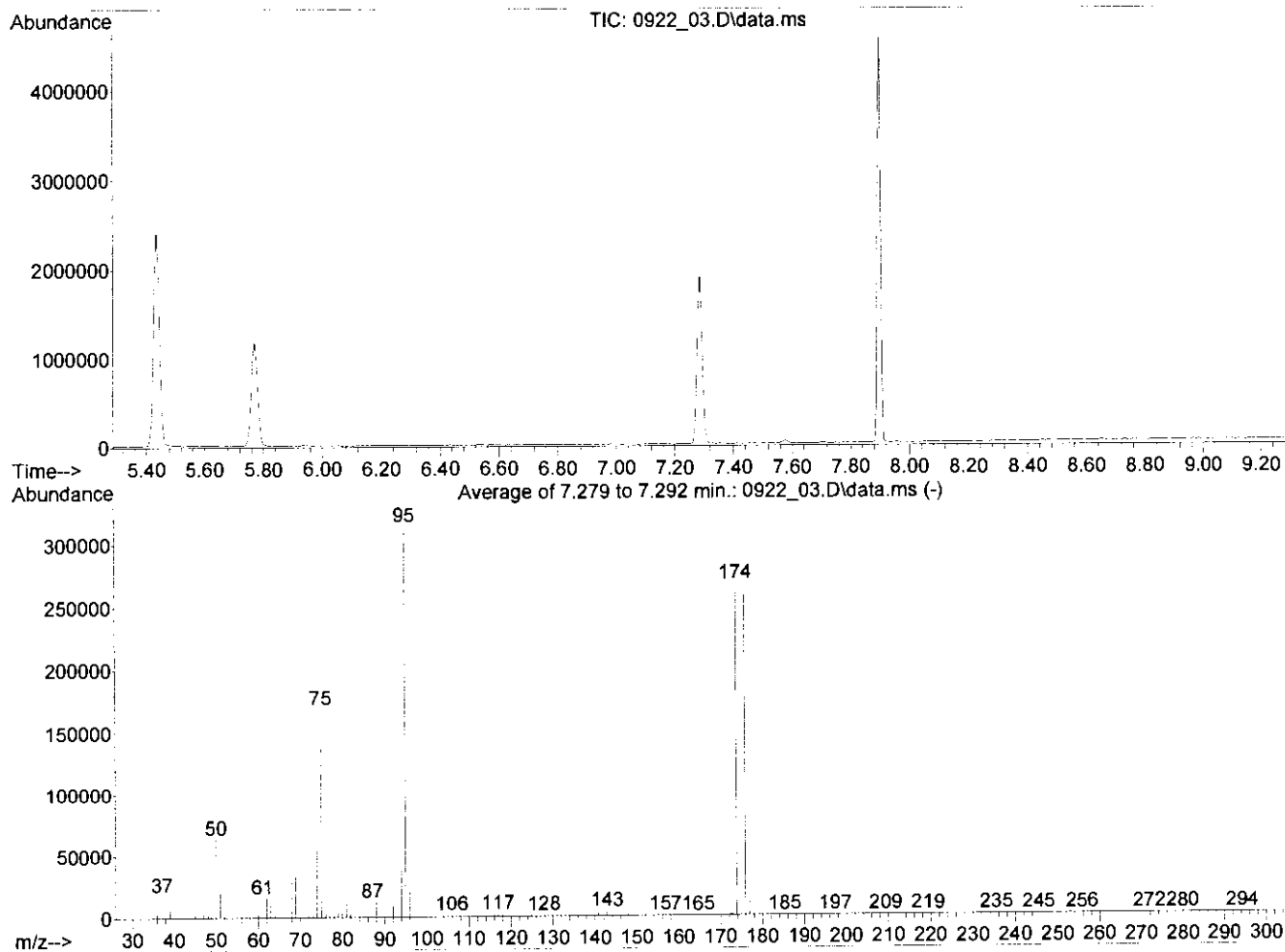
Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
173	174	0	2	0
174	95	50	100	84
175	174	5	9	7
176	174	95	101	97
177	176	5	9	6
50	95	15	40	20
75	95	30	60	53
95	95	100	100	100
96	95	5	9	6

Sample ID	ESC Sample ID	File ID	Analysis date/time
STD-0.25	0.25	0922_04	09/22/17 06:55
STD-0.5	0.5	0922_05	09/22/17 07:14
STD-1	1	0922_06	09/22/17 07:33
STD-2	2	0922_07	09/22/17 07:53
STD-5.0	5.0	0922_08	09/22/17 08:13
STD-10	10	0922_09	09/22/17 08:32
STD-25	25	0922_10	09/22/17 08:51
STD-40	40	0922_11	09/22/17 09:11
STD-75	75	0922_12	09/22/17 09:30
STD-100	100	0922_13	09/22/17 09:50
STD-200	200	0922_14	09/22/17 10:09
SSCV	VOCMS130922170922_17-1	0922_17-1	09/22/17 11:07 ✓

Data Path : C:\msdchem\1\data\092217\
 Data File : 0922_03.D
 Acq On : 22 Sep 2017 4:58 am
 Operator : 605
 Sample : INSTBLK
 Misc : water IS/SURR 17H10686
 ALS Vial : 3 Sample Multiplier: 1

Integration File: RTEINTLRH.P

Method : C:\msdchem\1\methods\V813I22Q.M
 Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
 Last Update : Fri Sep 22 10:59:34 2017



AutoFind: Scans 1183, 1184, 1185; Background Corrected with Scan 1177

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.1	63608	PASS
75	95	30	60	53.2	168533	PASS
95	95	100	100	100.0	316928	PASS
96	95	5	9	6.5	20554	PASS
173	174	0.00	2	0.5	1325	PASS
174	95	50	100	84.4	267413	PASS
175	174	5	9	7.2	19341	PASS
176	174	95	101	96.6	258283	PASS
177	176	5	9	6.5	16863	PASS

GC/MS INSTRUMENT
PERFORMANCE CHECK

Lab File ID: 0922_18T-1
Instrument ID: VOCMS13
Analysis Date/Time: 09/22/17 13:13

SDG: L937868
Analytical Method: 8260C

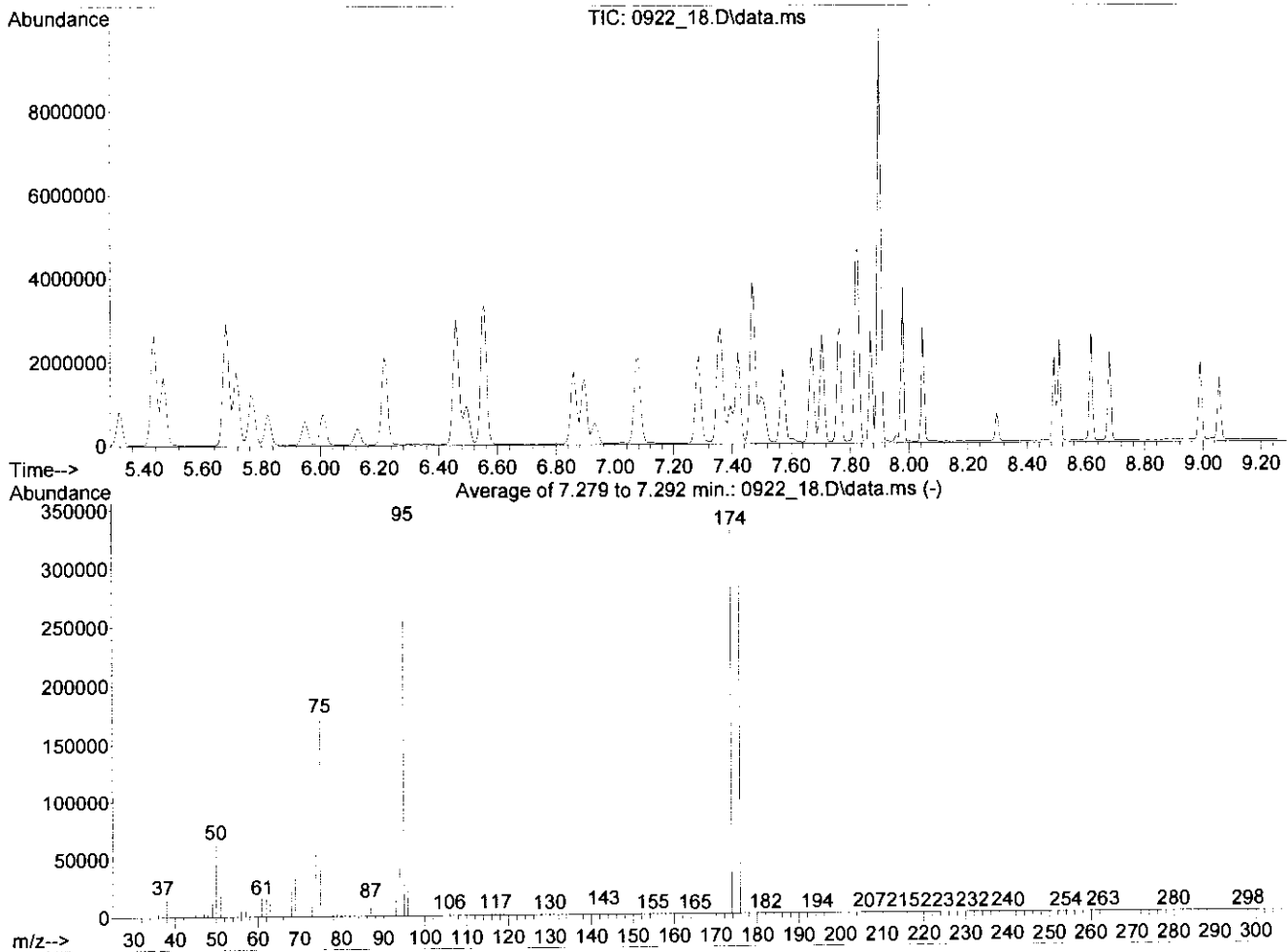
Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
173	174	0	2	0
174	95	50	100	98
175	174	5	9	7
176	174	95	101	96
177	176	5	9	6
50	95	15	40	19
75	95	30	60	51
95	95	100	100	100
96	95	5	9	6

Sample ID	ESC Sample ID	File ID	Analysis date/time
ICV	VOCMS130922170922_18-1	0922_18-1	09/22/17 13:13
LCS	R3251791-1	0922_19	09/22/17 13:32
BLANK	R3251791-2	0922_21	09/22/17 14:11
FIELD DUPLICATE	L937868-01	0922_25	09/22/17 15:29
OS	L937868-02	0922_26	09/22/17 15:48
RMW-4	L937868-02	0922_26	09/22/17 15:48
WELL-09	L937868-03	0922_27	09/22/17 16:08
RMW-3	L937868-04	0922_28	09/22/17 16:27
RMW-9	L937868-05	0922_29	09/22/17 16:46
MS	R3251791-3	0922_45	09/22/17 21:57
MSD	R3251791-4	0922_46	09/22/17 22:16 ✓

Data Path : C:\msdchem\1\data\092217\
 Data File : 0922_18.D
 Acq On : 22 Sep 2017 1:13 pm
 Operator : 605
 Sample : ICV VMS 25 ppb
 Misc : water
 ALS Vial : 18 Sample Multiplier: 1

Integration File: RTEINTLRH.P

Method : C:\msdchem\1\methods\V813I22Q.M
 Title : Env. Science Corp. 8260B/6210D/624 - VOCMS13
 Last Update : Fri Sep 22 10:59:34 2017



AutoFind: Scans 1183, 1184, 1185; Background Corrected with Scan 1176

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.7	63485	PASS
75	95	30	60	51.1	173293	PASS
95	95	100	100	100.0	339159	PASS
96	95	5	9	6.5	21983	PASS
173	174	0.00	2	0.4	1416	PASS
174	95	50	100	97.7	331307	PASS
175	174	5	9	7.2	23808	PASS
176	174	95	101	95.8	317355	PASS
177	176	5	9	6.4	20359	PASS

INTERNAL STANDARD
AND RETENTION TIME

SDG: L937868
Instrument ID: VOCMS13
Std File: 0922_18-1

Analytical Method: 8260C
Calibration Start Date: 07/21/17 20:27
Calibration End Date: 09/22/17 10:09
Std Analysis Date: 09/22/17 13:13

Sample ID	File ID	1,4-DCB		DFB		BCP		PFB	
		Response	RT	Response	RT	Response	RT	Response	RT
STANDARD		595295	7.90	1160905	4.61	196130	5.76	797649	4.29
UPPER LIMIT		1190000		2320000		392000		1600000	
LOWER LIMIT		298000		580000		98100		399000	
LCS R3251791-1 WG1023529 1x	0922_19	614909	✓ 7.90	1170468	✓ 4.61	204145	✓ 5.77	802009	✓ 4.29
BLANK R3251791-2 WG1023529 1x	0922_21	569695	7.90	1078098	4.61	185192	5.77	708100	4.29
L937868-01 WG1023529 1x	0922_25	542285	7.90	988589	4.61	174534	5.77	656971	4.29
L937868-02 WG1023529 1x	0922_26	557142	7.90	1025373	4.61	181109	5.77	676157	4.29
OS L937868-02 WG1023529 1x	0922_26	557142	7.90	1025373	4.61	181109	5.77	676157	4.29
L937868-03 WG1023529 1x	0922_27	523693	7.90	979806	4.61	170893	5.77	658736	4.29
L937868-04 WG1023529 1x	0922_28	545640	7.90	968245	4.61	174397	5.77	640814	4.29
L937868-05 WG1023529 1x	0922_29	518213	7.90	951809	4.61	167148	5.77	640642	4.29
MS R3251791-3 WG1023529 1x	0922_45	531679	7.90	967307	4.61	166411	5.77	666634	4.29
MSD R3251791-4 WG1023529 1x	0922_46	553168	7.90	1014851	4.61	175334	5.77	715366	4.29

1,4-DCB - 8260-1,4-DICHLOROBENZENE-D4
BCP - 8260-2-BROMO-1-CHLOROPROPANE

DFB - 8260-1,4-DIFLUOROBENZENE
PFB - 8260-PENTAFLUOROBENZENE

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEETONE LAB. NATIONWIDE. SAMPLE NO.:
FIELD DUPLICATE

ESC Sample ID: L937868-01
Client Sample ID: FIELD DUPLICATE
Lab File ID: 20170926083449
Instrument ID: ICP12
Analytical Batch: WG1024391
Dilution Factor: 1
Analytical Method: 6010C
Matrix: GW
Total Solids (%):

SDG: L937868
Collected Date/Time: 09/18/17 00:00
Received Date/Time: 09/20/17 08:45
Preparation Date/Time: 09/25/17 18:34
Analysis Date/Time: 09/26/17 08:34
Prep Method: 3015
Sample Vol Used: _____
Initial Wt/Vol: 45 mL
Final Wt/Vol: 50 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		ug/l		ug/l	ug/l	ug/l
Selenium	7782-49-2	ND		7.40	10.0	10.0



1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEETONE LAB. NATIONWIDE. SAMPLE NO.:
FIELD DUPLICATE

ESC Sample ID: L937868-01
Client Sample ID: FIELD DUPLICATE
Lab File ID: 20170926014327
Instrument ID: ICP13
Analytical Batch: WG1024391
Dilution Factor: 1
Analytical Method: 6010C
Matrix: GW
Total Solids (%):

SDG: L937868
Collected Date/Time: 09/18/17 00:00
Received Date/Time: 09/20/17 08:45
Preparation Date/Time: 09/25/17 18:34
Analysis Date/Time: 09/26/17 01:43
Prep Method: 3015
Sample Vol Used: _____
Initial Wt/Vol: 45 mL
Final Wt/Vol: 50 mL

Analyte	CAS	Result ug/l	Qualifier	SDL ug/l	Unadj. MQL ug/l	MQL ug/l
Arsenic	7440-38-2	ND		6.50	10.0	10.0
Barium	7440-39-3	54.1		1.70	5.00	5.00
Cadmium	7440-43-9	ND		0.700	2.00	2.00
Chromium	7440-47-3	ND		1.40	10.0	10.0
Lead	7439-92-1	5.40		1.90	5.00	5.00
Silver	7440-22-4	ND		2.80	5.00	5.00



1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEETONE LAB. NATIONWIDE. SAMPLE NO.:
FIELD DUPLICATE

ESC Sample ID: L937868-01
Client Sample ID: FIELD DUPLICATE
Lab File ID: 20170926202806
Instrument ID: CVAA5
Analytical Batch: WG1022948
Dilution Factor: 1
Analytical Method: 7470A
Matrix: GW
Total Solids (%):

SDG: L937868
Collected Date/Time: 09/18/17 00:00
Received Date/Time: 09/20/17 08:45
Preparation Date/Time: 09/26/17 11:45
Analysis Date/Time: 09/26/17 20:28
Prep Method: 7470A
Sample Vol Used: _____
Initial Wt/Vol: 30 mL
Final Wt/Vol: 30.0 mL

Analyte	CAS	Result ug/l	Qualifier	SDL ug/l	Unadj. MQL ug/l	MQL ug/l
Mercury	7439-97-6	ND		0.0490	0.200	0.200



1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEETONE LAB. NATIONWIDE. 

SAMPLE NO.:

RMW-4

ESC Sample ID: L937868-02
Client Sample ID: RMW-4
Lab File ID: 20170926082442
Instrument ID: ICP12
Analytical Batch: WG1024391
Dilution Factor: 1
Analytical Method: 6010C
Matrix: GW
Total Solids (%):

SDG: L937868
Collected Date/Time: 09/18/17 12:15
Received Date/Time: 09/20/17 08:45
Preparation Date/Time: 09/25/17 18:34
Analysis Date/Time: 09/26/17 08:24
Prep Method: 3015
Sample Vol Used: _____
Initial Wt/Vol: 45 mL
Final Wt/Vol: 50 mL

Analyte	CAS	Result ug/l	Qualifier	SDL ug/l	Unadj. MQL ug/l	MQL ug/l
Selenium	7782-49-2	ND		7.40	10.0	10.0



1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

ONE LAB. NATIONWIDE.



SAMPLE NO.:

RMW-4

ESC Sample ID: L937868-02
Client Sample ID: RMW-4
Lab File ID: 20170926013333
Instrument ID: ICP13
Analytical Batch: WG1024391
Dilution Factor: 1
Analytical Method: 6010C
Matrix: GW
Total Solids (%):

SDG: L937868
Collected Date/Time: 09/18/17 12:15
Received Date/Time: 09/20/17 08:45
Preparation Date/Time: 09/25/17 18:34
Analysis Date/Time: 09/26/17 01:33
Prep Method: 3015
Sample Vol Used: _____
Initial Wt/Vol: 45 mL
Final Wt/Vol: 50 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		ug/l		ug/l	ug/l	ug/l
Arsenic	7440-38-2	19.5		6.50	10.0	10.0
Barium	7440-39-3	11.0		1.70	5.00	5.00
Cadmium	7440-43-9	ND		0.700	2.00	2.00
Chromium	7440-47-3	ND		1.40	10.0	10.0
Lead	7439-92-1	7.10		1.90	5.00	5.00
Silver	7440-22-4	ND		2.80	5.00	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

ESC Sample ID: L937868-02
Client Sample ID: RMW-4
Lab File ID: 20170926202116
Instrument ID: CVAA5
Analytical Batch: WG1022948
Dilution Factor: 1
Analytical Method: 7470A
Matrix: GW
Total Solids (%):

SDG: L937868
Collected Date/Time: 09/18/17 12:15
Received Date/Time: 09/20/17 08:45
Preparation Date/Time: 09/26/17 11:45
Analysis Date/Time: 09/26/17 20:21
Prep Method: 7470A
Sample Vol Used: _____
Initial Wt/Vol: 30 mL
Final Wt/Vol: 30.0 mL

Analyte	CAS	Result <i>ug/l</i>	Qualifier	SDL <i>ug/l</i>	Unadj. MQL <i>ug/l</i>	MQL <i>ug/l</i>
Mercury	7439-97-6	ND		0.0490	0.200	0.200



1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEETONE LAB. NATIONWIDE. 

SAMPLE NO.:

WELL-09

ESC Sample ID: L937868-03
Client Sample ID: WELL-09
Lab File ID: 20170926083725
Instrument ID: ICP12
Analytical Batch: WG1024391
Dilution Factor: 1
Analytical Method: 6010C
Matrix: GW
Total Solids (%):

SDG: L937868
Collected Date/Time: 09/18/17 15:55
Received Date/Time: 09/20/17 08:45
Preparation Date/Time: 09/25/17 18:34
Analysis Date/Time: 09/26/17 08:37
Prep Method: 3015
Sample Vol Used: _____
Initial Wt/Vol: 45 mL
Final Wt/Vol: 50 mL

Analyte	CAS	Result <i>ug/l</i>	Qualifier	SDL <i>ug/l</i>	Unadj. MQL <i>ug/l</i>	MQL <i>ug/l</i>
Selenium	7782-49-2	ND		7.40	10.0	10.0



1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

ONE LAB. NATIONWIDE.



SAMPLE NO.:

WELL-09

ESC Sample ID: L937868-03
Client Sample ID: WELL-09
Lab File ID: 20170926014602
Instrument ID: ICP13
Analytical Batch: WG1024391
Dilution Factor: 1
Analytical Method: 6010C
Matrix: GW
Total Solids (%):

SDG: L937868
Collected Date/Time: 09/18/17 15:55
Received Date/Time: 09/20/17 08:45
Preparation Date/Time: 09/25/17 18:34
Analysis Date/Time: 09/26/17 01:46
Prep Method: 3015
Sample Vol Used: _____
Initial Wt/Vol: 45 mL
Final Wt/Vol: 50 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		ug/l		ug/l	ug/l	ug/l
Arsenic	7440-38-2	ND		6.50	10.0	10.0
Barium	7440-39-3	54.4		1.70	5.00	5.00
Cadmium	7440-43-9	ND		0.700	2.00	2.00
Chromium	7440-47-3	ND		1.40	10.0	10.0
Lead	7439-92-1	ND		1.90	5.00	5.00
Silver	7440-22-4	ND		2.80	5.00	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:

WELL-09

ESC Sample ID: L937868-03
Client Sample ID: WELL-09
Lab File ID: 20170926203027
Instrument ID: CVAA5
Analytical Batch: WG1022948
Dilution Factor: 1
Analytical Method: 7470A
Matrix: GW
Total Solids (%):

SDG: L937868
Collected Date/Time: 09/18/17 15:55
Received Date/Time: 09/20/17 08:45
Preparation Date/Time: 09/26/17 11:45
Analysis Date/Time: 09/26/17 20:30
Prep Method: 7470A
Sample Vol Used: _____
Initial Wt/Vol: 30 mL
Final Wt/Vol: 30.0 mL

Analyte	CAS	Result ug/l	Qualifier	SDL ug/l	Unadj. MQL ug/l	MQL ug/l
Mercury	7439-97-6	ND		0.0490	0.200	0.200

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:

RMW-3

ESC Sample ID: L937868-04
Client Sample ID: RMW-3
Lab File ID: 20170926084002
Instrument ID: ICP12
Analytical Batch: WG1024391
Dilution Factor: 1
Analytical Method: 6010C
Matrix: GW
Total Solids (%):

SDG: L937868
Collected Date/Time: 09/18/17 14:30
Received Date/Time: 09/20/17 08:45
Preparation Date/Time: 09/25/17 18:34
Analysis Date/Time: 09/26/17 08:40
Prep Method: 3015
Sample Vol Used: _____
Initial Wt/Vol: 45 mL
Final Wt/Vol: 50 mL

Analyte	CAS	Result ug/l	Qualifier	SDL ug/l	Unadj. MQL ug/l	MQL ug/l
Selenium	7782-49-2	ND		7.40	10.0	10.0

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

ONE LAB. NATIONWIDE.



SAMPLE NO.:

RMW-3

ESC Sample ID: L937868-04
Client Sample ID: RMW-3
Lab File ID: 20170926014837
Instrument ID: ICP13
Analytical Batch: WG1024391
Dilution Factor: 1
Analytical Method: 6010C
Matrix: GW
Total Solids (%):

SDG: L937868
Collected Date/Time: 09/18/17 14:30
Received Date/Time: 09/20/17 08:45
Preparation Date/Time: 09/25/17 18:34
Analysis Date/Time: 09/26/17 01:48
Prep Method: 3015
Sample Vol Used: _____
Initial Wt/Vol: 45 mL
Final Wt/Vol: 50 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		ug/l		ug/l	ug/l	ug/l
Arsenic	7440-38-2	ND		6.50	10.0	10.0
Barium	7440-39-3	49.3		1.70	5.00	5.00
Cadmium	7440-43-9	ND		0.700	2.00	2.00
Chromium	7440-47-3	ND		1.40	10.0	10.0
Lead	7439-92-1	5.13		1.90	5.00	5.00
Silver	7440-22-4	ND		2.80	5.00	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

ESC Sample ID: L937868-04
Client Sample ID: RMW-3
Lab File ID: 20170926203933
Instrument ID: CVAA5
Analytical Batch: WG1022948
Dilution Factor: 1
Analytical Method: 7470A
Matrix: GW
Total Solids (%):

SDG: L937868
Collected Date/Time: 09/18/17 14:30
Received Date/Time: 09/20/17 08:45
Preparation Date/Time: 09/26/17 11:45
Analysis Date/Time: 09/26/17 20:39
Prep Method: 7470A
Sample Vol Used: _____
Initial Wt/Vol: 30 mL
Final Wt/Vol: 30.0 mL

Analyte	CAS	Result ug/l	Qualifier	SDL ug/l	Unadj. MQL ug/l	MQL ug/l
Mercury	7439-97-6	ND		0.0490	0.200	0.200



1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

ONE LAB. NATIONWIDE.



SAMPLE NO.:

RMW-9

ESC Sample ID: L937868-05
Client Sample ID: RMW-9
Lab File ID: 20170926084749
Instrument ID: ICP12
Analytical Batch: WG1024391
Dilution Factor: 1
Analytical Method: 6010C
Matrix: GW
Total Solids (%):

SDG: L937868
Collected Date/Time: 09/18/17 11:20
Received Date/Time: 09/20/17 08:45
Preparation Date/Time: 09/25/17 18:34
Analysis Date/Time: 09/26/17 08:47
Prep Method: 3015
Sample Vol Used: _____
Initial Wt/Vol: 45 mL
Final Wt/Vol: 50 mL

Analyte	CAS	Result ug/l	Qualifier	SDL ug/l	Unadj. MQL ug/l	MQL ug/l
Selenium	7782-49-2	ND		7.40	10.0	10.0

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

ONE LAB. NATIONWIDE.



SAMPLE NO.:

RMW-9

ESC Sample ID: L937868-05
Client Sample ID: RMW-9
Lab File ID: 20170926020540
Instrument ID: ICP13
Analytical Batch: WG1024391
Dilution Factor: 1
Analytical Method: 6010C
Matrix: GW
Total Solids (%):

SDG: L937868
Collected Date/Time: 09/18/17 11:20
Received Date/Time: 09/20/17 08:45
Preparation Date/Time: 09/25/17 18:34
Analysis Date/Time: 09/26/17 02:05
Prep Method: 3015
Sample Vol Used: _____
Initial Wt/Vol: 45 mL
Final Wt/Vol: 50 mL

Analyte	CAS	Result	Qualifier	SDL	Unadj. MQL	MQL
		ug/l		ug/l	ug/l	ug/l
Arsenic	7440-38-2	ND		6.50	10.0	10.0
Barium	7440-39-3	102		1.70	5.00	5.00
Cadmium	7440-43-9	ND		0.700	2.00	2.00
Chromium	7440-47-3	ND		1.40	10.0	10.0
Lead	7439-92-1	ND		1.90	5.00	5.00
Silver	7440-22-4	ND		2.80	5.00	5.00

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:

RMW-9

ESC Sample ID: L937868-05
Client Sample ID: RMW-9
Lab File ID: 20170926204149
Instrument ID: CVAA5
Analytical Batch: WG1022948
Dilution Factor: 1
Analytical Method: 7470A
Matrix: GW
Total Solids (%):

SDG: L937868
Collected Date/Time: 09/18/17 11:20
Received Date/Time: 09/20/17 08:45
Preparation Date/Time: 09/26/17 11:45
Analysis Date/Time: 09/26/17 20:41
Prep Method: 7470A
Sample Vol Used:
Initial Wt/Vol: 30 mL
Final Wt/Vol: 30.0 mL

Analyte	CAS	Result ug/l	Qualifier	SDL ug/l	Unadj. MQL ug/l	MQL ug/l
Mercury	7439-97-6	ND		0.0490	0.200	0.200



SDG: L937868
Instrument ID: ICP12
Analytical Method: 6010C
Concentration Units: mg/l

Calibration (begin) date/time: 09/26/17 07:03
Calibration (end) date/time: 09/26/17 07:19
Analytical Run: 092617ICP12

		ICV				CCV				ICVLL			
Sample ID:		ICP120926170722				ICP120926170727				ICP120926170732			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD	
SELENIUM	1	0.9485666	95	0.786000	1	0.9891038	99	0.655000	0.01	0.01067254	107	16.100000	

ICV Limits: 90 - 110

CCV Limits: 90 - 110

ICVLL Limits: 70 - 130

CCVLL Limits: 70 - 130



SDG: L937868
Instrument ID: ICP12
Analytical Method: 6010C
Concentration Units: mg/l

Calibration (begin) date/time: 09/26/17 07:03
Calibration (end) date/time: 09/26/17 07:19
Analytical Run: 092617ICP12

		CCV				CCV				CCVLL			
Sample ID:		ICP120926170842				ICP120926170858				ICP120926170940			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD	
SELENIUM	1	1.026209	103 ✓	0.772000	1	1.022952	102 ✓	0.887000	0.01	0.008011193	80 ✓	57.100000	

ICV Limits: 90 - 110

CCV Limits: 90 - 110

ICVLL Limits: 70 - 130

CCVLL Limits: 70 - 130

ACCOUNT:
LaBella Associates, P.C.

PROJECT:
2151305

SDG:
L937868

DATE/TIME:
10/13/17 11:29

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SDG: L937868
 Instrument ID: ICP13
 Analytical Method: 6010C
 Concentration Units: mg/l

Calibration (begin) date/time: 09/25/17 23:34
 Calibration (end) date/time: 09/25/17 23:49
 Analytical Run: 092517ICP13

Sample ID:	ICV				CCV				ICVLL			
	ICP130925172351				ICP130926170023				ICP130926170039			
Analyte	True	Found	%R ✓	%RSD	True	Found	%R ✓	%RSD	True	Found	%R ✓	%RSD
ARSENIC	1	0.9551772	96 ✓	0.796000	1	0.9828217	98 ✓	0.605000	0.01	0.007322984	73 ✓	26.500000
BARIUM	1	1.012576	101	0.278000	0.50	0.500693	100	0.353000	0.0050	0.005193007	104	2.320000
CADMIUM	1	0.9623131	96	0.157000	0.50	0.4937524	99	0.139000	0.0020	0.001739267	87	2.500000
CHROMIUM	1	0.9777869	98	0.491000	1	0.9640876	96	0.497000	0.01	0.00915749	92	5.180000
LEAD	1	0.9596545	96	0.817000	0.50	0.4821512	96	0.512000	0.0050	0.00624252 2	125	12.800000
SILVER	1	0.9585576	96	0.343000	0.50	0.4819418	96	0.373000	0.0050	0.005181434	104	6.790000

ICV Limits: 90 - 110

CCV Limits: 90 - 110

ICVLL Limits: 70 - 130

CCVLL Limits: 70 - 130



SDG: L937868
 Instrument ID: ICP13
 Analytical Method: 6010C
 Concentration Units: mg/l

Calibration (begin) date/time: 09/25/17 23:34
 Calibration (end) date/time: 09/25/17 23:49
 Analytical Run: 092517ICP13

Sample ID:	CCV				CCV				CCVLL			
	ICP130926170150				ICP130926170215				ICP130926170348			
Analyte	True	Found	%R ✓	%RSD	True	Found	%R ✓	%RSD	True	Found	%R ✓	%RSD
ARSENIC	1	0.9879744	99	0.442000	1	0.9850161	99	0.140000	0.01	0.008884876	89	6.440000
BARIUM	0.50	0.5016944	100	0.225000	0.50	0.500826	100	0.134000	0.0050	0.005164454	103	3.580000
CADMIUM	0.50	0.4935139	99	0.117000	0.50	0.4940345	99	0.140000	0.0020	0.002068977	103	7.990000
CHROMIUM	1	0.9635137	96	0.278000	1	0.9631807	96	0.348000	0.01	0.009889437	99	3.650000
LEAD	0.50	0.4814299	96	0.305000	0.50	0.4815269	96	0.379000	0.0050	0.006057689	121	13.300000
SILVER	0.50	0.4829561	97	0.122000	0.50	0.4813414	96	0.422000	0.0050	0.004845483	97	16.000000

ICV Limits: 90 - 110

CCV Limits: 90 - 110

ICVLL Limits: 70 - 130

CCVLL Limits: 70 - 130

ACCOUNT:
 LaBella Associates, P.C.

PROJECT:
 2151305

SDG:
 L937868

DATE/TIME:
 10/13/17 11:29

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SDG: L937868
Instrument ID: ICP12
Analytical Method: 6010C

Calibration (begin) date/time: 09/26/17 07:03
Calibration (end) date/time: 09/26/17 07:19
Analytical Run: 092617ICP12

	Sample ID:	ICB Result	ICB Qual	CCB Result	CCB Qual	BLANK Result	BLANK Qual	CCB Result	CCB Qual
	File ID:	20170926072442		20170926072951		20170926081712		20170926084512	
Analyte		mg/l		mg/l		mg/l		mg/l	
SELENIUM		0.004665303	U ✓	0.0009603793	U ✓	ND ✓		-0.002686899	U ✓

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:

R3252254-1

ESC Sample ID: R3252254-1
Client Sample ID: BLANK
Lab File ID: 20170926081712
Instrument ID: ICP12
Analytical Batch: WG1024391
Dilution Factor: 1
Analytical Method: 6010C
Matrix: GW
Total Solids (%):

SDG: L937868
Collected Date/Time:
Received Date/Time:
Preparation Date/Time: 09/25/17 18:33
Analysis Date/Time: 09/26/17 08:17
Prep Method: 3015
Sample Vol Used:
Initial Wt/Vol: 45 mL
Final Wt/Vol: 50 mL

Analyte	CAS	Result ug/l	Qualifier	SDL ug/l	Unadj. MQL ug/l	MQL ug/l
Selenium	7782-49-2	U ✓		7.40	10.0	10.0



SDG: L937868
Instrument ID: ICP12
Analytical Method: 6010C

Calibration (begin) date/time: 09/26/17 07:03
Calibration (end) date/time: 09/26/17 07:19
Analytical Run: 092617/ICP12

Sample ID: CCB Result CCB Qual
File ID: 20170926090058
Analyte mg/l
SELENIUM -0.004130573 U ✓



SDG: L937868
Instrument ID: ICP13
Analytical Method: 6010C

Calibration (begin) date/time: 09/25/17 23:34
Calibration (end) date/time: 09/25/17 23:49
Analytical Run: 092517ICP13

	Sample ID:	ICB Result	ICB Qual	CCB Result	CCB Qual	BLANK Result	BLANK Qual	CCB Result	CCB Qual
	File ID:	20170926001547		20170926002559		20170926012618		20170926015340	
Analyte		mg/l		mg/l		mg/l		mg/l	
ARSENIC		-0.006007002	U ✓	-0.00333273	U ✓	ND ✓		-0.001904168	U ✓
BARIUM		0.0006449749	U	-0.00001087766	U	ND		-0.0000040034	U
								1	
CADMIUM		0.0001985126	U	0.0001129638	U	ND		0.00001913252	U
CHROMIUM		-0.0006260654	U	-0.0003980397	U	ND		-0.0006646893	U
LEAD		0.0008957018	U	0.001739837	U	ND		0.0008937787	U
SILVER		0.0002022034	U	0.0003632195	U	ND		0.0009760422	U

1-IN

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

ONE LAB. NATIONWIDE.



SAMPLE NO.:

R3252190-1

ESC Sample ID: R3252190-1
Client Sample ID: BLANK
Lab File ID: 20170926012618
Instrument ID: ICP13
Analytical Batch: WG1024391
Dilution Factor: 1
Analytical Method: 6010C
Matrix: GW
Total Solids (%):

SDG: L937868
Collected Date/Time:
Received Date/Time:
Preparation Date/Time: 09/25/17 18:33
Analysis Date/Time: 09/26/17 01:26
Prep Method: 3015
Sample Vol Used:
Initial Wt/Vol: 45 mL
Final Wt/Vol: 50 mL

Analyte	CAS	Result ug/l	Qualifier	SDL ug/l	Unadj. MQL ug/l	MQL ug/l
Arsenic	7440-38-2	U		6.50	10.0	10.0
Barium	7440-39-3	U		1.70	5.00	5.00
Cadmium	7440-43-9	U		0.700	2.00	2.00
Chromium	7440-47-3	U		1.40	10.0	10.0
Lead	7439-92-1	U		1.90	5.00	5.00
Silver	7440-22-4	U		2.80	5.00	5.00



SDG: L937868
Instrument ID: ICP13
Analytical Method: 6010C

Calibration (begin) date/time: 09/25/17 23:34
Calibration (end) date/time: 09/25/17 23:49
Analytical Run: 092517ICP13

Sample ID: CCB Result CCB Qual

File ID: 20170926021837

Analyte	mg/l	
ARSENIC	-0.002351739	U ✓
BARIUM	0.0002045484	U
CADMIUM	0.0001685926	U
CHROMIUM	-0.00007117706	U
LEAD	0.00117429	U
SILVER	0.0005840414	U



SDG: L937868
Instrument ID: ICP12
Instrument Run: 092617ICP12

Analytical Method:
Date:

6010C
09/26/17 07:58

Analyte	True	Found		True	Found	
	ICSA mg/l	ICSA mg/l	ICSA % Rec.	ICSAB mg/l	ICSAB mg/l	ICSAB % Rec.
ALUMINUM	500	505.9111	101	500	508.883	102
ANTIMONY	0	0.01242044		0.50	0.517936	104
ARSENIC	0	-0.02466335		0.50	0.465275	93
BARIUM	0	0.002575914		0.50	0.4828386	97
BERYLLIUM	0	-0.00003288955		0.50	0.4966586	99
BORON	0	-0.08375189		1	0.8794557	88
CADMIUM	0	0.0002245735		1	1.006886	101
CALCIUM	500	504.8714	101	500	509.3395	102
CE	0	0.07690767		0	0.04534752	
CHROMIUM	0	0.003243619		0.50	0.462483	92
COBALT	0	0.0006068797		0.50	0.5052491	101
COPPER	0	0.006201283		0.50	0.5263134	105
IRON	200	200.7783	100	200	200.4616	100
LEAD	0	-0.03120537		1	0.9313345	93
LITHIUM	0	0.00265231		0	0.004221	
MAGNESIUM	500	511.164	102	500	513.6429	103
MANGANESE	0	0.003844715		0.50	0.469358	94
MOLYBDENUM	0	-0.00104344		0.50	0.4790177	96
NICKEL	0	0.008818885		1	0.9978804	100
PHOSPHORUS	0	0.008935799		0	0.008286891	
POTASSIUM	0	0.009910774		0	0.03610447	
SELENIUM	0	0.006920024		0.50	0.5080499	102
SILICON	0	-0.009648991		1	0.9518137	95
SILVER	0	0.002506465		1	1.032344	103
SODIUM	0	0.02115249		0	0.01725618	
STRONTIUM	0	0.01792457		0	0.01770894	
SULFUR	0	0.05456931		0	0.06268254	
THALLIUM	0	-0.005337759		0.50	0.4693412	94
TIN	0	-0.01200858		0.50	0.4914829	98
TITANIUM	0	0.01795767		0.50	0.5104652	102
VANADIUM	0	0.001361833		0.50	0.502117	100
ZINC	0	0.007195119		1	0.9055411	91

ICSA Limits: 80 - 120

ICSAB Limits: 80 - 120

ACCOUNT:
LaBella Associates, P.C.

PROJECT:
2151305

SDG:
L937868

DATE/TIME:
10/13/17 11:29

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SDG: L937868
Instrument ID: ICP12
Instrument Run: 092617ICP12

Analytical Method: 6010C
Date: 09/26/17 10:55

Analyte	True	Found		True	Found	
	ICSA mg/l	ICSA mg/l	ICSA % Rec.	ICSAB mg/l	ICSAB mg/l	ICSAB % Rec.
ALUMINIUM	500	527.2189	105 ✓	500	529.4551	106
ANTIMONY	0	0.0142423		0.50	0.5376682	108
ARSENIC	0	-0.0353439		0.50	0.4892862	98
BARIUM	0	0.002891777		0.50	0.506923	101
BERYLLIUM	0	0.00009457632		0.50	0.5194197	104
BORON	0	-0.08939418		1	0.9093052	91
CADMIUM	0	0.0004830598		1	1.058667	106
CALCIUM	500	523.1522	105	500	525.1987	105
CE	0	0.05824952		0	0.05889528	
CHROMIUM	0	0.002496374		0.50	0.4821816	96
COBALT	0	0.0007683067		0.50	0.5269594	105
COPPER	0	0.006157805		0.50	0.5500593	110
IRON	200	208.5395	104	200	208.6264	104
LEAD	0	-0.03248023		1	0.97498	97
LITHIUM	0	0.003323114		0	0.003245446	
MAGNESIUM	500	534.9947	107	500	535.6087	107
MANGANESE	0	0.003971416		0.50	0.484668	97
MOLYBDENUM	0	-0.0005397276		0.50	0.4988233	100
NICKEL	0	0.008304626		1	1.042362	104
PHOSPHORUS	0	0.006533748		0	0.006878559	
POTASSIUM	0	-0.03442426		0	-0.004721949	
SELENIUM	0	0.006568233		0.50	0.5265024	105 ✓
SILICON	0	-0.008350828		1	0.9920495	99
SILVER	0	0.003185704		1	1.073019	107
SODIUM	0	0.02397477		0	0.02958723	
STRONTIUM	0	0.01867145		0	0.01888714	
SULFUR	0	0.05689743		0	0.06539709	
THALLIUM	0	-0.001183701		0.50	0.4882867	98
TIN	0	-0.01207853		0.50	0.506122	101
TITANIUM	0	0.02043128		0.50	0.5382052	108
VANADIUM	0	0.001589252		0.50	0.5178686	104
ZINC	0	0.007319774		1	0.9395255	94

ICSA Limits: 80 - 120

ICSAB Limits: 80 - 120



SDG: L937868
Instrument ID: ICP13
Instrument Run: 092517ICP13

Analytical Method: 6010C
Date: 09/26/17 00:46

Analyte	True	Found		True	Found	
	ICSA mg/l	ICSA mg/l	ICSA % Rec.	ICSAB mg/l	ICSAB mg/l	ICSAB % Rec.
ALUMINUM	500	493.2049	99 ✓	500	492.6309	99
ANTIMONY	0	0.01145257		0.50	0.4977791	100
ARSENIC	0	-0.01302694		0.50	0.4888186	98 ✓
BARIUM	0	0.002635581		0.50	0.4826111	97 ✓
BERYLLIUM	0	0.00002968506		0.50	0.4856526	97
BORON	0	-0.1082221		1	0.8557894	86
CADMIUM	0	0.0003330074		1	1.000006	100 ✓
CALCIUM	500	493.952	99	500	492.3491	98
CE	0	-0.03803997		0	-0.02772285	
CHROMIUM	0	0.002749225		0.50	0.4651227	93 ✓
COBALT	0	0.0003852113		0.50	0.5007055	100
COPPER	0	-0.005065709		0.50	0.5049099	101
IRON	200	197.1317	99	200	196.4659	98
LEAD	0	-0.02702935		1	0.9216996	92 ✓
LITHIUM	0	0.00687072		0	0.006945022	
MAGNESIUM	500	499.8195	100	500	498.3604	100
MANGANESE	0	0.003809434		0.50	0.4651505	93
MOLYBDENUM	0	-0.000374005		0.50	0.479905	96
NICKEL	0	0.004325788		1	0.9784757	98
POTASSIUM	0	0.004033991		0	0.0279141	
SELENIUM	0	-0.02028244		0.50	0.4729166	95
SILICON	0	-0.007396679		1	0.9395195	94
SILVER	0	0.00208526		1	1.056054	106 ✓
SODIUM	0	0.03529551		0	0.05455849	
STRONTIUM	0	0.01665325		0	0.01679622	
SULFUR	0	0.04327989		0	0.04798259	
THALLIUM	0	-0.01331905		0.50	0.4462058	89
TIN	0	0.001529002		0.50	0.4347568	87
TITANIUM	0	0.03482657		0.50	0.5156979	103
VANADIUM	0	-0.002058731		0.50	0.4702124	94
ZINC	0	0.006584277		1	0.9052708	91

ICSA Limits: 80 - 120

ICSAB Limits: 80 - 120



SDG: L937868
Instrument ID: ICP13
Instrument Run: 092517ICP13

Analytical Method: 6010C
Date: 09/26/17 03:51

Analyte	True	Found		True	Found	
	ICSA mg/l	ICSA mg/l	ICSA % Rec.	ICSAB mg/l	ICSAB mg/l	ICSAB % Rec.
ALUMINUM	500	489.9334	98 ✓	500	487.6334	98
ANTIMONY	0	0.004095427		0.50	0.4987164	100
ARSENIC	0	-0.005532841		0.50	0.4944094	99 ✓
BARIUM	0	0.002745085		0.50	0.4854961	97 ✓
BERYLLIUM	0	-0.000005898382		0.50	0.479971	96
BORON	0	0.4475921		1	1.331036	133
CADMIUM	0	0.0001106792		1	1.001371	100 ✓
CALCIUM	500	492.221	98	500	492.4248	98
CE	0	-0.04641184		0	-0.02651031	
CHROMIUM	0	0.002011102		0.50	0.4641898	93 ✓
COBALT	0	-0.0002109142		0.50	0.500287	100
COPPER	0	-0.004569145		0.50	0.5047468	101
IRON	200	196.5474	98	200	196.643	98
LEAD	0	-0.02789107		1	0.920356	92 ✓
LITHIUM	0	0.008281306		0	0.007663928	
MAGNESIUM	500	495.1638	99	500	493.7271	99
MANGANESE	0	0.003823266		0.50	0.464486	93
MOLYBDENUM	0	-0.0006685617		0.50	0.4809633	96
NICKEL	0	0.004611527		1	0.9752247	98
POTASSIUM	0	1.732946		0	1.392057	
SELENIUM	0	-0.022432		0.50	0.4723553	94
SILICON	0	-0.00742583		1	0.9414901	94
SILVER	0	0.002535727		1	1.054367	105 ✓
SODIUM	0	0.1236453		0	0.1027493	
STRONTIUM	0	0.01662501		0	0.01663689	
SULFUR	0	0.07247384		0	0.07154708	
THALLIUM	0	-0.01001723		0.50	0.4480058	90
TIN	0	0.0007298758		0.50	0.4361983	87
TITANIUM	0	0.03531852		0.50	0.5170732	103
VANADIUM	0	0.002106417		0.50	0.470759	94
ZINC	0	0.08803392		1	0.9699043	97

ICSA Limits: 80 - 120

ICSAB Limits: 80 - 120

ACCOUNT:
LaBella Associates, P.C.

PROJECT:
2151305

SDG:
L937868

DATE/TIME:
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5A-IN

MATRIX SPIKE /
MATRIX SPIKE DUPLICATE RECOVERY
L937868-01,02,03,04,05

ONE LAB. NATIONWIDE. 

SAMPLE NO.:

R3252254-5

R3252254-6

MS Sample / File ID: R3252254-5 / 20170926082948
MSD Sample / File ID: R3252254-6 / 20170926083212
OS Sample / File ID: L937868-02 / 20170926082442
Instrument ID: ICP12
Analytical Method: 6010C

SDG: L937868
Analytical Batch: WG1024391
Matrix: GW

Analyte	Spike Amount ug/l	OS Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	RPD %	RPD Limits %
Selenium	1000	ND	1040	1050	104 ✓	105 ✓	1	75 - 125	1 ✓	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

5A-IN

MATRIX SPIKE /
MATRIX SPIKE DUPLICATE RECOVERY
L937868-01,02,03,04,05

ONE LAB. NATIONWIDE. 

SAMPLE NO.:

R3252190-5

R3252190-6

MS Sample / File ID: R3252190-5 / 20170926013832
MSD Sample / File ID: R3252190-6 / 20170926014052
OS Sample / File ID: L937868-02 / 20170926013333
Instrument ID: ICP13
Analytical Method: 6010C

SDG: L937868
Analytical Batch: WG1024391
Matrix: GW

Analyte	Spike Amount	OS Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	RPD	RPD Limits
	ug/l	ug/l	ug/l	ug/l	% ✓	% ✓		%	%	%
Arsenic	1000	19.5	997	998	98 ✓	98 ✓	1	75 - 125	0	20
Barium	1000	11.0	1010	1010	100	100	1	75 - 125	0	20
Cadmium	1000	ND	980	981	98	98	1	75 - 125	0	20
Chromium	1000	ND	971	964	97	96	1	75 - 125	1	20
Lead	1000	7.10	981	979	97	97	1	75 - 125	0	20
Silver	200	ND	195	194	98	97	1	75 - 125	1	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

ACCOUNT:
LaBella Associates, P.C.

PROJECT:
2151305

SDG:
L937868

DATE/TIME:
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7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY
L937868-01,02,03,04,05

ONE LAB. NATIONWIDE



SAMPLE NO.:

R3252254-2

R3252254-3

LCS Sample / File ID: R3252254-2 / 20170926081937
LCSD Sample / File ID: R3252254-3 / 20170926082203
Instrument ID: ICP12
Analytical Method: 6010C

SDG: L937868
Analytical Batch: WG1024391
Dilution Factor: 1
Matrix: GW

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	RPD %	RPD Limits %
Selenium	1000	1010	1020	101 ✓	102 ✓	80 - 120	1 ✓	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

ACCOUNT:
LaBella Associates, P.C.

PROJECT:
2151305

SDG:
L937868

DATE/TIME:
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7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY
L937868-01,02,03,04,05

ONE LAB. NATIONWIDE 

SAMPLE NO.:

R3252190-2

R3252190-3

LCS Sample / File ID: R3252190-2 / 20170926012838
LCSD Sample / File ID: R3252190-3 / 20170926013057
Instrument ID: ICP13
Analytical Method: 6010C

SDG: L937868
Analytical Batch: WG1024391
Dilution Factor: 1
Matrix: GW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limits
	ug/l	ug/l	ug/l	% ✓	% ✓	%	% ✓	%
Arsenic	1000	968	967	97 ✓	97 ✓	80 - 120	0 ✓	20
Barium	1000	1010	1020	101	102	80 - 120	0	20
Cadmium	1000	977	979	98	98	80 - 120	0	20
Chromium	1000	969	974	97	97	80 - 120	1	20
Lead	1000	969	973	97	97	80 - 120	0	20
Silver	200	193	194	96	97	80 - 120	1	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

ICP AND ICP/MS
SERIAL DILUTIONS
L937868-01,02,03,04,05ONE LAB. NATIONWIDE. 
SAMPLE NO.:
R3252254-4

SD Sample / File ID: R3252254-4 / 20170926082723
OS Sample / File ID: L937868-02 / 20170926082442
Lab File ID: 20170926082723
Instrument ID: ICP12
Analytical Method: 6010C

SDG: L937868
Analytical Batch: WG1024391
Dilution Factor: 5
Matrix: GW

Analyte	OS Result ug/l	SD Result ug/l	RPD %	RPD Limits %
Selenium	ND	ND	0 ✓	10

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

8-IN

ICP AND ICP/MS
SERIAL DILUTIONS
L937868-01,02,03,04,05ONE LAB. NATIONWIDE. 

SAMPLE NO.:

R3252190-4

SD Sample / File ID: R3252190-4 / 20170926013612
OS Sample / File ID: L937868-02 / 20170926013333
Lab File ID: 20170926013612
Instrument ID: ICP13
Analytical Method: 6010C

SDG: L937868
Analytical Batch: WG1024391
Dilution Factor: 5
Matrix: GW

Analyte	OS Result ug/l	SD Result ug/l	RPD %	RPD Limits %
Arsenic	19.5	ND	0 ✓	10
Barium	11.0	10.8	2	10
Cadmium	ND	ND	0	10
Chromium	ND	ND	0	10
Lead	7.10	18.2	0	10
Silver	ND	ND	0	10

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

ACCOUNT:
LaBella Associates, P.C.

PROJECT:
2151305

SDG:
L937868

DATE/TIME:
10/13/17 11:29

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SDG: L937868
Instrument ID: CVAA5
Analytical Method: 7470A
Concentration Units: mg/l

Calibration (begin) date/time: 09/26/17 07:33
Calibration (end) date/time: 09/26/17 07:44
Analytical Run: 092617CVAA5 W

Analyte	ICV				CCVLL				CCV			
	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
MERCURY	0.0030	0.0029828	99 ✓	2.280000	0.0002	0.0001940	97 ✓	0.610000	0.0025	0.0025093	100 ✓	1.140000

ICV Limits: 90 - 110

CCVLL Limits: 70 - 130

CCV Limits: 90 - 110



SDG: L937868
Instrument ID: CVAA5
Analytical Method: 7470A
Concentration Units: mg/l

Calibration (begin) date/time: 09/26/17 07:33
Calibration (end) date/time: 09/26/17 07:44
Analytical Run: 092617CVAA5 W

	CCV				CCVLL				CCV			
	Sample ID: CVAA50926172032-2				CVAA50926172037-3				CVAA50926172102			
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	True	Found	%R	%RSD
MERCURY	0.0025	0.0025174	101 ✓	1.560000	0.0002	0.0001942	97 ✓	2.020000	0.0025	0.0024734	99 ✓	1.960000

ICV Limits: 90 - 110

CCVLL Limits: 70 - 130

CCV Limits: 90 - 110

ACCOUNT:
LaBella Associates, P.C.

PROJECT:
2151305

SDG:
L937868

DATE/TIME:
10/13/17 11:29

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SDG: L937868
Instrument ID: CVAA5
Analytical Method: 7470A
Concentration Units: mg/l

Calibration (begin) date/time: 09/26/17 07:33
Calibration (end) date/time: 09/26/17 07:44
Analytical Run: 092617CVAA5 W

CCVLL

Sample ID: CVAA50926172201

Analyte	True	Found	%R	%RSD
MERCURY	0.0002	0.0001981	99	✓ 1.120000

ICV Limits: 90 - 110

CCVLL Limits: 70 - 130

CCV Limits: 90 - 110

ACCOUNT:
LaBella Associates, P.C.

PROJECT:
2151305

SDG:
L937868

DATE/TIME:
10/13/17 11:29

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SDG: L937868
Instrument ID: CVAA5
Analytical Method: 7470A

Calibration (begin) date/time: 09/26/17 07:33
Calibration (end) date/time: 09/26/17 07:44
Analytical Run: 092617CVAA5 W

	Sample ID:	ICB Result	ICB Qual	CCB Result	CCB Qual	BLANK Result	BLANK Qual	CCB Result	CCB Qual
	File ID:	20170926080925		20170926200732-3		20170926201427		20170926203457-2	
Analyte		mg/l		mg/l		mg/l		mg/l	
MERCURY		-0.00003920	U ✓	-0.00006690	U ✓	ND ✓		-0.00006040	U ✓

SAMPLE RESULT SUMMARY
INORGANIC ANALYSIS DATA SHEET

ESC Sample ID: R3252549-1
Client Sample ID: BLANK
Lab File ID: 20170926201427
Instrument ID: CVAA5
Analytical Batch: WG1022948
Dilution Factor: 1
Analytical Method: 7470A
Matrix: GW
Total Solids (%):

SDG: L937868
Collected Date/Time:
Received Date/Time:
Preparation Date/Time: 09/26/17 11:44
Analysis Date/Time: 09/26/17 20:14
Prep Method: 7470A
Sample Vol Used:
Initial Wt/Vol: 30 mL
Final Wt/Vol: 30.0 mL

Analyte	CAS	Result <i>ug/l</i>	Qualifier	SDL <i>ug/l</i>	Unadj. MQL <i>ug/l</i>	MQL <i>ug/l</i>
Mercury	7439-97-6	U ✓		0.0490	0.200	0.200



SDG: L937868
Instrument ID: CVAA5
Analytical Method: 7470A

Calibration (begin) date/time: 09/26/17 07:33
Calibration (end) date/time: 09/26/17 07:44
Analytical Run: 092617CVAA5 W

Sample ID: CCB Result CCB Qual

File ID: 20170926210423

Analyte

mg/l

MERCURY

-0.00006040

U ✓

5A-IN

MATRIX SPIKE /
MATRIX SPIKE DUPLICATE RECOVERY
L937868-01,02,03,04,05

ONE LAB. NATIONWIDE. 

SAMPLE NO.:

R3252549-4

R3252549-5

MS Sample / File ID: R3252549-4 / 20170926202334
MSD Sample / File ID: R3252549-5 / 20170926202548
OS Sample / File ID: L937868-02 / 20170926202116
Instrument ID: CVAA5
Analytical Method: 7470A

SDG: L937868
Analytical Batch: WG1022948
Matrix: GW

Analyte	Spike Amount ug/l	OS Result ug/l	MS Result ug/l	MSD Result ug/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	RPD	RPD Limits %
Mercury	3.00	ND	2.86	2.69	95 ✓	90 ✓	1 ✓	75 - 125	6	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

ACCOUNT:
LaBella Associates, P.C.

PROJECT:
2151305

SDG:
L937868

DATE/TIME:
10/13/17 11:29

PAGE:
150 of 330

7-IN

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY
L937868-01,02,03,04,05

ONE LAB. NATIONWIDE.



SAMPLE NO.:

R3252549-2

R3252549-3

LCS Sample / File ID: R3252549-2 / 20170926201644
LCSD Sample / File ID: R3252549-3 / 20170926201859
Instrument ID: CVAA5
Analytical Method: 7470A

SDG: L937868
Analytical Batch: WG1022948
Dilution Factor: 1
Matrix: GW

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	RPD %	RPD Limits %
Mercury	3.00	2.99	2.90	100 ✓	97 ✓	80 - 120	3 ✓	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

ACCOUNT:
LaBella Associates, P.C.

PROJECT:
2151305

SDG:
L937868

DATE/TIME:
10/13/17 11:29

PAGE:
151 of 330

APPENDIX 4



300 State Street
Rochester, New York 14614

Telephone: (585) 454-6110
Facsimile: (585) 454-3066

WELL I.D.: RMW-3

Project Name: Photech

Location: 1000 Driving Park Avenue

Project No.: 2151305

Sampled By: S. Rife

Date: 9/18/2017

Weather: Sunny, 82 F

WELL SAMPLING INFORMATION

Well Diameter: 2"

Depth of Well: _____

Measuring Point: Top of PVC

Pump Type: Bladder Pump

Static Water Level: 9.74'

Length of Well Screen: _____

Depth to Top of Pump: 15'

Tubing Type: LDPE

FIELD PARAMETER MEASUREMENT

Time	Pump Rate	Gallons Purged	Temp °C	Dissolved O ₂ (mg/L)	Conductivity (mS/cm)	pH	ORP (mV)	Turbidity (NTU)			Comments
			+/- 3%	+/- 10%	+/- 3%	+/- 0.1	+/- 10 mV	+/- 10%			
1400		-	18.3	5.0	1.190	6.96	108.2	83.7			Clear
1405		0.1	17.9	3.7	1.185	6.90	114.2	68.3			
1410		0.2	17.8	3.4	1.181	6.91	115.1	62.3			
1415		0.3	18.1	3.2	1.170	6.93	114.8	56.2			
1420		0.4	18.1	3.3	1.180	6.94	117.3	24.0			
1425		0.5	18.4	3.3	1.189	6.94	118.5	21.5			
1430		0.6	18.4	3.1	1.194	6.94	118.5	18.1			

Total 0.6 Gallons Purged

Purge Time Start: 1400

Purge Time End: 1430

Final Static Water Level: 10.51'

OBSERVATIONS

Notes:

Values stabilize 1430, SAMPLES TAKEN

Field Duplicate taken here, 2x volume



300 State Street
Rochester, New York 14614

Telephone: (585) 454-6110
Facsimile: (585) 454-3066

WELL I.D.: RMW-4

Project Name: Phototech

Location: 1000 Driving Park Avenue

Project No.: 2151305

Sampled By: S. Rife

Date: 9/18/2017

Weather: Sunny, 82 F

WELL SAMPLING INFORMATION

Well Diameter: 2"

Depth of Well: _____

Measuring Point: Top of PVC

Pump Type: Bladder Pump

Static Water Level: 10.77'

Length of Well Screen: _____

Depth to Top of Pump: 15'

Tubing Type: LDPE

FIELD PARAMETER MEASUREMENT

Time	Pump Rate	Gallons Purged	Temp °C	Dissolved O ₂ (mg/L)	Conductivity (mS/cm)	pH	ORP (mV)	Turbidity (NTU)			Comments
			+/- 3%	+/- 10%	+/- 3%	+/- 0.1	+/- 10 mV	+/- 10%			
1135		-	19.7	20.3	0.701	9.08	52.8	15.42			Turbid grey
1140		0.1	18.3	16.8	0.692	9.11	-34.4	1002			
1145		0.2	17.8	11.3	0.656	9.27	-79.2	527			Turbid colorless
1150		0.3	17.6	9.5	0.621	9.60	-150	240			
1155		0.5	17.1	9.6	0.613	9.81	-175	155			
1200		0.7	17.1	8.3	0.610	9.95	-188	125			
1205		0.9	16.9	6.9	0.610	10.01	-197	124			
1210		1.1	17.0	6.9	0.611	10.05	-202	147			
1215		1.3	17.1	6.5	0.612	10.10	-210	159			

Total 1.3 Gallons Purged

Purge Time Start: 1135

Purge Time End: 1215

Final Static Water Level: 11.28'

OBSERVATIONS

Notes:

Unable to stabilize turbidity <50.0 NTU, turbidity increasing, SAMPLES TAKEN, final turbidity approximately 175 NTU
MS/MSD taken here, 3x volume



300 State Street
Rochester, New York 14614

Telephone: (585) 454-6110
Facsimile: (585) 454-3066

WELL I.D.: Well-09

Project Name: Photech

Location: 1000 Driving Park Avenue

Project No.: 2151305

Sampled By: S. Rife

Date: 9/18/2017

Weather: Sunny, 82 F

WELL SAMPLING INFORMATION

Well Diameter: 2"

Depth of Well: _____

Measuring Point: Top of PVC

Pump Type: Bladder Pump

Static Water Level: 9.83'

Length of Well Screen: _____

Depth to Top of Pump: 15'

Tubing Type: LDPE

FIELD PARAMETER MEASUREMENT

Time	Pump Rate	Gallons Purged	Temp °C	Dissolved O ₂ (mg/L)	Conductivity (mS/cm)	pH	ORP (mV)	Turbidity (NTU)			Comments
			+/- 3%	+/- 10%	+/- 3%	+/- 0.1	+/- 10 mV	+/- 10%			
1520		-	18.9	16.8	1.373	7.14	-17	362			Turbid dark grey
1525		0.1	NA	NA	NA	NA	NA	NA			Adjust height to 14', no values taken
1530		0.2	17.5	10.9	1.483	6.85	-42.7	222			
1535		0.3	17.2	6.2	1.482	6.85	-49.1	166			
1540		0.4	17.0	5.4	1.468	6.86	-48.5	97.3			
1545		0.5	17.0	5.7	1.467	6.86	-46.6	86.6			
1550		0.6	16.7	6.6	1.451	6.87	-43.3	103.7			
1555		0.8	16.6	5.1	1.447	6.87	-40.7	139			

Total 0.8 Gallons Purged

Purge Time Start: 1520

Purge Time End: 1555

Final Static Water Level: 10.43'

OBSERVATIONS

Notes:

Unable to stabilize turbidity <50.0 NTU, turbidity increasing, SAMPLES TAKEN, final turbidity approximately 125 NTU



Project Name:	Photech
Location:	1000 Driving Park Avenue
Project No.:	2151305
Sampled By:	S. Rife
Date:	9/19/2017
Weather:	Sunny, 82 F

Well Diameter:	2"	Static Water Level:	10.11
Depth of Well:		Length of Well Screen:	
Measuring Point:	Top of PVC	Depth to Top of Pump:	15'
Pump Type:	Bladder Pump	Tubing Type:	LDPE

[illegible]

Total	0.7	Gallons Purged

Purge Time Start: 1100 Purge Time End: 1120 Final Static Water Level: 10.52'

OBSERVATIONS

Notes:
Turbidity rising, all values stable except O2, samples collected, >50.0 NTU

APPENDIX 5



Associates, P.C.

300 State Street
Rochester, New York 14614
Phone: (585) 454-6110
Fax: (585) 454-3066

SITE-WIDE INSPECTION FORM

Project Name: Photech
Location: 1000 Driving Park Ave
Project No.: 2151305
Inspected By: SMR
Date of Inspection: 9/19/17
Weather Conditions: Sunny

INSPECTION FINDINGS

INSPECTION OF SOIL COVER SYSTEM	TAKE PHOTOGRAPHS OF OUTFALL AREAS	ARE CURRENT SOIL CONDITIONS IN ACCORDANCE WITH THE EXCAVATION WORK PLAN? (YES/NO)	COMMENTS AND/OR ACTIONS TAKEN
<u>cover intact</u>	<u>✓</u>	<u>Yes</u>	<u>No action taken.</u>
GENERAL SITE CONDITIONS	CURRENT USE OF SITE (COMMERCIAL/ RESIDENTIAL/ETC.)	SITE RECORDS UP TO DATE (YES/NO)	COMMENTS AND/OR ACTIONS TAKEN



Site Cover



Site Cover



Site Cover and New Road



Site Cover



New Road



Site Cover

Former Phototech Imaging Site # B00016
 1100 Driving Park Avenue, Rochester, NY
 Periodic Review Report

APPENDIX 6



5711 Gateway Park, Lakeville, NY 14480
phone: (585)346.0720 fax: (585)346.2706

March 24, 2017

Mr. Todd Caffoe, P.E.
Division of Environmental Remediation
NYSDEC, Region 8 Office
6247 East Avon-Lima Road
Avon, New York 14414

RE: Photech Imaging Site
1000 Driving Park Avenue
City Of Rochester, NY
60 Day Advance Notice of Proposed Changes in Site Use

This letter is written as a notification describing the changes to the use of the site and incidental information regarding our work on the site. Ramsey Constructors, Inc. has been contracted by the City of Rochester to perform Site Development Infrastructure Improvements to the Photech Site.

This site development work involves the installation of a cul-de-sac roadway, water distribution mainlines and roadway storm water mains. Site grading of Lot 1, 2 & 3 is also encompassed in this work.

The "Excavation Management Required" Area is only a portion of the above-mentioned work. Primarily, it is confined to an area on the South-East Portion of the site. It is approximately 120,000 Square feet of "Lot 2" as shown on Sheet C-120 – Site Plan. Please see the attached plan sheet.

Intrusive Work in the EMR Area is as follows. Approximately 4000 Cubic Yards of Cut to Fill. This is expected to balance and no Material is expected to be removed from the EMR Area or from the site. Drainage Swale along the Eastern Property Line – Approx. 500 LF. Drainage Piping along Driving Park Avenue – Approx. 80 LF.

Day Environmental will be performing Professional Environmental Services for Ramsey Constructors during intrusive work performed in the "Excavation Management Required" Areas on the site.

Day Environmental is currently reviewing the SMP, HASP and the EWP associated with this site. Once they have reviewed these documents, they will prepare the appropriate CAMP and we will develop a work plan for the "intrusive work" in the EMR Area.

Once, Day Environmental is prepared, we would like to have a meeting with you and the following parties to discuss the progression of our work in the "Excavation Management Required" Area on the Site.

Joe Biondolillo	-	City of Rochester
Wayne Williams	-	City of Rochester
Rick Bennett	-	Fisher Associates
Roger Buda	-	Fisher Associates
Nate Simon	-	Day Environmental
City Rep	-	LaBella Associates

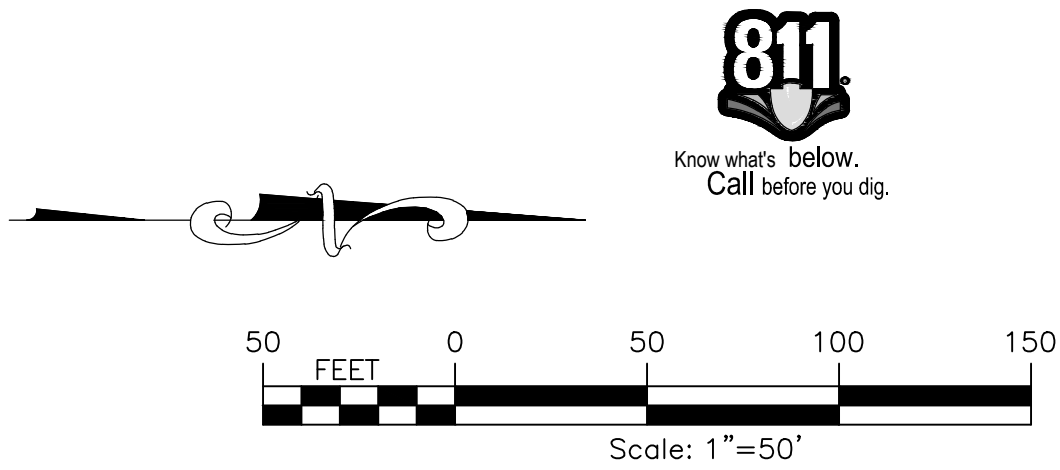
Please feel free to contact me with any questions or concerns.

Sincerely,

A handwritten signature in blue ink, appearing to read "S.P. Bourgoine", with a stylized flourish at the end.

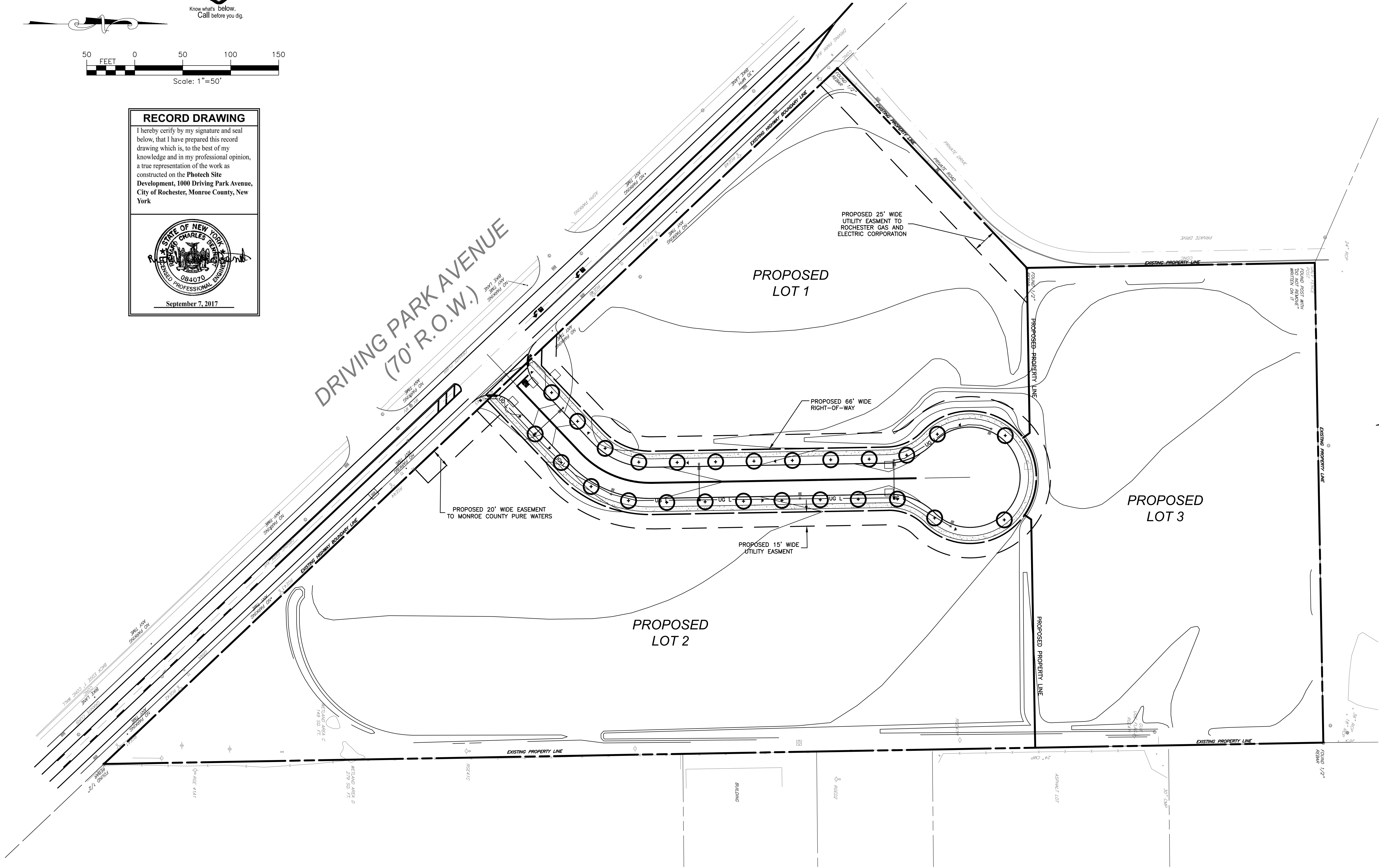
Steven P. Bourgoine
Ramsey Constructors, Inc.

FILE NAME: H:\Projects\134024-Phototech_Site_Dev\Eng\CAD\CUT\134024 Site Plan.dwg
DATE/TIME: 9/7/2017 10:23:40 AM
USER: Dawn Peart



RECORD DRAWING

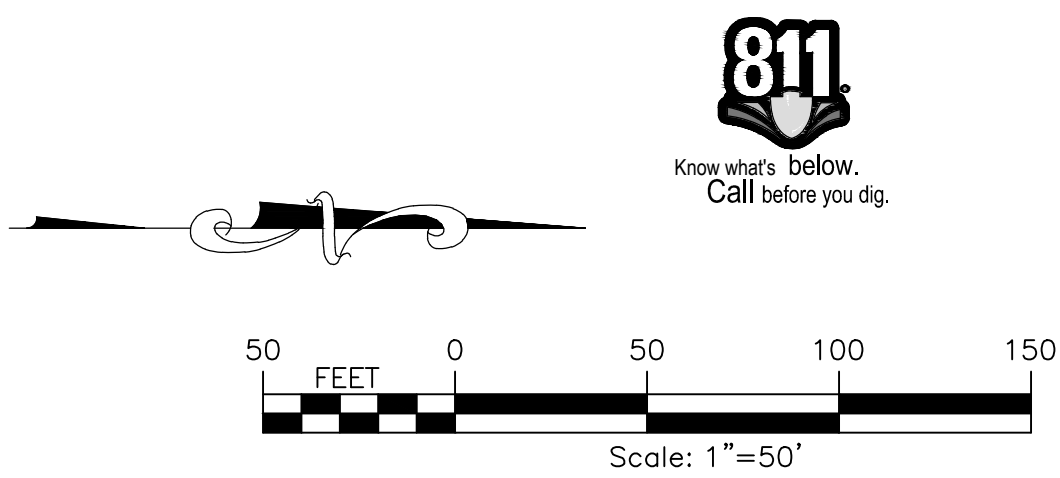
I hereby certify by my signature and seal below, that I have prepared this record drawing which is, to the best of my knowledge and in my professional opinion, a true representation of the work as constructed on the Photech Site Development, 1000 Driving Park Avenue, City of Rochester, Monroe County, New York



RECORD PLAN SET

PROJECT PHOTECH SITE DEVELOPMENT		DRAWING NO. C-120	
TITLE OF DRAWING OVERALL SITE PLAN		SHEET 6 OF 32	
FISHER ASSOCIATES WWW.FISHERASSOC.COM		COPYRIGHT © 2016 FISHER ASSOCIATES P.E., L.S., L.A., D.P.C. New York State Education Law Section 1202(2)(b) requires that this law for any person, unless by the person or their authorized representative, a licensed professional engineer or land surveyor, to alter on item in any way. If an item bearing the seal of an engineer or land surveyor is altered, the alteration shall be noted by the engineer or land surveyor, followed by the name of the alteration, and a specific description of the alteration.	
FA PROJECT NO. 134024	PROJECT MANAGER D. YANOSH	ISSUE DATE 7/18/16	REV
DRAWN BY D. YANOSH	SCALE AS SHOWN	DATE 9/01/2017	BY RCB
DESCRIPTION		NO AS-BUILT REVISIONS	

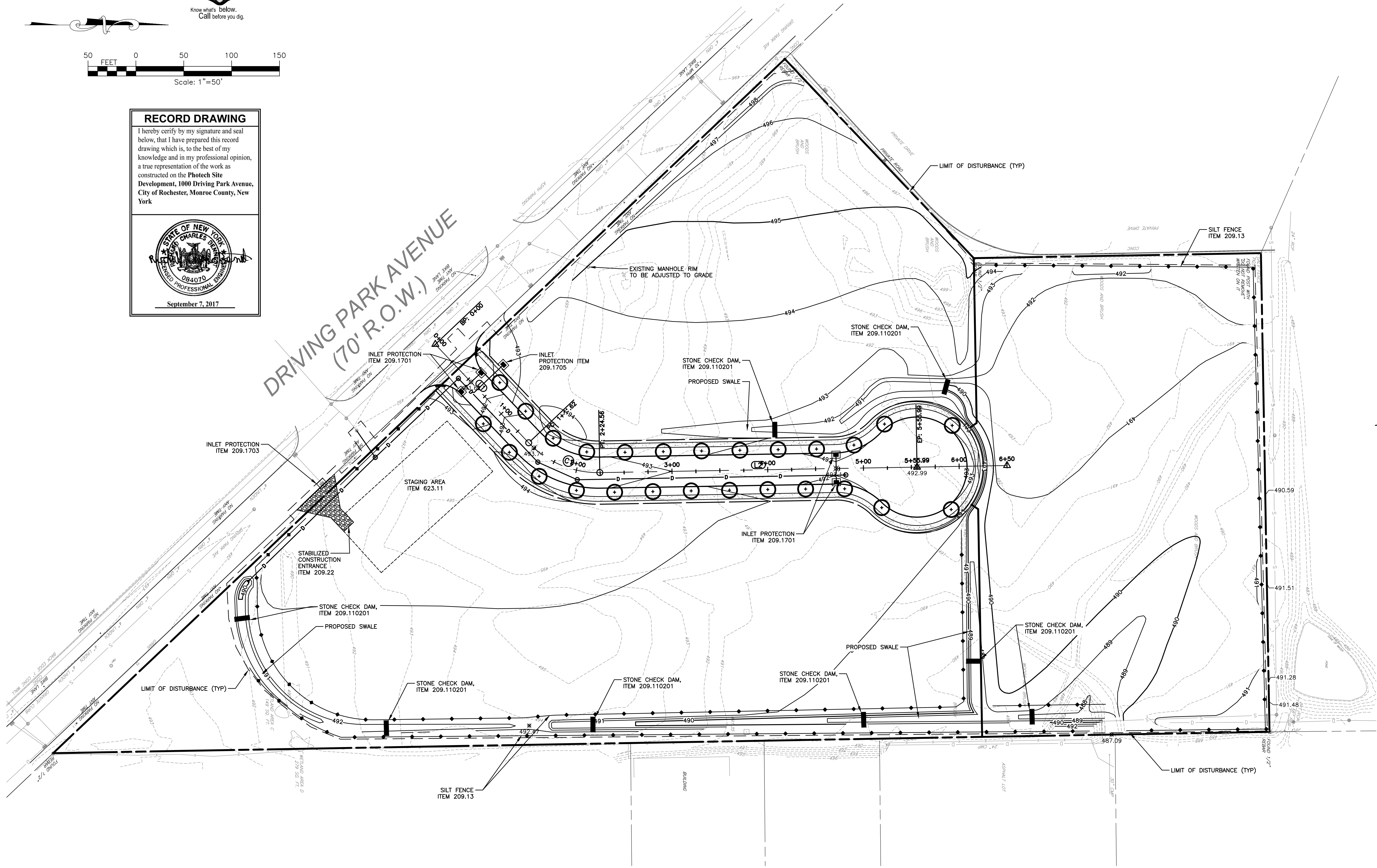
FILE NAME: H:\Projects\134024-Phototech_Site_Dev\Eng\CAD\CUT\134024 Grading and Erosion Control Plan.dwg
DATE/TIME: 9/7/2017 10:24:02 AM
USER: Dawn Peart



811
Know what's below.
Call before you dig.

RECORD DRAWING
I hereby certify by my signature and seal below, that I have prepared this record drawing which is, to the best of my knowledge and in my professional opinion, a true representation of the work as constructed on the Photech Site Development, 1000 Driving Park Avenue, City of Rochester, Monroe County, New York

September 7, 2017



RECORD PLAN SET

PROJECT PHOTECH SITE DEVELOPMENT		FA PROJECT NO. 134024		COPYRIGHT © 2016 FISHER ASSOCIATES P.E., L.S., L.A., D.P.C.	
TITLE OF DRAWING GRADING AND EROSION CONTROL PLAN		PROJECT MANAGER D. YANOSH		New York State Education Law Section 1202(2)(b) requires that this law for any person, unless by the person, be a duly qualified and licensed professional engineer or land surveyor, to alter on item in any way. If an item bearing the seal of an engineer, the drawing engineer or land surveyor, the notation "checked by" followed by a signature, alteration, and a specific description of the alteration.	
		DRAWN BY D. YANOSH		ISSUE DATE 7/18/16	
		SCALE AS SHOWN		REV	
				UPDATED GRADING DESCRIPTION	
				DATE	
				BY	
				4/28/17	
				DPY	
DRAWING NO.		C-135		SHEET 9 OF 32	

APPENDIX 7



Fisher Associates- Rochester

Detailed Payment

Photec Site

Description:

Payment Number: 4

Pay Period: 07/20/2017 to 08/21/2017

Prime Contractor: Ramsey Constructors, Inc.
5711 Gateway Park
Lakeville, New York 14480

Payment Status: Approved

Awarded Project Amount: \$1,041,196.82

Authorized Amount: \$1,055,968.82

Line Number	Item	Unit	Unit Price	Awarded Quantity	Current Paid Quantity	Previous Paid Quantity	Total Quantity Paid To Date	Total Quantity Placed	Current Payment Amount	Total Amount Paid To Date
Section - 1 Default Section										
0010	201.07 CLEARING AND GRUBBING	AC	\$12,000.000	3.40	1.00	3.40	4.40	4.40	\$12,000.00	\$52,800.00
0020	203.02 UNCLASSIFIED EXCAVATION AND DISPOSAL	CY	\$10.000	11,016.00	0.00	11,016.00	11,016.00	11,665.00	\$0.00	\$110,160.00
0030	203.03 EMBANKMENT IN PLACE	CY	\$4.000	11,441.00	0.00	11,441.00	11,441.00	11,665.00	\$0.00	\$45,764.00
0040	203.07 SELECT GRANULAR FILL	CY	\$35.000	150.00	0.00	150.00	150.00	565.70	\$0.00	\$5,250.00
0050	203.25 SAND BACKFILL	CY	\$35.000	125.00	0.00	125.00	125.00	275.30	\$0.00	\$4,375.00
0060	203.51990006 ESTABLISHING NEW DITCHES AND SLOPES	LF	\$6.000	1,705.00	0.00	1,705.00	1,705.00	1,705.00	\$0.00	\$10,230.00
0070	205.050101 DISPOSAL OF CONTAMINATED HAZARDOUS WASTE SOIL	TON	\$36.000	1,300.00	0.00	0.00	0.00	0.00	\$0.00	\$0.00

Line Number	Item	Unit	Unit Price	Awarded Quantity	Current Paid Quantity	Previous Paid Quantity	Total Quantity Paid To Date	Total Quantity Placed	Current Payment Amount	Total Amount Paid To Date
0080	206.0201	CY	\$11.000	845.20	0.00	845.20	845.20	1,422.50	\$0.00	\$9,297.20
	TRENCH AND CULVERT EXCAVATION									
0090	206.03010010	LF	\$14.000	70.00	0.00	70.00	70.00	78.00	\$0.00	\$980.00
	CONDUIT EXCAVATION AND BACKFILL - (RESTORING TOP SURFACES NOT INCLUDED)									
0100	209.1003	SY	\$0.380	50,074.00	0.00	50,074.00	50,074.00	50,074.00	\$0.00	\$19,028.12
	SEED AND MULCH - TEMPORARY									
0110	209.110102	EA	\$450.000	8.00	0.00	7.00	7.00	7.00	\$0.00	\$3,150.00
	CHECK DAM (DITCH BOTTOM WIDTH > 3' TO 6'), STONE-TEMPORARY									
0120	209.13	LF	\$2.000	3,185.00	0.00	2,597.00	2,597.00	2,597.00	\$0.00	\$5,194.00
	SILT FENCE - TEMPORARY									
0130	209.1701	LF	\$15.000	17.00	0.00	17.00	17.00	17.00	\$0.00	\$255.00
	DRAINAGE STRUCTURE INLET PROTECTION, SILT FENCE - TEMPORARY									
0131	209.1703	LF	\$15.000	17.00	0.00	17.00	17.00	17.00	\$0.00	\$255.00
	DRAINAGE STRUCTURE INLET PROTECTION, PREFABRICATED-TEMPORARY									
0140	209.1705	LF	\$15.000	68.00	0.00	0.00	0.00	0.00	\$0.00	\$0.00
	DRAINAGE STRUCTURE INLET PROTECTION, EXCAVATED-TEMPORARY									
0150	209.22	SY	\$10.000	200.00	0.00	200.00	200.00	200.00	\$0.00	\$2,000.00
	CONSTRUCTION ENTRANCE									
0160	304.11	CY	\$50.000	525.00	0.00	525.00	525.00	563.60	\$0.00	\$26,250.00
	SUBBASE COURSE, TYPE 1									
0170	304.12	CY	\$50.000	460.00	0.00	460.00	460.00	476.80	\$0.00	\$23,000.00
	SUBBASE COURSE, TYPE 2									
0180	402.096202	TON	\$83.000	272.00	0.00	272.00	272.00	274.58	\$0.00	\$22,576.00
	9.5 F2 TOP COURSE HMA, 60 SERIES COMPACTION									
0190	402.198902	TON	\$72.000	349.00	0.00	349.00	349.00	408.90	\$0.00	\$25,128.00
	19 F9 BINDER COURSE HMA, 80 SERIES COMPACTION									
0200	402.378902	TON	\$58.000	1,279.00	0.00	1,224.47	1,224.47	1,224.47	\$0.00	\$71,019.26
	37.5 F9 BASE COURSE HMA, 80 SERIES COMPACTION									
0210	407.0102	GAL	\$6.000	560.00	0.00	485.00	485.00	485.00	\$0.00	\$2,910.00
	DILUTED TACK COAT									
0211	410.10210218	TON	\$440.000	9.00	0.00	9.00	9.00	13.20	\$0.00	\$3,960.00
	MICRO-SURFACING, TYPE II									

Line Number	Item	Unit	Unit Price	Awarded Quantity	Current Paid Quantity	Previous Paid Quantity	Total Quantity Paid To Date	Total Quantity Placed	Current Payment Amount	Total Amount Paid To Date
0220	603.171116	EA	\$90.000	1.00	0.00	1.00	1.00	1.00	\$0.00	\$90.00
	GALVANIZED STEEL END SECTIONS-PIPE (2-2/3" X 1/2" CORRUGATIONS) 15 INCH DIAMETER, 16 GAUGE									
0230	603.98100804	LF	\$150.000	96.00	0.00	96.00	96.00	99.00	\$0.00	\$14,400.00
	POLYVINYL CHLORIDE (PVC) SEWER PIPE & FITTINGS 8" DIAMETER									
0240	603.98101204	LF	\$55.000	411.00	0.00	411.00	411.00	459.00	\$0.00	\$22,605.00
	POLYVINYL CHLORIDE (PVC) SEWER PIPE & FITTINGS 12" DIAMETER									
0241	603.981018	LF	\$56.000	272.00	0.00	267.00	267.00	267.00	\$0.00	\$14,952.00
	POLYVINYL CHLORIDE (PVC) SEWER PIPE & FITTINGS 18" DIAMETER									
0250	603.98102404	LF	\$325.000	30.00	0.00	30.00	30.00	30.00	\$0.00	\$9,750.00
	POLYVINYL CHLORIDE (PVC) SEWER PIPE & FITTINGS 24" DIAMETER									
0260	604.070401	EA	\$1,600.000	1.00	0.00	1.00	1.00	1.00	\$0.00	\$1,600.00
	ALTERING DRAINAGE STRUCTURES, LEACHING BASINS AND MANHOLES									
0270	604.4048	LF	\$740.000	24.80	0.00	24.80	24.80	24.80	\$0.00	\$18,352.00
	ROUND PRECAST CONCRETE MANHOLE, TYPE 48									
0280	604.4060	LF	\$740.000	8.30	0.00	8.30	8.30	8.30	\$0.00	\$6,142.00
	ROUND PRECAST CONCRETE MANHOLE, TYPE 60									
0290	604.500401	LF	\$300.000	16.50	0.00	16.50	16.50	17.20	\$0.00	\$4,950.00
	SPECIAL DRAINAGE STRUCTURE									
0310	604.500402	LF	\$225.000	5.30	0.70	4.60	5.30	6.60	\$157.50	\$1,192.50
	SPECIAL DRAINAGE STRUCTURE									
0320	605.0901	CY	\$35.000	87.70	0.00	87.70	87.70	95.00	\$0.00	\$3,069.50
	UNDERDRAIN FILTER, TYPE 1									
0330	605.1502	LF	\$9.000	1,316.00	0.00	1,316.00	1,316.00	1,316.00	\$0.00	\$11,844.00
	PERFORATED CORRUGATED POLYETHYLENE UNDERDRAIN TUBING, 6 INCH DIAMETER									
0331	607.2100001	LF	\$3.000	1,685.00	0.00	1,681.00	1,681.00	1,681.00	\$0.00	\$5,043.00
	REMOVE AND DISPOSE OF CHAIN LINK FENCE									
0340	608.0101	CY	\$400.000	97.00	0.00	97.00	97.00	100.80	\$0.00	\$38,800.00
	CONCRETE SIDEWALKS AND DRIVEWAYS									
0350	608.21	SY	\$200.000	1.30	0.00	1.30	1.30	3.44	\$0.00	\$260.00
	EMBEDDED DETECTABLE WARNING UNITS									
0360	609.0201	LF	\$35.000	1,450.00	0.00	1,326.00	1,326.00	1,326.00	\$0.00	\$46,410.00
	STONE CURB, GRANITE, (TYPE A)									

Line Number	Item	Unit	Unit Price	Awarded Quantity	Current Paid Quantity	Previous Paid Quantity	Total Quantity Paid To Date	Total Quantity Placed	Current Payment Amount	Total Amount Paid To Date
0370	610.1401	CY	\$25.000	278.00	0.00	274.80	274.80	274.80	\$0.00	\$6,870.00
	TOPSOIL - REUSE ON-SITE MATERIALS									
0371	610.1602	SY	\$1.200	2,500.00	0.00	1,665.30	1,665.30	1,665.30	\$0.00	\$1,998.36
	TURF ESTABLISHMENT - LAWNS									
0380	611.0161	EA	\$585.000	26.00	0.00	26.00	26.00	26.00	\$0.00	\$15,210.00
	PLANTING - MAJOR DECIDUOUS TREES - 2 1/2 INCH CALIPER BALL & BURLAP, FIELD POTTED OR FIELD BOXED									
0390	619.01	LS	\$55,000.000	1.00	0.00	1.00	1.00	1.00	\$0.00	\$55,000.00
	BASIC WORK ZONE TRAFFIC CONTROL									
0391	623.11	CY	\$36.000	387.00	0.00	387.00	387.00	387.00	\$0.00	\$13,932.00
	Crushed Gravel (In Place Measure)									
0400	625.01	LS	\$25,000.000	1.00	0.00	1.00	1.00	1.00	\$0.00	\$25,000.00
	SURVEY OPERATIONS									
0410	627.50140008	LF	\$3.000	206.00	0.00	206.00	206.00	228.00	\$0.00	\$618.00
	CUTTING PAVEMENT									
0420	637.11	MO	\$2,000.000	4.00	0.00	4.00	4.00	4.00	\$0.00	\$8,000.00
	ENGINEER'S FIELD OFFICE - TYPE 1									
0430	640.20	LF	\$0.250	990.00	0.00	917.00	917.00	917.00	\$0.00	\$229.25
	WHITE PAINT REFLECTORIZED PAVEMENT STRIPES - 20 MILS									
0440	640.21	LF	\$0.250	1,232.00	0.00	1,232.00	1,232.00	1,752.00	\$0.00	\$308.00
	YELLOW PAINT REFLECTORIZED PAVEMENT STRIPES - 20 MILS									
0441	640.22	EA	\$60.000	12.00	0.00	12.00	12.00	12.00	\$0.00	\$720.00
	WHITE PAINT REFLECTORIZED PAVEMENT LETTERS - 20 MILS									
0450	640.23	EA	\$80.000	2.00	0.00	2.00	2.00	2.00	\$0.00	\$160.00
	WHITE PAINT REFLECTORIZED PAVEMENT SYMBOLS - 20 MILS									
0460	645.5101	SF	\$45.000	27.80	0.00	27.80	27.80	27.80	\$0.00	\$1,251.00
	GROUND-MOUNTED SIGN PANELS WITHOUT Z-BARS									
0470	M645.81	EA	\$160.000	12.00	0.00	9.00	9.00	9.00	\$0.00	\$1,440.00
	TYPE A SIGN POSTS									
0480	655.1103	EA	\$1,000.000	5.00	0.00	5.00	5.00	5.00	\$0.00	\$5,000.00
	WELDED FRAME AND RETICULINE GRATE 3									
0490	655.1202	EA	\$1,000.000	5.00	0.00	5.00	5.00	5.00	\$0.00	\$5,000.00
	MANHOLE FRAME AND COVER									

Line Number	Item	Unit	Unit Price	Awarded Quantity	Current Paid Quantity	Previous Paid Quantity	Total Quantity Paid To Date	Total Quantity Placed	Current Payment Amount	Total Amount Paid To Date
0560	658.5300001	LS	\$15,000.000	1.00	0.00	0.50	0.50	0.50	\$0.00	\$7,500.00
	ALTERATION AND RESTORATION OF EXISTING MONITORING WELL									
0570	S671.020202	LF	\$15.000	752.00	0.00	752.00	752.00	774.00	\$0.00	\$11,280.00
	2" PVC CONDUIT (INCLUDING EXCAVATION AND BACKFILL)									
0571	671.1024	EA	\$1,500.000	6.00	0.00	5.00	5.00	5.00	\$0.00	\$7,500.00
	Concrete Pull Box (24")									
0590	S671.3101	EA	\$1,500.000	7.00	0.00	7.00	7.00	7.00	\$0.00	\$10,500.00
	Metal Light Pole Foundation									
0591	699.040001	LS	\$38,000.000	1.00	0.00	1.00	1.00	1.00	\$0.00	\$38,000.00
	MOBILIZATION									
0600	S901.040106	LF	\$125.000	106.00	0.00	105.60	105.60	105.60	\$0.00	\$13,200.00
	6" Ductile Iron Pipe Water Main Class 52									
0610	S901.040108	LF	\$80.000	580.00	0.00	568.10	568.10	568.10	\$0.00	\$45,448.00
	8" Ductile Iron Water Main Class 52									
0620	S901.040112	LF	\$500.000	20.00	0.00	20.00	20.00	23.20	\$0.00	\$10,000.00
	12" Ductile Iron Water Main Class 52									
0630	S901.050306	LF	\$61.000	38.00	0.00	34.50	34.50	34.50	\$0.00	\$2,104.50
	6" Ductile Iron Water Main Class 52 For Hydrant Branch									
0640	S903.0106	EA	\$1,200.000	6.00	0.00	6.00	6.00	9.00	\$0.00	\$7,200.00
	6" Resilient Seal Gate Valve with Valve Box-Veritcal									
0650	S903.0108	EA	\$1,500.000	2.00	0.00	2.00	2.00	2.00	\$0.00	\$3,000.00
	8" Resilient Seal Gate Valve with Valve Box-Vertical									
0660	S903.0112	EA	\$3,000.000	2.00	0.00	2.00	2.00	2.00	\$0.00	\$6,000.00
	12" Resilient Seal Gate Valve with Valve Box-Vertical									
0670	S907.01	EA	\$10,000.000	1.00	0.00	1.00	1.00	1.00	\$0.00	\$10,000.00
	Connection To Water									
0680	S917.01	EA	\$5,500.000	3.00	0.00	3.00	3.00	3.00	\$0.00	\$16,500.00
	New Hydrant									
0690	S966.0317	EA	\$185.000	10.00	0.00	9.00	9.00	9.00	\$0.00	\$1,665.00
	17 Pound Magnesium Anode									
0700	S966.0332	EA	\$200.000	29.00	0.00	28.00	28.00	28.00	\$0.00	\$5,600.00
	32 Pound Magnesium Anode									

Line Number	Item	Unit	Unit Price	Awarded Quantity	Current Paid Quantity	Previous Paid Quantity	Total Quantity Paid To Date	Total Quantity Placed	Current Payment Amount	Total Amount Paid To Date
0710	S968.01	EA	\$3,000.000	1.00	0.50	0.50	1.00	1.00	\$1,500.00	\$3,000.00
Cathodic Protection Test-Unpaved Area with Copper/Copper Reference Electrode										
0720	S999.0101	EA	\$525.000	1.00	0.00	1.00	1.00	1.00	\$0.00	\$525.00
PROJECT SIGN - 6' X 4'										
0730	S999.05	EA	\$525.000	1.00	0.00	1.00	1.00	1.00	\$0.00	\$525.00
EDA Project Sign										
0750	201.07	AC	\$630.000		4.40	0.00	4.40	4.40	\$2,772.00	\$2,772.00
CLEARING AND GRUBBING										
Section Totals:									\$16,429.50	\$986,097.69
Total Payments:									\$16,429.50	\$986,097.69

Summary

Current Approved Work:	\$16,429.50	Approved Work To Date:	\$986,097.69
Stockpile Advancement:	\$0.00	Stockpile Advancement To Date:	\$0.00
Current Retainage:	\$821.47	Retainage To Date:	\$49,304.88
Current Retainage Released:	\$16,759.49	Retainage Released To Date:	\$48,483.41
Stockpile Recovery:	\$0.00	Stockpile Recovery To Date:	\$0.00
Current Liquidated Damages:	\$0.00	Liquidated Damages To Date:	\$0.00
Current Adjustment:	\$0.00	Adjustments To Date:	\$0.00
Current Taxes:	\$0.00	Taxes To Date:	\$0.00
Current Payment:	\$32,367.52	Payments To Date:	\$985,276.22

Project Manager**Date**

Resident Engineer**Date**

Owner**Date**

Pelychaty, Mike

From: Pelychaty, Mike
Sent: Friday, November 03, 2017 11:04 AM
To: Pelychaty, Mike
Subject: RE: Photech- 1000 Driving Park

From: Steve Bourgoine [<mailto:sbourgoine@ramseyconstructors.com>]
Sent: Friday, August 18, 2017 10:51 AM
To: 'Caffoe, Todd (DEC)' <todd.caffoe@dec.ny.gov>
Cc: 'Biondolillo, Joseph J.' <Joseph.Biondolillo@CityofRochester.Gov>; 'sdavis@labellapc.com' <sdavis@labellapc.com>; Roger Buda <RBuda@FisherAssoc.com>; 'Williams, Wayne' <Wayne.Williams@CityofRochester.Gov>; 'Rick Bennett' <RBennett@FisherAssoc.com>; 'Nate Simon' <NSimon@daymail.net>; 'Sean Reese' <sreese@daymail.net>; 'Jeff Danzinger' <JDanzinger@daymail.net>
Subject: RE: Photech- 1000 Driving Park

Todd,
As of 7-14-17, this project was substantially complete. Our punchlist has since been completed and we have turned over the site to the City Of Rochester. It was a pleasure working with you on this project. Let us know if you need anything further from Ramsey Constructors.

Thanks Again!

Steve Bourgoine
Ramsey Constructors, Inc
Ph. 585-346-0720
Fax 585-346-2706

From: Caffoe, Todd (DEC) [<mailto:todd.caffoe@dec.ny.gov>]
Sent: Tuesday, April 11, 2017 10:24 AM
To: Jeff Danzinger <JDanzinger@daymail.net>
Cc: Biondolillo, Joseph J. <Joseph.Biondolillo@CityofRochester.Gov>; sdavis@labellapc.com; 'Williams, Wayne' <Wayne.Williams@CityofRochester.Gov>; Rick Bennett <RBennett@FisherAssoc.com>; rogerbd@frontiernet.net; Nate Simon <NSimon@daymail.net>; 'Steve Bourgoine' <sbourgoine@ramseyconstructors.com>; Sean Reese <sreese@daymail.net>
Subject: RE: Photech- 1000 Driving Park

Correct. All other materials on the list provided by Ramsey Constructors are accepted too.

Todd M. Caffoe, P.E.
Environmental Engineer 2, Division of Environmental Remediation

New York State Department of Environmental Conservation
6274 East Avon-Lima Road, Avon, NY 14414
P: (585) 226-5350 | Todd.Caffoe@dec.ny.gov

www.dec.ny.gov |  | 

From: Jeff Danzinger [<mailto:JDanzinger@daymail.net>]

Sent: Tuesday, April 11, 2017 9:24 AM

To: Caffoe, Todd (DEC) <todd.caffoe@dec.ny.gov>

Cc: Biondolillo, Joseph J. <Joseph.Biondolillo@CityofRochester.Gov>; sdavis@labellapc.com; 'Williams, Wayne' <Wayne.Williams@CityofRochester.Gov>; Rick Bennett <RBennett@FisherAssoc.com>; rogerbd@frontiernet.net; Nate Simon <NSimon@daymail.net>; 'Steve Bourgoine' <sbourgoine@ramseyconstructors.com>; Sean Reese <sreese@daymail.net>

Subject: RE: Photech- 1000 Driving Park

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All other materials listed accepted too, right?

From: Caffoe, Todd (DEC) [<mailto:todd.caffoe@dec.ny.gov>]

Sent: Tuesday, April 11, 2017 9:15 AM

To: Jeff Danzinger

Cc: Biondolillo, Joseph J.; sdavis@labellapc.com; 'Williams, Wayne'; Rick Bennett; rogerbd@frontiernet.net; Nate Simon; 'Steve Bourgoine'; Sean Reese

Subject: RE: Photech- 1000 Driving Park

Jeff,

Based upon the sieve analysis supplied by Ramsey Constructors, Inc., it is acceptable to use the recycled concrete aggregate at the Photech site without prior sampling and analysis. Please let me know if you have any questions.

-Todd

Todd M. Caffoe, P.E.

Environmental Engineer 2, Division of Environmental Remediation

New York State Department of Environmental Conservation

6274 East Avon-Lima Road, Avon, NY 14414

P: (585) 226-5350 | Todd.Caffoe@dec.ny.gov

www.dec.ny.gov |  | 

From: Jeff Danzinger [<mailto:JDanzinger@daymail.net>]

Sent: Tuesday, April 11, 2017 8:47 AM

To: Caffoe, Todd (DEC) <todd.caffoe@dec.ny.gov>

Cc: Biondolillo, Joseph J. <Joseph.Biondolillo@CityofRochester.Gov>; sdavis@labellapc.com; 'Williams, Wayne' <Wayne.Williams@CityofRochester.Gov>; Rick Bennett <RBennett@FisherAssoc.com>; rogerbd@frontiernet.net; Nate Simon <NSimon@daymail.net>; 'Steve Bourgoine' <sbourgoine@ramseyconstructors.com>; Sean Reese <sreese@daymail.net>

Subject: RE: Photech- 1000 Driving Park

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Hi Todd,

During the March 31, 2016 meeting at DAY's office, we requested NYSDEC provide an email response documenting that it accepts use on the Site of the imported materials Ramsey Constructors identifies below.

If not already done, could you send the email response?

Thanks,

Jeff

From: Steve Bourgoine [<mailto:sbourgoine@ramseyconstructors.com>]

Sent: Monday, March 27, 2017 2:56 PM

To: todd.caffoe@dec.ny.gov

Cc: Biondolillo, Joseph J.; sdavis@labellapc.com; 'Williams, Wayne'; Rick Bennett; rogerbd@frontiernet.net; Jeff Danzinger; Nate Simon

Subject: RE: Photect- 1000 Driving Park

Todd,

Attached is the Sieve Analysis for the Recycled Concrete Aggregate Material as discussed. Please review and Advise.

Thanks!

Steve Bourgoine
Ramsey Constructors, Inc
Ph. 585-346-0720
Fax 585-346-2706

From: Steve Bourgoine [<mailto:sbourgoine@ramseyconstructors.com>]

Sent: Monday, March 27, 2017 1:32 PM

To: todd.caffoe@dec.ny.gov

Cc: Biondolillo, Joseph J. <Joseph.Biondolillo@CityofRochester.Gov>; 'sdavis@labellapc.com' <sdavis@labellapc.com>; 'Williams, Wayne' <Wayne.Williams@CityofRochester.Gov>; Rick Bennett <RBennett@FisherAssoc.com>; rogerbd@frontiernet.net; 'jdanzinger@daymail.net' <jdanzinger@daymail.net>; 'Nate Simon' <NSimon@daymail.net>

Subject: Photect- 1000 Driving Park

Todd,

The following List of Materials are expected to be imported to the site in order to construct the Photect Site Infrastructure. It also indicates the Item that it will be incorporated in and the Source of the Material. Most of the products **will not** be imported and used in the "Excavation Management Required" Area. There is very little Work in the EMR Area that will require imported material. There is a small amount of Drainage Pipe near Driving Park Ave that will require stone backfill. All Products are NYSDOT Approved.

Manitou - Class A Concrete with Fly Ash – 25 CY – Storm Drainage Items - Backfill- None in EMR Area
Manitou -Class A Concrete without Fly Ash – 15 CY – Watermain Items- Thrust Blocks- None in EMR Area
Manitou -Class D Concrete with Fiber Reinforcing – 108 CY – Sidewalk Items- None in EMR Area
Manitou -Concrete Curb Bedding & Backer – 55 CY- Granite Curb Items - None in EMR Area
Dolomite Gates -Sand Bedding Material – 346 Ton- Watermain Bedding - None in EMR Area
Dolomite Ogden -1 & 2 Stone Bedding Material – 317 Ton- Storm Pipe Bedding – 20 Ton in EMR Area
Dolomite Ogden -203.07 Select Gran Fill Material CR2 – 306 Ton- Watermain Backfill - None in EMR Area

Ramsey Stockpile Grainger -203.07 Select Gran Fill Recycled Concrete – 1185 Ton- Storm Pipe Backfill – 80 Ton in EMR Area

Dolomite Ogden -304.12 Subbase CR2 – 2300 Ton- Road & Sidewalk Subbase - None in EMR Area

Dolomite Ogden -Light Stone Fill – 16 Ton- Stone Check Dams – 8 Ton in EMR Area

Dolomite Ogden -605 Type 1 Filter Stone Material – 600 Ton- Roadway Underdrain - None in EMR Area

Dolomite Gates -9.5 MM Asphalt – 260 Ton- Road Paving - None in EMR Area

Dolomite Gates -19 MM Asphalt – 340 Ton- Road Paving - None in EMR Area

Dolomite Gates -37.5 MM Asphalt – 1280 Ton- Road Paving - None in EMR Area

Steve Bourgoine

Ramsey Constructors, Inc

Ph. 585-346-0720

Fax 585-346-2706

APPENDIX 8



DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

AIR MONITORING REPORT SHEET

DATE: 4/26/17

PAGE: 1 OF 4

JOB #: 5352 S-17

SITE: Phototech Site Development Infrastructure Project

BY: SJR

ON-SITE: 400 670 OFF-SITE: 1500

WEATHER CONDITIONS: 75° F, 50% HUMIDITY PREVAILING WIND DIRECTION: W

PERSONNEL ON-SITE: SEAN DEERE / CAMSCY ANSR

NOTES: LARGE WORK ZONE IN EMB. CAMP LOCATED CLOSER TO NORTH END DUE TO MORE CONCENTRATED WORK

WORK ZONE MONITORED W/ PID + VISUAL THROUGHOUT WORK
945 STOP WORK → 1030 START

DESCRIPTION	TIME	LOCATION	PID (ppm)	PARTICULATES (mg/m3)
BACKGROUND	715	BG1	0.0	0.007
NEAREST REC	715	NRI	0.0	0.007
CAMP	715	C1	0.2	0.007
NEAREST REC	730	NRI	0.2	0.002
CAMP	730	C1	0.0	0.000
NEAREST REC	745	NRI	0.6	0.005
CAMP	745	C1	0.0	0.000
NEAREST REC	820	NRI	0.0	0.000
CAMP	820	C1	0.0	0.000
BACKGROUND	845	BG1	0.0	0.002
BREATHING ZONE	845		0.0	0.010
NEAREST REC	845	NRI	0.0	0.003
CAMP	845	C1	0.1	0.000
CAMP	830	C2	0.1	0.000
BACKGROUND	830	BG2	0.1	0.004
NEAREST REC	830	NRI	0.0	0.000
CAMP	845	C2	0.0	0.000
NEAREST REC	845	NRI	0.0	0.000
CAMP	900	C2	0.0	0.000
NEAREST REC	900	NRI	0.0	0.000

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary
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DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

AIR MONITORING REPORT SHEET (Continued)

DATE: 04/26/17
JOB #: 53525-17PAGE: 2 OF 4

DESCRIPTION	TIME	LOCATION	PID (ppm)	PARTICULATES (mg/m3)
BREATHING ZONE	915		0.0	0.017
NEAREST REC	915	NRI	0.0	0.000
CAMP	915	C2	0.0	0.000
BACKGROUND	930	SG2	0.0	0.001
NEAREST REC	930	NRI	0.0	0.001
CAMP	930	C2	0.0	0.000
NEAREST REC	945	NRI	0.0	0.008
CAMP	945	C2	0.0	0.000
BACKGROUND	1045	BGI	0.0	0.003
CAMP	1045	C1	0.0	0.000
NEAREST REC	1045	NRI	0.0	0.003
NEAREST REC	1100	NRI	0.0	0.000
CAMP	1100	C1	0.0	0.000
NEAREST REC	1115	NRI	0.0	0.000
CAMP	1115	C1	0.0	0.000
BREATHING ZONE	1150		0.0	0.010
CAMP	1130	C1	0.0	0.000
NEAREST REC	1130	NRI	0.0	0.000
BACKGROUND	1145	BGI	0.0	0.000
NEAREST REC	1145	NRI	0.0	0.000
CAMP	1145	C1	0.0	0.000
NEAREST REC	1200	NRI	0.0	0.000
CAMP	1200	C3	0.0	0.000
NEAREST REC	1215	NRI	0.0	0.000
CAMP	1215	C3	0.0	0.000
BREATHING ZONE	1230		0.0	0.014
CAMP	1230	C3	0.0	0.000
NEAREST REC	1230	NRI	0.0	0.000
BACKGROUND	1245	BGI	0.0	0.000
NEAREST REC	1245	NRI	0.0	0.000
CAMP	1245	C3	0.0	0.000
CAMP	1300	C3	0.0	0.014
NEAREST REC	1300	NRI	0.0	0.000
NEAREST REC	1315	NRI	0.0	0.000
CAMP	1315	C3	0.0	0.000
CAMP	1330	C3	0.0	0.000
NEAREST REC	1330	NRI	0.0	0.000
BREATHING ZONE	1330		0.0	0.002

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary
S:/fieldforms/Air Monitoring1563 LYELL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825

www.dayenvironmental.com

420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657

AIR MONITORING REPORT SHEET (Continued)

DATE: 04/26/2017

PAGE: 5 OF 4

JOB #: 53525-17

[illegible]

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary
S/fieldforms/Air Monitoring

BREATHING ZONE LOCATIONS VARIED
AS WORK PROGRESSED IN EME

PROJECT
PHOTOTECH SITE DEVELOPMENT
APPLICANT: BROWN CONTROL PLAN

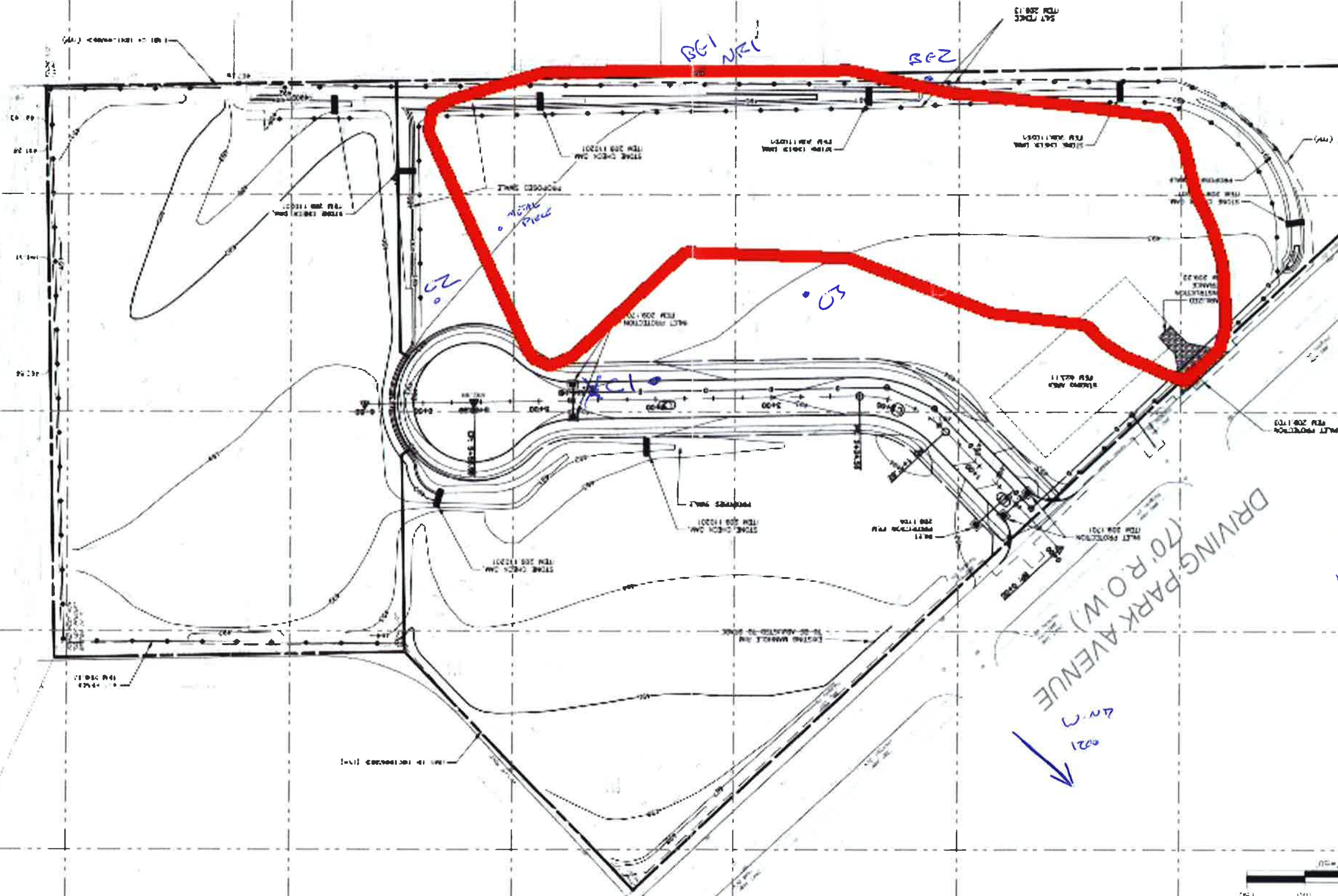
FISHER
ASSOCIATES

DATE: 12/20/17
BY: C. VANOSH
CHECKED: J. BROWN

SCALE: 1" = 100'

REVISIONS

NO.	DESCRIPTION	DATE
1	ISSUED FOR PERMIT	12/20/17
2	REVISED TO REFLECT COMMENTS	1/10/18
3	REVISED TO REFLECT COMMENTS	1/10/18
4	REVISED TO REFLECT COMMENTS	1/10/18



WIND DIRECTION
SWS
4/20/17

WIND DIRECTION
NORTHEAST (WNW)
4/20/17
700
1030

DRIVING PARK AVENUE
(TO ROW)



AIR MONITORING REPORT SHEET

DATE: 04.21.2017

PAGE: 1 OF 3

JOB #: 5352 S-17

SITE: Photek Site Development Infrastructure Project

BY: SZK

ON-SITE: 747 OFF-SITE: 1315

WEATHER CONDITIONS: 54 CLOUDY PREVAILING WIND DIRECTION: NE

PERSONNEL ON-SITE: RAMSEY, FISHER (GREG RAUBERZ)

NOTES: NR → NEAREST RECEPTOR BG → BACKGROUND

C3 CAMP (DOWNWIND)

C1 MOVED BEHIND PILES AS SOIL WILL BE MOVED TO PILES WHEN EXCAVATED
NR1 MOVED TO NR2 @ 0815

STOP WORK 850 → START 915

1000 NO WORK IN EMR 1145 BACKFILL DRIVEWAY (EXISTING) WITH STONE

1215 WORK IN EMR - BACKFILL TRENCH / REMOVE AND PNE

1240 FINISHED REMOVAL OF PNE FILLING IN TRENCH

DESCRIPTION	TIME	LOCATION	PID (ppm)	PARTICULATES (mg/m3)
BACKGROUND	820	BG1	0.0	0.018
~~NEAREST REC.~~	~~---~~	~~NR1~~	~~---~~	~~---~~
~~CAMP~~	~~---~~	~~C1~~	~~---~~	~~---~~
BACKGROUND	845	BG1	0.0	0.019
CAMP	900	C1	0.0	0.020
NEAREST REC	900	NR2	0.0	0.013
BACKGROUND	915	BG1	0.0	0.011
CAMP	930	C1	0.0	0.011
NEAREST REC	930	NR2	0.0	0.000
BREATHING ZONE	920	BZ	0.0	0.013
CAMP	945	C1	0.0	~~0.013~~ 0.015
NEAREST REC	945	NR2	0.0	0.000
CAMP	1000	C1	0.0	0.015
NEAREST REC	1000	NR2	0.0	0.002
BACKGROUND	1015	BG2	0.0	0.020
CAMP	1015	C2	0.0	0.012 (SMT CHECK)
NEAREST REC	1015	NR2	0.0	0.004
BREATHING ZONE	1020	BZ	0.0	0.018
CAMP	1030	C2	0.0	0.016
NEAREST REC	1030	NR2	0.0	0.001

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary
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AIR MONITORING REPORT SHEET (Continued)

DATE: 04.21.2017

PAGE: 2 OF 3

JOB #: 53525-17

[illegible]

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary
S:/fieldforms/Air Monitoring



DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

AIR MONITORING REPORT SHEET

DATE: 06.02.2017PAGE: 1 OF 4JOB #: 5352 S-17SITE: Phototech Site Development Infrastructure ProjectBY: SEAN PERRYON-SITE: 0640 OFF-SITE: 1506WEATHER CONDITIONS: 50° ↑ PARTLY CLOUDY PREVAILING WIND DIRECTION: 645 NE
1015 SEPERSONNEL ON-SITE: RANSLEYNOTES: 0700 WORKING ON DITCH LEVELING955 NO WORK 1030 START WORK1415 - NO READINGS DUST METER BATTERY CHARGING1455 - WORK DONE IN BMR

DESCRIPTION	TIME	LOCATION	PID (ppm)	PARTICULATES (mg/m3)
BACKGROUND	0700	BG1	0.0	0.005
NEAREST REC	0715	NRI	0.0	0.011
CAMP	0715	C1	0.0	0.01
NEAREST REC	0730	NRI	0.0	0.013
CAMP	0730	C1	0.0	0.01
NEAREST REC	0745	NRI	0.0	0.022
CAMP	0745	C1	0.0	0.020
BACKGROUND	0800	BG1	0.0	0.000
BREATHING ZONE	0800	BZ	0.0	0.010
CAMP	0800	C1	0.0	0.000
NEAREST REC	0800	NRI	0.0	0.025
CAMP	0815	C1	0.0	0.020
NEAREST REC	0815	NRI	0.0	0.021
CAMP	0830	C1	0.0	0.000
NEAREST REC	0830	NRI	0.0	0.017
CAMP	0845	C1	0.0	0.020
NEAREST REC	0845	NRI	0.0	0.018
BACKGROUND	0900	BG1	0.0	0.000
BREATHING ZONE	0900	BZ	0.0	0.010
CAMP	0900	C1	0.0	0.000

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary
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ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

AIR MONITORING REPORT SHEET (Continued)

DATE: 6/2/2017PAGE: 2 OF 4JOB #: 53525-17

DESCRIPTION	TIME	LOCATION	PID (ppm)	PARTICULATES (mg/m3)
NEAREST REC.	0900	NZ	0.0	0.026
CAMP	0915	C1	0.0	0.000
NEAREST REC.	0915	NZ	0.0	0.018
CAMP	0930	C1	0.0	0.003
NEAREST REC.	0930	NZ	0.0	0.025
NEAREST REC.	0945	NZ	0.0	0.050
CAMP	0945	C2	0.0	0.019
BACKGROUND	1030	BG2	0.0	0.005
BREATHING ZONE	1030	BZ	0.0	0.010
CAMP	1030	C2	0.0	0.000
NEAREST REC.	1030	NZ	0.0	0.000
CAMP	1045	C2	0.0	0.001
NEAREST REC.	1045	NZ	0.0	0.009
CAMP	1100	C2	0.0	0.020
NEAREST REC.	1100	NZ	0.0	0.046
CAMP	1115	C3	0.0	0.090
NEAREST REC.	1115	NZ	0.0	0.036
BACKGROUND	1130	BG2	0.0	0.034
BREATHING ZONE	1130	BZ	0.0	0.051
NEAREST REC.	1130	NZ	0.0	0.024
CAMP	1130	C3	0.0	0.035
CAMP	1135	C3	0.0	0.005
NEAREST REC.	1145	NZ	0.0	0.062
NEAREST REC.	1200	NZ	0.0	0.056
CAMP	1200	C3	0.0	0.001
NEAREST REC.	1215	NZ	0.0	0.067
CAMP	1215	C3	0.0	0.005
BACKGROUND	1230	BG2	0.0	0.030
BREATHING ZONE	1230	BZ	0.0	0.059
NEAREST REC.	1230	NZ	0.0	0.122
CAMP	1230	C3	0.0	0.001
NEAREST REC.	1245	NZ	0.0	0.066
CAMP	1245	C3	0.0	0.000
NEAREST REC.	1300	NZ	0.0	0.010
CAMP	1300	C3	0.0	0.005
NEAREST REC.	1315	NZ	0.0	0.017
CAMP	1315	C3	0.0	0.001

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary
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AIR MONITORING REPORT SHEET (Continued)

DATE: 6/2/2017

PAGE: 3 OF 4

JOB #: 53525-17

[illegible]

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary
S:/fieldforms/Air Monitoring

811

Call before you dig



BREATHING ZONE LOCATIONS VARIED
AS WORK PROCEEDED IN EM2

0645
6/2/17

1015
6/2/17

DRIVING PARK AVENUE
(70' R.O.W.)

INLET PROTECTION
ITEM 208.1703

INLET PROTECTION
ITEM 208.1701

BE-1
PROTECTION PPM
208.1106

STONE CHECK DAM
ITEM 208.112201

PROPOSED WALL

STONE CHECK DAM
ITEM 208.112201

INLET PROTECTION
ITEM 208.1701

STANDARD AREA
PPM 622.11

ABOLISHED
INSTRUCTION
FRAME
ITEM 208.22

STONE CHECK DAM
ITEM 208.112201

PROPOSED WALL

STONE CHECK DAM
ITEM 208.112201

STONE CHECK DAM
ITEM 208.112201

STONE CHECK DAM
ITEM 208.112201

STONE CHECK DAM
ITEM 208.112201

SKY FENCE
ITEM 208.15

CONFORMED SET

PAGE 4 OF 4

FISHER
ASSOCIATES

PROJECT
PHOTOTECH SITE DEVELOPMENT

GRADING AND EROSION CONTROL PLAN

C-135



DAY ENVIRONMENTAL, INC.

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AIR MONITORING REPORT SHEET

DATE: 5/22/17

PAGE: 1 OF 4

JOB #: 5352 S-17

SITE: Photoch Site Development Infrastructure Project

BY: SEAN ZEESE

ON-SITE: 645 OFF-SITE: 1445

WEATHER CONDITIONS: 59° F CLOUDY PREVAILING WIND DIRECTION: N

PERSONNEL ON-SITE: _____

NOTES: 0715 BUILDING SOUTH SIDE EMB TO NORTH SIDE, MOVING SOIL SOUTH SIDE EMB

0945 MOVING SOIL PILES TO NORTH SIDE EMB

1100 NO WORK IN EMB ON N SIDE - ROLLING SOUTH

1130 ROLLING NORTH SIDE

1200 NO WORK IN EMB 1230 START MOVING SOIL N ALONG WEST SIDE EMB

1245 BACKGROUND BETWEEN OUTSIDE EMB WORK + EMB AT 0.300 mg/m³

1310 STOPPED MOVING DIRT START ROLLING 1330 STOP ROLLING

START PUSHING DIRT NORTH WEST SIDE

DESCRIPTION	TIME	LOCATION	PID (ppm)	PARTICULATES (mg/m3)
BACKGROUND	0700 0715	BG1	0.1	0.009
CAMP	0700 0715	C1	0.0	0.000
NEAREST REC	0700 0715	NR1	0.0	0.011
BREATHING ZONE	0700 0715		0.0	0.012
CAMP	730	C1	0.0	0.000
NEAREST REC	730	NR1	0.0	0.003
CAMP	745	C1	0.0	0.004
NEAREST REC	745	NR1	0.0	0.017
CAMP	800	C1	0.0	0.000
NEAREST REC	800	NR1	0.0	0.019
BACKGROUND	815	BG1	0.0	0.007
BREATHING ZONE	815		0.0	0.014
NEAREST REC	815	NR1	0.0	0.007
CAMP	815	C1	0.1	0.000
NEAREST REC	830	NR1	0.0	0.003
CAMP	830	C1	0.0	0.000
NEAREST REC	845	NR1	0.0	0.008
CAMP	845	C1	0.2	0.000
NEAREST REC	900	NR1	0.0	0.009
CAMP	900	C1	0.0	0.000

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary
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AIR MONITORING REPORT SHEET (Continued)

DATE: 5/22/17
JOB #: 53525-17

PAGE: 2 OF 4

DESCRIPTION	TIME	LOCATION	PID (ppm)	PARTICULATES (mg/m3)
BACK GROUND	9:15	BG1	0.1	0.004
BREATHING ZONE	9:15		0.0	0.019
CAMP	9:15	C1	0.0	0.000
NEAREST REC	9:15	NR1	0.0	0.011
CAMP	9:35	C1	0.0	0.000
NEAREST REC	9:30	NR1	0.0	0.007
NEAREST REC	9:45	NR1	0.0	0.021
CAMP	9:45	C1	0.2	0.000
NEAREST REC	10:00	NR1	0.0	0.015
CAMP	10:00	C1	0.2	0.004
BACKGROUND	10:15	BG1	0.0	0.009
CAMP	10:15	C1	0.0	0.011
NEAREST REC	10:15	NR1	0.0	0.011
BREATHING ZONE	10:15		0.0	0.014
CAMP	10:30	C1	0.0	0.010
NEAREST REC	10:30	NR2	0.0	0.010
NEAREST REC	10:45	NR2	0.0	0.011
CAMP	10:45	C1	0.0	0.013
NEAREST REC	11:00	NR2	0.0	0.007
CAMP	11:00	C1	0.0	0.000
BACKGROUND	11:15	BG1	0.0	0.007
BREATHING ZONE	11:15		0.0	0.012
CAMP	11:15	C2	0.0	0.001
NEAREST REC	11:15	NR3	0.0	0.013
CAMP	11:30	C2	0.0	0.037
NEAREST REC	11:30	NR3	0.0	0.014
CAMP	11:45	C1	0.1	0.065
NEAREST REC	11:45	NR1	0.0	0.035
CAMP	12:00	C1	0.0	0.009
NEAREST REC	12:00	NR1	0.0	0.097
BACKGROUND	12:30	BG2	0.0	0.000
CAMP	12:30	C3	0.0	0.050
NEAREST REC	12:30	NR4	0.0	0.107
BREATHING ZONE	12:30		0.0	0.178
NEAREST REC	12:45	NR1	0.0	0.240
CAMP	12:45	C3	0.0	0.236
NEAREST REC	13:00	NR1	0.0	0.050
CAMP	13:00	C3	0.0	0.077

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary
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AIR MONITORING REPORT SHEET (Continued)

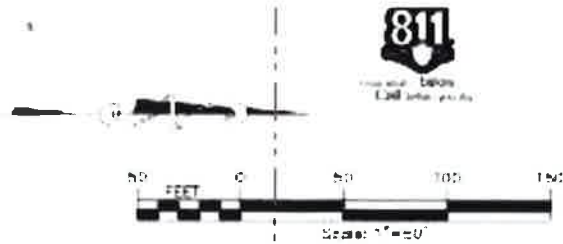
DATE: 5/22/17

PAGE: 7 OF 9

JOB #: 53525-17

[illegible]

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary
S:/fieldforms/Air Monitoring



BRITING EONE LOCATIONS VARIED
AS WORK PROGRESSED IN EMB

1200
5/22/17

0700
5/22/17

DRIVING PARK AVENUE
(70' R.O.W.)

PALET PROTECTION
ITEM 208.1703

PALET PROTECTION
ITEM 208.1701

STANDARD AREA
PSM 623.11

PALETTED
INSTRUCTION
RANGE
ITEM 208.23

STONE CHECK DAM
ITEM 208.110201

PALETTED INSTRUCTION
RANGE (ITEM 208.23)

PALET PROTECTION
ITEM 208.1703

200

STONE CHECK DAM
ITEM 208.110201

200

STONE CHECK DAM
ITEM 208.110201

200

200

STONE CHECK DAM
ITEM 208.110201

CONFORMED SET
PAGE 4 OF 4

FISHER
ASSOCIATES

PHOTOTECH SITE DEVELOPMENT

C

SECTION CONTROL PLAN



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AIR MONITORING REPORT SHEET

DATE: 05.02.2017

PAGE: 1 OF 3

JOB #: 5352 S-17

SITE: Phototech Site Development Infrastructure Project

BY: SEAN REESE

ON-SITE: 625 OFF-SITE: 1145

WEATHER CONDITIONS: 51° CLOUDY PREVAILING WIND DIRECTION: NE

PERSONNEL ON-SITE: DAY/RAMSEY

NOTES: 745 WORK START

MOVING SOIL FROM WEST SIDE EMP TO EAST

755 PUSH SOIL PILE (FROM OUTSIDE EMP) INTO EMP (NOW STOP 1045 START

1045 DIG TRENCH N SIDE EMP TO DRAIN WATER

1130 WORK STOP

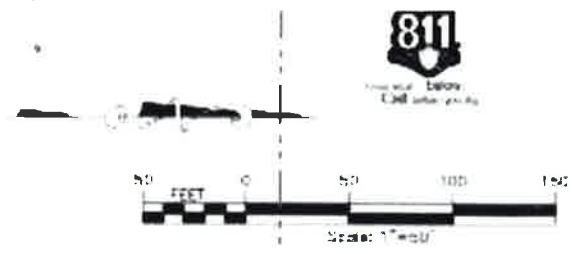
DESCRIPTION	TIME	LOCATION	PID (ppm)	PARTICULATES (mg/m3)
BACKGROUND	715	BO1	0.0	0.000
BREATHING ZONE	800		0.0	0.000
CAMP	820	C1	0.0	0.000
NEAREST REC	800	NB1	0.0	0.003
BACKGROUND	815	BO1	0.0	0.001
CAMP	815	C1	0.0	0.003
NEAREST REC	815	NB1	0.0	0.007
CAMP	830	C1	0.0	0.000
NEAREST REC	830	NB1	0.0	0.003
CAMP	845	C1	0.0	0.000
NEAREST REC	845	NB1	0.0	0.001
CAMP	900	C1	0.0	0.000
NEAREST REC	900	NB1	0.0	0.001
BREATHING ZONE	900		0.0	0.003
BACKGROUND	915	BO1	0.0	0.011
CAMP	915	C1	0.0	0.000
NEAREST REC	915	NB1	0.0	0.002
CAMP	930	C1	0.0	0.002
NEAREST REC	930	NB1	0.0	0.012
CAMP	945	C1	0.0	0.000

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary
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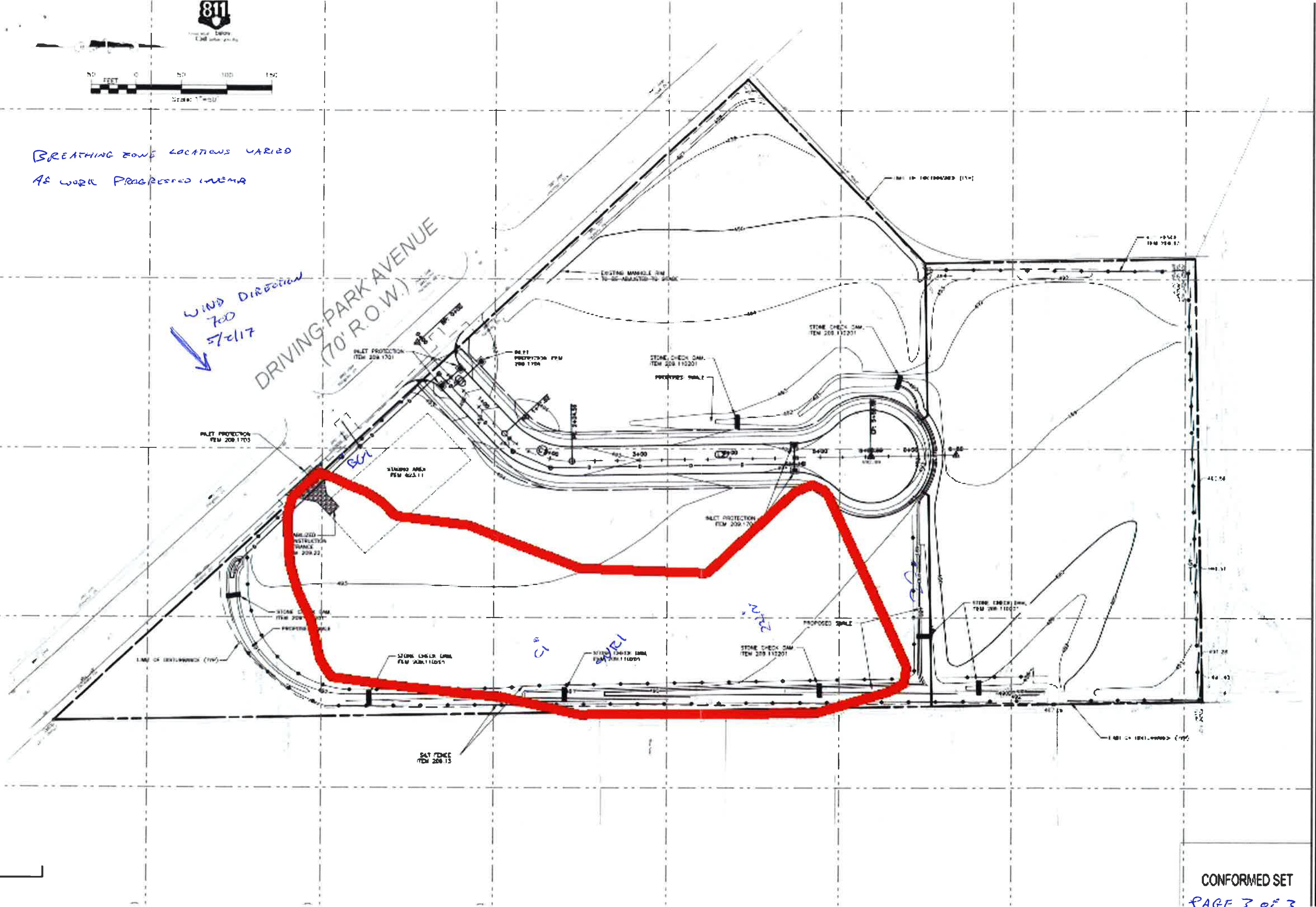
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BREATHING ZONE LOCATIONS VARIED
AS WORK PROGRESSED

WIND DIRECTION
700
5/2/17

DRIVING PARK AVENUE
(70' R.O.W.)



PROJECT: PHOTOGRAPH DEVELOPMENT		FISHER ASSOCIATES	
DRAWING: GRADING AND EROSION CONTROL PLAN		C-135	
DATE: 5/2/17	BY: J. VANDERKAM	DATE: 5/2/17	BY: J. VANDERKAM
PROJECT NO: 134024	PROJECT LOCATION: 134024	PROJECT NO: 134024	PROJECT LOCATION: 134024
PROJECT NO: 134024	PROJECT LOCATION: 134024	PROJECT NO: 134024	PROJECT LOCATION: 134024



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AIR MONITORING REPORT SHEET

DATE: 03/01/2017

PAGE: 1 OF 3

JOB #: 5352 S-17

SITE: Photoch Site Development Infrastructure Project

BY: SEAN REESE

ON-SITE: 636 OFF-SITE: 1145

WEATHER CONDITIONS: 49° CLOUDY/RAIN PREVAILING WIND DIRECTION: E

PERSONNEL ON-SITE: DAY / RAMSEY

NOTES: WORK START 715 BREATHING ZONE MEASURED REGULARLY (NOT RECORDED)

CAMP + NEAREST RECORDED OCCASIONALLY WITHIN 30' DUE TO WORKING ON SWALE ON E SIDE EME WITH WIND BLOWING EAST

STOP WORK AT 1000 START 1030

STOP WORK AT 1136

945 PID BEGAN TO DRIFT MOST LIKELY DUE TO RAIN + HUMIDITY

CHECKED BACKGROUND WIND NOTED SAME PID READINGS

DESCRIPTION	TIME	LOCATION	PID (ppm)	PARTICULATES (mg/m3)
BACKGROUND	715/745	BG1	0.0	0.009
BREATHING ZONE	715		0.0	0.010
CAMP	715	C1	0.0	0.008
NEAREST REC	715	NB1	0.0	0.012
CAMP	730	C1	0.3	0.008
NEAREST REC	730	NB1	0.0	0.014
CAMP	745	C1	0.4	0.014
NEAREST REC	745	NB1	0.4	0.022
CAMP	800	C2	0.5	0.003
NEAREST REC	800	NB1	0.7	0.016
CAMP	815	C2	0.0	0.015
NEAREST REC	815	NB1	0.0	0.018
CAMP	830	C3	0.0	0.013
NEAREST REC	830	NB1	0.0	0.013
NEAREST REC	845	NB1	0.1	0.031
CAMP	845	C4	0.0	0.024
CAMP	900	C4	0.0	0.024
NEAREST REC	900	NB1	0.4	0.092
BACKGROUND	915	BG1	0.9	0.050
NEAREST REC	915	C4	0.0	0.047

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary
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811

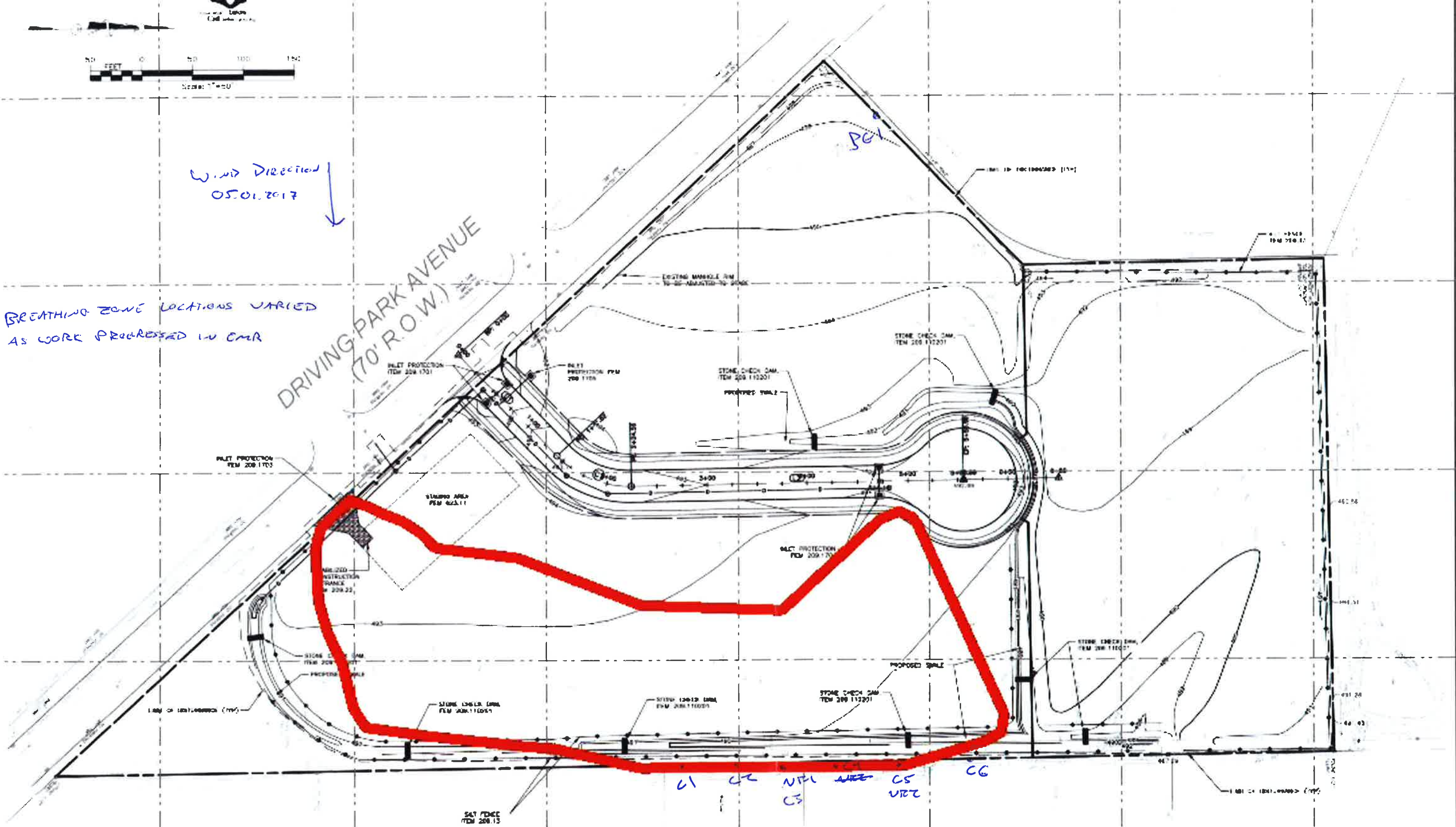
Call before you dig



Wind Direction
05.01.2017

BREATHING ZONE LOCATIONS VARIED
AS WORK PROCEEDED IN CMR

DRIVING PARK AVENUE
(70' R.O.W.)



FISHER
ASSOCIATES

PHOTEC SITE DEVELOPMENT

GRADING AND EROSION CONTROL PLAN

CONFORMED SET
PAGE 3 OF 3

C-135



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AIR MONITORING REPORT SHEET

DATE: 07.28.2012

PAGE: 1 OF 4

JOB #: 5352 S-17

SITE: Phototech Site Development Infrastructure Project

BY: SEAN REESE

ON-SITE: 630 OFF-SITE: 1550

WEATHER CONDITIONS: 51° PARTLY CLOUDY PREVAILING WIND DIRECTION: 630 N, 1030 NE, 1515 S

PERSONNEL ON-SITE: DAY, Ramsey

NOTES: 715 MOVING SOIL SOUTHERN PORTION SITES

MOVING DIRT TO BURY TAIL/SOIL PILE IN SOUTHERN PORTION

SIS SAW CUTTING ON ROADWAY ELEVATING DIRT

830 MOVING SOIL SOUTH TO NORTH LABELLA ON-SITE 1920

1000 NO WORK 1030 WORK START OFF-SITE

1230 BEGAN SOIL WORK

1550 END WORK

DESCRIPTION	TIME	LOCATION	PID (ppm)	PARTICULATES (mg/m3)
BACKGROUND	715	BG1	0.0	0.011
BREATHING ZONE	715		0.0	0.020
CAMP	715	C1	0.0	0.011
NEAREST REC	715	NRI	0.0	0.009
NEAREST REC	730	NRI	0.0	0.010
CAMP	730	C1	0.0	0.012
CAMP	745	C2	0.0	0.012
NEAREST REC	745	NRI	0.0	0.068
CAMP	830	C3	0.0	0.005
NEAREST REC	830	NRI	0.0	0.008
BACKGROUND	815	BG1	0.0	~~0.011~~ 0.027
BREATHING ZONE	815		0.0	0.017
CAMP	815	C3	0.0	0.020
NEAREST REC	815	NRI	0.0	0.011
CAMP	830	C4	0.0	0.014
NEAREST REC	830	NRI	0.0	0.018
CAMP	845	C4	0.0	0.007
NEAREST REC	845	NRI	0.0	0.019
CAMP	900	C4	0.0	0.000
NEAREST REC	900	NRI	0.0	0.019

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary
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AIR MONITORING REPORT SHEET (Continued)

DATE: Oct. 25, 2017PAGE: 2 OF 4JOB #: 53525-17

DESCRIPTION	TIME	LOCATION	PID (ppm)	PARTICULATES (mg/m3)
BACKGROUND	715	BG	0.0	0.001
BREATHING ZONE	715		0.0	0.038
CAMP	715	C4	0.0	0.029
NEAREST REC	715	NRI	0.0	0.005
CAMP	730	C4	0.0	0.004
NEAREST REC	730	NRI	0.0	0.017
CAMP	745	C4	0.0	0.007
NEAREST REC	745	NRI	0.0	0.017
CAMP	1000	C4	0.0	0.002
NEAREST REC	1000	NRI	0.0	0.021
BACKGROUND	1045	BG	0.0	0.004
CAMP	1045	C5	0.0	0.006
NEAREST REC	1045	NRI	0.0	0.010
BREATHING ZONE	1045		0.0	0.042
NEAREST REC	1100	NRI	0.0	0.010
CAMP	1100	C5	0.0	0.006
NEAREST REC	1115	NRI	0.0	0.014
CAMP	1115	C5	0.0	0.005
CAMP	1130	C5	0.0	0.005
NEAREST REC	1130	NRI	0.0	~~0.008~~ 0.018
BACKGROUND	1145	BG	0.0	0.019
BREATHING ZONE	1145		0.0	0.024
CAMP	1145	C5	0.0	0.000
NEAREST REC	1145	NRI	0.0	0.006
CAMP	1200	C5	0.0	0.001
NEAREST REC	1200	NRI	0.0	0.014
CAMP	1215	C5	0.0	0.005
NEAREST REC	1215	NRI	0.0	0.014
CAMP	1230	C5	0.0	0.002
NEAREST REC	1230	NRI	0.0	0.015
BACKGROUND	1245	BG	0.0	0.007
BREATHING ZONE	1245		0.0	0.016
CAMP	1245	C5	0.0	0.003
NEAREST REC	1245	NRI	0.0	0.007
CAMP	1300	C5	0.0	0.004
NEAREST REC	1300	NRI	0.0	0.012
CAMP	1315	C5	0.0	0.001
NEAREST REC	1315	NRI	0.0	0.010

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary
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AIR MONITORING REPORT SHEET (Continued)

DATE: 04.28.2017

PAGE: 3 OF 4

JOB #: 53525-17

[illegible]

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary
S:/fieldforms/Air Monitoring

811

Before
Call before you dig



Scale: 1"=50'

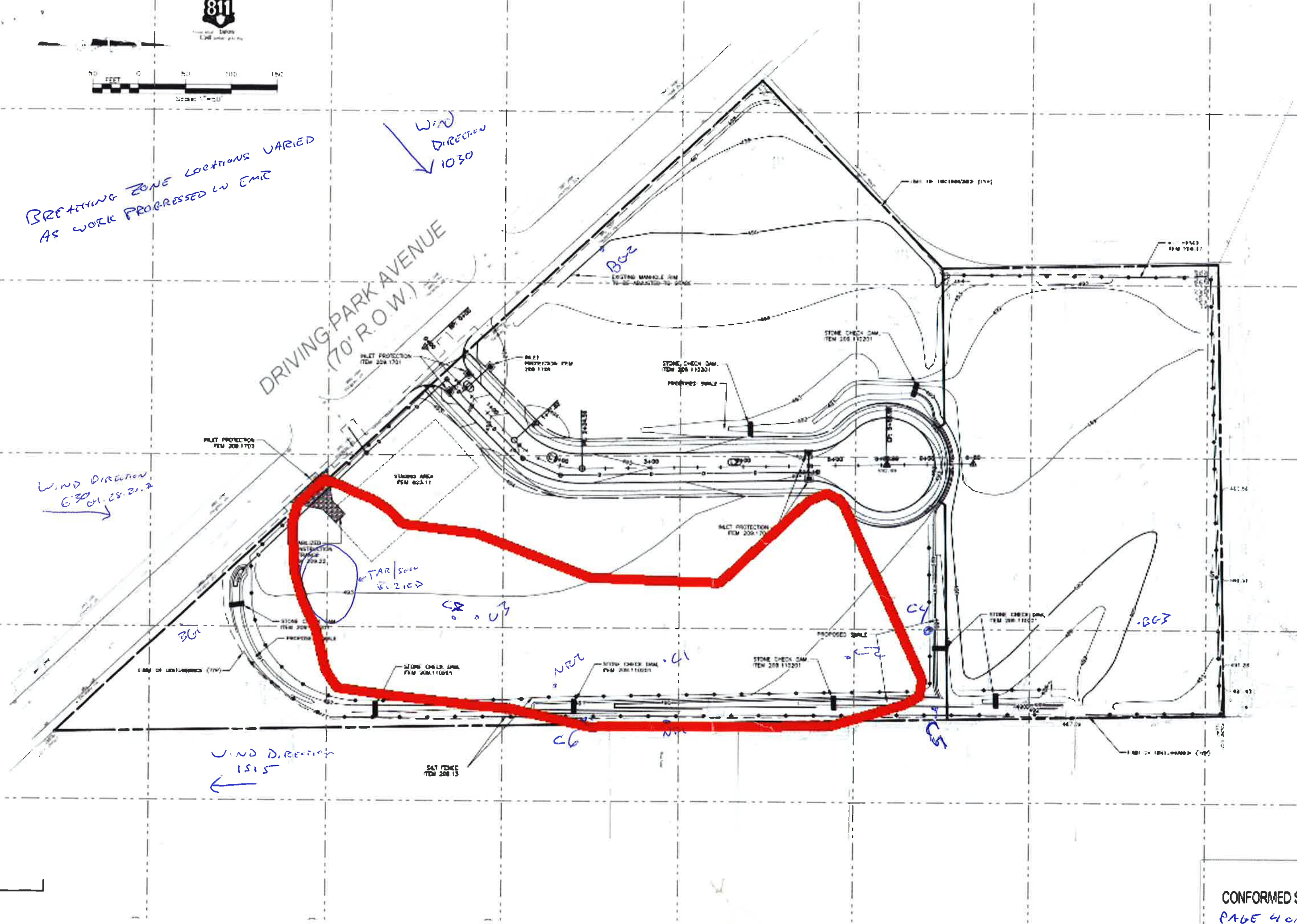
BREATHING ZONE LOCATIONS VARIED
AS WORK PROGRESSED IN EMB

WIND
DIRECTION
1030

DRIVING PARK AVENUE
(70' R.O.W.)

WIND DIRECTION
E 30° ON 25.2.2

WIND DIRECTION
1515



PROJECT: PROTECH SITE DEVELOPMENT		FISHER ASSOCIATES	
DRAWING: GRADING AND EROSION CONTROL PLAN		C-135	
DATE: 10/15/2013		BY: J. VANOS	
CHECKED: J. VANOS		DATE: 10/15/2013	
PROJECT NO: 134024		SHEET NO: 13	

CONFORMED SET
PAGE 4 OF 4



DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS
AN AFFILIATE OF DAY ENGINEERING, P.C.

AIR MONITORING REPORT SHEET

DATE: 04-27-2017PAGE: 1 OF 4JOB #: 5352 S-17SITE: Phototech Site Development Infrastructure ProjectBY: SEAN ZIESEON-SITE: 600 OFF-SITE: 1500WEATHER CONDITIONS: 61° SUNNY PREVAILING WIND DIRECTION: NEPERSONNEL ON-SITE: RAMSEY / DAYNOTES: LARGE WORK AREA PUSHING DIRT FROM SOUTH END EMP TO NORTH
END EMP950 STOP WORKING 1045 START BACK UP1200 BEGAN COMPLETING EMP WHILE MOVING DIRT1330 STARTED WORK ON SOUTH SIDE EMP1430 DUG HOLE & BURIED SPOTS OF1450 STOP WORK

DESCRIPTION	TIME	LOCATION	PID (ppm)	PARTICULATES (mg/m3)
BACKGROUND	715	BG1	0.0	0.007
CAMP	730	C1	0.0	0.004
NEAREST REC	730	NR1	0.0	0.000
BREATHING ZONE	730		0.0	0.005
NEAREST REC	745	NR1	0.0	0.009
CAMP	745	C1	0.0	0.010
NEAREST REC	800	NR1	0.0	0.014
CAMP	800	C1	0.0	0.011
BREATHING ZONE	815		0.0	0.023
BACKGROUND	815	BG2	0.0	0.019
NEAREST REC	815	NR1	0.0	0.000
CAMP	815	C2	0.0	0.003
CAMP	830	C2	0.0	0.008
NEAREST REC	830	NR1	0.0	0.000
NEAREST REC	845	NR1	0.0	0.001
CAMP	845	C2	0.0	0.011
CAMP	900	C2	0.0	0.014
NEAREST REC	900	NR1	0.0	0.002
BACKGROUND	915	BG2	0.0	0.012
BREATHING ZONE	915		0.0	0.016

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary
S:/fieldforms/Air Monitoring1563 LYEAL AVENUE
ROCHESTER, NEW YORK 14606
(585) 454-0210
FAX (585) 454-0825

www.dayenvironmental.com

420 LEXINGTON AVENUE, SUITE 300
NEW YORK, NEW YORK 10170
(212) 986-8645
FAX (212) 986-8657



DAY ENVIRONMENTAL, INC.

ENVIRONMENTAL CONSULTANTS
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AIR MONITORING REPORT SHEET (Continued)

DATE: 01/27/2017PAGE: 2 OF 4JOB #: 53525-17

DESCRIPTION	TIME	LOCATION	PID (ppm)	PARTICULATES (mg/m3)
CAMP	915	CZ	0.0	0.011
NEAREST REC	915	NR1	0.0	0.006
CAMP	930	CZ	0.0	0.008
NEAREST REC	930	NR1	0.0	0.005
NEAREST REC	945	NR1	0.0	0.005
CAMP	945	CZ	0.0	0.009
BACKGROUND	1045 1100	BGT	0.0	0.009
BREATHING ZONE	1045 1100		0.0	0.015
CAMP	1045 1100	CZ	0.0	0.006
NEAREST REC	1045 1100	NR1	0.0	0.028
CAMP	1115	CZ	0.0	0.007
NEAREST REC	1115	NR1	0.0	0.011
CAMP	1130	CZ	0.0	0.007
NEAREST REC	1130	NR1	0.0	0.014
CAMP	1145	CZ	0.0	0.011
NEAREST REC	1145	NR1	0.0	0.017
BACKGROUND	1210	BGT	0.0	0.018
BREATHING ZONE	1200		0.0	0.040
CAMP	1200	CZ	0.0	0.014
NEAREST REC	1200	NR1	0.0	0.020
CAMP	1215	CZ	0.0	0.017
NEAREST REC	1215	NR1	0.0	0.010
CAMP	1230	CZ	0.0	0.011
NEAREST REC	1230	NR1	0.0	0.030
CAMP	1245	CZ	0.0	0.010
NEAREST REC	1245	NR1	0.0	0.014
BACKGROUND	1300	BGT	0.0	0.006
BREATHING ZONE	1300		0.0	0.010
CAMP	1300	CZ	0.0	0.008
NEAREST REC	1300	NR1	0.0	0.001
CAMP	1315	CZ	0.0	0.006
NEAREST REC	1315	NR1	0.0	0.003
CAMP	1330	CZ	0.0	0.002
NEAREST REC	1330	NR1	0.0	0.019
CAMP	1345	CZ	0.0	0.006
NEAREST REC	1345	NR1	0.0	0.010
CAMP	1400	CZ	0.0	0.006
NEAREST REC	1400	NR1	0.0	0.014

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary
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AIR MONITORING REPORT SHEET (Continued)

DATE: 01/27/2017

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JOB #: 53525-17

[illegible]

DESCRIPTION: BZ = Breathing Zone, BG = Upwind Background, CAMP = Outside work area/at property boundary
S/fieldforms/Air Monitoring



Call before you dig



WIND DIRECTION

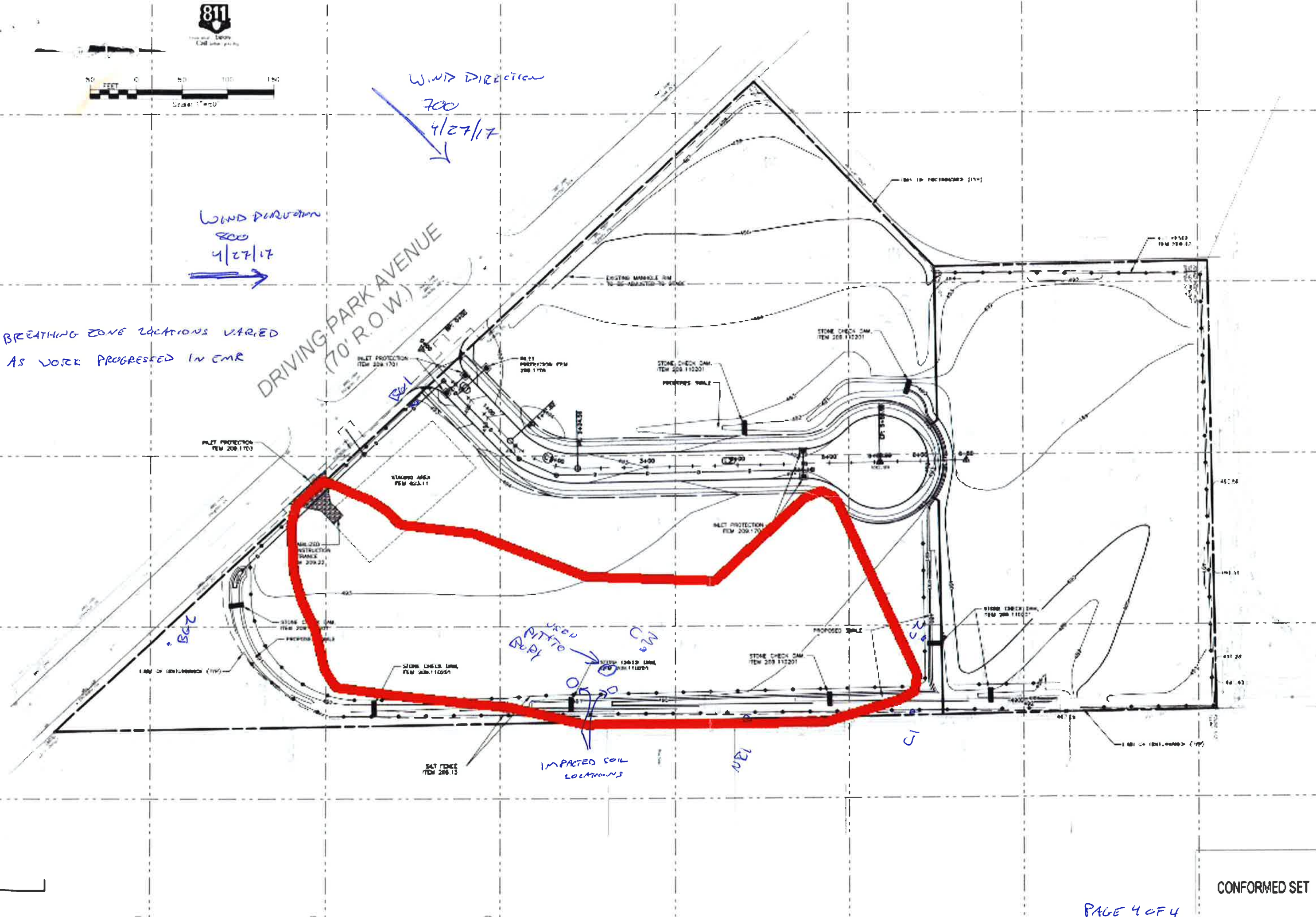
700
4/27/17

WIND DIRECTION

800
4/27/17

DRIVING PARK AVENUE
(70' R.O.W.)

BREATHING ZONE LOCATIONS VARIED
AS WORK PROGRESSED IN CMR



 FISHER ASSOCIATES www.fisherassoc.com	
PROJECT PHOTOCH SITE DEVELOPMENT	GRADING AND EROSION CONTROL PLAN
SHEET NO. C-135	

CONFORMED SET

APPENDIX 9



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.	B00016	
Site Name Former Photec Imaging		
Site Address: 1000 Driving Pk. Avenue		Zip Code: 14613-
City/Town: Rochester		
County: Monroe		
Site Acreage: 12.5		
Reporting Period: October 08, 2016 to October 08, 2017		
		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))?		☒ ☐
YES, A NEW ROAD WAS CONSTRUCTED, REFER TO SECTION 4.0 IN REPORT AND APPENDIX 6 FOR DETAIL		
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?		☒ ☐
YES, REFER TO SECTION 4.0 IN THE REPORT FOR MONROE COUNTY HEALTH DEPT WATER PERMIT #DOH348		
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? 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		<u>11-7-2017</u> Date

SITE NO. B00016

Box 3

Description of Institutional Controls

Parcel

090.63-001-001

Owner

City of Rochester

Institutional Control

**Ground Water Use Restriction
Landuse Restriction
Site Management Plan
Soil Management Plan
Monitoring Plan**

IC/EC Plan

The Environmental Easement limits site use to commercial and/or industrial uses, prohibits the use of groundwater as a potable source, requires a site management plan, and requires periodic certification that all institutional and engineering controls are in place.

The Site Management Plan addresses: excavation of soils that may contain residual contamination; soil characterization and disposal/reuse in accordance with NYSDEC regulations; the potential for vapor intrusion into any buildings developed on the site; and operation and maintenance of the components of the remedy.

Box 4

Description of Engineering Controls

Parcel

090.63-001-001

Engineering Control

Vapor Mitigation

Periodic groundwater monitoring to determine the effectiveness of the remedy. The need for groundwater remediation and/or continued monitoring will be periodically evaluated. Groundwater monitoring will continue until the remedial objectives have been achieved, or until the NYSDEC determines that continued monitoring is no longer required.

A sub-slab mitigation system will be required for all new building construction. The SSDS shall be monitored on a periodic basis. The SSDS can be shutdown if NYSDEC determines the system is no longer required.

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 complete.

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.

Joseph Brindello
Signature of Owner, Remedial Party or Designated Representative

11-7-2017
Date

IC CERTIFICATIONS
SITE NO. B00016

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 Joseph Biondillo at 30 Church Street, Room 300B, Rochester, NY 14614
print name print business address

am certifying as Associate Env. Specialist, City of Rochester (Owner or Remedial Party)

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

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

11-7-2017
Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

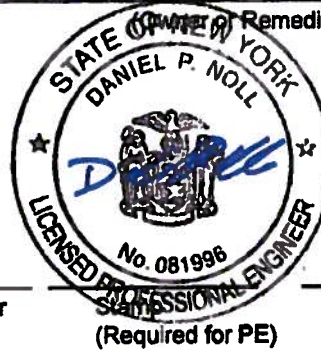
I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I DANIEL P. NOLL at LaBella Associates 300 STATE ST.
print name print business address ROCHESTER
NY

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

D. P. NOLL

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



11/7/17
Date

(Required for PE)